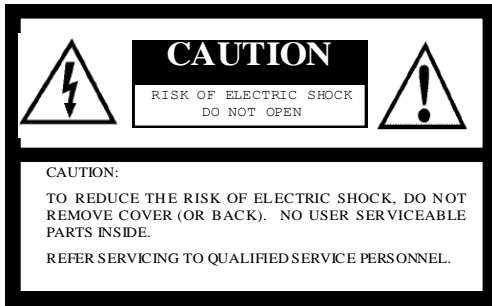


SENTECH

**STC-CL33A
STC-CLC33A
User's Guide**

Small Cubic Type
VGA CCD
Color / Monochrome Camera Link Camera

Safety Precautions



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For U.S.A.

Warning:

This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

For Canada

Warning:

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Product Precautions

- Handle the camera with care. Do not abuse the camera. Avoid striking or shaking it. Improper handling or storage could damage the camera.
- Do not pull or damage the camera cable.
- During camera use, do not wrap the unit in any material. This will cause the internal temperature of the unit to increase.
- Do not expose the camera to moisture, or do not try to operate it in wet areas.
- Do not operate the camera beyond its temperature, humidity and power source ratings.
- While the camera is not being used, keep the lens or lens cap on the camera to prevent dust or contamination from getting in the CCD or filter area and scratching or damaging this area.
- Do not keep the camera under the following conditions:
 - In wet, moist, and high humidity areas
 - Under hot direct sunlight
 - In high temperature areas
 - Near an object that releases a strong magnetic or electric field
 - Areas with strong vibrations
- Use a soft cloth to clean the camera. Use pressured air spray to clean the surface of the glass. Do NOT scratch the surface of the glass.

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uu. Trigger Mode (60 fps, Variable Partial Scanning, 8bit out).....	77
vv. Trigger Mode (60 fps, Binning Full Scanning, 8bit out)	78
ww. Trigger Mode (60 fps, Binning Partial Full Scanning, 8bit out).....	79
xx. Trigger Mode (60 fps, Binning ½ Partial Scanning, 8bit out)	80
yy. Trigger Mode (60 fps, Binning ¼ Partial Scanning, 8bit out)	81
zz. Trigger Mode (60 fps, Binning Variable Partial Scanning, 8bit out)	82
aaa. Trigger Mode (30fps, Full Scanning, 8bit out).....	83
bbb. Trigger Mode (30fps, Partial Full Scanning, 8bit out)	84
ccc. Trigger Mode (30fps, ½ Partial Scanning, 8bit out)	85
ddd. Trigger Mode (30fps, ¼ Partial Scanning, 8bit out)	86
eee. Trigger Mode (30fps, Variable Partial Scanning, 8bit out).....	87
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jjj. Trigger Mode (30fps, Binning Variable Partial Scanning, 8bit out)	92

I. The Connector Specifications

- Camera Link Connector: SCR (3M) or equivalent
Note: This product is not a PoCL type configuration. Only apply 12Vdc power through the interface connector.
- Power/IO Connector: HR10A-7R-6PB (Hirose) or equivalent
This connector is for a 12Vdc power input and the other input and output signals.
Trigger input and sync input/output signals can be assigned through the camera communication settings.

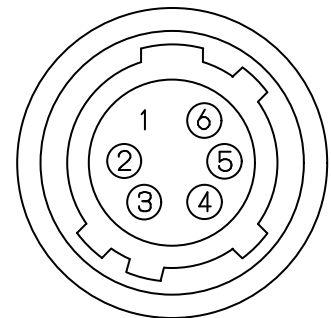
A. Pin Assignment

1. Camera Link Connector

Pin No.	Signal Name	Pin No.	Signal Name
1	GND	14	GND
2	X0-	15	X0+
3	X1-	16	X1+
4	X2-	17	X2+
5	Xclk-	18	Xclk+
6	X3-	19	X3+
7	SerTC+	20	SerTC-
8	SerTFG-	21	SerTFG+
9	CC1-(TRG)	22	CC1+(TRG)
10	CC2+	23	CC2-
11	CC3-	24	CC3+
12	CC4+	25	CC4-
13	GND	26	GND

2. Interface Connector

Pin No.	Signal Name	IN/OUT	Voltage		
				Low Voltage	High Voltage
1	GND	IN	0V		
2	I/O-1	IN	0 to +0.5V	+2.5 to +5.0V	
		OUT	0V	+3.3V	
3	I/O-2	IN	0 to +0.5V	+2.5 to +5.0V	
		OUT	0V	+3.3V	
4	I/O-3	IN	0 to +0.5V	+2.5 to +5.0V	
		OUT	0V	+3.3V	
5	TRG OUT	OUT	OUT	0V	+3.3V
6	+12V	IN	+12V		



Notes:

The trigger signal can be assigned either on the Camera Link Connector (CC1) or on the No.2 Pin of the power/IO connector through the camera setting communication.

The external sync signals (HD and VD) can be assigned on the following connectors through the camera settings communication:

- Camera Link connector (CC2: HD signal input, CC3: VD signal input) or
- Power/IO connector (No.4: HD signal input/output, No3: VD signal input/output)

B. The Signals of the Power/IO Connector

The input and output signals of the power/IO connector can be changed through the camera setting communication.

	F0H.3-0 setting	Pin No.2 (SP4)	Pin No.3 (SP3)	Pin No.4	Pin No.5
The signals 1 (Factory default setting) This is for when the system requires trigger signal input/output and HD/VD signal input/output	0	Trigger signal input	VD signal input/output	HD signal input/output	Trigger signal output
The signals 2 This is for the factory testing Do NOT use this	1				
The signals 3 This is for checking the status of CC1 to 4	2	CC4 output	CC3 output	CC2 output	CC1 output
The signals 4 This is for when the system requires the exposure time	3	FVAL signal output	SG signal output	SUB signal output	CC1 output MSB
The signals 5 This is for checking the difference of the image signal and signals	4	FVAL signal output	LVAL signal output	DVAL signal output	Image signal (MSB) output
The signals 6 This is for when the system requires the exposure time	5	Positive HD signal output	Exposure time	Trigger signal output	CC1 output
The signals 7 This is for when system requires HD/VD signal input/output	6	VD signal output	VD signal input	HD signal input	HD signal output
The signals 8 This is for the factory testing Do NOT use this	7				

The input and output signals of the power/IO connector can be changed through the camera setting communication:

Note1: Please change "F0H" address data of the register when changing the signals of the power/IO connector.

Please change "COH" address data of the EEPROM when saving the signals of the power/IO connector settings.
"F0H" address data cannot save to the EEPROM. (This note needs further editing)

Note2: Output trigger signal has the following delay from the trigger signal input:

30CLK (Approximately 2.4 useconds) at 30fps

30CLK (Approximately 1.2 useconds) at 60fps

30CLK (Approximately 815 useconds) at 90fps

Note3: Please change "13H.7" when using HD/VD signals input/output from the power/IO connector.

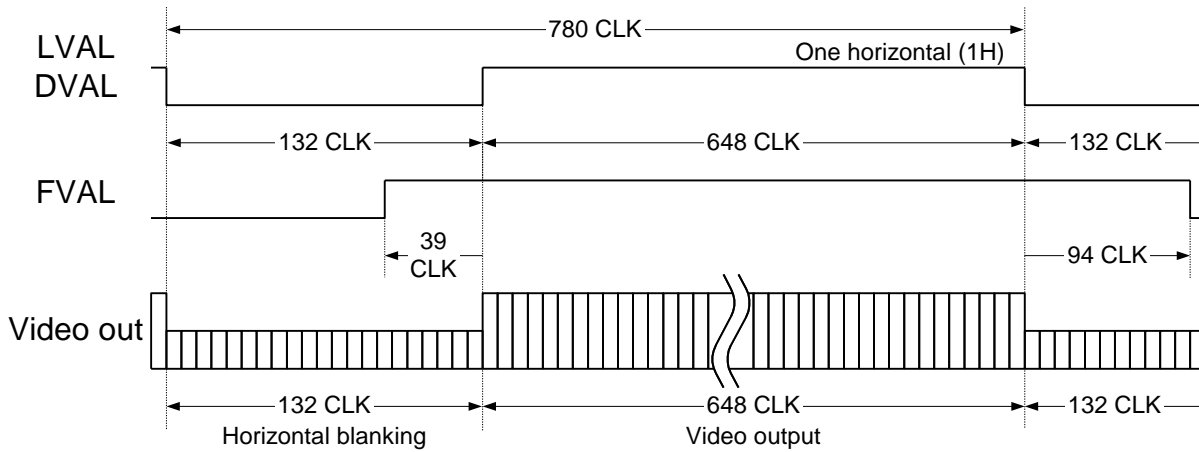
Please change "11H.7" for input/output of HD/VD signals when select signals 1 in the list above.

II. The Camera Output Timing Chart

A. Normal Mode (Setting: address: 10H, value: 1XX0XXXX)

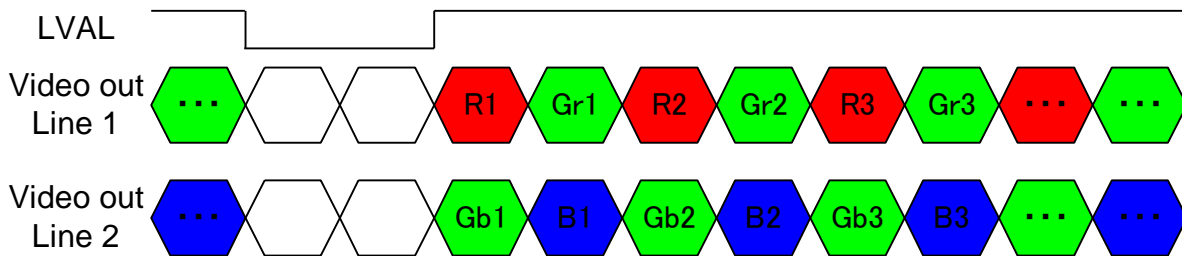
1. The Horizontal Timing

1 CLK = 81.4816 nseconds at 30 fps
 1 CLK = 40.7408 nseconds at 60 fps
 1 CLK = 27.1605 nseconds at 90 fps



2. Color Bayer Order

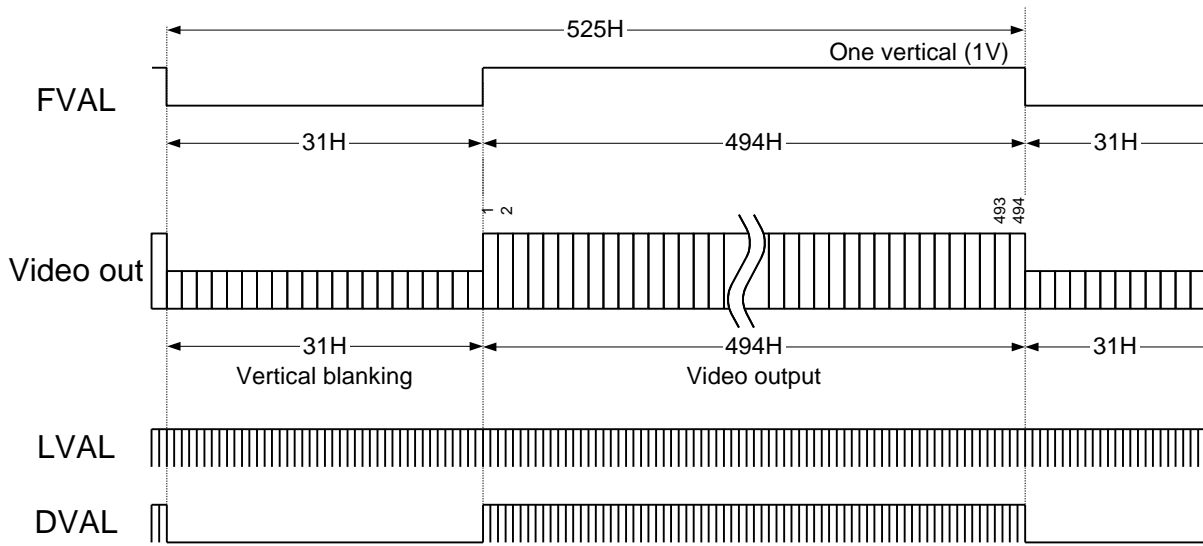
Note: This information is only applicable with the STC-CLC33A.



3. The Vertical Timings

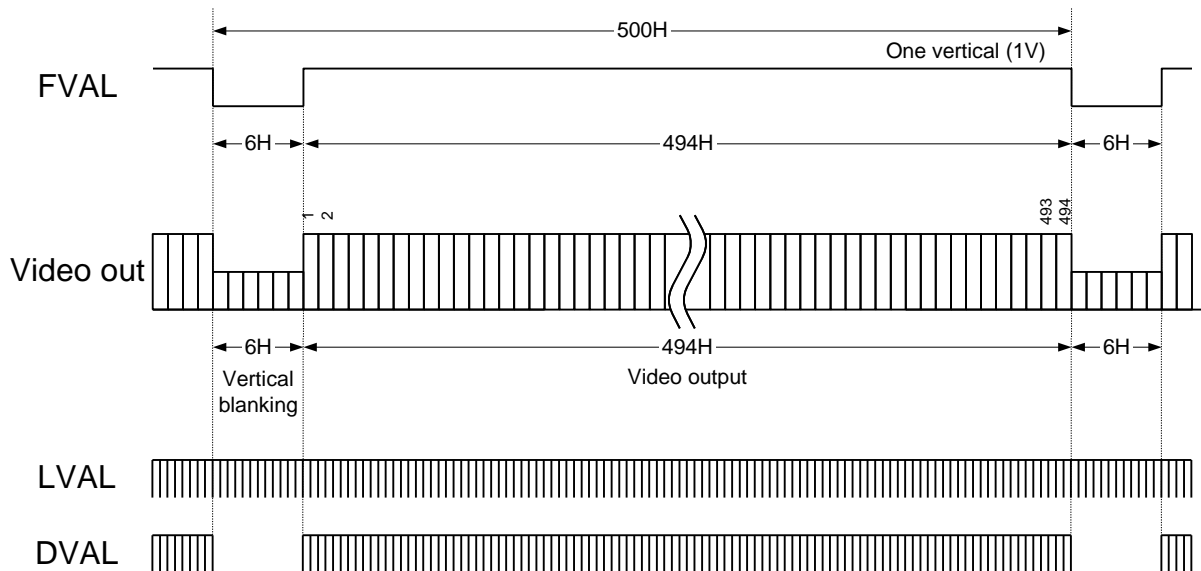
a. Normal Full Scanning (Setting: address: 10H, value: 1XX00XXX: address: 11H, value: XXX0X000)

1H = 63.5556 μ seconds, 29.9700 Hz at 30fps
 1H = 31.7778 μ seconds, 59.9400 Hz at 60fps
 1H = 21.1852 μ seconds, 89.9100 Hz at 90fps



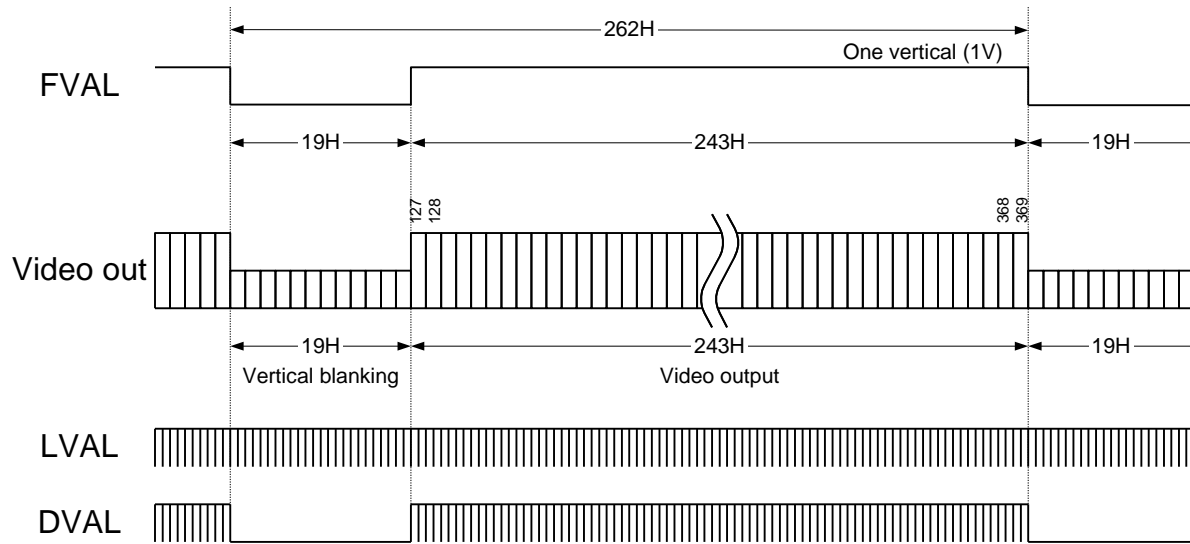
b. Partial Full Scanning (Setting: address: 10H, value: 1XX01XXX: address: 11H, value: XXX0X000)

1H = 63.5556 μ seconds, 31.4685 Hz at 30fps
 1H = 31.7778 μ seconds, 62.9370 Hz at 60fps
 1H = 21.1852 μ seconds, 94.4055 Hz at 90fps



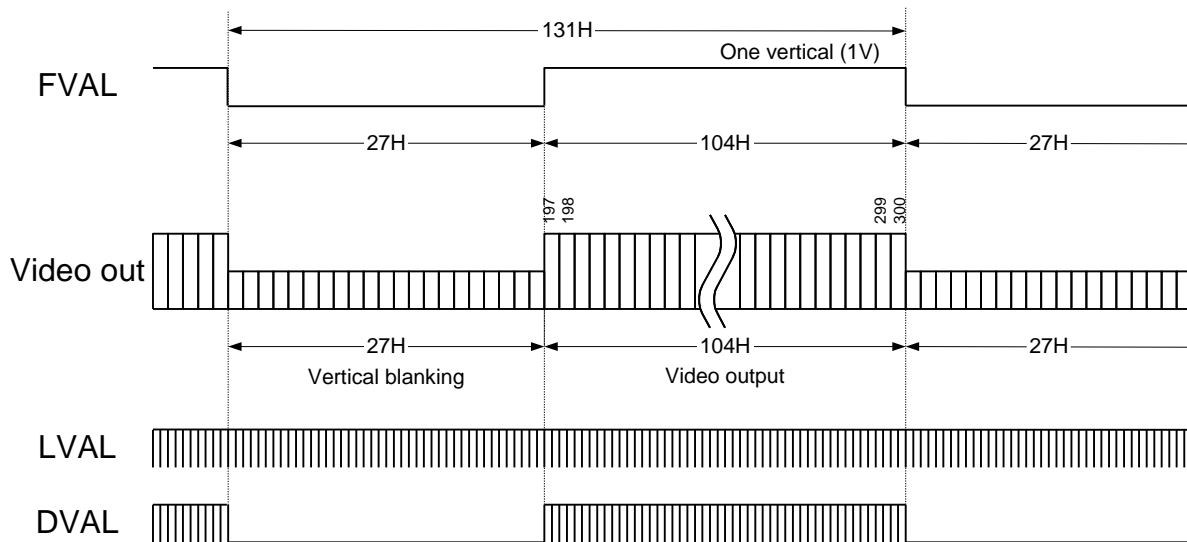
c. ½ Partial Scanning (Setting: address: 10H, value: 1XX01XXX: address: 11H, value: XXX0X001)

1H = 63.5556 μseconds, 60.0544 Hz at 30fps
 1H = 31.7778 μseconds, 120.108 Hz at 60fps
 1H = 21.1852 μseconds, 180.163 Hz at 90fps

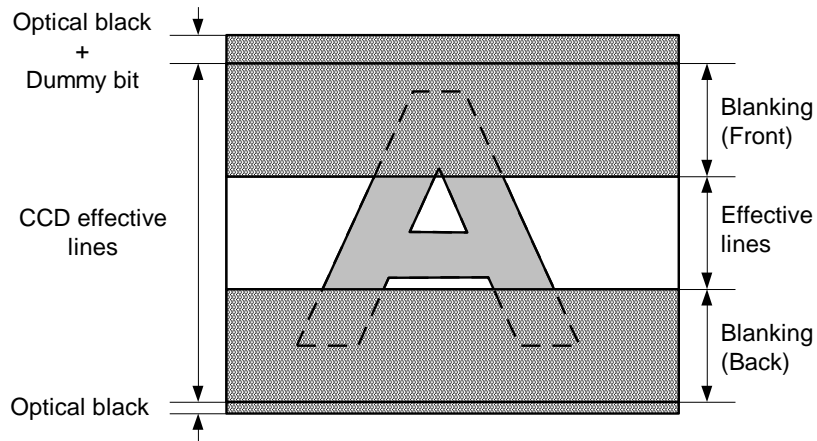
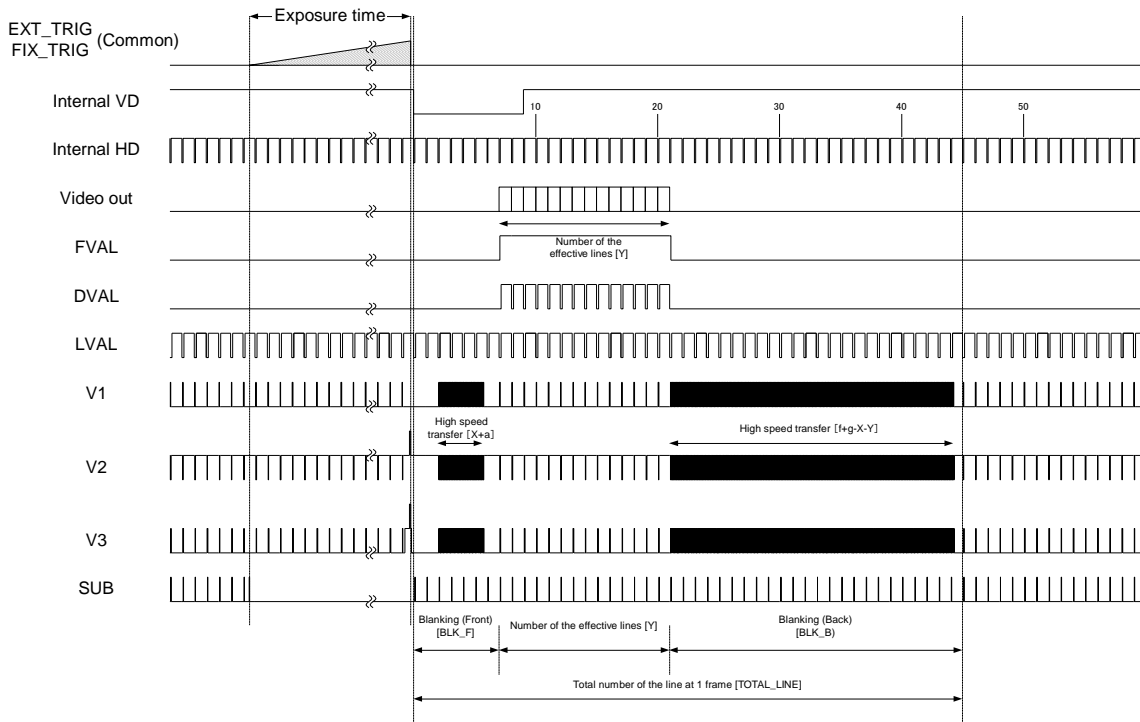


d. ¼ Partial Scanning (Setting: address: 10H, value: 1XX01XXX: address: 11H, value: XXX0X010)

1H = 63.5556 μseconds, 120.108 Hz at 30fps
 1H = 31.7778 μseconds, 240.217 Hz at 60fps
 1H = 21.1852 μseconds, 360.326 Hz at 90fps



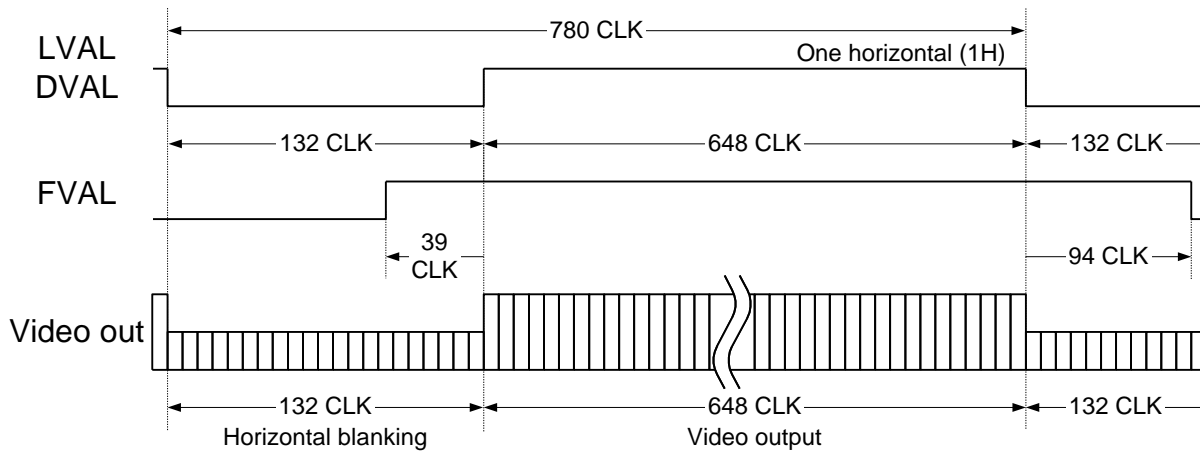
e. Variable Partial Scanning (Setting: address: 10H, value: 1XX01XXX: address: 11H, value: XXX0X111)



B. Binning Mode (Setting: address: 10H, value: 1XX1XXXX)

1. The Horizontal Timing

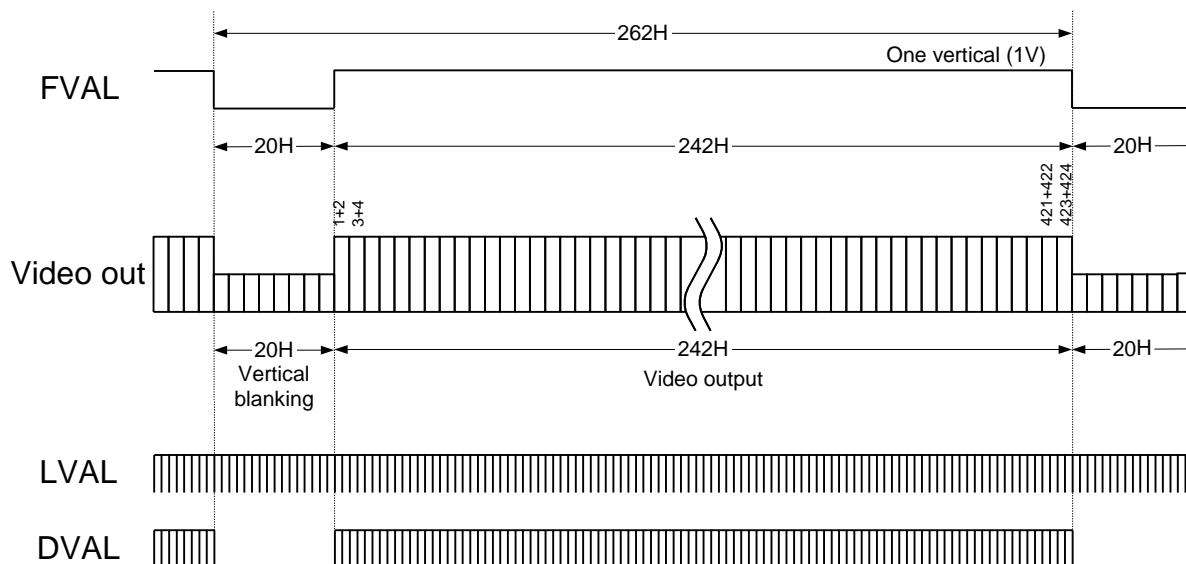
1H = 81.4816 nseconds at 30fps
 1H = 40.7408 nseconds at 60fps
 1H = 27.1605 nseconds at 90fps



2. The Vertical Timings

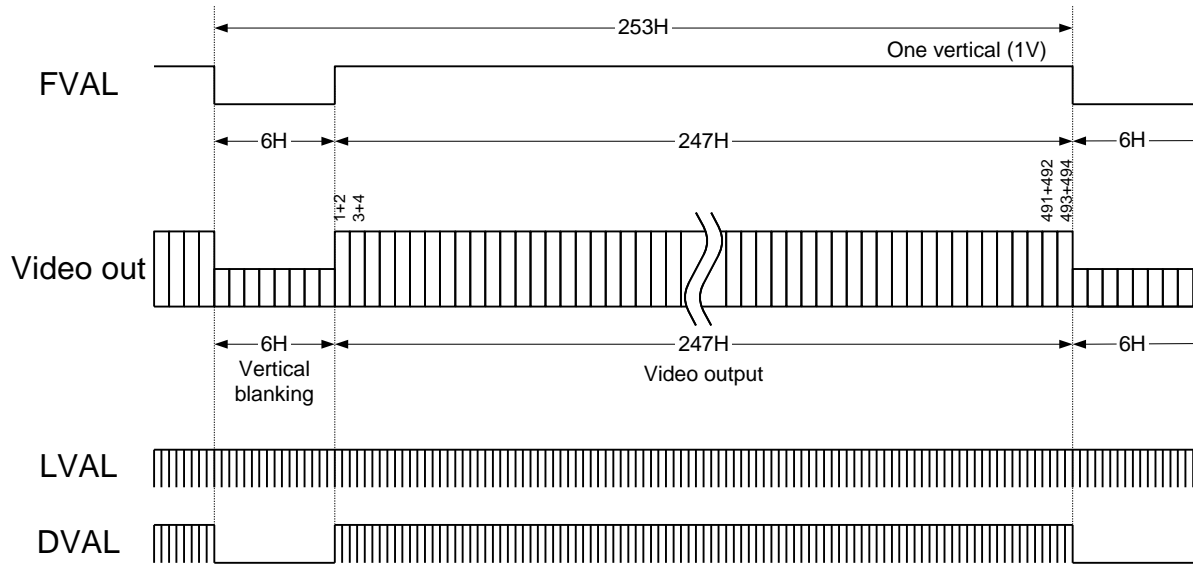
a. Binning Full Scanning (Settings: address: 10H, value: 1XX10XXX; address: 11H, value: XXX0X000)

1H = 63.5556 μ seconds, 60.0544 Hz at 30fps
 1H = 31.7778 μ seconds, 120.108 Hz at 60fps
 1H = 21.1852 μ seconds, 180.163 Hz at 90fps



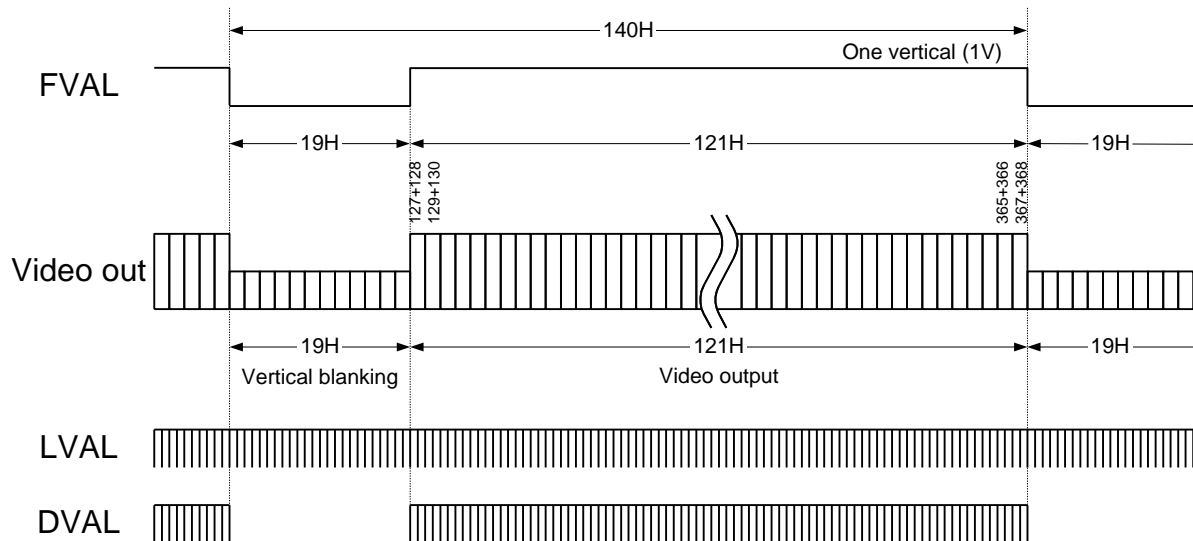
b. Binning Partial Scanning (Settings: address: 10H, value: 1XX11XXX; address: 11H, value: XXX0X000)

1 H = 63.5556 μ second, 62.1907 Hz at 30 fps
 1 H = 31.7778 μ second, 124.381 Hz at 60 fps
 1 H = 21.1852 μ second, 186.572 Hz at 90 fps



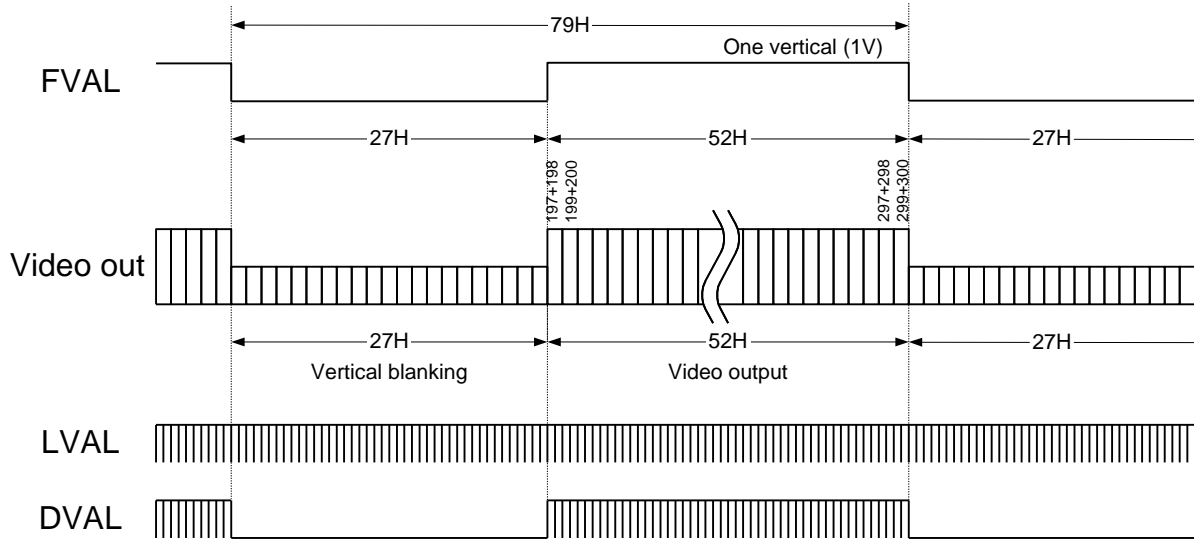
c. Binning 1/2 Partial Scanning (Settings: address: 10H, value: 1XX11XXX; address: 11H, value: XXX0X001)

1 H = 63.5556 μ second, 112.378 Hz at 30 fps
 1 H = 31.7778 μ second, 224.775 Hz at 60 fps
 1 H = 21.1852 μ second, 337.162 Hz at 90 fps

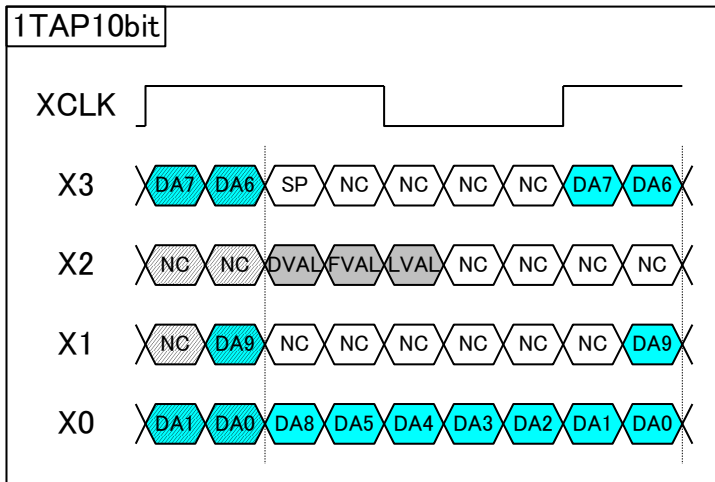


d. Binning ¼ Partial Scanning (Settings: address: 10H, value: 1XX11XXX; address: 11H, value: XX0X010)

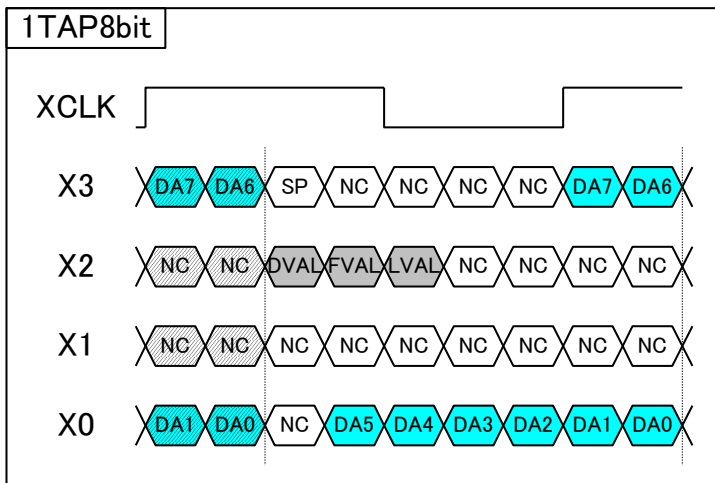
1 H = 63.5556 μ second, 199.167 Hz at 30 fps
 1 H = 31.7778 μ second, 398.335 Hz at 60 fps
 1 H = 21.1852 μ second, 597.503 Hz at 90 fps



C. The Data Order of the Camera Link Output



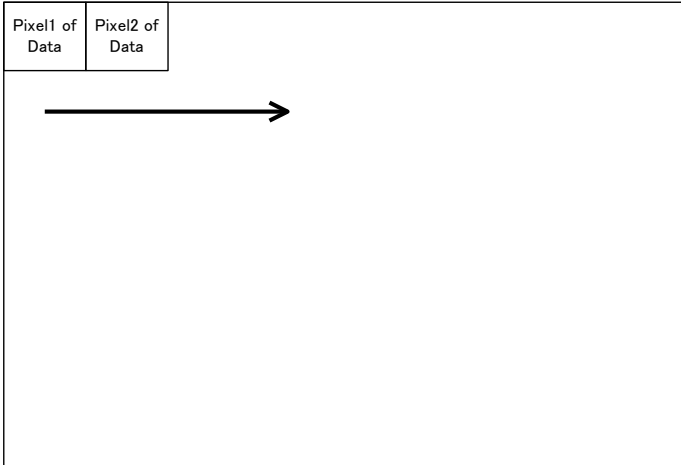
DA0 to DA9: 10bit data for one pixel



DA0 to DA7: 8bit data for one pixel

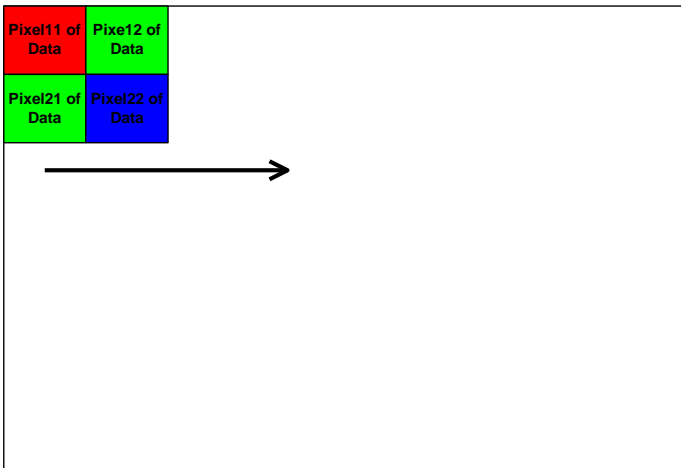
D. The Transferring Image

STC-CL33A (Monochrome)



Pixeln of Data: The transferring pixel
n: The order number

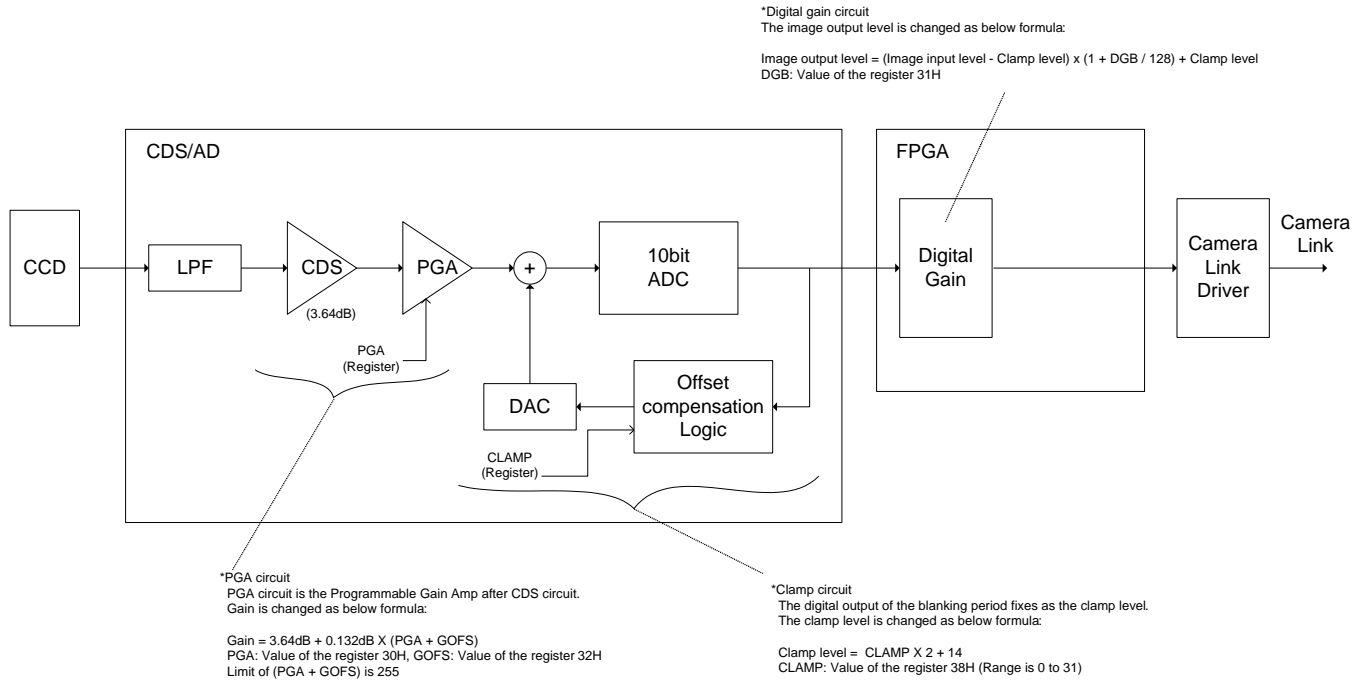
STC-CLCA (Color)



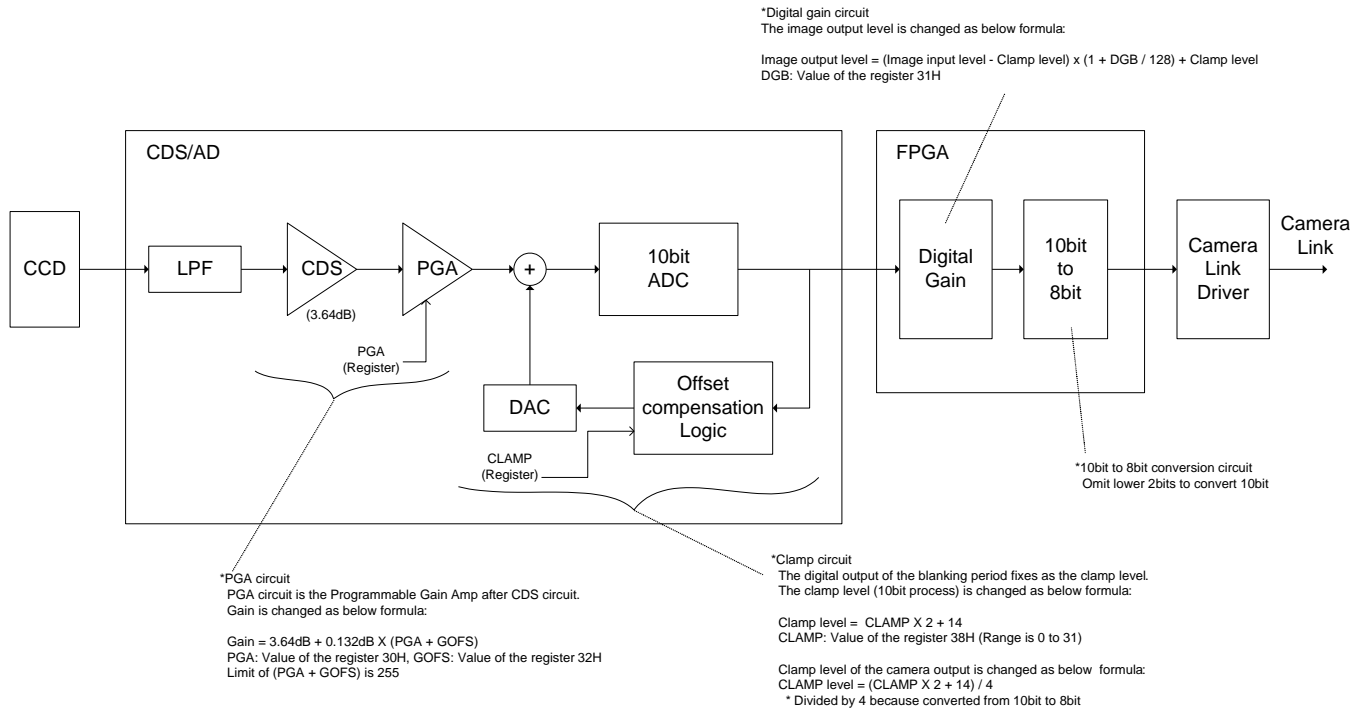
Pixelmn of Data: The transferring pixel
m: The line number
n: The order number

E. Block Diagram

1. STC-CL33A/CLC33A Block Diagram at 10bit Output



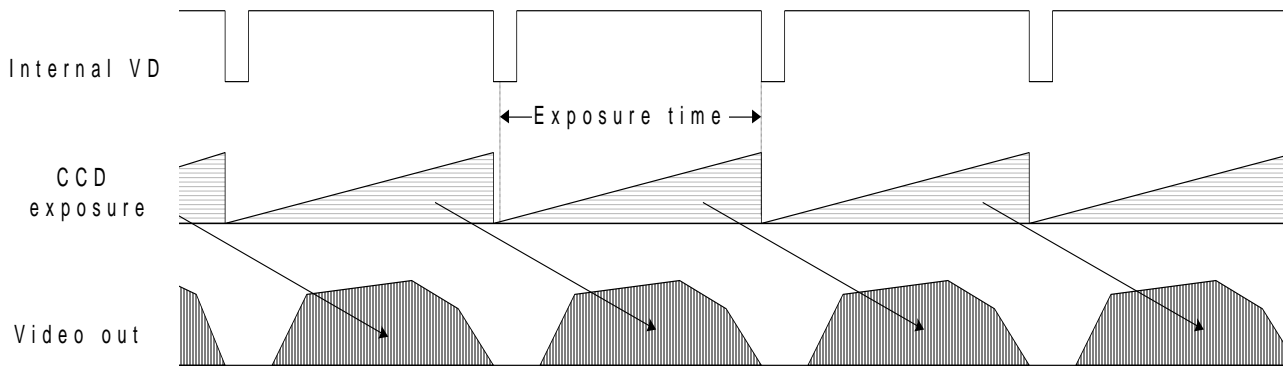
2. STC-CL33A/CLC33A Block Diagram at 8bit Output



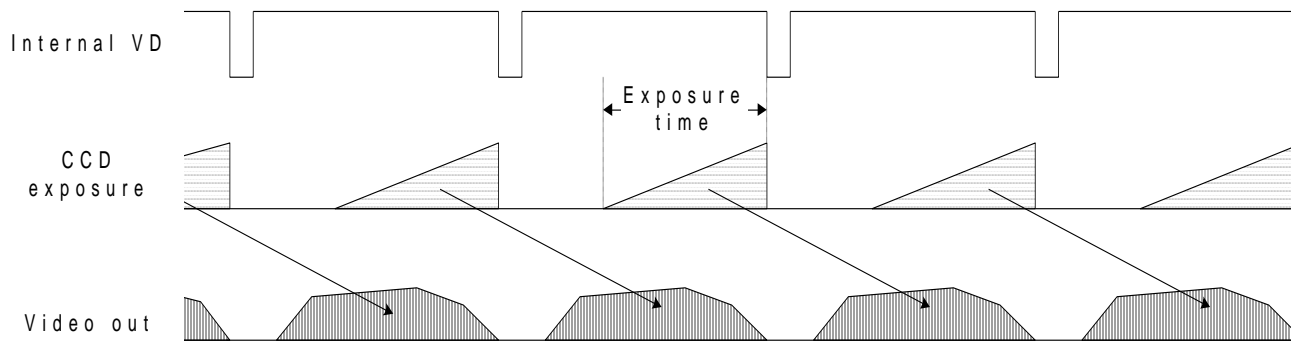
III. Camera Function Modes

A. Normal Mode

1. Normal Mode (Frame Exposure)



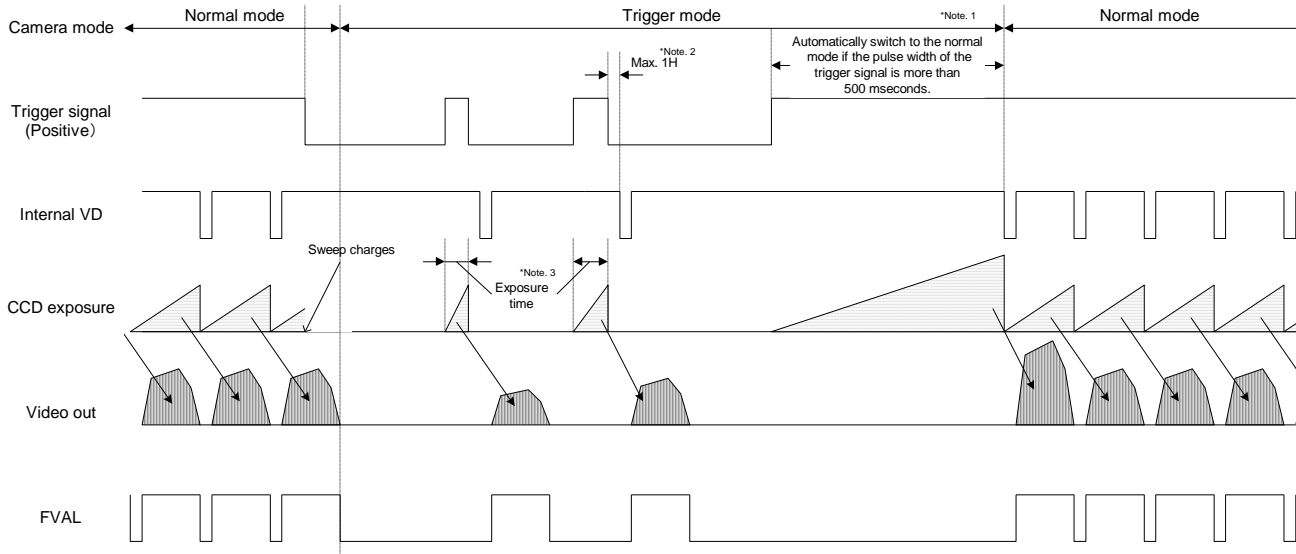
2. Normal Mode (Electronic Shutter)



B. Pulse Width Trigger Mode

In this “pulse width trigger mode” with positive polarity, the camera exposure starts at the rising edge of the trigger signal and stops at the falling edge of the trigger signal. Therefore, in the case that the exposure positive polarity is selected, the actual exposure occurs when the trigger signal is at high state.

1. Pulse Width Trigger Mode (V-Reset)

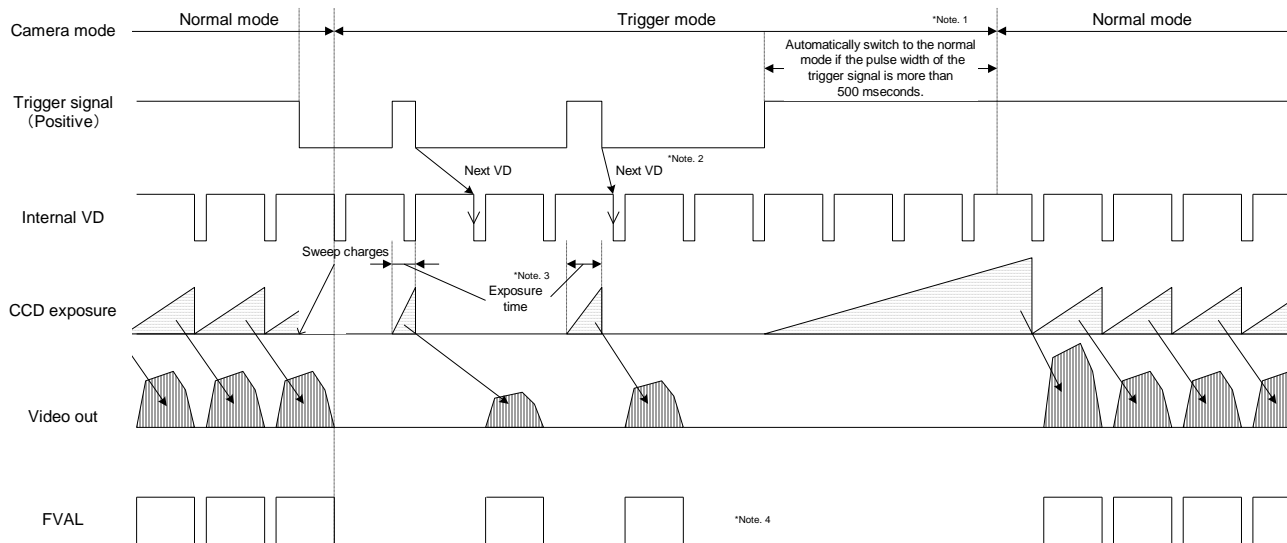


Note 1: The camera does NOT switch to normal mode when the long exposure mode is selected. This timing chart shows when the long exposure mode is selected.

Note 2: The internal VD signal is reset immediately after the exposure is finished as depicted, and the video output signal is sent out according to that reset VD timing.

Note 3: The exposure time is controlled by the pulse width of the trigger signal as depicted.

2. Pulse Width Trigger Mode (Non-Reset)



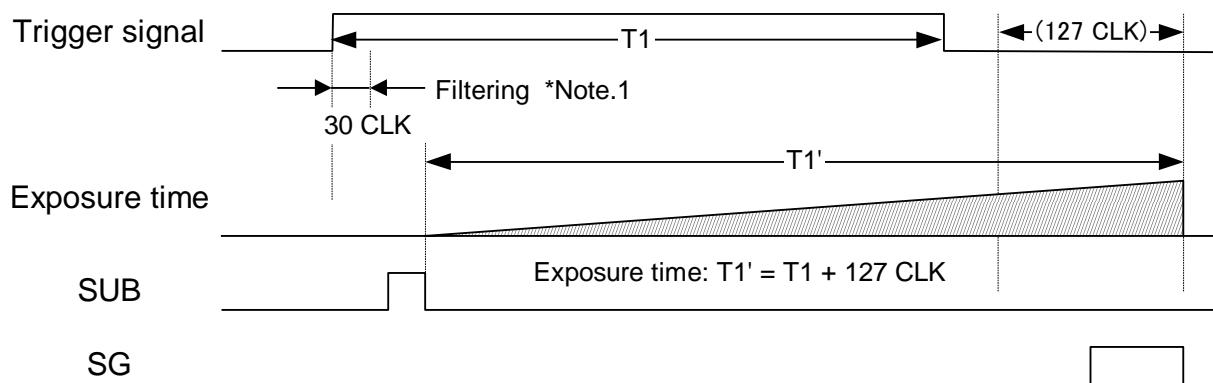
Note 1: The camera does NOT switch to normal mode when the long exposure mode is selected. This timing chart shows when the long exposure mode is selected.

Note 2: The internal VD signal is reset immediately after the exposure is finished as depicted, and the video output signal is sent out according to that reset VD timing.

Note 3: The exposure time is controlled by the pulse width of the trigger signal as depicted.

Note 4: The FVAL signal does not output when the exposure by the trigger signal does not exist.

3. Pulse Width Trigger Mode (Exposure Timing)



Notes:

Trigger signals equal to or shorter than 30 clocks are removed by the filtering systems.

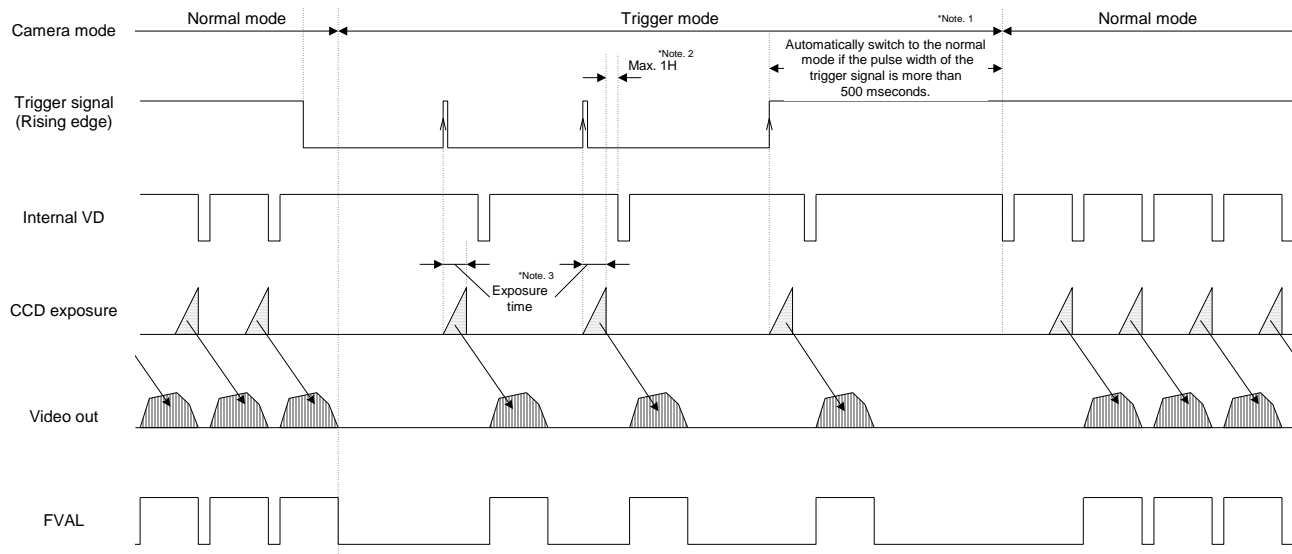
The input trigger signal has to be more than 31 clocks pulse width.

The exposure starts 63 clocks after the rising edge of the trigger signal.

C. Edge Preset Trigger Mode

In this trigger mode, the camera exposure starts at the rising edge of the trigger pulse. The exposure duration time is preset by the DIP Switch settings.

1. Edge Preset Trigger Mode (V-Reset)

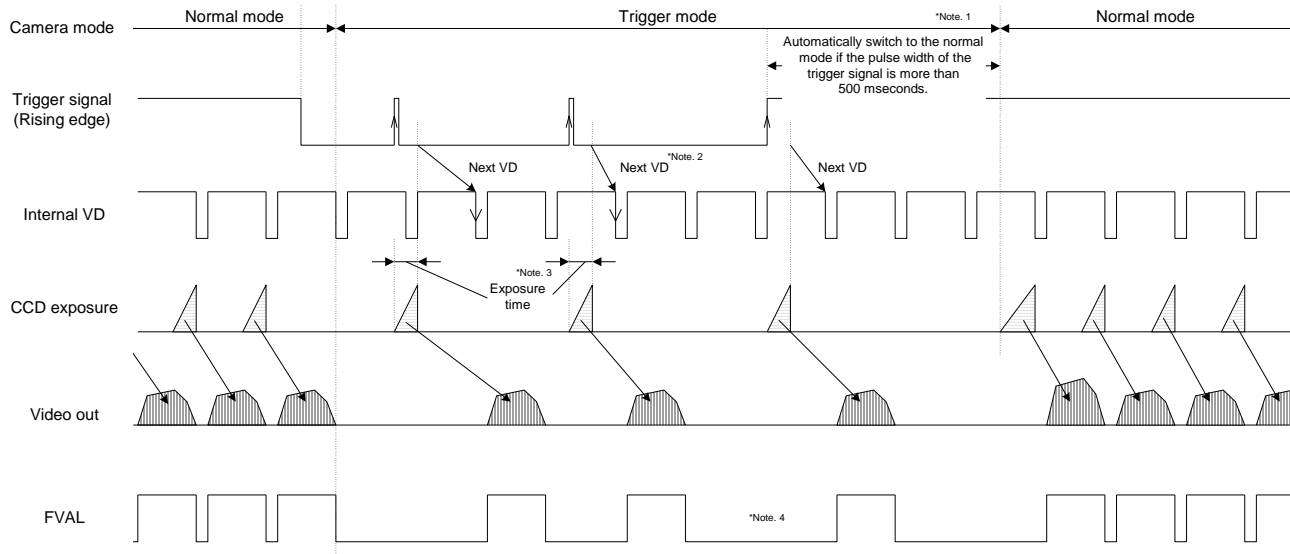


Note 1: The camera does NOT switch to the normal mode when the long exposure mode is selected.

Note 2: Immediately after the exposure finishes, the video output will V reset by the next internal HD signal.

Note 3: The exposure time is set by the preset electronic shutter speed.

2. Edge Preset Trigger Mode (Non-Reset)



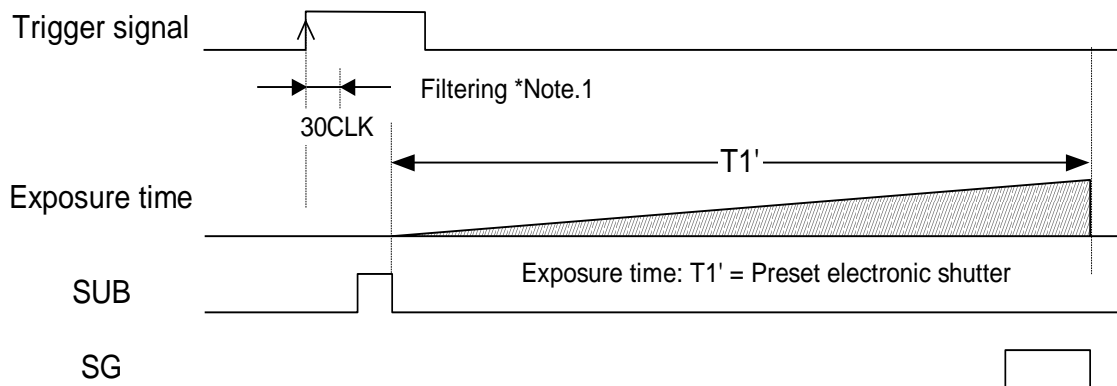
Note 1: The camera does NOT switch to normal mode when the long exposure mode is selected. This timing chart shows when the long exposure mode is selected.

Note 2: The internal VD signal does not reset by the trigger signal

Note 3: The exposure time is preset by the camera setting communication as “shutter speed”. (See command No. 20H and 21H)

Note 4: The FVAL signal does not output when the exposure by the trigger signal does not exist.

3. Edge Preset Trigger Mode (Exposure Timing)



Notes:

Trigger signals equal to or shorter than 30 clocks are removed by the filtering systems.

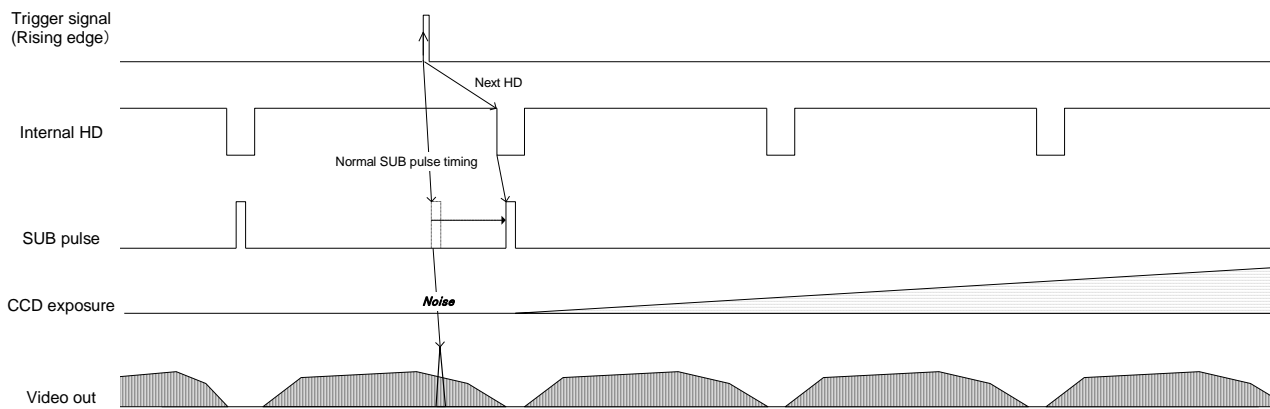
The input trigger signal has to be more than 31 clocks pulse width.

The exposure starts 63 clocks after the rising edge of the trigger signal.

D. H Reset Mode

Normally, video noise appears when the beginning of a trigger signal is applied before video read-out of the previous frame is finished. This noise is caused by the SUB pulse, which is activated to clear all residual charges on the CCD prior to a new exposure. By selecting "H Reset Mode", the camera automatically holds the actual activation of the trigger until the next horizontal blanking period. By doing this, the SUB pulse is activated during the horizontal blanking period and the noise in the image can be avoided.

Due to the principle of this operation, there can be a maximum "1H" of delay of actual trigger signal.



IV. The Communication Protocol Specifications

This camera has a communication function that enables external devices, such as the PC, to control or set the camera functions and parameters. Use the “CLCtrl” communication software (version 9.0 or later) to communicate, or follow the communication protocol described below to communicate with the camera.

Note: A communication problem may occur under the following conditions:

- When the external sync frequency is out of specification (more than 1% off from the specified nominal frequency).
- When external sync is unstable.
- Approximately for one second after changing the sync mode.
- Approximately for one second after switching the frame rate.

A. The Communication Method: UART (RS232C)

B. The Communication Settings

	Settings
Baud Rate	9,600 bps / 38,400 bps
Data Bit	8 bit
Parity	None
Stop Bit	1 bit
Flow Control	None

C. The Communication Format

1. The Sending Data format from the PC to the camera is as follows:

a. Sending the Read Command:

SOF	Device Code	Read	Page Selection	Command Code	Data Length	Data	EOF
(8bit)	(6bit)	(1bit)	(1bit)	(8bit)	(8bit)	(1byte)	(8bit)

b. Sending the Write Command:

SOF	Device Code	Read	Page Selection	Command Code	Data Length	Data	EOF
(8bit)	(6bit)	(1bit)	(1bit)	(8bit)	(Data length byte)	(1byte)	(8bit)

2. The receiving data format from the camera is as follows:

a. After sending the read command:

SOF	Device Length	Data	EOF
(8bit)	(8bit)	(Data Length Byte)	(8bit)

b. After sending the write command:

SOF	Device Length	Receiving Code	EOF
(8bit)	(8bit) "00"	(8bit)	(8bit)

3. Descriptions of the Format

Name	Descriptions				
SOF	Start Of Frame. The set (or receive) value is always "02H".				
Device Code	This indicates the destination of communication. The device code for the camera is "000000". Other codes are the peripheral devices.				
Read / Write	This specifies "Read" or "Write" to command numbers. Set "0" for "Read" and "1" for "Write".				
Page Selection	<p>This specifies page selection (access selection to registers and EEPROM's) of command.</p> <p>Set to "0" to access the command register of the camera. Read command: To read stored data from the EEPROM. Write command: To set a data into the command register. The previously stored data is replaced by this data. However, the data in the EEPROM as default value.</p> <p>Set to "1" to access the EEPROM of the camera. Read command: To read stored data from the EEPROM. Write command: To store data into the EEPROM as the default value.</p> <p>Notes: 1. The camera operates with the data in the EEPROM when the power is applied. 2. The camera returns the receiving code "01H" to the PC after storing data in the EEPROM. The camera rejects any commands during the data being stored (approximately 5 msec/byte) and returns the receiving code "07H" (Busy) to the PC.</p>				
Command Code	This indicates the contents of the data sent or received. Refer to the following page for details.				
Data Length	<p>This indicates the data length (Unit: number of byte)</p> <p>Receiving frame: The data length is dependent on each read command sent. The data length is defined as "00H" after sending the write command. The data length of error response is defined as "00H".</p> <p>Sending frame: The data length is 1 byte dummy data when sending the read command, and that data is not referenced. The data length is dependent on each "write command" sent.</p>				
Data	This indicates write-data or read-data according to the command type.				
EOF	End Of Frame. The set (or receive) value is always "03H".				
Receiving Code	<p>This indicates the results of the command sent:</p> <table border="1" style="margin-left: 40px;"> <tr> <td>01H: Receiving OK (ACK)</td> <td>10H: Receiving Problem (NAC)</td> </tr> <tr> <td>11H: Communication Problem</td> <td></td> </tr> </table>	01H: Receiving OK (ACK)	10H: Receiving Problem (NAC)	11H: Communication Problem	
01H: Receiving OK (ACK)	10H: Receiving Problem (NAC)				
11H: Communication Problem					

4. Example Command

Send the read command to read the 00H address data of the register

02, 00, 00, 01, 03

SOF, (Device code/Read/Register), Command code, Data length, Data, EOF

The return command

02, 01, 00, 03

D. The Camera Control Commands

1. The Camera Command List

Notes:

- The data unit of each command is 1 byte (8bit).
- The data can be saved to the EEPROM if there is an “X” in the “Save to EEPROM” column in the following list.
- The camera initializes based on the stored data in the EEPROM when power is applied.

Command No.	Read/Write	Save to EEPROM	Function	Initial Data	Data Range
00 to 0BH			Reserved	-	-
0CH	Read/Write	X	The signals of the power/IO connector at power on (8bit: D[7..0])		
0D to 0FH			Reserved	-	-
10H	Read/Write	X	The camera function mode 1 (8bit: D[7...0])	9	
11H	Read/Write	X	The camera function mode 2 (8bit: D[7...0])	0	
12H	Read/Write	X	The camera function mode 3 (8bit: D[7...0])	0	
13H	Read/Write	X	The camera function mode 4 (8bit: D[7...0])	0	
14H	Read/Write	X	The communication mode (8bit: D[7...0])	1	
15 to 1FH			Reserved	-	-
20H	Read/Write	X	The exposure time (H) of the electronic shutter (16bit: D[7..0])	0	0 to 4095
21H	Read/Write	X	The exposure time (H) of the electronic shutter (16bit: D[15..8])		
22H	Read/Write	X	The exposure time (CLK) of the electronic shutter (16bit: D[7..0])	0	0 to 779
23H	Read/Write	X	The exposure time (CLK) of the electronic shutter (16bit: D[15..8])		
24H	Read/Write	X	The start line of the variable partial scanning (16bit: D[7...0])	0	0 to 493
25H	Read/Write	X	The start line of the variable partial scanning (16bit: D[15...8])		
26H	Read/Write	X	The effective lines of the variable partial scanning (16bit: D[7...0])	494	0 to 494
27H	Read/Write	X	The effective lines of the variable partial scanning (16bit: D[15...8])		
28H	Read/Write	X	The delay time for the trigger (8bit : D[7...0])	0	0 to 31
29-2FH			Reserved	-	-
30H	Read/Write	X	CDS gain (8bit: D[7...0])	0	0 to 255
31H	Read/Write	X	The digital gain (8bit: D[7..0])	The factory adjusted value	-
32H	Read/Write	X	The gain offset (6bit: D[7..0])	The factory adjusted value	-
33 to 37H			Reserved	-	-
38H	Read/Write	X	The clamp level (8bit: D[7...0])	9	0 to 31
39 to 7FH			Reserved	-	-
80H	Read/Write		EEPROM control (8bit: D[7..0])		
81 to EFH			Reserved	-	-
F0H	Read/Write		The signals of the power/IO connector (8bit: D[7..0])		
F1 to FFH			Reserved	-	-

Command No.	Command Description								
14H: UART[7...0]	<p>[The communication mode] Initial Data: 1 This sets the communication modes.</p> <p>D[7...0]</p> <table border="1"> <tr> <td>D7</td> <td>D6</td> <td>D5</td> <td>D4</td> <td>D3</td> <td>D2</td> <td>D1</td> <td>D0</td> </tr> </table> <p>D7 to D2: No Function <u>Please set "000000"</u> D1 to D0: Communication Mode 00: 38,400 bps 01: 9,600 bps 10 to 11: No function (Prohibited setting. Do not set these values)</p>	D7	D6	D5	D4	D3	D2	D1	D0
D7	D6	D5	D4	D3	D2	D1	D0		
20H: SVR[7...0]	<p>[The exposure time (H) of the electronic shutter] Initial Data: SVR[15...0] = 0, Data Range: 0 to 4095 Sets the preset shutter speed for electronic shutter.</p>								
21H: SVR[15...8]	<p>Exposure time (shutter speed) = SVR[15..0] x (1H cycle) + SHR[15..0] x (1CLK cycle) The camera works with the shutter off (Frame exposure) when this value is set to 0 and the value of SHR[] is 0. The camera works with the minimum shutter speed when this value is set to 0 and the value of SHR[] is 1 to 306. Automatically adjusts to 4095 when it is set greater than 4095.</p>								
22H: SHR[7...0]	<p>[The exposure time (CLK) of the electronic shutter] Initial Data: SHR[15...0] = 0, Data Range: 0 to 779 Sets the preset shutter speed for electronic shutter.</p>								
23H: SHR[15...8]	<p>Exposure time (shutter speed) = SVR[15..0] x (1H cycle) + SHR[15..0] x (1CLK cycle) The camera works with the shutter off (Frame exposure) when this value is set to 0 and the value of SVR[] is 0. The camera works with the minimum shutter speed when this value is set within 1 to 306 and the value of SVR[] is 0. Automatically adjusts to 779 when it is set greater than 779.</p>								
24H: PSR[7...0]	<p>[The start line of the variable partial scanning] Initial Data: PSR[15...0] = 0, Data Range: 0 to 493 This sets the start line number of the variable partial scanning.</p>								
25H: PSR[15...8]	<p>Actual start line of the partial scanning = this value + 1</p> <p>Notes: 1. The value replaces by 493 automatically when the value is set greater than 493. 2. The camera works with full scanning mode when the value of (PSR[] + PWR[]) is greater than 494.</p>								
26H: PWR[7...0]	<p>[The effective lines of the variable partial scanning] Initial Data: PWR[15...0] = 494, Data Range: 0 to 494 This sets the number of the effective lines (image height) in the variable partial scanning mode.</p>								
27H: PWR[15...8]	<p>Notes: 1. The value replaces by 494 automatically when the value is set greater than 494. 2. The camera works with full scanning mode when the value of (PSR[] + PWR[]) is greater than 494.</p>								
28H: DLY[7...0]	<p>[The delay time for the trigger] Initial Data: DLY[7...0] = 0, Data Range: 0 to 31 This sets the delay time from the trigger input signal to the start of the exposure.</p> <p>Delay time = 148CLK x DLY[7...0] (useconds) (CLK = pixel clock)</p>								
30H: PGA[7...0]	<p>[CDS gain value] Initial Data: PGA[7...0] = 0, Data Range: 0 to 255 This sets the CDS gain (programmable gain).</p> <p>CDS gain = 3.64 + 0.132 x (PGA[7..0] + GOFs[7..0]) (dB) *GOFs[7..0]: The gain offset (The value o the address 32H) *Automatically sets to 255 when PGA[7..0] + GOFs[7..0] is greater than 255.</p>								

Command No.	Command Description								
31H: DGB[7...0]	<p>[The Digital Gain] Initial Data: DGB[7...0] = The factory adjusted value (The value in the address 0EH)</p> <p>Video level = (Input Video Level – clamp level) x (1 + DGB[7...0] / 128) + clamp level</p>								
32H: GOF5[5...0]	<p>[The gain offset] Initial Data: GOF5[7..0] = The factory adjusted value (The value of the address 0FH), data range: 0 to 255</p>								
38H: CLAMP[7...0]	<p>[The clamp level] Initial Data: CLAMP[7...0] = 9, Data Range: 0 to 31 This sets the clamp level (The clamp level of the black signal)</p> <p>Clamp level = (CLAMP[7..0] x 2 + 14) / 4 (at 8bit output) Clamp level = CLAMP[7..0]x2+14 (at 10bit output)</p>								
80H: E2P[7..0]	<p>[EEPROM control] Initial data: E2P[7..0] = 0</p> <p>D[7...0]</p> <table border="1" style="margin-left: 20px;"> <tr> <td>D7</td><td>D6</td><td>D5</td><td>D4</td><td>D3</td><td>D2</td><td>D1</td><td>D0</td> </tr> </table> <p>D7~D2: No Function <u>Please set "000000"</u> D1: Register synchronous update with the EEPROM data <u>0: Prohibited</u> 1: Accept D0: Write control to the EEPROM <u>0: Prohibited</u> 1: Accept</p> <p>Note 1: This bit is cleared to "0" automatically by the internal process after the execution of the command. Note 2: By synchronizing to the EEPROM read/write access, the subject control register is also updated.</p>	D7	D6	D5	D4	D3	D2	D1	D0
D7	D6	D5	D4	D3	D2	D1	D0		
F0H: OUTSEL[7..0]	<p>[The signals of the power/IO connector] Initial data: OUTSEL[7..0] = The value of C0H</p> <p>D[7...0]</p> <table border="1" style="margin-left: 20px;"> <tr> <td>D7</td><td>D6</td><td>D5</td><td>D4</td><td>D3</td><td>D2</td><td>D1</td><td>D0</td> </tr> </table> <p>D7~D4: No Function <u>Please set "0000"</u> D3~D0: The signals of the power/IO connector selection Please refer "The signals of the power/IO connector" Initial data: 0000, data range: 0000 to 0111</p> <p>Note 1: Change the C0H address data of the register and save to the EEPROM when saving the signals of the power/IO connector to the EEPROM</p>	D7	D6	D5	D4	D3	D2	D1	D0
D7	D6	D5	D4	D3	D2	D1	D0		

3. Camera Control Commands (Camera Function Mode: Address 10H, 11H and 12H)

The following charts show the control command values based on operational functions of the camera. These charts can be used to find the proper settings based on the operational functions.

a. Normal (Free run) Mode (10bit)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values				
											10H	11H	12H		
10bit	Normal (Free run)	90fps	Off	Full scanning						Internal	80H	A8H	00H		
				External							28H				
				Internal						88H	A8H				
				External							28H				
				Internal							A9H				
				External							29H				
			Internal							AAH					
			External							2AH					
			Internal							AFH					
			External							2FH					
			Internal	90H						A8H					
			External							28H					
		Internal	98H	A8H											
		External		28H											
		Internal		A9H											
		External		29H											
		Internal		AAH											
		External		2AH											
		Internal		AFH											
		External		2FH											
		60fps	Off	Full scanning								Internal	80H	88H	
				External									08H		
				Internal								88H	88H		
				External									08H		
				Internal									89H		
				External									09H		
			Internal									8AH			
			External									0AH			
			Internal									8FH			
			External									0FH			
			Internal	90H								88H			
			External									08H			
		Internal	98H	88H											
		External		08H											
		Internal		89H											
		External		09H											
		Internal		8AH											
		External		0AH											
		Internal		8FH											
		External		0FH											
		30fps	Off	Full scanning								Internal	80H	C8H	
				External									48H		
				Internal								88H	C8H		
				External									48H		
				Internal									C9H		
				External									49H		
			Internal									CAH			
			External									4AH			
Internal			CFH												
External			4FH												
Internal	90H		C8H												
External			48H												
Internal	98H	C8H													
External		48H													
Internal		C9H													
External		49H													
Internal		CAH													
External		4AH													
Internal		CFH													
External		4FH													

b. Normal (Free run) Mode (8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
8bit	Normal (Free run)	90fps	Off	Full scanning						Internal	80H	A8H	40H			
										External		28H				
				Partial full scanning					Internal	88H	A8H					
									External		28H					
				1/2 partial scanning					Internal		A9H					
									External		29H					
			1/4 partial scanning					Internal		AAH						
								External		2AH						
			Variable partial scanning					Internal		AFH						
								External		2FH						
						On	Full scanning					Internal	90H	A8H		
												External		28H		
							Partial full scanning					Internal	98H	A8H		
												External		28H		
							1/2 partial scanning					Internal		A9H		
												External		29H		
						1/4 partial scanning					Internal		AAH			
											External		2AH			
						Variable partial scanning					Internal		AFH			
											External		2FH			
				60fps	Off	Full scanning						Internal	80H	88H		
													External		08H	
								Partial full scanning					Internal	88H	88H	
													External		08H	
								1/2 partial scanning					Internal		89H	
													External		09H	
							1/4 partial scanning					Internal		8AH		
												External		0AH		
							Variable partial scanning					Internal		8FH		
												External		0FH		
						On	Full scanning						Internal	90H	88H	
													External		08H	
							Partial full scanning					Internal	98H	88H		
												External		08H		
							1/2 partial scanning					Internal		89H		
												External		09H		
						1/4 partial scanning					Internal		8AH			
											External		0AH			
						Variable partial scanning					Internal		8FH			
											External		0FH			
				30fps	Off	Full scanning						Internal	80H	C8H		
													External		48H	
								Partial full scanning					Internal	88H	C8H	
													External		48H	
								1/2 partial scanning					Internal		C9H	
													External		49H	
							1/4 partial scanning					Internal		CAH		
												External		4AH		
					Variable partial scanning					Internal		CFH				
										External		4FH				
			On		Full scanning						Internal	90H	C8H			
											External		48H			
					Partial full scanning					Internal	98H	C8H				
										External		48H				
					1/2 partial scanning					Internal		C9H				
										External		49H				
				1/4 partial scanning					Internal		CAH					
									External		4AH					
				Variable partial scanning					Internal		CFH					
									External		4FH					

c. Trigger Mode (90fps, Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
10bit	Trigger	90fps	Off	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	80H	A0H	00H			
									External	20H						
									6pin Hirose	Internal	A0H	20H				
									External	20H						
									H reset	Camera Link	Internal	A0H	10H			
								External	20H							
								6pin Hirose	Internal	A0H	30H					
								External	20H							
								Negative	Normal	Camera Link	Internal	C0H	A0H	00H		
										External	20H					
							6pin Hirose			Internal	A0H	20H				
							External			20H						
							H reset			Camera Link	Internal	A0H	10H			
							External		20H							
							6pin Hirose		Internal	A0H	30H					
							External		20H							
							V-Reset		Positive	Normal	Camera Link	Internal	81H	A0H	00H	
											External	20H				
								6pin Hirose		Internal	A0H	20H				
								External		20H						
						H reset		Camera Link		Internal	A0H	10H				
						External		20H								
						6pin Hirose		Internal	A0H	30H						
						External		20H								
						Negative		Normal	Camera Link	Internal	C1H	A0H	00H			
									External	20H						
							6pin Hirose	Internal	A0H	20H						
							External	20H								
							H reset	Camera Link	Internal	A0H	10H					
						External	20H									
						6pin Hirose	Internal	A0H	30H							
						External	20H									
						Pulse width	Non-Reset	Positive	Normal	Camera Link	Internal	A0H	A0H	00H		
										External	20H					
										6pin Hirose	Internal	A0H	20H			
										External	20H					
										H reset	Camera Link	Internal	A0H	10H		
									External	20H						
									6pin Hirose	Internal	A0H	30H				
									External	20H						
									Negative	Normal	Camera Link	Internal	E0H	A0H	00H	
											External	20H				
								6pin Hirose			Internal	A0H	20H			
								External			20H					
								H reset			Camera Link	Internal	A0H	10H		
								External		20H						
								6pin Hirose		Internal	A0H	30H				
								External		20H						
								V-Reset		Positive	Normal	Camera Link	Internal	A1H	A0H	00H
												External	20H			
					6pin Hirose				Internal		A0H	20H				
					External				20H							
					H reset		Camera Link		Internal		A0H	10H				
					External		20H									
					6pin Hirose		Internal		A0H	30H						
					External		20H									
					Negative		Normal		Camera Link	Internal	E1H	A0H	00H			
									External	20H						
							6pin Hirose	Internal	A0H	20H						
							External	20H								
							H reset	Camera Link	Internal	A0H	10H					
					External		20H									
					6pin Hirose		Internal	A0H	30H							
					External		20H									

d. Trigger Mode (90fps, Partial Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values											
											10H	11H	12H									
10bit	Trigger	90fps	Off	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	A0H	00H									
									External	20H												
									6pin Hirose	Internal		A0H		20H								
									External	20H												
									H reset	Camera Link		Internal			A0H	10H						
								External	20H													
								6pin Hirose	Internal	A0H		30H										
								External	20H													
								Negative	Normal	Camera Link			Internal	C8H	A0H		00H					
								External		20H												
							6pin Hirose	Internal		A0H	20H											
							External	20H														
							H reset	Camera Link		Internal		A0H	10H									
							External	20H														
							6pin Hirose	Internal	A0H	30H												
							External	20H														
							V-Reset	Positive	Normal		Camera Link	Internal			89H	A0H	00H					
							External				20H											
							6pin Hirose				Internal	A0H	20H									
							External			20H												
						H reset	Camera Link			Internal	A0H	10H										
						External	20H															
						6pin Hirose	Internal		A0H	30H												
						External	20H															
						Negative	Normal		Camera Link		Internal		C9H	A0H		00H						
						External			20H													
						6pin Hirose		Internal	A0H		20H											
						External		20H														
						H reset		Camera Link	Internal	A0H		10H										
						External	20H															
						6pin Hirose	Internal	A0H	30H													
						External	20H															
						Pulse width									Non-Reset	Positive	Normal	Camera Link	Internal	A8H	A0H	00H
												External						20H				
												6pin Hirose	Internal					A0H	20H			
									External			20H										
									H reset			Camera Link	Internal					A0H			10H	
									External			20H										
									6pin Hirose			Internal	A0H				30H					
									External			20H										
									Negative			Normal	Camera Link					Internal	E8H			A0H
									External				20H									
									6pin Hirose				Internal			A0H		20H				
									External				20H									
									H reset				Camera Link			Internal	A0H			10H		
									External			20H										
									6pin Hirose			Internal	A0H			30H						
									External			20H										
									V-Reset			Positive	Normal				Camera Link	Internal			A9H	A0H
									External								20H					
					6pin Hirose				Internal								A0H	20H				
					External				20H													
					H reset				Camera Link						Internal	A0H	10H					
					External				20H													
					6pin Hirose				Internal				A0H		30H							
					External				20H													
					Negative				Normal				Camera Link			Internal		E9H	A0H	00H		
					External								20H									
					6pin Hirose							Internal	A0H			20H						
					External							20H										
					H reset							Camera Link	Internal		A0H		10H					
					External				20H													
					6pin Hirose				Internal			A0H	30H									
					External				20H													

e. Trigger Mode (90fps, 1/2 Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values			
											10H	11H	12H	
10bit	Trigger	90fps	Off	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	A1H	00H	
										External		21H		
									6pin Hirose	Internal	A1H	20H		
										External	21H			
									H reset	Camera Link	Internal	A1H	10H	
								External		21H				
								6pin Hirose		Internal	A1H	30H		
								External	21H					
								Negative	Normal	Camera Link	Internal	C8H	A1H	00H
											External		21H	
							6pin Hirose			Internal	A1H	20H		
										External	21H			
							H reset			Camera Link	Internal	A1H	10H	
									External	21H				
									6pin Hirose	Internal	A1H	30H		
							External		21H					
							V-Reset		Positive	Normal	Camera Link	89H	A1H	00H
													External	
								6pin Hirose			Internal	A1H	20H	
											External	21H		
								H reset			Camera Link	Internal	A1H	10H
										External	21H			
										6pin Hirose	Internal	A1H	30H	
								External		21H				
								Negative		Normal	Camera Link	C9H	A1H	00H
						External							21H	
						6pin Hirose			Internal		A1H	20H		
									External		21H			
						H reset			Camera Link		Internal	A1H	10H	
									External	21H				
									6pin Hirose	Internal	A1H	30H		
						External			21H					
						Pulse width			Non-Reset	Positive	Camera Link	A8H	A1H	00H
													External	
								6pin Hirose			Internal	A1H	20H	
											External	21H		
								H reset			Camera Link	Internal	A1H	10H
										External	21H			
										6pin Hirose	Internal	A1H	30H	
								External		21H				
								Negative		Normal	Camera Link	E8H	A1H	00H
							External						21H	
							6pin Hirose		Internal		A1H	20H		
									External		21H			
							H reset		Camera Link		Internal	A1H	10H	
									External	21H				
									6pin Hirose	Internal	A1H	30H		
							External		21H					
							V-Reset		Positive	Camera Link	A9H	A1H	00H	
												External		21H
					6pin Hirose			Internal		A1H	20H			
								External		21H				
					H reset			Camera Link		Internal	A1H	10H		
								External	21H					
								6pin Hirose	Internal	A1H	30H			
					External			21H						
					Negative			Normal	Camera Link	E9H	A1H	00H		
						External					21H			
						6pin Hirose	Internal	A1H	20H					
							External	21H						
						H reset	Camera Link	Internal	A1H	10H				
					External		21H							
					6pin Hirose		Internal	A1H	30H					
					External	21H								

f. Trigger Mode (90fps, ¼ Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
10bit	Trigger	90fps	Off	1/4 partial scannign	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	A2H	00H			
									External	22H						
									6pin Hirose	Internal		A2H		20H		
									External	22H						
									H reset	Camera Link		Internal			A2H	
								External	22H							
								6pin Hirose	Internal	A2H	30H					
								External	22H							
								Negative	Normal	Camera Link		Internal	C8H	A2H	00H	
								External		22H						
							6pin Hirose	Internal		A2H						
							External	22H								
							H reset	Camera Link		Internal	A2H					
							External	22H								
							6pin Hirose	Internal	A2H	30H						
							External	22H								
							V-Reset	Positive	Normal		Camera Link	Internal	89H	A2H	00H	
							External				22H					
							6pin Hirose				Internal	A2H				
							External			22H						
							H reset			Camera Link	Internal	A2H				
							External		22H							
							6pin Hirose		Internal	A2H	30H					
							External		22H							
							Negative		Normal	Camera Link		Internal	C9H	A2H	00H	
						External	22H									
						6pin Hirose	Internal	A2H								
						External	22H									
						H reset	Camera Link	Internal		A2H						
						External	22H									
						6pin Hirose	Internal	A2H	30H							
						External	22H									
						Pulse width	Non-Reset	Positive		Normal	Camera Link	Internal	A8H	A2H	00H	
											External	22H				
											6pin Hirose	Internal		A2H		
									External		22H					
									H reset		Camera Link	Internal		A2H		
									External	22H						
									6pin Hirose	Internal	A2H	30H				
									External	22H						
									Negative	Normal	Camera Link		Internal	E8H	A2H	00H
									External		22H					
								6pin Hirose	Internal		A2H					
								External	22H							
								H reset	Camera Link		Internal	A2H				
								External	22H							
								6pin Hirose	Internal	A2H	30H					
								External	22H							
								V-Reset	Positive	Normal		Camera Link	Internal	A9H	A2H	00H
								External				22H				
					6pin Hirose			Internal				A2H				
					External			22H								
					H reset			Camera Link			Internal	A2H				
					External			22H								
					6pin Hirose			Internal		A2H	30H					
					External			22H								
					Negative			Normal		Camera Link		C	E9H	A2H	00H	
					External		22H									
					6pin Hirose		Internal		A2H							
					External		22H									
					H reset		Camera Link		Internal	A2H						
					External		22H									
					6pin Hirose		Internal	A2H	30H							
					External		22H									

g. Trigger Mode (90fps, Variable Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values						
											10H	11H	12H				
10bit	Trigger	90fps	Off	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	A7H	00H				
										External		27H					
									6pin Hirose	Internal	A7H	20H					
										External	27H						
									H reset	Camera Link	Internal	A7H	10H				
								External			27H						
								6pin Hirose		Internal	A7H	30H					
								External	27H								
								Negative	Normal	Camera Link	Internal	C8H	A7H	00H			
											External		27H				
							6pin Hirose			Internal	A7H	20H					
										External	27H						
							H reset			Camera Link	Internal	A7H	10H				
									External		27H						
									6pin Hirose	Internal	A7H	30H					
							External		27H								
							V-Reset		Positive	Normal	Camera Link	Internal	89H	A7H	00H		
												External		27H			
								6pin Hirose			Internal	A7H	20H				
											External	27H					
								H reset			Camera Link	Internal	A7H	10H			
										External		27H					
										6pin Hirose	Internal	A7H	30H				
								External		27H							
								Negative		Normal	Camera Link	Internal	C9H	A7H	00H		
						External						27H					
						6pin Hirose			Internal		A7H	20H					
									External		27H						
						H reset			Camera Link		Internal	A7H	10H				
										External	27H						
									6pin Hirose	Internal	A7H	30H					
						External			27H								
						Pulse width			Non-Reset	Positive	Normal	Camera Link	Internal	A8H	A7H	00H	
													External		27H		
												6pin Hirose	Internal	A7H	20H		
													External	27H			
												H reset	Camera Link	Internal	A7H	10H	
														External	27H		
													6pin Hirose	Internal	A7H	30H	
								External				27H					
								Negative				Normal	Camera Link	Internal	E8H	A7H	00H
							External							27H			
							6pin Hirose				Internal		A7H	20H			
											External		27H				
							H reset				Camera Link		Internal	A7H	10H		
												External	27H				
											6pin Hirose	Internal	A7H	30H			
							External				27H						
							V-Reset				Positive	Normal	Camera Link	Internal	A9H	A7H	00H
														External		27H	
					6pin Hirose								Internal	A7H	20H		
													External	27H			
					H reset								Camera Link	Internal	A7H	10H	
												External		27H			
												6pin Hirose	Internal	A7H	30H		
					External			27H									
					Negative			Normal				Camera Link	Internal	E9H	A7H	00H	
										External			27H				
										6pin Hirose	Internal	A7H	20H				
											External	27H					
										H reset	Camera Link	Internal	A7H	10H			
								External				27H					
								6pin Hirose			Internal	A7H	30H				
								External		27H							

h. Trigger Mode (90fps, Binning Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values				
											10H	11H	12H		
10bit	Trigger	90fps	On	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	90H	A0H	00H		
										External		20H			
									6pin Hirose	Internal	A0H	20H			
										External	20H				
										External	20H				
								H reset	Camera Link	Internal	A0H	10H			
										External	20H				
									6pin Hirose	Internal	A0H	30H			
										External	20H				
										External	20H				
							Negative	Normal	Camera Link	Internal	D0H	A0H	00H		
										External		20H			
									6pin Hirose	Internal	A0H	20H			
										External	20H				
										External	20H				
								H reset	Camera Link	Internal	A0H	10H			
										External	20H				
									6pin Hirose	Internal	A0H	30H			
										External	20H				
										External	20H				
							V-Reset	Positive	Normal	Camera Link	Internal	91H	A0H	00H	
											External		20H		
										6pin Hirose	Internal	A0H	20H		
											External	20H			
											External	20H			
						H reset			Camera Link	Internal	A0H	10H			
										External	20H				
									6pin Hirose	Internal	A0H	30H			
										External	20H				
										External	20H				
						Negative		Normal	Camera Link	Internal	D1H	A0H	00H		
										External		20H			
									6pin Hirose	Internal	A0H	20H			
										External	20H				
										External	20H				
								H reset	Camera Link	Internal	A0H	10H			
										External	20H				
									6pin Hirose	Internal	A0H	30H			
										External	20H				
										External	20H				
						Pulse width		Non-Reset	Positive	Normal	Camera Link	Internal	B0H	A0H	00H
												External		20H	
											6pin Hirose	Internal	A0H	20H	
												External	20H		
												External	20H		
							H reset			Camera Link	Internal	A0H	10H		
											External	20H			
										6pin Hirose	Internal	A0H	30H		
											External	20H			
											External	20H			
					Negative		Normal		Camera Link	Internal	F0H	A0H	00H		
										External		20H			
									6pin Hirose	Internal	A0H	20H			
										External	20H				
										External	20H				
							H reset		Camera Link	Internal	A0H	10H			
										External	20H				
									6pin Hirose	Internal	A0H	30H			
										External	20H				
										External	20H				
					V-Reset		Positive		Normal	Camera Link	Internal	B1H	A0H	00H	
											External		20H		
										6pin Hirose	Internal	A0H	20H		
											External	20H			
											External	20H			
								H reset	Camera Link	Internal	A0H	10H			
										External	20H				
									6pin Hirose	Internal	A0H	30H			
										External	20H				
										External	20H				
							Negative	Normal	Camera Link	Internal	F1H	A0H	00H		
										External		20H			
									6pin Hirose	Internal	A0H	20H			
										External	20H				
										External	20H				
								H reset	Camera Link	Internal	A0H	10H			
										External	20H				
									6pin Hirose	Internal	A0H	30H			
										External	20H				
										External	20H				

i. Trigger Mode (90fps, Binning Partial Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Tigger signal input connector	Sync system	Values								
											10H	11H	12H						
10bit	Trigger	90fps	On	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	A0H	00H						
										External		20H							
										6pin Hirose		Internal	A0H	20H					
									External			20H							
									H reset			Internal	A0H	10H					
										External		20H							
								Internal		A0H	30H								
								External	20H										
								Negative	Normal	Camera Link	Internal	D8H	A0H	00H					
											External		20H						
											6pin Hirose		Internal	A0H	20H				
										External			20H						
							H reset			Internal			A0H	10H					
										External	20H								
									Internal	A0H	30H								
							External		20H										
							V-Reset		Positive	Camera Link	Internal	99H	A0H	00H					
											External		20H						
											6pin Hirose		Internal	A0H	20H				
										External			20H						
								H reset		Internal			A0H	10H					
										External	20H								
									Internal	A0H	30H								
								External	20H										
						Negative		Normal	Camera Link	Internal	D9H	A0H	00H						
										External		20H							
										6pin Hirose		Internal	A0H	20H					
								External	20H										
							H reset	Internal	A0H			10H							
								External	20H										
						Internal		A0H	30H										
						External	20H												
						Pulse widthe	Non-Reset					Positive	Normal	Camera Link	Internal	B8H	A0H	00H	
															External		20H		
															6pin Hirose		Internal	A0H	20H
														External			20H		
														H reset			Internal	A0H	10H
															External		20H		
													Internal		A0H	30H			
													External	20H					
													Negative	Normal	Camera Link	Internal	F8H	A0H	00H
																External		20H	
																6pin Hirose		Internal	A0H
														External	20H				
												H reset		Internal	A0H			10H	
														External	20H				
													Internal	A0H	30H				
												External	20H						
V-Reset	Positive	Camera Link	Internal	B9H	A0H							00H							
			External		20H														
			6pin Hirose		Internal							A0H	20H						
		External			20H														
		H reset			Internal							A0H	10H						
			External		20H														
	Internal		A0H	30H															
	External	20H																	
	Negative	Normal	Camera Link	Internal	F9H	A0H	00H												
				External		20H													
				6pin Hirose		Internal	A0H	20H											
		External	20H																
H reset		Internal	A0H			10H													
		External	20H																
	Internal	A0H	30H																
External	20H																		

j. Trigger Mode (90fps, Binning ½ Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values		
											10H	11H	12H
10bit	Trigger	90fps	On	1/2 partial scanning	Edge preset	Non-Rset	Positive	Normal	Camera Link	Internal	98H	A1H	00H
										External		21H	
									6pin Hirose	Internal		A1H	20H
								External		21H			
								H reset	Camera Link	Internal		A1H	10H
										External		21H	
							6pin Hirose		Internal	A1H	30H		
								External	21H				
							Negative	Normal	Camera Link	Internal	D8H	A1H	00H
										External		21H	
									6pin Hirose	Internal		A1H	20H
								External		21H			
						H reset		Camera Link	Internal	A1H		10H	
									External	21H			
							6pin Hirose	Internal	A1H	30H			
						External		21H					
						V-Reset	Positive	Normal	Camera Link	99H	A1H	00H	
											External		21H
									6pin Hirose		Internal	A1H	20H
								External			21H		
								H reset	Camera Link		Internal	A1H	10H
											External	21H	
							6pin Hirose		Internal	A1H	30H		
								External	21H				
					Negative		Normal	Camera Link	Internal	D9H	A1H	00H	
									External		21H		
								6pin Hirose	Internal		A1H	20H	
							External		21H				
						H reset	Camera Link	Internal	A1H		10H		
								External	21H				
					6pin Hirose		Internal	A1H	30H				
						External	21H						
					Pulse width	Non-Rset	Positive	Normal	B8H	A1H	00H		
										External		21H	
										6pin Hirose	Internal	A1H	20H
								External			21H		
								H reset		Camera Link	Internal	A1H	10H
											External	21H	
							6pin Hirose		Internal	A1H	30H		
								External	21H				
							Negative	Normal	Camera Link	Internal	F8H	A1H	00H
										External		21H	
									6pin Hirose	Internal		A1H	20H
								External		21H			
						H reset		Camera Link	Internal	A1H		10H	
									External	21H			
							6pin Hirose	Internal	A1H	30H			
						External		21H					
V-Reset	Positive	Normal	B9H	A1H		00H							
				External			21H						
				6pin Hirose		Internal	A1H	20H					
		External				21H							
		H reset		Camera Link		Internal	A1H	10H					
						External	21H						
	6pin Hirose		Internal	A1H		30H							
		External	21H										
	Negative	Normal	Camera Link	Internal	F9H	A1H	00H						
				External		21H							
			6pin Hirose	Internal		A1H	20H						
		External		21H									
H reset		Camera Link	Internal	A1H		10H							
			External	21H									
	6pin Hirose	Internal	A1H	30H									
External		21H											

k. Trigger Mode (90fps, Binning ¼ Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values				
											10H	11H	12H		
10bit	Trigger	90fps	On	1/4 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	A2H	00H		
									External	22H					
									6pin Hirose	Internal		A2H	20H		
									External	22H					
									H reset	Internal		A2H	10H		
								External	22H						
								6pin Hirose	Internal	A2H	30H				
								External	22H						
								Negative	Normal	Camera Link	Internal	D8H	A2H	00H	
										External	22H				
							6pin Hirose			Internal	A2H		20H		
							External			22H					
							H reset			Internal	A2H		10H		
							External		22H						
							6pin Hirose		Internal	A2H	30H				
							External		22H						
							V-Reset		Positive	Camera Link	Internal	99H	A2H	00H	
										External	22H				
								6pin Hirose		Internal	A2H		20H		
								External		22H					
								H reset		Internal	A2H		10H		
								External	22H						
								6pin Hirose	Internal	A2H	30H				
								External	22H						
								Negative	Normal	Camera Link	Internal	D9H	A2H	00H	
						External				22H					
						6pin Hirose	Internal			A2H	20H				
						External	22H								
						H reset	Internal			A2H	10H				
						External	22H								
						6pin Hirose	Internal		A2H	30H					
						External	22H								
						Pulse width	Non-Reset		Positive	Normal	Camera Link	Internal	B8H	A2H	00H
											External	22H			
								6pin Hirose			Internal	A2H		20H	
								External			22H				
								H reset			Internal	A2H		10H	
								External		22H					
								6pin Hirose		Internal	A2H	30H			
								External		22H					
								Negative		Normal	Camera Link	Internal	F8H	A2H	00H
											External	22H			
									6pin Hirose		Internal	A2H		20H	
									External		22H				
									H reset		Internal	A2H		10H	
									External	22H					
									6pin Hirose	Internal	A2H	30H			
									External	22H					
									V-Reset	Positive	Camera Link	Internal	B9H	A2H	00H
											External	22H			
					6pin Hirose			Internal			A2H	20H			
					External			22H							
					H reset			Internal			A2H	10H			
					External			22H							
					6pin Hirose			Internal		A2H	30H				
					External			22H							
					Negative			Normal		Camera Link	Internal	F9H	A2H	00H	
							External			22H					
							6pin Hirose		Internal	A2H	20H				
							External		22H						
							H reset		Internal	A2H	10H				
							External	22H							
							6pin Hirose	Internal	A2H	30H					
							External	22H							

I. Trigger Mode (90fps, Binning Variable Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
10bit	Trigger	90fps	On	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	A7H	00H			
									External	27H						
									6pin Hirose	Internal		A7H	20H			
									External	27H						
									H reset	Camera Link		Internal	A7H	10H		
								External	27H							
								6pin Hirose	Internal	A7H		30H				
								External	27H							
								Negative	Normal	Camera Link		Internal	D8H	A7H	00H	
										External		27H				
							6pin Hirose			Internal	A7H	20H				
							External			27H						
							H reset			Camera Link	Internal	A7H		10H		
							External		27H							
							6pin Hirose		Internal	A7H	30H					
							External		27H							
							V-Reset		Positive	Camera Link	Internal	99H		A7H	00H	
										External	27H					
								6pin Hirose		Internal	A7H		20H			
								External		27H						
						H reset		Camera Link		Internal	A7H		10H			
						External		27H								
						6pin Hirose		Internal	A7H	30H						
						External		27H								
						Negative		Normal	Camera Link	Internal	D9H		A7H	00H		
									External	27H						
							6pin Hirose		Internal	A7H		20H				
							External		27H							
							H reset		Camera Link	Internal		A7H	10H			
							External	27H								
							6pin Hirose	Internal	A7H	30H						
							External	27H								
							Pulse width	Non-Reset	Positive	Normal		Camera Link	Internal	B8H	A7H	00H
												External	27H			
						6pin Hirose					Internal	A7H	20H			
						External					27H					
						H reset					Camera Link	Internal	A7H		10H	
						External				27H						
						6pin Hirose				Internal	A7H	30H				
						External				27H						
						Negative				Normal	Camera Link	Internal	F8H		A7H	00H
											External	27H				
									6pin Hirose		Internal	A7H		20H		
									External		27H					
									H reset		Camera Link	Internal		A7H	10H	
									External	27H						
									6pin Hirose	Internal	A7H	30H				
									External	27H						
									V-Reset	Positive	Camera Link	Internal		B9H	A7H	00H
											External	27H				
					6pin Hirose	Internal					A7H	20H				
					External	27H										
					H reset	Camera Link		Internal			A7H	10H				
					External	27H										
					6pin Hirose	Internal		A7H		30H						
					External	27H										
					Negative	Normal		Camera Link		Internal	F9H	A7H	00H			
								External		27H						
								6pin Hirose	Internal	A7H		20H				
								External	27H							
								H reset	Camera Link	Internal		A7H	10H			
						External		27H								
						6pin Hirose		Internal	A7H	30H						
						External		27H								

m. Trigger Mode (60fps, Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values											
											10H	11H	12H									
10bit	Trigger	60fps	Off	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	80H	80H	00H									
										External		00H										
									6pin Hirose	Internal		80H	20H									
										External		00H										
									H reset	Camera Link		Internal	80H	10H								
									External	00H												
								6pin Hirose	Internal	80H		30H										
									External	00H												
								Negative	Normal	Camera Link		Internal	C0H	80H	00H							
												External		00H								
							6pin Hirose			Internal	80H	20H										
										External	00H											
							H reset			Camera Link	Internal	80H		10H								
									External	00H												
							6pin Hirose		Internal	80H	30H											
									External	00H												
							V-Reset		Positive	Normal	Camera Link	Internal		81H	80H	00H						
												External			00H							
								6pin Hirose			Internal	80H	20H									
											External	00H										
						H reset		Camera Link			Internal	80H	10H									
								External	00H													
						6pin Hirose		Internal	80H	30H												
								External	00H													
						Negative		Normal	Camera Link	Internal	C1H	80H	00H									
										External		00H										
							6pin Hirose		Internal	80H		20H										
									External	00H												
							H reset		Camera Link	Internal		80H	10H									
							External	00H														
						6pin Hirose	Internal	80H	30H													
							External	00H														
						Pulse width	Trigger	60fps	Off	Full scanning		Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	A0H	80H	00H		
																	External		00H			
											6pin Hirose					Internal	80H		20H			
																External	00H					
											H reset					Camera Link	Internal		80H	10H		
															External	00H						
											6pin Hirose				Internal	80H	30H					
															External	00H						
											Negative				Normal	Camera Link	Internal		E0H	80H	00H	
																	External			00H		
														6pin Hirose		Internal	80H	20H				
																External	00H					
														H reset		Camera Link	Internal	80H		10H		
															External	00H						
														6pin Hirose	Internal	80H	30H					
															External	00H						
														V-Reset	Positive	Normal	Camera Link	Internal		A1H	80H	00H
																		External			00H	
					6pin Hirose						Internal						80H	20H				
											External						00H					
					H reset						Camera Link		Internal				80H	10H				
											External		00H									
					6pin Hirose						Internal		80H		30H							
											External		00H									
					Negative						Normal		Camera Link		Internal	E1H	80H	00H				
															External		00H					
													6pin Hirose	Internal	80H		20H					
														External	00H							
													H reset	Camera Link	Internal		80H	10H				
											External		00H									
					6pin Hirose						Internal		80H	30H								
											External		00H									

n. Trigger Mode (60fps, Partial Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values						
											10H	11H	12H				
10bit	Trigger	60fps	Off	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	80H	00H				
										External		00H					
									6pin Hirose	Internal		80H	20H				
										External		00H					
									H reset	Internal		80H	10H				
									External	00H							
								6pin Hirose	Internal	80H	30H						
									External	00H							
								Negative	Normal	Camera Link	Internal	C8H	80H	00H			
											External		00H				
							6pin Hirose			Internal	80H		20H				
										External	00H						
							H reset			Internal	80H		10H				
									External	00H							
							6pin Hirose		Internal	80H	30H						
									External	00H							
							V-Reset		Positive	Normal	Camera Link		Internal	89H	80H	00H	
													External		00H		
								6pin Hirose			Internal	80H	20H				
											External	00H					
								H reset			Internal	80H	10H				
									External	00H							
								6pin Hirose	Internal	80H	30H						
									External	00H							
								Negative	Normal	Normal	Camera Link	Internal	C9H		80H	00H	
											External	00H					
						6pin Hirose	Internal				80H	20H					
							External				00H						
						H reset	Internal				80H	10H					
							External		00H								
						6pin Hirose	Internal		80H	30H							
							External		00H								
						Pulse width	Non-Reset		Positive	Normal	Camera Link	Internal		A8H	80H	00H	
												External			00H		
								6pin Hirose			Internal	80H	20H				
											External	00H					
								H reset			Internal	80H	10H				
										External	00H						
								6pin Hirose		Internal	80H	30H					
										External	00H						
								Negative		Normal	Normal	Camera Link	Internal		E8H	80H	00H
													External			00H	
									6pin Hirose			Internal	80H	20H			
												External	00H				
									H reset			Internal	80H	10H			
										External	00H						
									6pin Hirose	Internal	80H	30H					
										External	00H						
									V-Reset	Positive	Normal	Camera Link	Internal	A9H		80H	00H
													External			00H	
					6pin Hirose			Internal				80H	20H				
								External				00H					
					H reset			Internal				80H	10H				
								External			00H						
					6pin Hirose			Internal			80H	30H					
								External			00H						
					Negative			Normal			Normal	Camera Link	Internal		E9H	80H	00H
												External	00H				
							6pin Hirose			Internal		80H	20H				
										External		00H					
							H reset			Internal		80H	10H				
							External	00H									
					6pin Hirose		Internal	80H		30H							
							External	00H									

o. Trigger Mode (60fps, 1/2 Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values										
											10H	11H	12H								
10bit	Trigger	60fps	Off	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	81H	00H								
										External		01H									
									6pin Hirose	Internal		81H	20H								
										External		01H									
									H reset	Camera Link		Internal	81H	10H							
								6pin Hirose		External		01H									
										Internal		81H	30H								
								External	01H												
								Negative	Normal	Camera Link		Internal	C8H	81H	00H						
												External		01H							
							6pin Hirose			Internal	81H	20H									
										External	01H										
							H reset			Camera Link	Internal	81H		10H							
									6pin Hirose	External	01H										
										Internal	81H	30H									
							External		01H												
							V-Reset		Positive	Normal	Camera Link	89H		81H	00H						
														External		01H					
								6pin Hirose			Internal		81H	20H							
											External		01H								
						H reset		Camera Link			Internal		81H	10H							
								6pin Hirose		External	01H										
										Internal	81H		30H								
						External		01H													
						Negative		Normal		Camera Link	Internal		C9H	81H	00H						
											External			01H							
									6pin Hirose	Internal	81H	20H									
										External	01H										
									H reset	Camera Link	Internal	81H		10H							
								6pin Hirose		External	01H										
										Internal	81H	30H									
								External	01H												
								Pulse width						Non-Reset	Positive	Normal	Camera Link	Internal	A8H	81H	00H
																		External		01H	
						6pin Hirose							Internal				81H	20H			
													External				01H				
						H reset	Camera Link						Internal				81H	10H			
							6pin Hirose						External			01H					
													Internal			81H	30H				
						External	01H														
						Negative	Normal						Camera Link			Internal	E8H	81H		00H	
																External		01H			
													6pin Hirose		Internal	81H		20H			
															External	01H					
													H reset		Camera Link	Internal		81H	10H		
							6pin Hirose								External	01H					
															Internal	81H		30H			
							External						01H								
							V-Reset						Positive		Normal	Camera Link		A9H	81H	00H	
																			External		01H
					6pin Hirose	Internal										81H	20H				
						External										01H					
					H reset	Camera Link										Internal	81H		10H		
						6pin Hirose									External	01H					
															Internal	81H	30H				
					External	01H															
					Negative	Normal									Camera Link	Internal	E9H		81H	00H	
														External		01H					
													6pin Hirose	Internal	81H	20H					
														External	01H						
													H reset	Camera Link	Internal	81H		10H			
						6pin Hirose								External	01H						
														Internal	81H	30H					
						External							01H								

p. Trigger Mode (60fps, ¼ Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values						
											10H	11H	12H				
10bit	Trigger	60fps	Off	1/4 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	82H	00H				
										External		02H					
									6pin Hirose	Internal	82H	20H					
										External	02H						
									H reset	Camera Link	Internal	82H	10H				
								6pin Hirose		Internal	82H	30H					
										External	02H						
								Negative	Normal	Camera Link	Internal	C8H	82H	00H			
											External		02H				
										6pin Hirose	Internal	82H	20H				
							External				02H						
							H reset			Camera Link	Internal	82H	10H				
									6pin Hirose	Internal	82H	30H					
										External	02H						
							V-Reset		Positive	Normal	Camera Link	89H	82H	00H			
													External	02H			
											6pin Hirose	Internal	82H	20H			
								External				02H					
								H reset			Camera Link	Internal	82H	10H			
										6pin Hirose	Internal	82H	30H				
											External	02H					
								Negative		Normal	Camera Link	C9H	82H	00H			
													External	02H			
											6pin Hirose	Internal	82H	20H			
									External			02H					
						H reset			Camera Link		Internal	82H	10H				
									6pin Hirose	Internal	82H	30H					
										External	02H						
						Pulse width			Non-Reset	Positive	Camera Link	A8H	82H	00H			
													External	02H			
											6pin Hirose	Internal	82H	20H			
								External				02H					
								H reset			Camera Link	Internal	82H	10H			
										6pin Hirose	Internal	82H	30H				
											External	02H					
								Negative		Normal	Camera Link	E8H	82H	00H			
													External	02H			
										6pin Hirose	Internal	82H	20H				
									External		02H						
							H reset		Camera Link	Internal	82H	10H					
								6pin Hirose	Internal	82H	30H						
									External	02H							
							V-Reset	Positive	Normal	Camera Link	A9H	82H	00H				
						External						02H					
						6pin Hirose			Internal	82H	20H						
								External	02H								
						H reset		Camera Link	Internal	82H	10H						
							6pin Hirose	Internal	82H	30H							
						Negative	Normal	Camera Link	E9H	82H	00H						
										External	02H						
					6pin Hirose		Internal	82H	20H								
							External	02H									
					H reset		Camera Link	Internal	82H	10H							
						6pin Hirose	Internal	82H	30H								
																02H	

q. Trigger Mode (60fps, Variable Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values								
											10H	11H	12H						
10bit	Trigger	60fps	Off	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	87H	00H						
										External		07H							
									6pin Hirose	Internal		87H		20H					
										External		07H							
									H reset	Camera Link		Internal		87H	10H				
										External		07H							
								6pin Hirose	Internal	87H	30H								
									External	07H									
								Negative	Normal	Camera Link	Internal	C8H	87H	00H					
											External		07H						
										6pin Hirose	Internal		87H		20H				
											External		07H						
							H reset			Camera Link	Internal		87H		10H				
										External	07H								
							6pin Hirose		Internal	87H	30H								
									External	07H									
							V-Reset		Positive	Camera Link	Internal	89H	87H	00H					
											External		07H						
										6pin Hirose	Internal		87H		20H				
											External		07H						
								H reset		Camera Link	Internal		87H		10H				
										External	07H								
								6pin Hirose	Internal	87H	30H								
									External	07H									
						Negative		Normal	Camera Link	Internal	C9H	87H	00H						
										External		07H							
									6pin Hirose	Internal		87H		20H					
								External		07H									
							H reset	Camera Link	Internal	87H		10H							
								External	07H										
						6pin Hirose		Internal	87H	30H									
						External	07H												
						Pulse width						Non-Reset	Positive	Normal	Camera Link	Internal	A8H	87H	00H
										External						07H			
										6pin Hirose				Internal	87H	20H			
														External	07H				
										H reset				Camera Link	Internal	87H		10H	
														External	07H				
										6pin Hirose			Internal	87H	30H				
													External	07H					
										Negative			Normal	Camera Link	Internal	E8H	87H	00H	
															External		07H		
														6pin Hirose	Internal		87H		20H
													External		07H				
												H reset	Camera Link	Internal	87H		10H		
													External	07H					
										6pin Hirose			Internal	87H	30H				
										External		07H							
V-Reset	Positive	Camera Link	Internal	A9H	87H					00H									
			External		07H														
		6pin Hirose	Internal		87H							20H							
			External		07H														
		H reset	Camera Link		Internal							87H	10H						
			External		07H														
	6pin Hirose	Internal	87H	30H															
		External	07H																
	Negative	Normal	Camera Link	Internal	E9H	87H	00H												
				External		07H													
			6pin Hirose	Internal		87H		20H											
		External		07H															
H reset		Camera Link	Internal	87H		10H													
		External	07H																
	6pin Hirose	Internal	87H	30H															
External	07H																		

r. Trigger Mode (60fps, Binning Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
10bit	Trigger	60fps	On	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	90H	80H	00H			
										External		00H				
									6pin Hirose	Internal		80H	20H			
										External		00H				
									H reset	Internal		80H	10H			
									External	00H						
								6pin Hirose	Internal	80H	30H					
									External	00H						
								Negative	Normal	Camera Link	Internal	D0H	80H	00H		
											External		00H			
							6pin Hirose			Internal	80H		20H			
										External	00H					
							H reset			Internal	80H		10H			
									External	00H						
							6pin Hirose		Internal	80H	30H					
									External	00H						
							V-Reset		Positive	Normal	Camera Link	Internal	91H	80H	00H	
												External		00H		
								6pin Hirose			Internal	80H		20H		
											External	00H				
								H reset			Internal	80H		10H		
									External	00H						
								6pin Hirose	Internal	80H	30H					
									External	00H						
								Negative	Normal	Normal	Camera Link	Internal	D1H	80H	00H	
											External	00H				
						6pin Hirose	Internal				80H	20H				
							External				00H					
						H reset	Internal				80H	10H				
							External		00H							
						6pin Hirose	Internal		80H	30H						
							External		00H							
						Pulse width	Non-Reset		Positive	Normal	Camera Link	Internal	B0H	80H	00H	
												External		00H		
								6pin Hirose			Internal	80H		20H		
											External	00H				
								H reset			Internal	80H		10H		
										External	00H					
								6pin Hirose		Internal	80H	30H				
										External	00H					
								Negative		Normal	Normal	Camera Link	Internal	F0H	80H	00H
													External		00H	
									6pin Hirose			Internal	80H		20H	
												External	00H			
									H reset			Internal	80H		10H	
										External	00H					
									6pin Hirose	Internal	80H	30H				
										External	00H					
									V-Reset	Positive	Normal	Camera Link	Internal	B1H	80H	00H
													External		00H	
					6pin Hirose			Internal				80H	20H			
								External				00H				
					H reset			Internal				80H	10H			
								External			00H					
					6pin Hirose			Internal			80H	30H				
								External			00H					
					Negative			Normal			Normal	Camera Link	Internal	F1H	80H	00H
												External	00H			
							6pin Hirose			Internal		80H	20H			
										External		00H				
							H reset			Internal		80H	10H			
							External	00H								
					6pin Hirose		Internal	80H		30H						
							External	00H								

s. Trigger Mode (60fps, Binning Partial Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values						
											10H	11H	12H				
10bit	Trigger	60fps	On	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	80H	00H				
									External	00H							
									6pin Hirose	Internal		80H	20H				
								External	00H								
								H reset	Camera Link	Internal		80H	10H				
								External	00H								
							6pin Hirose	Internal	80H	30H							
							External	00H									
							Negative	Normal	Camera Link	Internal	D8H	80H	00H				
									External	00H							
									6pin Hirose	Internal		80H	20H				
								External	00H								
						H reset		Camera Link	Internal	80H		10H					
						External		00H									
						6pin Hirose	Internal	80H	30H								
						External	00H										
						V-Reset	Positive	Normal	Camera Link	Internal	99H	80H	00H				
									External	00H							
									6pin Hirose	Internal		80H	20H				
								External	00H								
								H reset	Camera Link	Internal		80H	10H				
								External	00H								
							6pin Hirose	Internal	80H	30H							
							External	00H									
					Negative		Normal	Camera Link	Internal	D9H	80H	00H					
								External	00H								
								6pin Hirose	Internal		80H	20H					
							External	00H									
						H reset	Camera Link	Internal	80H		10H						
						External	00H										
					6pin Hirose	Internal	80H	30H									
					External	00H											
					Pulse width					Non-Reset	Positive	Normal	Camera Link	Internal	B8H	80H	00H
													External	00H			
													6pin Hirose	Internal		80H	20H
												External	00H				
												H reset	Camera Link	Internal		80H	10H
												External	00H				
											6pin Hirose	Internal	80H	30H			
											External	00H					
											Negative	Normal	Camera Link	Internal	F8H	80H	00H
													External	00H			
													6pin Hirose	Internal		80H	20H
												External	00H				
										H reset		Camera Link	Internal	80H		10H	
										External		00H					
										6pin Hirose	Internal	80H	30H				
										External	00H						
V-Reset	Positive	Normal	Camera Link	Internal						B9H	80H	00H					
			External	00H													
			6pin Hirose	Internal							80H	20H					
		External	00H														
		H reset	Camera Link	Internal							80H	10H					
		External	00H														
	6pin Hirose	Internal	80H	30H													
	External	00H															
	Negative	Normal	Camera Link	Internal	F9H	80H	00H										
			External	00H													
			6pin Hirose	Internal		80H	20H										
		External	00H														
H reset		Camera Link	Internal	80H		10H											
External		00H															
6pin Hirose	Internal	80H	30H														
External	00H																

t. Trigger Mode (60 fps, Binning ½ Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values									
											10H	11H	12H							
10bit	Trigger	60fps	On	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	81H	00H							
									External	01H										
									6pin Hirose	Internal		81H		20H						
									External	01H										
									H reset	Camera Link		Internal			81H	10H				
								External	01H											
								6pin Hirose	Internal	81H	30H									
								External	01H											
								Negative	Normal	Camera Link		Internal	D8H	81H	00H					
								External		01H										
							6pin Hirose	Internal		81H		20H								
							External	01H												
							H reset	Camera Link		Internal	81H			10H						
							External	01H												
							6pin Hirose	Internal	81H	30H										
							External	01H												
							V-Reset	Positive	Normal		Camera Link	Internal	99H		81H	00H				
							External				01H									
							6pin Hirose				Internal	81H		20H						
							External			01H										
							H reset			Camera Link	Internal	81H			10H					
							External		01H											
							6pin Hirose		Internal	81H	30H									
							External		01H											
							Negative		Normal	Camera Link		Internal	D9H	81H		00H				
						External	01H													
						6pin Hirose	Internal	81H		20H										
						External	01H													
						H reset	Camera Link	Internal			81H	10H								
						External	01H													
						6pin Hirose	Internal	81H	30H											
						External	01H													
						Pulse width							Non-Reset	Positive	Normal	Camera Link	Internal	B8H	81H	00H
												External				01H				
												6pin Hirose				Internal	81H		20H	
									External			01H								
									H reset			Camera Link				Internal	81H			
									External			01H								
									6pin Hirose			Internal			81H	30H				
									External			01H								
									Negative			Normal			Camera Link		Internal	F8H	81H	00H
									External						01H					
									6pin Hirose					Internal	81H		20H			
									External					01H						
									H reset					Camera Link	Internal	81H			10H	
									External			01H								
									6pin Hirose			Internal		81H	30H					
									External			01H								
									V-Reset			Positive		Normal		Camera Link	Internal	B9H		81H
									External							01H				
					6pin Hirose				Internal							81H	20H			
					External				01H											
					H reset				Camera Link						Internal	81H			10H	
					External				01H											
					6pin Hirose				Internal					81H	30H					
					External				01H											
					Negative				Normal					Camera Link		Internal	F9H	81H		00H
					External								01H							
					6pin Hirose							Internal	81H	20H						
					External							01H								
					H reset							Camera Link	Internal		81H	10H				
					External				01H											
					6pin Hirose				Internal			81H	30H							
					External				01H											

u. Trigger Mode (60 fps, Binning ¼ Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values				
											10H	11H	12H		
10bit	Trigger	60fps	On	1/4 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	82H	00H		
										External		02H			
									6pin Hirose	Internal	82H	20H			
										External	02H				
									H reset	Camera Link	Internal	82H	10H		
								External		02H					
								6pin Hirose		Internal	82H	30H			
								External	02H						
								Negative	Normal	Camera Link	Internal	D8H	82H	00H	
											External		02H		
							6pin Hirose			Internal	82H	20H			
										External	02H				
							H reset			Camera Link	Internal	82H	10H		
									External	02H					
									6pin Hirose	Internal	82H	30H			
							External		02H						
							V-Reset		Positive	Normal	Camera Link	Internal	99H	82H	00H
												External		02H	
								6pin Hirose			Internal	82H	20H		
											External	02H			
								H reset			Camera Link	Internal	82H	10H	
										External	02H				
										6pin Hirose	Internal	82H	30H		
								External		02H					
								Negative		Normal	Camera Link	Internal	D9H	82H	00H
						External						02H			
						6pin Hirose			Internal		82H	20H			
									External		02H				
						H reset			Camera Link		Internal	82H	10H		
									External	02H					
									6pin Hirose	Internal	82H	30H			
						External			02H						
						Pulse width			Non-Reset	Positive	Camera Link	Internal	B8H	82H	00H
												External		02H	
								6pin Hirose			Internal	82H	20H		
											External	02H			
								H reset			Camera Link	Internal	82H	10H	
										External	02H				
										6pin Hirose	Internal	82H	30H		
								External		02H					
								Negative		Normal	Camera Link	Internal	F8H	82H	00H
							External					02H			
							6pin Hirose		Internal		82H	20H			
									External		02H				
							H reset		Camera Link		Internal	82H	10H		
									External	02H					
									6pin Hirose	Internal	82H	30H			
							External		02H						
							V-Reset		Positive	Normal	Camera Link	Internal	B9H	82H	00H
												External		02H	
					6pin Hirose			Internal			82H	20H			
								External			02H				
					H reset			Camera Link			Internal	82H	10H		
								External		02H					
								6pin Hirose		Internal	82H	30H			
					External			02H							
					Negative			Normal		Camera Link	Internal	F9H	82H	00H	
						External					02H				
						6pin Hirose			Internal	82H	20H				
						External		02H							
						H reset		Camera Link	Internal	82H	10H				
					External			02H							
					6pin Hirose	Internal		82H	30H						
					External	02H									

v. Trigger Mode (60 fps, Binning Variable Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values			
											10H	11H	12H	
10bit	Trigger	60fps	On	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	87H	00H	
										External		07H		
									6pin Hirose	Internal		87H	20H	
								External		07H				
								H reset	Camera Link	Internal		87H	10H	
										External		07H		
							6pin Hirose		Internal	87H	30H			
								External	07H					
							Negative	Normal	Camera Link	Internal	D8H	87H	00H	
										External		07H		
									6pin Hirose	Internal		87H	20H	
								External		07H				
								H reset	Camera Link	Internal		87H	10H	
										External		07H		
							6pin Hirose		Internal	87H	30H			
								External	07H					
							V-Reset	Positive	Normal	Camera Link	99H	87H	00H	
												External		07H
										6pin Hirose		Internal	87H	20H
									External			07H		
									H reset	Camera Link		Internal	87H	10H
												External	07H	
								6pin Hirose		Internal	87H	30H		
									External	07H				
						Negative		Normal	Camera Link	Internal	D9H	87H	00H	
										External		07H		
									6pin Hirose	Internal		87H	20H	
								External		07H				
								H reset	Camera Link	Internal		87H	10H	
										External		07H		
						6pin Hirose			Internal	87H	30H			
								External	07H					
						Pulse width		Non-Reset	Positive	Camera Link	B8H	87H	00H	
												External		07H
										6pin Hirose		Internal	87H	20H
									External			07H		
									H reset	Camera Link		Internal	87H	10H
												External	07H	
								6pin Hirose		Internal	87H	30H		
									External	07H				
							Negative	Normal	Camera Link	Internal	F8H	87H	00H	
										External		07H		
									6pin Hirose	Internal		87H	20H	
								External		07H				
								H reset	Camera Link	Internal		87H	10H	
										External		07H		
							6pin Hirose		Internal	87H	30H			
								External	07H					
							V-Reset	Positive	Normal	Camera Link	B9H	87H	00H	
												External		07H
										6pin Hirose		Internal	87H	20H
									External			07H		
									H reset	Camera Link		Internal	87H	10H
												External	07H	
								6pin Hirose		Internal	87H	30H		
									External	07H				
						Negative		Normal	Camera Link	Internal	F9H	87H	00H	
										External		07H		
									6pin Hirose	Internal		87H	20H	
								External		07H				
							H reset	Camera Link	Internal	87H		10H		
									External	07H				
						6pin Hirose		Internal	87H	30H				
							External	07H						

w. Trigger Mode (30 fps, Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
10bit	Trigger	30fps	Off	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	80H	COH	00H			
									External	40H						
									6pin Hirose	Internal		COH		20H		
									External	40H						
									H reset	Camera Link		Internal			COH	10H
								External	40H							
								6pin Hirose	Internal	COH	30H					
								External	40H							
								Negative	Normal	Camera Link		Internal	C0H	COH	00H	
										External		40H				
							6pin Hirose			Internal		COH		20H		
							External			40H						
							H reset			Camera Link	Internal	COH				10H
							External	40H								
							6pin Hirose	Internal	COH	30H						
							External	40H								
							V-Reset	Positive	Normal		Camera Link	Internal	81H	COH	00H	
											External	40H				
											6pin Hirose	Internal		COH		20H
										External	40H					
										H reset	Camera Link	Internal		COH		
									External	40H						
									6pin Hirose	Internal	COH	30H				
									External	40H						
									Negative	Normal	Camera Link		Internal	C1H	COH	00H
						External					40H					
						6pin Hirose		Internal			COH		20H			
						External		40H								
						H reset		Camera Link			Internal	COH			10H	
						External		40H								
						6pin Hirose		Internal	COH	30H						
						External		40H								
						Pulse width		Non-Reset	Positive		Normal	Camera Link	Internal	A0H		COH
												External	40H			
												6pin Hirose	Internal		COH	20H
										External		40H				
										H reset		Camera Link	Internal		COH	
										External	40H					
										6pin Hirose	Internal	COH	30H			
										External	40H					
										Negative	Normal	Camera Link		Internal	E0H	COH
							External					40H				
							6pin Hirose		Internal			COH		20H		
							External		40H							
							H reset		Camera Link			Internal	COH			10H
							External		40H							
							6pin Hirose		Internal	COH	30H					
							External		40H							
							V-Reset		Positive	Normal		Camera Link	Internal	A1H	COH	
												External	40H			
					6pin Hirose							Internal	COH		20H	
					External						40H					
					H reset						Camera Link	Internal	COH			10H
					External					40H						
					6pin Hirose					Internal	COH	30H				
					External					40H						
					Negative					Normal	Camera Link		Internal	E1H	COH	
								External			40H					
								6pin Hirose	Internal		COH		20H			
								External	40H							
								H reset	Camera Link		Internal	COH			10H	
					External			40H								
					6pin Hirose			Internal	COH	30H						
					External			40H								

x. Trigger Mode (30 fps, Partial Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values		
											10H	11H	12H
10bit	Trigger	30fps	Off	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	COH	00H
										External		40H	
									6pin Hirose	Internal		COH	20H
								External		40H			
								H reset	Camera Link	Internal		COH	10H
										External		40H	
							6pin Hirose		Internal	COH	30H		
								External	40H				
							Negative	Normal	Camera Link	Internal	C8H	COH	00H
										External		40H	
									6pin Hirose	Internal		COH	20H
								External		40H			
						H reset		Camera Link	Internal	COH		10H	
									External	40H			
							6pin Hirose	Internal	COH	30H			
						External		40H					
						V-Reset	Positive	Normal	Camera Link	89H	COH	00H	
											External		40H
									6pin Hirose		Internal	COH	20H
								External			40H		
								H reset	Camera Link		Internal	COH	10H
											External	40H	
							6pin Hirose		Internal	COH	30H		
								External	40H				
					Negative		Normal	Camera Link	Internal	C9H	COH	00H	
									External		40H		
								6pin Hirose	Internal		COH	20H	
							External		40H				
						H reset	Camera Link	Internal	COH		10H		
								External	40H				
					6pin Hirose		Internal	COH	30H				
						External	40H						
					Pulse width	Non-Reset	Positive	Normal	Camera Link	A8H	COH	00H	
											External		40H
									6pin Hirose		Internal	COH	20H
								External			40H		
								H reset	Camera Link		Internal	COH	10H
											External	40H	
							6pin Hirose		Internal	COH	30H		
								External	40H				
							Negative	Normal	Camera Link	Internal	E8H	COH	00H
										External		40H	
									6pin Hirose	Internal		COH	20H
								External		40H			
						H reset		Camera Link	Internal	COH		10H	
									External	40H			
							6pin Hirose	Internal	COH	30H			
						External		40H					
V-Reset	Positive	Normal	Camera Link	A9H		COH	00H						
						External		40H					
			6pin Hirose			Internal	COH	20H					
		External				40H							
		H reset	Camera Link			Internal	COH	10H					
						External	40H						
	6pin Hirose		Internal	COH		30H							
		External	40H										
	Negative	Normal	Camera Link	Internal	E9H	COH	00H						
				External		40H							
			6pin Hirose	Internal		COH	20H						
		External		40H									
H reset		Camera Link	Internal	COH		10H							
			External	40H									
	6pin Hirose	Internal	COH	30H									
External		40H											

y. Trigger Mode (30 fps, 1/2 Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values		
											10H	11H	12H
10bit	Trigger	30fps	Off	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	C1H	00H
										External		41H	
									6pin Hirose	Internal		C1H	20H
									External	41H			
								H reset	Internal	C1H		10H	
									External	41H			
							6pin Hirose	Internal	C1H	30H			
								External	41H				
							Negative	Normal	Camera Link	Internal	C8H	C1H	00H
										External		41H	
									6pin Hirose	Internal		C1H	20H
									External	41H			
						H reset		Internal	C1H	10H			
								External	41H				
						6pin Hirose	Internal	C1H	30H				
							External	41H					
						V-Reset	Positive	Normal	Camera Link	Internal	89H	C1H	00H
										External		41H	
									6pin Hirose	Internal		C1H	20H
									External	41H			
								H reset	Internal	C1H		10H	
									External	41H			
							6pin Hirose	Internal	C1H	30H			
								External	41H				
					Negative		Normal	Camera Link	Internal	C9H	C1H	00H	
									External		41H		
								6pin Hirose	Internal		C1H	20H	
								External	41H				
						H reset	Internal	C1H	10H				
							External	41H					
					6pin Hirose	Internal	C1H	30H					
						External	41H						
					Pulse width	Non-Reset	Positive	Normal	Camera Link	Internal	A8H	C1H	00H
										External		41H	
									6pin Hirose	Internal		C1H	20H
									External	41H			
								H reset	Internal	C1H		10H	
									External	41H			
							6pin Hirose	Internal	C1H	30H			
								External	41H				
							Negative	Normal	Camera Link	Internal	E8H	C1H	00H
										External		41H	
									6pin Hirose	Internal		C1H	20H
									External	41H			
						H reset		Internal	C1H	10H			
								External	41H				
						6pin Hirose	Internal	C1H	30H				
							External	41H					
V-Reset	Positive	Normal	Camera Link	Internal		A9H	C1H	00H					
				External			41H						
			6pin Hirose	Internal			C1H	20H					
			External	41H									
		H reset	Internal	C1H			10H						
			External	41H									
	6pin Hirose	Internal	C1H	30H									
		External	41H										
	Negative	Normal	Camera Link	Internal	E9H	C1H	00H						
				External		41H							
			6pin Hirose	Internal		C1H	20H						
			External	41H									
H reset		Internal	C1H	10H									
		External	41H										
6pin Hirose	Internal	C1H	30H										
	External	41H											

z. Trigger Mode (30 fps, ¼ Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values		
											10H	11H	12H
10bit	Trigger	30fps	Off	1/4 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	C2H	00H
										External		42H	
									6pin Hirose	Internal		C2H	20H
								External		42H			
								H reset	Camera Link	Internal		C2H	10H
										External		42H	
							6pin Hirose		Internal	C2H	30H		
							External	42H					
							Negative	Normal	Camera Link	Internal	C8H	C2H	00H
										External		42H	
									6pin Hirose	Internal		C2H	20H
								External		42H			
						H reset		Camera Link	Internal	C2H		10H	
									External	42H			
							6pin Hirose	Internal	C2H	30H			
						External	42H						
						V-Reset	Positive	Normal	Camera Link	89H	C2H	00H	
											External	42H	
									6pin Hirose		Internal	C2H	20H
								External			42H		
								H reset	Camera Link		Internal	C2H	10H
											External	42H	
							6pin Hirose		Internal	C2H	30H		
							External	42H					
					Negative		Normal	Camera Link	C9H	C2H	00H		
										External	42H		
								6pin Hirose		Internal	C2H	20H	
							External			42H			
						H reset	Camera Link	Internal		C2H	10H		
								External		42H			
					6pin Hirose		Internal	C2H	30H				
					External	42H							
					Pulse width	Non-Reset	Positive	Normal	A8H	C2H	00H		
										External	42H		
										6pin Hirose	Internal	C2H	20H
								External			42H		
								H reset		Camera Link	Internal	C2H	10H
											External	42H	
							6pin Hirose		Internal	C2H	30H		
							External	42H					
							Negative	Normal	Camera Link	E8H	C2H	00H	
											External	42H	
									6pin Hirose		Internal	C2H	20H
								External			42H		
						H reset		Camera Link	Internal		C2H	10H	
									External		42H		
							6pin Hirose	Internal	C2H	30H			
						External	42H						
V-Reset	Positive	Normal	A9H	C2H		00H							
				External		42H							
				6pin Hirose		Internal	C2H	20H					
		External				42H							
		H reset		Camera Link		Internal	C2H	10H					
						External	42H						
	6pin Hirose		Internal	C2H		30H							
	External	42H											
	Negative	Normal	Camera Link	E9H	C2H	00H							
					External	42H							
			6pin Hirose		Internal	C2H	20H						
		External			42H								
H reset		Camera Link	Internal		C2H	10H							
			External		42H								
	6pin Hirose	Internal	C2H	30H									
External	42H												

aa. Trigger Mode (30 fps, Variable Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values		
											10H	11H	12H
10bit	Trigger	30fps	Off	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	C7H	00H
										External		47H	
										Internal		C7H	20H
									External	47H			
									H reset	Internal		C7H	10H
										External		47H	
								Internal		C7H	30H		
								6pin Hirose	Internal	C7H			
									External	47H			
									Internal	C7H			
									External	47H			
									Internal	C7H			
							External		47H				
							Negative	Normal	Camera Link	Internal	C8H	C7H	00H
										External		47H	
										Internal		C7H	20H
									External	47H			
									H reset	Internal		C7H	10H
										External		47H	
								Internal		C7H	30H		
								6pin Hirose	Internal	C7H			
									External	47H			
									Internal	C7H			
									External	47H			
						Internal			C7H				
						External	47H						
						V-Reset	Positive	Normal	Camera Link	89H	C7H	00H	
											External	47H	
											Internal	C7H	20H
									External		47H		
									H reset		Internal	C7H	10H
											External	47H	
								Internal		C7H	30H		
								6pin Hirose	Internal	C7H			
									External	47H			
									Internal	C7H			
									External	47H			
									Internal	C7H			
							External		47H				
							Negative	Normal	Camera Link	C9H	C7H	00H	
											External	47H	
											Internal	C7H	20H
									External		47H		
									H reset		Internal	C7H	10H
											External	47H	
								Internal		C7H	30H		
								6pin Hirose	Internal	C7H			
									External	47H			
Internal	C7H												
External	47H												
Internal	C7H												
External	47H												
Pulse width	Non-Reset	Positive	Normal	A8H	C7H	00H							
					External	47H							
					Internal	C7H	20H						
					External	47H							
					H reset	Internal	C7H	10H					
						External	47H						
			Internal	C7H		30H							
			6pin Hirose	Internal	C7H								
				External	47H								
				Internal	C7H								
				External	47H								
				Internal	C7H								
	External	47H											
	Negative	Normal	Camera Link	E8H	C7H	00H							
					External	47H							
					Internal	C7H	20H						
			External		47H								
			H reset		Internal	C7H	10H						
					External	47H							
		Internal		C7H	30H								
		6pin Hirose	Internal	C7H									
			External	47H									
			Internal	C7H									
			External	47H									
Internal			C7H										
External	47H												
V-Reset	Positive	Normal	A9H	C7H	00H								
				External	47H								
				Internal	C7H	20H							
		External		47H									
		H reset		Internal	C7H	10H							
				External	47H								
	Internal		C7H	30H									
	6pin Hirose	Internal	C7H										
		External	47H										
		Internal	C7H										
		External	47H										
		Internal	C7H										
External		47H											
Negative	Normal	Camera Link	E9H	C7H	00H								
				External	47H								
				Internal	C7H	20H							
	H reset	External		47H									
		Internal		C7H	10H								
		External		47H									
6pin Hirose	Internal	C7H	30H										
	External	47H											
	Internal	C7H											

bb. Trigger Mode (30 fps, Binning Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values							
											10H	11H	12H					
10bit	Trigger	30fps	On	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	90H	COH	00H					
										External		40H						
									6pin Hirose	Internal		COH		20H				
										External		40H						
									H reset	Camera Link		Internal		COH	10H			
								External				40H						
								6pin Hirose		Internal		COH	30H					
									External	40H								
								Negative	Normal	Camera Link		Internal	D0H	COH	00H			
												External		40H				
							6pin Hirose			Internal	COH	20H						
										External	40H							
							H reset			Camera Link	Internal	COH		10H				
									External		40H							
									6pin Hirose	Internal	COH	30H						
							External			40H								
							V-Reset		Positive	Normal	Camera Link	91H		COH	00H			
														External		40H		
								6pin Hirose			Internal		COH	20H				
											External		40H					
								H reset			Camera Link		Internal	COH		10H		
										External			40H					
										6pin Hirose	Internal		COH	30H				
								External			40H							
								Negative		Normal	Camera Link		Internal	D1H	COH	00H		
						External							40H					
						6pin Hirose			Internal		COH	20H						
									External		40H							
						H reset			Camera Link		Internal	COH	10H					
										External	40H							
									6pin Hirose	Internal	COH	30H						
						External				40H								
						Pulse width			Non-Reset	Positive	Normal	B0H	COH		00H			
													External			40H		
													6pin Hirose			Internal	COH	20H
																External	40H	
													H reset			Camera Link	Internal	COH
											External				40H			
											6pin Hirose				Internal	COH	30H	
								External					40H					
								Negative			Normal		Camera Link	Internal	F0H	COH	00H	
							External							40H				
							6pin Hirose			Internal		COH	20H					
										External		40H						
							H reset			Camera Link		Internal	COH	10H				
											External	40H						
										6pin Hirose	Internal	COH	30H					
							External				40H							
							V-Reset			Positive	Normal	B1H	COH	00H				
													External			40H		
					6pin Hirose								Internal			COH	20H	
													External			40H		
					H reset								Camera Link			Internal	COH	10H
											External			40H				
											6pin Hirose		Internal	COH		30H		
					External			40H										
					Negative			Normal			Camera Link		Internal	F1H	COH	00H		
									External				40H					
									6pin Hirose	Internal	COH	20H						
										External	40H							
									H reset	Camera Link	Internal	COH	10H					
								External			40H							
								6pin Hirose		Internal	COH	30H						
									External	40H								

cc. Trigger Mode (30 fps, Binning Partial Full Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values						
											10H	11H	12H				
10bit	Trigger	30fps	On	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	COH	00H				
									External	40H							
									6pin Hirose	Internal		COH		20H			
									External	40H							
									H reset	Camera Link		Internal			COH	10H	
								External	40H								
								6pin Hirose	Internal	COH	30H						
								External	40H								
								Negative	Normal	Camera Link		Internal	D8H	COH	00H		
										External		40H					
							6pin Hirose			Internal		COH		20H			
							External			40H							
							H reset			Camera Link	Internal	COH				10H	
							External		40H								
							6pin Hirose		Internal	COH	30H						
							External		40H								
							V-Reset		Positive	Normal		Camera Link	Internal	99H	COH		00H
												External	40H				
								6pin Hirose				Internal	COH		20H		
								External			40H						
								H reset			Camera Link	Internal	COH			10H	
								External		40H							
								6pin Hirose		Internal	COH	30H					
								External		40H							
								Negative		Normal	Camera Link		Internal	D9H	COH		00H
						External					40H						
						6pin Hirose			Internal		COH		20H				
						External			40H								
						H reset			Camera Link		Internal	COH			10H		
						External			40H								
						6pin Hirose			Internal	COH	30H						
						External			40H								
						Pulse width			Non-Reset	Positive		Normal	Camera Link	Internal		B8H	COH
													External	40H			
													6pin Hirose	Internal	COH		20H
											External		40H				
											H reset		Camera Link	Internal	COH		
											External	40H					
											6pin Hirose	Internal	COH	30H			
								External			40H						
								Negative			Normal	Camera Link	Internal		F8H	COH	00H
							External					40H					
							6pin Hirose			Internal		COH	20H				
							External			40H							
							H reset			Camera Link		Internal		COH		10H	
							External			40H							
							6pin Hirose			Internal	COH	30H					
							External			40H							
							V-Reset			Positive	Normal		Camera Link	Internal	B9H		COH
													External	40H			
					6pin Hirose								Internal	COH		20H	
					External							40H					
					H reset							Camera Link	Internal	COH			10H
					External						40H						
					6pin Hirose						Internal	COH	30H				
					External			40H									
					Negative			Normal			Camera Link	Internal		F9H	COH	00H	
									External		40H						
									6pin Hirose	Internal	COH	20H					
									External	40H							
									H reset	Camera Link	Internal		COH		10H		
								External	40H								
								6pin Hirose	Internal	COH	30H						
								External	40H								

dd. Trigger Mode (30 fps, Binning ½ Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
10bit	Trigger	30fps	On	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	C1H	12H			
										External		41H	20H			
									6pin Hirose	Internal	C1H					
										External	41H					
									H reset	Camera Link	Internal	C1H	10H			
								External			41H					
								6pin Hirose		Internal	C1H	30H				
										External	41H					
								Negative		Normal	Camera Link	Internal	D8H	C1H	00H	
									External			41H				
							6pin Hirose		Internal		C1H	20H				
									External		41H					
							H reset		Camera Link		Internal	C1H	10H			
										External	41H					
									6pin Hirose	Internal	C1H	30H				
										External	41H					
									V-Reset	Positive	Normal	Camera Link	99H	C1H	00H	
							External							41H		
							6pin Hirose	Internal				C1H	20H			
								External				41H				
							H reset	Camera Link				Internal	C1H	10H		
											External	41H				
								6pin Hirose			Internal	C1H	30H			
											External	41H				
								Negative			Normal	Camera Link	D9H	C1H	00H	
						External	41H									
						6pin Hirose	Internal			C1H		20H				
							External			41H						
						H reset	Camera Link			Internal		C1H	10H			
										External	41H					
							6pin Hirose			Internal	C1H	30H				
										External	41H					
							Pulse width			Non-Reset	Positive	Normal	B8H	C1H	00H	
						Camera Link								External	41H	
														6pin Hirose	Internal	C1H
						External									41H	
						H reset								Camera Link	Internal	C1H
										External	41H					
										6pin Hirose	Internal	C1H		30H		
								External			41H					
								V-Reset		Positive	Normal	Camera Link		F8H	C1H	00H
						External			41H							
						6pin Hirose	Internal		C1H			20H				
							External		41H							
						H reset	Camera Link		Internal			C1H	10H			
									External		41H					
							6pin Hirose		Internal		C1H	30H				
									External		41H					
							Negative		Normal		Camera Link	Internal	B9H	C1H	00H	
						External								41H		
					6pin Hirose	Internal				C1H		20H				
						External				41H						
					H reset	Camera Link				Internal		C1H	10H			
							External		41H							
						6pin Hirose	Internal		C1H	30H						
							External	41H								
						V-Reset	Positive	Camera Link	Internal	F9H		C1H	00H			
					External							41H				
					6pin Hirose				Internal	C1H	20H					
									External	41H						
					H reset				Camera Link	Internal	C1H	10H				
							External			41H						
							6pin Hirose		Internal	C1H	30H					
									External	41H						

ee. Trigger Mode (30 fps, Binning ¼ Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values				
											10H	11H	12H		
10bit	Trigger	30fps	On	1/4 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	C2H	00H		
										External		42H			
									6pin Hirose	Internal		C2H		20H	
										External		42H			
									H reset	Camera Link		Internal		C2H	10H
								External		42H					
								6pin Hirose		Internal		C2H	30H		
								External	42H						
								Negative	Normal	Camera Link		Internal	D8H	C2H	00H
												External		42H	
							6pin Hirose			Internal	C2H	20H			
										External	42H				
							H reset			Camera Link	Internal	C2H		10H	
									External	42H					
									6pin Hirose	Internal	C2H	30H			
							External		42H						
							V-Reset		Positive	Normal	Camera Link	99H		C2H	00H
														External	
								6pin Hirose			Internal		C2H	20H	
											External		42H		
								H reset			Camera Link		Internal	C2H	
										External	42H				
										6pin Hirose	Internal		C2H	30H	
								External		42H					
								Negative		Normal	Camera Link		Internal	D9H	C2H
						External							42H		
						6pin Hirose			Internal		C2H	20H			
									External		42H				
						H reset			Camera Link		Internal	C2H	10H		
									External	42H					
									6pin Hirose	Internal	C2H	30H			
						External			42H						
						Pulse width			Non-Reset	Positive	Camera Link	B8H	C2H		00H
													External		
								6pin Hirose			Internal		C2H	20H	
											External		42H		
								H reset			Camera Link		Internal	C2H	
										External	42H				
										6pin Hirose	Internal		C2H	30H	
								External		42H					
								Negative		Normal	Camera Link		Internal	F8H	C2H
							External						42H		
							6pin Hirose		Internal	C2H	20H				
									External	42H					
							H reset		Camera Link	Internal	C2H	10H			
								External	42H						
								6pin Hirose	Internal	C2H	30H				
						External	42H								
						V-Reset	Positive	Camera Link	Internal	B9H	C2H	00H			
									External		42H				
					6pin Hirose			Internal	C2H		20H				
								External	42H						
					H reset			Camera Link	Internal		C2H		10H		
							External	42H							
							6pin Hirose	Internal	C2H		30H				
					External		42H								
					Negative		Normal	Camera Link	Internal		F9H	C2H	00H		
									External			42H			
						6pin Hirose	Internal	C2H	20H						
							External	42H							
						H reset	Camera Link	Internal	C2H	10H					
					External		42H								
					6pin Hirose		Internal	C2H	30H						
					External	42H									

ff. Trigger Mode (30 fps, Binning Variable Partial Scanning, 10bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values											
											10H	11H	12H									
10bit	Trigger	30fps	On	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	C7H	00H									
										External		47H										
									6pin Hirose	Internal		C7H	20H									
										External		47H										
									H reset	Internal		C7H	10H									
									External	47H												
								6pin Hirose	Internal	C7H		30H										
									External	47H												
								Negative	Normal	Camera Link		Internal	D8H	C7H	00H							
												External		47H								
							6pin Hirose			Internal	C7H	20H										
										External	47H											
							H reset			Internal	C7H	10H										
									External	47H												
							6pin Hirose		Internal	C7H	30H											
									External	47H												
							V-Reset		Positive	Normal	Camera Link	Internal		99H	C7H	00H						
												External			47H							
								6pin Hirose			Internal	C7H	20H									
											External	47H										
						H reset		Internal			C7H	10H										
								External	47H													
						6pin Hirose		Internal	C7H	30H												
								External	47H													
						Negative		Normal	Normal	Camera Link	Internal	D9H	C7H		00H							
											External		47H									
							6pin Hirose			Internal	C7H		20H									
										External	47H											
							H reset			Internal	C7H		10H									
								External	47H													
							6pin Hirose	Internal	C7H	30H												
								External	47H													
							Pulse width	Trigger	30fps	On	Variable partial scanning		Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	B8H	C7H	00H	
																		External		47H		
						6pin Hirose						Internal					C7H	20H				
												External					47H					
						H reset						Internal					C7H	10H				
												External				47H						
						6pin Hirose						Internal				C7H	30H					
												External				47H						
						Negative						Normal				Normal	Camera Link	Internal		F8H	C7H	00H
																		External			47H	
															6pin Hirose		Internal	C7H	20H			
																	External	47H				
															H reset		Internal	C7H	10H			
															External	47H						
												6pin Hirose			Internal	C7H	30H					
															External	47H						
												V-Reset			Positive	Normal	Camera Link	Internal	B9H		C7H	00H
																		External			47H	
					6pin Hirose	Internal											C7H	20H				
						External											47H					
					H reset	Internal								C7H			10H					
						External								47H								
					6pin Hirose	Internal								C7H	30H							
						External								47H								
					Negative	Normal								Normal	Camera Link	Internal	F9H	C7H		00H		
																External		47H				
												6pin Hirose			Internal	C7H		20H				
															External	47H						
												H reset			Internal	C7H		10H				
												External		47H								
						6pin Hirose						Internal		C7H	30H							
												External		47H								

gg. Trigger Mode (90 fps, Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
8bit	Trigger	90fps	Off	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	80H	A0H	40H			
									External	20H						
									6pin Hirose	Internal		A0H	60H			
								External	20H							
								H reset	Camera Link	Internal		A0H	50H			
								External	20H							
							6pin Hirose	Internal	A0H	70H						
							External	20H								
							Negative	Normal	Camera Link	Internal	C0H	A0H	40H			
									External	20H						
									6pin Hirose	Internal		A0H	60H			
								External	20H							
						H reset		Camera Link	Internal	A0H		50H				
						External		20H								
						6pin Hirose	Internal	A0H	70H							
						External	20H									
						V-Reset	Positive	Normal	Camera Link	Internal	81H	A0H	40H			
									External	20H						
									6pin Hirose	Internal		A0H	60H			
								External	20H							
								H reset	Camera Link	Internal		A0H	50H			
								External	20H							
							6pin Hirose	Internal	A0H	70H						
							External	20H								
					Negative		Normal	Camera Link	Internal	C1H	A0H	40H				
								External	20H							
								6pin Hirose	Internal		A0H	60H				
							External	20H								
						H reset	Camera Link	Internal	A0H		50H					
						External	20H									
					6pin Hirose	Internal	A0H	70H								
					External	20H										
					Pulse width	Non-Reset	Positive	Normal	Camera Link	Internal	A0H	A0H	40H			
									External	20H						
									6pin Hirose	Internal		A0H	60H			
									External	20H						
									H reset	Camera Link		Internal	A0H	50H		
									External	20H						
									6pin Hirose	Internal		A0H	70H			
									External	20H						
									Negative	Normal		Camera Link	Internal	E0H	A0H	40H
												External	20H			
												6pin Hirose	Internal		A0H	60H
										External		20H				
								H reset		Camera Link	Internal	A0H	50H			
								External		20H						
								6pin Hirose	Internal	A0H	70H					
								External	20H							
V-Reset	Positive	Normal	Camera Link	Internal				A1H	A0H	40H						
			External	20H												
			6pin Hirose	Internal					A0H	60H						
		External	20H													
		H reset	Camera Link	Internal					A0H	50H						
		External	20H													
	6pin Hirose	Internal	A0H	70H												
	External	20H														
	Negative	Normal	Camera Link	Internal	E1H	A0H	40H									
			External	20H												
			6pin Hirose	Internal		A0H	60H									
		External	20H													
H reset		Camera Link	Internal	A0H		50H										
External		20H														
6pin Hirose	Internal	A0H	70H													
External	20H															

hh. Trigger Mode (90 fps, Partial Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values		
											10H	11H	12H
8bit	Trigger	90fps	Off	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	A0H	40H
									External	20H			
									6pin Hirose	Internal		A0H	60H
								External	20H				
								H reset	Camera Link	Internal		A0H	50H
								External	20H				
							6pin Hirose	Internal	A0H	70H			
							External	20H					
							Negative	Normal	Camera Link	Internal	C8H	A0H	40H
									External	20H			
									6pin Hirose	Internal		A0H	60H
								External	20H				
						H reset		Camera Link	Internal	A0H		50H	
						External		20H					
						6pin Hirose	Internal	A0H	70H				
						External	20H						
						V-Reset	Positive	Normal	Camera Link	Internal	89H	A0H	40H
									External	20H			
									6pin Hirose	Internal		A0H	60H
								External	20H				
								H reset	Camera Link	Internal		A0H	50H
								External	20H				
							6pin Hirose	Internal	A0H	70H			
							External	20H					
					Negative		Normal	Camera Link	Internal	C9H	A0H	40H	
								External	20H				
								6pin Hirose	Internal		A0H	60H	
							External	20H					
						H reset	Camera Link	Internal	A0H		50H		
						External	20H						
					6pin Hirose	Internal	A0H	70H					
					External	20H							
					Pulse width	Non-Reset	Positive	Normal	Camera Link	Internal	A8H	A0H	40H
									External	20H			
									6pin Hirose	Internal		A0H	60H
								External	20H				
								H reset	Camera Link	Internal		A0H	50H
								External	20H				
							6pin Hirose	Internal	A0H	70H			
							External	20H					
							Negative	Normal	Camera Link	Internal	E8H	A0H	40H
									External	20H			
									6pin Hirose	Internal		A0H	60H
								External	20H				
						H reset		Camera Link	Internal	A0H		50H	
						External		20H					
						6pin Hirose	Internal	A0H	70H				
						External	20H						
V-Reset	Positive	Normal	Camera Link	Internal		A9H	A0H	40H					
			External	20H									
			6pin Hirose	Internal			A0H	60H					
		External	20H										
		H reset	Camera Link	Internal			A0H	50H					
		External	20H										
	6pin Hirose	Internal	A0H	70H									
	External	20H											
	Negative	Normal	Camera Link	Internal	E9H	A0H	40H						
			External	20H									
			6pin Hirose	Internal		A0H	60H						
		External	20H										
H reset		Camera Link	Internal	A0H		50H							
External		20H											
6pin Hirose	Internal	A0H	70H										
External	20H												

ii. Trigger Mode (90 fps, ½ Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values							
											10H	11H	12H					
8bit	Trigger	90fps	Off	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	A1H	40H					
										External		A0H						
										6pin Hirose		Internal		A1H				
									External			A0H						
									H reset			Camera Link		Internal	A1H	50H		
										External		A0H						
								6pin Hirose		Internal	A1H							
								External	A0H									
								Negative	Normal	Camera Link	Internal	C8H	A1H	40H				
											External		A0H					
											6pin Hirose		Internal		A1H			
									External	A0H								
							H reset		Camera Link	Internal			A1H		50H			
									External	A0H								
								6pin Hirose	Internal	A1H								
							External	A0H										
							V-Reset	Positive	Normal	Camera Link	Internal	89H	A1H	40H				
											External		A0H					
											6pin Hirose		Internal		A1H			
									External	A0H								
									H reset	Camera Link			Internal		A1H	50H		
										External	A0H							
								6pin Hirose		Internal	A1H							
								External	A0H									
						Negative		Normal	Camera Link	Internal	C9H	A1H	40H					
										External		A0H						
										6pin Hirose		Internal		A1H				
								External	A0H									
							H reset	Camera Link	Internal			A1H		50H				
								External	A0H									
						6pin Hirose		Internal	A1H									
						External	A0H											
						Pulse width	Non-Reset	Positive	Normal	Camera Link	Internal	A8H	A1H	40H				
											External		A0H					
											6pin Hirose		Internal		A1H			
													External		A0H			
													H reset		Camera Link	Internal	A1H	50H
											External				A0H			
										6pin Hirose	Internal				A1H			
										External	A0H							
										Negative	Normal		Camera Link		Internal	E8H	A1H	40H
															External		A0H	
															6pin Hirose		Internal	
											External		A0H					
									H reset		Camera Link	Internal	A1H	50H				
											External	A0H						
										6pin Hirose	Internal	A1H						
									External	A0H								
V-Reset	Positive	Normal	Camera Link	Internal	A9H				A1H	40H								
				External					A0H									
				6pin Hirose					Internal		A1H							
		External	A0H															
		H reset	Camera Link						Internal		A1H	50H						
			External	A0H														
	6pin Hirose		Internal	A1H														
	External	A0H																
	Negative	Normal	Camera Link	Internal	E9H	A1H	40H											
				External		A0H												
				6pin Hirose		Internal		A1H										
		External	A0H															
H reset		Camera Link	Internal			A1H		50H										
		External	A0H															
	6pin Hirose	Internal	A1H															
External	A0H																	

jj. Trigger Mode (90 fps, ¼ Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values		
											10H	11H	12H
8bit	Trigger	90fps	Off	1/4 parital scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	A2H	40H
									External	22H			
									6pin Hirose	Internal		A2H	60H
								External	22H				
								H reset	Camera Link	Internal		A2H	50H
								External	22H				
							6pin Hirose	Internal	A2H	70H			
							External	22H					
							Negative	Normal	Camera Link	Internal	C8H	A2H	40H
									External	22H			
									6pin Hirose	Internal		A2H	60H
								External	22H				
						H reset		Camera Link	Internal	A2H		50H	
						External		22H					
						V-Reset	Positive	Camera Link	Internal	89H	A2H	40H	
								External	22H				
								6pin Hirose	Internal		A2H	60H	
							External	22H					
							H reset	Camera Link	Internal		A2H	50H	
							External	22H					
						Negative	Normal	Camera Link	Internal	C9H	A2H	40H	
								External	22H				
								6pin Hirose	Internal		A2H	60H	
							External	22H					
					H reset		Camera Link	Internal	A2H		50H		
					External		22H						
					Pulse width	Non-Reset	Positive	Normal	Camera Link	Internal	A8H	A2H	40H
									External	22H			
									6pin Hirose	Internal		A2H	60H
								External	22H				
								H reset	Camera Link	Internal		A2H	50H
								External	22H				
							6pin Hirose	Internal	A2H	70H			
							External	22H					
							Negative	Normal	Camera Link	Internal	E8H	A2H	40H
									External	22H			
									6pin Hirose	Internal		A2H	60H
								External	22H				
						H reset		Camera Link	Internal	A2H		50H	
						External		22H					
						6pin Hirose	Internal	A2H	70H				
						External	22H						
						V-Reset	Positive	Normal	Camera Link	Internal	A9H	A2H	40H
									External	22H			
									6pin Hirose	Internal		A2H	60H
								External	22H				
								H reset	Camera Link	Internal		A2H	50H
								External	22H				
6pin Hirose	Internal	A2H	70H										
External	22H												
Negative	Normal	Camera Link	Internal	E9H	A2H		40H						
		External	22H										
		6pin Hirose	Internal		A2H		60H						
	External	22H											
	H reset	Camera Link	Internal		A2H	50H							
	External	22H											
6pin Hirose	Internal	A2H	70H										
External	22H												

kk. Trigger Mode (90 fps, Variable Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values							
											10H	11H	12H					
8bit	Trigger	90fps	Off	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	A7H	40H					
									External	27H								
									6pin Hirose	Internal		A7H	60H					
								External	27H									
								H reset	Camera Link	Internal		A7H	50H					
								External	27H									
							6pin Hirose	Internal	A7H	70H								
							External	27H										
							Negative	Normal	Camera Link	Internal	C8H	A7H	40H					
									External	27H								
									6pin Hirose	Internal		A7H	60H					
								External	27H									
						H reset		Camera Link	Internal	A7H		50H						
						External		27H										
						6pin Hirose	Internal	A7H	70H									
						External	27H											
						V-Reset	Positive	Normal	Camera Link	Internal	89H	A7H	40H					
									External	27H								
									6pin Hirose	Internal		A7H	60H					
								External	27H									
								H reset	Camera Link	Internal		A7H	50H					
								External	27H									
							6pin Hirose	Internal	A7H	70H								
							External	27H										
					Negative		Normal	Camera Link	Internal	C9H		A7H	40H					
								External	27H									
								6pin Hirose	Internal			A7H	60H					
							External	27H										
						H reset	Camera Link	Internal	A7H		50H							
						External	27H											
					6pin Hirose	Internal	A7H	70H										
					External	27H												
					Pulse width	Non-Reset				Positive	Normal	Normal	Camera Link	Internal	A8H	A7H	40H	
													External	27H				
													6pin Hirose	Internal		A7H	60H	
												External	27H					
												H reset	Camera Link	Internal		A7H	50H	
												External	27H					
											6pin Hirose	Internal	A7H	70H				
											External	27H						
											Negative	Normal	Camera Link	Internal		E8H	A7H	40H
													External	27H				
													6pin Hirose	Internal			A7H	60H
												External	27H					
										H reset		Camera Link	Internal	A7H	50H			
										External		27H						
										6pin Hirose	Internal	A7H	70H					
										External	27H							
V-Reset	Positive	Normal	Camera Link	Internal						A9H	A7H	40H						
			External	27H														
			6pin Hirose	Internal							A7H	60H						
		External	27H															
		H reset	Camera Link	Internal							A7H	50H						
		External	27H															
	6pin Hirose	Internal	A7H	70H														
	External	27H																
	Negative	Normal	Camera Link	Internal	E9H	A7H	40H											
			External	27H														
			6pin Hirose	Internal		A7H	60H											
		External	27H															
H reset		Camera Link	Internal	A7H		50H												
External		27H																
6pin Hirose	Internal	A7H	70H															
External	27H																	

II. Trigger Mode (90 fps, Binning Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values				
											10H	11H	12H		
8bit	Trigger	90fps	On	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	90H	A0H	40H		
									External	20H					
									6pin Hirose	Internal		A0H	60H		
								External	20H						
								H reset	Camera Link	Internal		A0H	50H		
								External	20H						
							6pin Hirose	Internal	A0H	70H					
							External	20H							
							Negative	Normal	Camera Link	Internal	D0H	A0H	40H		
									External	20H					
									6pin Hirose	Internal		A0H	60H		
								External	20H						
						H reset		Camera Link	Internal	A0H		50H			
						External		20H							
						6pin Hirose	Internal	A0H	70H						
						External	20H								
						V-Reset	Positive	Normal	Camera Link	Internal	91H	A0H	40H		
									External	20H					
									6pin Hirose	Internal		A0H	60H		
								External	20H						
								H reset	Camera Link	Internal		A0H	50H		
								External	20H						
							6pin Hirose	Internal	A0H	70H					
							External	20H							
					Negative		Normal	Camera Link	Internal	D1H	A0H	40H			
								External	20H						
								6pin Hirose	Internal		A0H	60H			
							External	20H							
						H reset	Camera Link	Internal	A0H		50H				
						External	20H								
					6pin Hirose	Internal	A0H	70H							
					External	20H									
					Pulse width	Non-Reset	Positive	Normal	Camera Link	Internal	B0H	A0H	40H		
									External	20H					
									6pin Hirose	Internal		A0H	60H		
									External	20H					
									H reset	Camera Link		Internal	A0H	50H	
									External	20H					
								6pin Hirose	Internal	A0H		70H			
								External	20H						
								Negative	Normal	Camera Link		Internal	F0H	A0H	40H
										External		20H			
										6pin Hirose		Internal		A0H	60H
									External	20H					
							H reset		Camera Link	Internal	A0H	50H			
							External		20H						
							6pin Hirose	Internal	A0H	70H					
							External	20H							
V-Reset	Positive	Normal	Camera Link	Internal			B1H	A0H	40H						
			External	20H											
			6pin Hirose	Internal				A0H	60H						
		External	20H												
		H reset	Camera Link	Internal				A0H	50H						
		External	20H												
	6pin Hirose	Internal	A0H	70H											
	External	20H													
	Negative	Normal	Camera Link	Internal	F1H	A0H	40H								
			External	20H											
			6pin Hirose	Internal		A0H	60H								
		External	20H												
H reset		Camera Link	Internal	A0H		50H									
External		20H													
6pin Hirose	Internal	A0H	70H												
External	20H														

mm. Trigger Mode (90 fps, Binning Partial Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values			
											10H	11H	12H	
8bit	Trigger	90fps	On	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	A0H	40H	
									6pin Hirose	External		20H		
										Internal		A0H	60H	
									External	20H				
								H reset	Camera Link	Internal		A0H	50H	
									6pin Hirose	Internal		A0H	70H	
									External	20H				
								Negative	Normal	Camera Link	Internal	D8H	A0H	40H
									6pin Hirose	External	20H			
									Internal	A0H	60H			
									External	20H				
							H reset	Camera Link	Internal	A0H	50H			
							6pin Hirose	Internal	A0H	70H				
								External	20H					
							V-Reset	Positive	Normal	Camera Link	99H	A0H	40H	
									6pin Hirose	External		20H		
									Internal	A0H		60H		
									External	20H				
						H reset	Camera Link	Internal	A0H	50H				
							6pin Hirose	Internal	A0H	70H				
								External	20H					
								Negative	Normal	Camera Link	D9H	A0H	40H	
									6pin Hirose	External		20H		
									Internal	A0H		60H		
								External	20H					
					H reset	Camera Link	Internal	A0H	50H					
						6pin Hirose	Internal	A0H	70H					
							External	20H						
						Pulse width	Non-Reset	Positive	Normal	B8H	A0H	40H		
								6pin Hirose	External		20H			
								Internal	A0H		60H			
								External	20H					
					H reset	Camera Link	Internal	A0H	50H					
						6pin Hirose	Internal	A0H	70H					
							External	20H						
							Negative	Normal	Camera Link		F8H	A0H	40H	
								6pin Hirose	External			20H		
								Internal	A0H			60H		
								External	20H					
					H reset	Camera Link	Internal	A0H	50H					
						6pin Hirose	Internal	A0H	70H					
							External	20H						
							V-Reset	Positive	Normal	B9H	A0H	40H		
								6pin Hirose	External		20H			
								Internal	A0H		60H			
								External	20H					
					H reset	Camera Link	Internal	A0H	50H					
						6pin Hirose	Internal	A0H	70H					
		External	20H											
		Negative	Normal	Camera Link	F9H	A0H	40H							
			6pin Hirose	External		20H								
			Internal	A0H		60H								
			External	20H										
H reset	Camera Link	Internal	A0H	50H										
	6pin Hirose	Internal	A0H	70H										
		External	20H											

nn. Trigger Mode (90 fps, Binning ½ Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values		
											10H	11H	12H
8bit	Trigger	90fps	On	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	A1H	40H
									External	21H			
									6pin Hirose	Internal		A1H	60H
								External	21H				
								H reset	Camera Link	Internal		A1H	50H
								External	21H				
							6pin Hirose	Internal	A1H	70H			
							External	21H					
							Negative	Normal	Camera Link	Internal	D8H	A1H	40H
									External	21H			
									6pin Hirose	Internal		A1H	60H
								External	21H				
						H reset		Camera Link	Internal	A1H		50H	
						External		21H					
						6pin Hirose	Internal	A1H	70H				
						External	21H						
						V-Reset	Positive	Normal	Camera Link	Internal	99H	A1H	40H
									External	21H			
									6pin Hirose	Internal		A1H	60H
								External	21H				
								H reset	Camera Link	Internal		A1H	50H
								External	21H				
							6pin Hirose	Internal	A1H	70H			
							External	21H					
					Negative		Normal	Camera Link	Internal	D9H	A1H	40H	
								External	21H				
								6pin Hirose	Internal		A1H	60H	
							External	21H					
						H reset	Camera Link	Internal	A1H		50H		
						External	21H						
					6pin Hirose	Internal	A1H	70H					
					External	21H							
					Pulse width	Non-Reset	Positive	Normal	Camera Link	Internal	B8H	A1H	40H
									External	21H			
									6pin Hirose	Internal		A1H	60H
								External	21H				
								H reset	Camera Link	Internal		A1H	50H
								External	21H				
							6pin Hirose	Internal	A1H	70H			
							External	21H					
							Negative	Normal	Camera Link	Internal	F8H	A1H	40H
									External	21H			
									6pin Hirose	Internal		A1H	60H
								External	21H				
						H reset		Camera Link	Internal	A1H		50H	
						External		21H					
						6pin Hirose	Internal	A1H	70H				
						External	21H						
V-Reset	Positive	Normal	Camera Link	Internal		B9H	A1H	40H					
			External	21H									
			6pin Hirose	Internal			A1H	60H					
		External	21H										
		H reset	Camera Link	Internal			A1H	50H					
		External	21H										
	6pin Hirose	Internal	A1H	70H									
	External	21H											
	Negative	Normal	Camera Link	Internal	F9H	A1H	40H						
			External	21H									
			6pin Hirose	Internal		A1H	60H						
		External	21H										
H reset		Camera Link	Internal	A1H		50H							
External		21H											
6pin Hirose	Internal	A1H	70H										
External	21H												

oo. Trigger Mode (90 fps, Binning ¼ Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
8bit	Trigger	90fps	On	1/4 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	A2H	40H			
									External	22H						
									6pin Hirose	Internal		A2H	60H			
									External	22H						
									H reset	Internal		A2H	50H			
								External	22H							
								6pin Hirose	Internal	A2H	70H					
								External	22H							
								Negative	Normal	Camera Link	Internal	D8H	A2H	40H		
										External	22H					
							6pin Hirose			Internal	A2H		60H			
							External			22H						
							H reset			Internal	A2H		50H			
							External		22H							
							6pin Hirose		Internal	A2H	70H					
							External		22H							
							V-Reset		Positive	Camera Link	Internal	99H	A2H	40H		
										External	22H					
								6pin Hirose		Internal	A2H		60H			
								External		22H						
								H reset		Internal	A2H		50H			
								External	22H							
								6pin Hirose	Internal	A2H	70H					
								External	22H							
								Negative	Normal	Camera Link	Internal	D9H	A2H	40H		
						External				22H						
						6pin Hirose	Internal			A2H	60H					
						External	22H									
						H reset	Internal			A2H	50H					
						External	22H									
						6pin Hirose	Internal		A2H	70H						
						External	22H									
						Pulse width	Non-Reset		Positive	Normal	Camera Link	Internal	B8H	A2H	40H	
											External	22H				
								6pin Hirose			Internal	A2H		60H		
								External			22H					
								H reset			Internal	A2H		50H		
								External		22H						
								6pin Hirose		Internal	A2H	70H				
								External		22H						
								Negative		Normal	Camera Link	Internal	F8H	A2H	40H	
											External	22H				
									6pin Hirose		Internal	A2H		60H		
									External		22H					
									H reset		Internal	A2H		50H		
									External	22H						
									6pin Hirose	Internal	A2H	70H				
									External	22H						
									V-Reset	Positive	Normal	Camera Link	Internal	B9H	A2H	40H
												External	22H			
					6pin Hirose			Internal				A2H	60H			
					External			22H								
					H reset			Internal				A2H	50H			
					External			22H								
					6pin Hirose			Internal			A2H	70H				
					External			22H								
					Negative			Normal			Camera Link	Internal	F9H	A2H	40H	
							External				22H					
							6pin Hirose			Internal	A2H	60H				
							External			22H						
							H reset			Internal	A2H	50H				
					External		22H									
					6pin Hirose		Internal	A2H		70H						
					External		22H									

pp. Trigger Mode (90 fps, Binning Variable Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values								
											10H	11H	12H						
8bit	Trigger	90fps	On	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	A7H	40H						
									External	27H									
									6pin Hirose	Internal		A7H	60H						
									External	27H									
									H reset	Camera Link		Internal	A7H	50H					
								External	27H										
								6pin Hirose	Internal	A7H		70H							
								External	27H										
								Negative	Normal	Camera Link		Internal	D8H	A7H	40H				
										External		27H							
							6pin Hirose			Internal	A7H	60H							
							External			27H									
							H reset			Camera Link	Internal	A7H		50H					
							External		27H										
							6pin Hirose		Internal	A7H	70H								
							External		27H										
							V-Reset		Positive	Normal	Camera Link	Internal		99H	A7H	40H			
											External	27H							
								6pin Hirose			Internal	A7H	60H						
								External			27H								
						H reset		Camera Link			Internal	A7H	50H						
						External		27H											
						6pin Hirose		Internal	A7H	70H									
						External		27H											
						Negative		Normal	Normal	Camera Link	Internal	D9H	A7H		40H				
										External	27H								
							6pin Hirose			Internal	A7H		60H						
							External			27H									
							H reset			Camera Link	Internal		A7H	50H					
							External	27H											
							6pin Hirose	Internal	A7H	70H									
							External	27H											
							Pulse width	Non-Reset	Positive	Normal	Camera Link		Internal	B8H	A7H	40H			
											External		27H						
						6pin Hirose					Internal	A7H	60H						
						External					27H								
						H reset					Camera Link	Internal	A7H		50H				
						External					27H								
						6pin Hirose					Internal	A7H	70H						
						External					27H								
						Negative					Normal	Normal	Camera Link		Internal	F8H	A7H	40H	
													External		27H				
										6pin Hirose			Internal		A7H		60H		
										External			27H						
										H reset			Camera Link		Internal		A7H	50H	
										External	27H								
										6pin Hirose	Internal	A7H	70H						
										External	27H								
										V-Reset	Positive	Normal	Camera Link		Internal		B9H	A7H	40H
													External		27H				
					6pin Hirose	Internal							A7H		60H				
					External	27H													
					H reset	Camera Link			Internal				A7H	50H					
					External	27H													
					6pin Hirose	Internal			A7H		70H								
					External	27H													
					Negative	Normal			Normal		Camera Link	Internal	F9H	A7H	40H				
											External	27H							
										6pin Hirose	Internal	A7H		60H					
										External	27H								
										H reset	Camera Link	Internal		A7H	50H				
						External			27H										
						6pin Hirose			Internal	A7H	70H								
						External			27H										

qq. Trigger Mode (60 fps, Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values				
											10H	11H	12H		
8bit	Trigger	60fps	Off	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	80H	80H	40H		
										External		00H			
									6pin Hirose	Internal	80H	60H			
										External	00H				
									H reset	Camera Link	Internal	80H	50H		
								External			00H				
								6pin Hirose		Internal	80H	70H			
								External	00H						
								Negative	Normal	Camera Link	Internal	C0H	80H	40H	
											External		00H		
							6pin Hirose			Internal	80H	60H			
										External	00H				
							H reset			Camera Link	Internal	80H	50H		
									External		00H				
									6pin Hirose	Internal	80H	70H			
							External		00H						
							V-Reset		Positive	Normal	Camera Link	81H	80H	40H	
													External		00H
								6pin Hirose			Internal	80H	60H		
											External	00H			
								H reset			Camera Link	Internal	80H	50H	
										External		00H			
										6pin Hirose	Internal	80H	70H		
								External		00H					
								Negative		Normal	Camera Link	C1H	80H	40H	
						External							00H		
						6pin Hirose			Internal		80H	60H			
									External		00H				
						H reset			Camera Link		Internal	80H	50H		
										External	00H				
									6pin Hirose	Internal	80H	70H			
						External			00H						
						Pulse width			Non-Reset	Positive	Normal	Camera Link	A0H	80H	40H
														External	
												6pin Hirose	Internal	80H	60H
													External	00H	
												H reset	Camera Link	Internal	80H
									External		00H				
									6pin Hirose		Internal		80H	70H	
								External	00H						
								V-Reset	Positive		Normal	Camera Link	A1H	80H	40H
							External							00H	
						6pin Hirose	Internal			80H		60H			
							External			00H					
						H reset	Camera Link			Internal		80H	50H		
										External	00H				
							6pin Hirose			Internal	80H	70H			
						External	00H								
						Negative	Normal			Camera Link	E1H	80H	40H		
												External		00H	
					6pin Hirose				Internal	80H	60H				
									External	00H					
					H reset				Camera Link	Internal	80H	50H			
						External	00H								
					6pin Hirose	Internal	80H		70H						
					External	00H									

rr. Trigger Mode (60 fps, Partial Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
8bit	Trigger	60fps	Off	Parital full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	80H	40H			
										External		00H				
									6pin Hirose	Internal	80H	60H				
										External	00H					
									H reset	Camera Link	Internal	80H	50H			
								External			00H					
								6pin Hirose		Internal	80H	70H				
										External	00H					
								Negative		Normal	Camera Link	Internal	C8H	80H	40H	
									External			00H				
							6pin Hirose		Internal		80H	60H				
									External		00H					
							H reset		Camera Link		Internal	80H	50H			
										External	00H					
									6pin Hirose	Internal	80H	70H				
										External	00H					
									V-Reset	Positive	Normal	Camera Link	Internal	89H	80H	40H
							External						00H			
							6pin Hirose	Internal				80H	60H			
								External				00H				
						H reset	Camera Link	Internal				80H	50H			
								External			00H					
							6pin Hirose	Internal			80H	70H				
								External			00H					
							Negative	Normal			Camera Link	Internal	C9H	80H	40H	
						External						00H				
						6pin Hirose				Internal	80H	60H				
										External	00H					
						H reset				Camera Link	Internal	80H	50H			
								External			00H					
								6pin Hirose		Internal	80H	70H				
										External	00H					
								Pulse width		Non-Reset	Positive	Normal	Camera Link	Internal	A8H	80H
						External								00H		
						6pin Hirose	Internal						80H	60H		
							External						00H			
						H reset	Camera Link		Internal				80H	50H		
									External			00H				
							6pin Hirose		Internal			80H	70H			
									External			00H				
							Negative		Normal			Camera Link	Internal	E8H	80H	40H
						External							00H			
						6pin Hirose					Internal	80H	60H			
											External	00H				
						H reset					Camera Link	Internal	80H	50H		
									External			00H				
									6pin Hirose		Internal	80H	70H			
											External	00H				
									V-Reset		Positive	Normal	Camera Link	Internal	A9H	80H
						External								00H		
					6pin Hirose	Internal	80H						60H			
						External	00H									
					H reset	Camera Link	Internal			80H			50H			
							External			00H						
						6pin Hirose	Internal			80H		70H				
							External			00H						
						Negative	Normal			Camera Link		Internal	E9H	80H	40H	
					External							00H				
					6pin Hirose					Internal		80H	60H			
										External		00H				
					H reset					Camera Link		Internal	80H	50H		
							External					00H				
							6pin Hirose			Internal		80H	70H			
										External	00H					

ss. Trigger Mode (60 fps, 1/2 Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values			
											10H	11H	12H	
8bit	Trigger	60fps	Off	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	81H	40H	
										External		01H		
									6pin Hirose	Internal		81H	60H	
										External		01H		
									H reset	Camera Link		Internal	81H	50H
								External		01H				
								6pin Hirose		Internal		81H	70H	
								External		01H				
								External		01H				
								Negative	Normal	Camera Link		Internal	C8H	81H
							External				01H			
							6pin Hirose			Internal	81H	60H		
										External	01H			
							H reset			Camera Link	Internal	81H		50H
									External	01H				
									6pin Hirose	Internal	81H	70H		
									External	01H				
									External	01H				
							V-Reset		Positive	Normal	Camera Link	89H		81H
								External					01H	
						6pin Hirose		Internal			81H		60H	
								External			01H			
						H reset		Camera Link			Internal		81H	50H
								External		01H				
								6pin Hirose		Internal	81H		70H	
								External		01H				
								External		01H				
						Negative		Normal		Camera Link	Internal		C9H	81H
									External		01H			
									6pin Hirose	Internal	81H	60H		
										External	01H			
									H reset	Camera Link	Internal	81H		50H
								External		01H				
								6pin Hirose		Internal	81H	70H		
								External		01H				
								External		01H				
								Pulse width	Non-Reset	Positive	Normal	A8H		81H
						External							01H	
						6pin Hirose	Internal						81H	60H
							External						01H	
						H reset	Camera Link						Internal	81H
							External				01H			
							6pin Hirose				Internal		81H	70H
							External				01H			
							External				01H			
						Negative	Normal				Camera Link		Internal	E8H
									External	01H				
									6pin Hirose	Internal	81H	60H		
										External	01H			
									H reset	Camera Link	Internal	81H	50H	
							External			01H				
							6pin Hirose			Internal	81H	70H		
							External			01H				
							External			01H				
							V-Reset		Positive	Normal	Camera Link	A9H	81H	
						External							01H	
						6pin Hirose		Internal			81H		60H	
								External			01H			
						H reset		Camera Link			Internal		81H	50H
								External	01H					
								6pin Hirose	Internal	81H	70H			
								External	01H					
								External	01H					
						Negative		Normal	Camera Link	Internal	E9H		81H	40H
							External			01H				
							6pin Hirose		Internal	81H		60H		
									External	01H				
							H reset		Camera Link	Internal		81H	50H	
						External		01H						
						6pin Hirose		Internal	81H	70H				
						External		01H						
						External		01H						

tt. Trigger Mode (60 fps, ¼ Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values			
											10H	11H	12H	
8bit	Trigger	60fps	Off	1/4 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	82H	40H	
										External		02H	60H	
										6pin Hirose		Internal		82H
									External			02H		
									H reset			Camera Link	Internal	82H
										6pin Hirose		External	02H	
								Internal			82H	70H		
								External	02H	C8H	82H	40H		
								6pin Hirose	Internal		02H			
									External		82H	60H		
									Internal		02H			
								H reset	Camera Link		Internal	82H	50H	
							6pin Hirose		External		02H			
									Internal	82H	70H			
							External	02H	89H	82H	40H			
							6pin Hirose	Internal		02H				
								External		82H	60H			
								Internal		02H				
							H reset	Camera Link		Internal	82H	50H		
								6pin Hirose		External	02H			
										Internal	82H	70H		
							External	02H		C9H	82H	40H		
							6pin Hirose	Internal			02H			
								External			82H	60H		
						Internal		02H						
						H reset	Camera Link	Internal			82H	50H		
							6pin Hirose	External	02H					
								Internal	82H	70H				
						External	02H	A8H	82H	40H				
						6pin Hirose	Internal		02H					
							External		82H	60H				
							Internal		02H					
						H reset	Camera Link		Internal	82H	50H			
							6pin Hirose		External	02H				
									Internal	82H	70H			
						External	02H		E8H	82H	40H			
						6pin Hirose	Internal			02H				
							External			82H	60H			
							Internal			02H				
						H reset	Camera Link			Internal	82H	50H		
							6pin Hirose	External		02H				
								Internal	82H	70H				
						External	02H	A9H	82H	40H				
						6pin Hirose	Internal		02H					
							External		82H	60H				
							Internal		02H					
						H reset	Camera Link		Internal	82H	50H			
							6pin Hirose		External	02H				
Internal	82H	70H												
External	02H	E9H	82H	40H										
6pin Hirose	Internal		02H											
	External		82H	60H										
	Internal		02H											
H reset	Camera Link		Internal	82H	50H									
	6pin Hirose		External	02H										
		Internal	82H	70H										
External	02H													
Pulse width						Non-Reset	Positive	Normal	Camera Link	Internal	A8H	82H	40H	
										External		02H	60H	
										6pin Hirose		Internal		82H
								External	02H					
								H reset	Camera Link			Internal	82H	50H
									6pin Hirose	External		02H		
							Internal			82H	70H			
							External	02H	E8H	82H	40H			
							6pin Hirose	Internal		02H				
								External		82H	60H			
								Internal		02H				
							H reset	Camera Link		Internal	82H	50H		
						6pin Hirose		External		02H				
								Internal	82H	70H				
						External	02H	A9H	82H	40H				
						6pin Hirose	Internal		02H					
							External		82H	60H				
							Internal		02H					
						H reset	Camera Link		Internal	82H	50H			
							6pin Hirose		External	02H				
									Internal	82H	70H			
						External	02H		E9H	82H	40H			
						6pin Hirose	Internal			02H				
							External			82H	60H			
Internal	02H													
H reset	Camera Link	Internal	82H	50H										
	6pin Hirose	External	02H											
		Internal	82H	70H										
External	02H													

uu. Trigger Mode (60 fps, Variable Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values					
											10H	11H	12H			
8bit	Trigger	60fps	Off	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	87H	40H			
									External	07H						
									6pin Hirose	Internal		87H		60H		
								External	07H							
								H reset	Camera Link	Internal		87H	50H			
								External	07H							
							6pin Hirose	Internal	87H	70H						
							External	07H								
							Negative	Normal	Camera Link		Internal	C8H	87H	40H		
									External	07H						
									6pin Hirose	Internal	87H		60H			
								External	07H							
						H reset		Camera Link	Internal	87H	50H					
						External		07H								
						6pin Hirose	Internal	87H	70H							
						External	07H									
						V-Reset	Positive	Normal		Camera Link	Internal	89H	87H	40H		
									External	07H						
									6pin Hirose	Internal	87H		60H			
								External	07H							
								H reset	Camera Link	Internal	87H			50H		
								External	07H							
							6pin Hirose	Internal	87H	70H						
							External	07H								
					Negative		Normal	Camera Link	Internal		C9H	87H	40H			
								External	07H							
								6pin Hirose	Internal	87H		60H				
							External	07H								
						H reset	Camera Link	Internal	87H	50H						
						External	07H									
					6pin Hirose	Internal	87H	70H								
					External	07H										
					Pulse width	Non-Reset	Positive		Normal	Camera Link	Internal	A8H	87H	40H		
								External		07H						
								6pin Hirose		Internal	87H		60H			
								External		07H						
								H reset		Camera Link	Internal			87H	50H	
								External		07H						
								6pin Hirose		Internal	87H		70H			
								External		07H						
								Negative		Normal	Camera Link			Internal	E8H	87H
											External		07H			
											6pin Hirose		Internal	87H		60H
										External	07H					
									H reset	Camera Link	Internal	87H	50H			
									External	07H						
								6pin Hirose	Internal	87H	70H					
								External	07H							
V-Reset	Positive	Normal	Camera Link	Internal				A9H	87H	40H						
			External	07H												
			6pin Hirose	Internal					87H		60H					
		External	07H													
		H reset	Camera Link	Internal					87H	50H						
		External	07H													
	6pin Hirose	Internal	87H	70H												
	External	07H														
	Negative	Normal	Camera Link		Internal	E9H	87H	40H								
			External	07H												
			6pin Hirose	Internal	87H		60H									
		External	07H													
H reset		Camera Link	Internal	87H	50H											
External		07H														
6pin Hirose	Internal	87H	70H													
External	07H															

vv. Trigger Mode (60 fps, Binning Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Rest mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values				
											10H	11H	12H		
8bit	Trigger	60fps	On	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	90H	80H	40H		
										External		00H			
										6pin Hirose		Internal	80H	60H	
									External			00H			
									H reset			Camera Link	Internal	80H	50H
										External		00H			
								6pin Hirose		Internal	80H	70H			
								External	00H						
								Negative	Normal	Camera Link	Internal	D0H	80H	40H	
											External		00H		
										6pin Hirose	Internal		80H	60H	
									External	00H					
							H reset		Camera Link	Internal	80H		50H		
									External	00H					
								6pin Hirose	Internal	80H	70H				
							External	00H							
							V-Reset	Positive	Normal	Camera Link	Internal	91H	80H	40H	
											External		00H		
											6pin Hirose		Internal	80H	60H
										External	00H				
										H reset	Camera Link		Internal	80H	50H
											External		00H		
									6pin Hirose		Internal	80H	70H		
									External	00H					
						Negative			Normal	Camera Link	Internal	D1H	80H	40H	
											External		00H		
										6pin Hirose	Internal		80H	60H	
									External	00H					
								H reset	Camera Link	Internal	80H		50H		
									External	00H					
						6pin Hirose			Internal	80H	70H				
						External		00H							
						Pulse width		Non-Reset	Positive	Normal	Camera Link	B0H	80H	40H	
													External	00H	
													6pin Hirose	Internal	80H
										External	00H				
										H reset	Camera Link		Internal	80H	50H
											External		00H		
									6pin Hirose		Internal	80H	70H		
									External	00H					
							Negative		Normal	Camera Link	Internal	F0H	80H	40H	
											External		00H		
										6pin Hirose	Internal		80H	60H	
									External	00H					
								H reset	Camera Link	Internal	80H		50H		
									External	00H					
							6pin Hirose		Internal	80H	70H				
							External	00H							
V-Reset	Positive	Normal	Camera Link	B1H	80H		40H								
					External		00H								
					6pin Hirose		Internal	80H	60H						
		External	00H												
		H reset	Camera Link		Internal		80H	50H							
			External		00H										
	6pin Hirose		Internal	80H	70H										
	External	00H													
	Negative	Normal	Camera Link	Internal	F1H	80H	40H								
				External		00H									
			6pin Hirose	Internal		80H	60H								
		External	00H												
H reset		Camera Link	Internal	80H		50H									
		External	00H												
	6pin Hirose	Internal	80H	70H											
External	00H														

ww. Trigger Mode (60 fps, Binning Partial Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Rest mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values						
											10H	11H	12H				
8bit	Trigger	60fps	On	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	80H	40H				
										External		00H					
									6pin Hirose	Internal		80H	60H				
								External		00H							
								H reset	Camera Link	Internal		80H	50H				
									6pin Hirose	Internal		80H	70H				
							External			00H							
							Negative	Normal	Camera Link	Internal	D8H	80H	40H				
										External		00H					
									6pin Hirose	Internal		80H	60H				
								External		00H							
								H reset	Camera Link	Internal		80H	50H				
						6pin Hirose			Internal	80H		70H					
							External		00H								
						V-Reset	Positive	Normal	Camera Link	99H	80H	40H					
											External	00H					
									6pin Hirose		Internal	80H	60H				
								External			00H						
								H reset	Camera Link		Internal	80H	50H				
									6pin Hirose		Internal	80H	70H				
							External			00H							
							Negative	Normal	Camera Link	Internal	D9H	80H	40H				
										External		00H					
									6pin Hirose	Internal		80H	60H				
					External			00H									
					H reset			Camera Link	Internal	80H		50H					
						6pin Hirose		Internal	80H	70H							
							External	00H									
					Pulse width					Non-Reset	Positive	Normal	Camera Link	Internal	B8H	80H	40H
														External		00H	
													6pin Hirose	Internal		80H	60H
												External		00H			
												H reset	Camera Link	Internal		80H	50H
													6pin Hirose	Internal		80H	70H
											External			00H			
											Negative	Normal	Camera Link	Internal	F8H	80H	40H
														External		00H	
													6pin Hirose	Internal		80H	60H
												External		00H			
												H reset	Camera Link	Internal		80H	50H
										6pin Hirose			Internal	80H		70H	
											External		00H				
										V-Reset	Positive	Normal	Camera Link	B9H	80H	40H	
															External	00H	
													6pin Hirose		Internal	80H	60H
												External			00H		
												H reset	Camera Link		Internal	80H	50H
													6pin Hirose		Internal	80H	70H
External	00H																
Negative	Normal	Camera Link	Internal	F9H							80H	40H					
			External								00H						
		6pin Hirose	Internal								80H	60H					
	External		00H														
	H reset	Camera Link	Internal		80H	50H											
		6pin Hirose	Internal		80H	70H											
External			00H														

xx. Trigger Mode (60 fps, Binning ½ Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Rest mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values						
											10H	11H	12H				
8bit	Trigger	60fps	On	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	81H	40H				
										External		01H					
									6pin Hirose	Internal		81H	60H				
										External		01H					
									H reset	Internal		81H	50H				
									External	01H							
								6pin Hirose	Internal	81H	70H						
									External	01H							
								Negative	Normal	Camera Link	Internal	D8H	81H	40H			
											External		01H				
							6pin Hirose			Internal	81H		60H				
										External	01H						
							H reset			Internal	81H		50H				
									External	01H							
							6pin Hirose		Internal	81H	70H						
									External	01H							
							V-Reset		Positive	Normal	Camera Link		Internal	99H	81H	40H	
													External		01H		
								6pin Hirose			Internal	81H	60H				
											External	01H					
								H reset			Internal	81H	50H				
									External	01H							
								6pin Hirose	Internal	81H	70H						
									External	01H							
								Negative	Normal	Normal	Camera Link	Internal	D9H		81H	40H	
											External	01H					
						6pin Hirose	Internal				81H	60H					
							External				01H						
						H reset	Internal				81H	50H					
							External		01H								
						6pin Hirose	Internal		81H	70H							
							External		01H								
						Pulse width	Non-Reset		Positive	Normal	Camera Link	Internal		B8H	81H	40H	
												External			01H		
								6pin Hirose			Internal	81H	60H				
											External	01H					
								H reset			Internal	81H	50H				
										External	01H						
								6pin Hirose		Internal	81H	70H					
										External	01H						
								Negative		Normal	Normal	Camera Link	Internal		F8H	81H	40H
													External			01H	
									6pin Hirose			Internal	81H	60H			
												External	01H				
									H reset			Internal	81H	50H			
										External	01H						
									6pin Hirose	Internal	81H	70H					
										External	01H						
									V-Reset	Positive	Normal	Camera Link	Internal	B9H		81H	40H
													External			01H	
					6pin Hirose			Internal				81H	60H				
								External				01H					
					H reset			Internal				81H	50H				
								External			01H						
					6pin Hirose			Internal			81H	70H					
								External			01H						
					Negative			Normal			Normal	Camera Link	Internal		F9H	81H	40H
												External	01H				
							6pin Hirose			Internal		81H	60H				
										External		01H					
							H reset			Internal		81H	50H				
							External	01H									
					6pin Hirose		Internal	81H		70H							
							External	01H									

yy. Trigger Mode (60 fps, Binning ¼ Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Rest mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values				
											10H	11H	12H		
8bit	Trigger	60fps	On	1/4 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	82H	40H		
										External		02H			
									6pin Hirose	Internal	82H	60H			
										External	02H				
									H reset	Camera Link	Internal	82H	50H		
								6pin Hirose		Internal	82H	70H			
										External	02H				
								Negative	Normal	Camera Link	Internal	D8H	82H	40H	
											External		02H		
										6pin Hirose	Internal	82H	60H		
							External				02H				
							H reset			Camera Link	Internal	82H	50H		
									6pin Hirose	Internal	82H	70H			
										External	02H				
							V-Reset		Positive	Normal	Camera Link	Internal	99H	82H	40H
												External		02H	
											6pin Hirose	Internal	82H	60H	
								External				02H			
								H reset			Camera Link	Internal	82H	50H	
										6pin Hirose	Internal	82H	70H		
											External	02H			
								Negative		Normal	Camera Link	Internal	D9H	82H	40H
												External		02H	
											6pin Hirose	Internal	82H	60H	
									External			02H			
						H reset			Camera Link		Internal	82H	50H		
									6pin Hirose	Internal	82H	70H			
										External	02H				
						Pulse width			Non-Reset	Positive	Camera Link	Internal	B8H	82H	40H
												External		02H	
											6pin Hirose	Internal	82H	60H	
								External				02H			
								H reset			Camera Link	Internal	82H	50H	
										6pin Hirose	Internal	82H	70H		
											External	02H			
								Negative		Normal	Camera Link	Internal	F8H	82H	40H
												External		02H	
										6pin Hirose	Internal	82H	60H		
									External		02H				
							H reset		Camera Link	Internal	82H	50H			
								6pin Hirose	Internal	82H	70H				
									External	02H					
							V-Reset	Positive	Camera Link	Internal	B9H	82H	40H		
						External				02H					
						6pin Hirose			Internal	82H	60H				
									External	02H					
						H reset			Camera Link	Internal	82H	50H			
								6pin Hirose	Internal	82H	70H				
									External	02H					
						Negative		Normal	Camera Link	Internal	F9H	82H	40H		
					External					02H					
					6pin Hirose			Internal	82H	60H					
							External	02H							
					H reset		Camera Link	Internal	82H	50H					
						6pin Hirose	Internal	82H	70H						
							External	02H							

zz. Trigger Mode (60 fps, Binning Variable Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Rest mode	Trigger polarity	Exposure start mode	Trigger signal input connector	Sync system	Values						
											10H	11H	12H				
8bit	Trigger	60fps	On	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	87H	40H				
										External		07H	60H				
									6pin Hirose	Internal		87H					
										External		07H					
										External		07H					
								H reset	Camera Link	Internal		87H		50H			
										External		07H					
									6pin Hirose	Internal		87H	70H				
										External		07H					
										External		07H					
							Negative	Normal	Camera Link	Internal	D8H	87H	40H				
										External		07H					
									6pin Hirose	Internal		87H	60H				
										External		07H					
										External		07H					
								H reset	Camera Link	Internal		87H	50H				
										External		07H					
									6pin Hirose	Internal		87H	70H				
										External		07H					
										External		07H					
							V-Reset	Positive	Normal	Camera Link	99H	87H	40H				
												External	07H				
										6pin Hirose		Internal	87H	60H			
												External	07H				
												External	07H				
						H reset			Camera Link	Internal		87H	50H				
										External		07H					
									6pin Hirose	Internal		87H	70H				
										External		07H					
										External		07H					
						Negative		Normal	Camera Link	Internal	D9H	87H	40H				
										External		07H					
									6pin Hirose	Internal		87H	60H				
										External		07H					
										External		07H					
								H reset	Camera Link	Internal		87H	50H				
										External		07H					
									6pin Hirose	Internal		87H	70H				
										External		07H					
										External		07H					
								Pulse width	Non-Reset	Positive		Normal	B8H	87H	40H		
														External	07H		
														6pin Hirose	Internal	87H	60H
															External	07H	
															External	07H	
						H reset	Camera Link				Internal	87H		50H			
											External	07H					
							6pin Hirose				Internal	87H		70H			
											External	07H					
											External	07H					
					Negative	Normal	Camera Link			Internal	F8H	87H	40H				
										External		07H					
							6pin Hirose			Internal		87H	60H				
										External		07H					
										External		07H					
						H reset	Camera Link			Internal		87H	50H				
										External		07H					
							6pin Hirose			Internal		87H	70H				
										External		07H					
										External		07H					
						V-Reset	Positive			Normal		Camera Link	B9H	87H	40H		
														External	07H		
												6pin Hirose		Internal	87H	60H	
														External	07H		
														External	07H		
					H reset				Camera Link	Internal	87H	50H					
										External	07H						
									6pin Hirose	Internal	87H	70H					
										External	07H						
										External	07H						
					Negative		Normal		Camera Link	Internal	F9H	87H	40H				
										External		07H					
									6pin Hirose	Internal		87H	60H				
										External		07H					
										External		07H					
							H reset		Camera Link	Internal		87H	50H				
										External		07H					
									6pin Hirose	Internal		87H	70H				
										External		07H					
										External		07H					

aaa. Trigger Mode (30fps, Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input mode	Sync system	Values						
											10H	11H	12H				
8bit	Trigger	30fps	Off	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	80H	COH	40H				
									External	COH							
									6pin Hirose	Internal		COH		60H			
								External	COH								
								H reset	Camera Link	Internal		COH	50H				
								External	COH								
							6pin Hirose	Internal	COH	70H							
							External	COH									
							Negative	Normal	Camera Link		Internal	C0H	COH	40H			
									External	COH							
									6pin Hirose	Internal	COH		60H				
								External	COH								
						H reset		Camera Link	Internal	COH	50H						
						External		COH									
						6pin Hirose	Internal	COH	70H								
						External	COH										
						V-Reset	Positive	Normal		Camera Link	Internal	81H	COH	40H			
									External	COH							
									6pin Hirose	Internal	COH		60H				
								External	COH								
								H reset	Camera Link	Internal	COH			50H			
								External	COH								
							6pin Hirose	Internal	COH	70H							
							External	COH									
					Negative		Normal	Camera Link	Internal		C1H	COH	40H				
								External	COH								
								6pin Hirose	Internal	COH		60H					
							External	COH									
						H reset	Camera Link	Internal	COH	50H							
						External	COH										
					6pin Hirose	Internal	COH	70H									
					External	COH											
					Pulse width						Non-Reset	Positive	Normal	Camera Link	Internal	A0H	COH
								External						COH			
								6pin Hirose						Internal	COH		60H
								External					COH				
								H reset					Camera Link	Internal	COH		
								External					COH				
								6pin Hirose				Internal	COH	70H			
								External				COH					
								Negative				Normal	Camera Link		Internal	E0H	COH
													External	COH			
													6pin Hirose	Internal	COH		60H
												External	COH				
											H reset	Camera Link	Internal	COH	50H		
											External	COH					
								6pin Hirose			Internal	COH	70H				
								External			COH						
V-Reset	Positive	Normal	Camera Link	Internal				A1H			COH	40H					
			External	COH													
			6pin Hirose	Internal							COH		60H				
		External	COH														
		H reset	Camera Link	Internal							COH	50H					
		External	COH														
	6pin Hirose	Internal	COH	70H													
	External	COH															
	Negative	Normal	Camera Link		Internal	E1H	COH	40H									
			External	COH													
			6pin Hirose	Internal	COH		60H										
		External	COH														
H reset		Camera Link	Internal	COH	50H												
External		COH															
6pin Hirose	Internal	COH	70H														
External	COH																

bbb. Trigger Mode (30fps, Partial Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input mode	Sync system	Values			
											10H	11H	12H	
8bit	Trigger	30fps	Off	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	C0H	40H	
									External	40H				
									6pin Hirose	Internal		C0H		60H
								External	40H					
								H reset	Camera Link	Internal		C0H		
								External	40H					
							6pin Hirose	Internal	C0H	70H				
							External	40H						
							Negative	Normal	Camera Link		Internal	C8H	C0H	40H
									External	40H				
									6pin Hirose	Internal	C0H		60H	
								External	40H					
						H reset		Camera Link	Internal	C0H	50H			
						External		40H						
						6pin Hirose	Internal	C0H	70H					
						External	40H							
						V-Reset	Positive	Normal		Camera Link	Internal	89H	C0H	40H
									External	40H				
									6pin Hirose	Internal	C0H		60H	
								External	40H					
								H reset	Camera Link	Internal	C0H			
								External	40H					
							6pin Hirose	Internal	C0H	70H				
							External	40H						
					Negative		Normal	Camera Link	Internal		C9H	C0H	40H	
								External	40H					
								6pin Hirose	Internal	C0H		60H		
							External	40H						
						H reset	Camera Link	Internal	C0H	50H				
						External	40H							
					6pin Hirose	Internal	C0H	70H						
					External	40H								
					Pulse width	Non-Reset	Positive		Normal	Camera Link	Internal	A8H	C0H	40H
								External		40H				
								6pin Hirose		Internal	C0H		60H	
								External	40H					
								H reset	Camera Link	Internal	C0H			
								External	40H					
							6pin Hirose	Internal	C0H	70H				
							External	40H						
							Negative	Normal	Camera Link		Internal	E8H	C0H	40H
									External	40H				
									6pin Hirose	Internal	C0H		60H	
								External	40H					
						H reset		Camera Link	Internal	C0H	50H			
						External		40H						
						6pin Hirose	Internal	C0H	70H					
						External	40H							
V-Reset	Positive	Normal	Camera Link	Internal		A9H	C0H	40H						
			External	40H										
			6pin Hirose	Internal			C0H		60H					
		External	40H											
		H reset	Camera Link	Internal			C0H			50H				
		External	40H											
	6pin Hirose	Internal	C0H	70H										
	External	40H												
	Negative	Normal	Camera Link		Internal	E9H	C0H	40H						
			External	40H										
			6pin Hirose	Internal	C0H		60H							
		External	40H											
H reset		Camera Link	Internal	C0H	50H									
External		40H												
6pin Hirose	Internal	C0H	70H											
External	40H													

ccc. Trigger Mode (30fps, 1/2 Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input mode	Sync system	Values			
											10H	11H	12H	
8bit	Trigger	30fps	Off	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	C1H	40H	
										External		41H		
										6pin Hirose		Internal		C1H
									External			41H		
									H reset			Internal	C1H	50H
										External		41H		
								6pin Hirose		Internal	C1H	70H		
									External	41H				
									Negative	Normal	Camera Link		Internal	C8H
								External				41H		
								6pin Hirose				Internal	C1H	
										External	41H			
							H reset			Camera Link	Internal	C1H	50H	
								External			41H			
								6pin Hirose	Camera Link		Internal	C1H		70H
							External			41H				
							V-Reset			Positive	Normal	Camera Link	Internal	
								External	41H					
								6pin Hirose	Camera Link				Internal	C1H
										External	41H			
										H reset	Camera Link	Internal	C1H	50H
								External	41H					
							6pin Hirose	Camera Link	Internal			C1H	70H	
									External	41H				
						Negative			Normal	Camera Link	Internal	C9H		C1H
							External	41H						
							6pin Hirose	Camera Link			Internal		C1H	60H
									External	41H				
									H reset	Camera Link	Internal		C1H	
							External	41H						
						6pin Hirose	Camera Link	Internal			C1H	70H		
								External	41H					
								External	41H					
						6pin Hirose	Camera Link	Internal	C1H	60H				
								External	41H					
								H reset	Camera Link		Internal	C1H	50H	
						External	41H							
						6pin Hirose	Camera Link			Internal	C1H	70H		
								External	41H					
								Negative	Normal	Camera Link	Internal		E8H	C1H
						External	41H							
						6pin Hirose	Camera Link				Internal	C1H		60H
									External	41H				
									H reset	Camera Link	Internal	C1H		
						External	41H							
						6pin Hirose	Camera Link	Internal			C1H	70H		
								External	41H					
								External	41H					
6pin Hirose	Camera Link	Internal	C1H	60H										
		External	41H											
		H reset	Camera Link		Internal	C1H	50H							
External	41H													
6pin Hirose	Camera Link			Internal	C1H	70H								
		External	41H											
		Negative	Normal	Camera Link	Internal		E9H	C1H	40H					
External	41H													
6pin Hirose	Camera Link				Internal	C1H		60H						
			External	41H										
			H reset	Camera Link	Internal	C1H			50H					
External	41H													
6pin Hirose	Camera Link	Internal			C1H	70H								
		External	41H											

ddd. Trigger Mode (30fps, ¼ Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input mode	Sync system	Values						
											10H	11H	12H				
8bit	Trigger	30fps	Off	1/4 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	C2H	40H				
									External	42H							
									6pin Hirose	Internal		C2H	60H				
								External	42H								
								H reset	Camera Link	Internal		C2H	50H				
								External	42H								
							6pin Hirose	Internal	C2H	70H							
							External	42H									
							Negative	Normal	Camera Link	Internal	C8H	C2H	40H				
									External	42H							
									6pin Hirose	Internal		C2H	60H				
								External	42H								
						H reset		Camera Link	Internal	C2H		50H					
						External		42H									
						6pin Hirose	Internal	C2H	70H								
						External	42H										
						V-Reset	Positive	Normal	Camera Link	Internal	89H	C2H	40H				
									External	42H							
									6pin Hirose	Internal		C2H	60H				
								External	42H								
								H reset	Camera Link	Internal		C2H	50H				
								External	42H								
							6pin Hirose	Internal	C2H	70H							
							External	42H									
					Negative		Normal	Camera Link	Internal	C9H	C2H	40H					
								External	42H								
								6pin Hirose	Internal		C2H	60H					
							External	42H									
						H reset	Camera Link	Internal	C2H		50H						
						External	42H										
					6pin Hirose	Internal	C2H	70H									
					External	42H											
					Pulse width					Non-Reset	Positive	Normal	Camera Link	Internal	A8H	C2H	40H
													External	42H			
													6pin Hirose	Internal		C2H	60H
												External	42H				
												H reset	Camera Link	Internal		C2H	50H
												External	42H				
											6pin Hirose	Internal	C2H	70H			
											External	42H					
											Negative	Normal	Camera Link	Internal	E8H	C2H	40H
													External	42H			
													6pin Hirose	Internal		C2H	60H
												External	42H				
										H reset		Camera Link	Internal	C2H		50H	
										External		42H					
										6pin Hirose	Internal	C2H	70H				
										External	42H						
V-Reset	Positive	Normal	Camera Link	Internal						A9H	C2H	40H					
			External	42H													
			6pin Hirose	Internal							C2H	60H					
		External	42H														
		H reset	Camera Link	Internal							C2H	50H					
		External	42H														
	6pin Hirose	Internal	C2H	70H													
	External	42H															
	Negative	Normal	Camera Link	Internal	E9H	C2H	40H										
			External	42H													
			6pin Hirose	Internal		C2H	60H										
		External	42H														
H reset		Camera Link	Internal	C2H		50H											
External		42H															
6pin Hirose	Internal	C2H	70H														
External	42H																

eee. Trigger Mode (30fps, Variable Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input mode	Sync system	Values										
											10H	11H	12H								
8bit	Trigger	30fps	Off	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	88H	C7H	40H								
										External		47H									
									6pin Hirose	Internal		C7H	60H								
										External		47H									
									H reset	Camera Link		Internal	C7H	50H							
									External	47H											
								6pin Hirose	Internal	C7H		70H									
									External	47H											
								Negative	Normal	Camera Link		Internal	C8H	C7H	40H						
												External		47H							
							6pin Hirose			Internal	C7H	60H									
										External	47H										
							H reset			Camera Link	Internal	C7H		50H							
									External	47H											
							6pin Hirose		Internal	C7H	70H										
									External	47H											
							V-Reset		Positive	Normal	Camera Link	Internal		89H	C7H	40H					
												External			47H						
								6pin Hirose			Internal	C7H	60H								
											External	47H									
						H reset		Camera Link			Internal	C7H	50H								
								External	47H												
						6pin Hirose		Internal	C7H	70H											
								External	47H												
						Negative		Normal	Normal	Camera Link	Internal	C9H	C7H		40H						
											External		47H								
							6pin Hirose			Internal	C7H		60H								
										External	47H										
							H reset			Camera Link	Internal		C7H	50H							
								External	47H												
							6pin Hirose	Internal	C7H	70H											
								External	47H												
							Pulse width						Non-Reset	Positive	Normal	Camera Link	Internal	A8H	C7H	40H	
																	External		47H		
						6pin Hirose						Internal				C7H	60H				
												External				47H					
						H reset						Camera Link				Internal	C7H		50H		
												External			47H						
						6pin Hirose						Internal			C7H	70H					
												External			47H						
						Negative						Normal			Normal	Camera Link	Internal		E8H	C7H	40H
																	External			47H	
														6pin Hirose		Internal	C7H	60H			
																External	47H				
														H reset		Camera Link	Internal	C7H		50H	
														External	47H						
												6pin Hirose		Internal	C7H	70H					
														External	47H						
												V-Reset		Positive	Normal	Camera Link	Internal	A9H		C7H	40H
																	External			47H	
					6pin Hirose											Internal	C7H			60H	
																External	47H				
					H reset											Camera Link	Internal			C7H	50H
														External	47H						
					6pin Hirose									Internal	C7H	70H					
						External								47H							
					Negative	Normal								Normal	Camera Link	Internal	E9H		C7H	40H	
															External	47H					
												6pin Hirose	Internal		C7H	60H					
													External		47H						
												H reset	Camera Link		Internal	C7H		50H			
						External						47H									
					6pin Hirose	Internal						C7H	70H								
						External						47H									

fff. Trigger Mode (30fps, Binning Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input mode	Sync system	Values								
											10H	11H	12H						
8bit	Trigger	30fps	On	Full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	90H	COH	40H						
										External		40H							
									6pin Hirose	Internal		COH	60H						
										External		40H							
									H reset	Camera Link		Internal	COH	50H					
									External	40H									
								6pin Hirose	Internal	COH		70H							
									External	40H									
								Negative	Normal	Camera Link		Internal	D0H	COH	40H				
												External		40H					
							6pin Hirose			Internal	COH	60H							
										External	40H								
							H reset			Camera Link	Internal	COH		50H					
									External	40H									
							6pin Hirose		Internal	COH	70H								
									External	40H									
							V-Reset		Positive	Normal	Camera Link	Internal		91H	COH	40H			
												External			40H				
								6pin Hirose			Internal	COH	60H						
											External	40H							
						H reset		Camera Link			Internal	COH	50H						
								External	40H										
						6pin Hirose		Internal	COH	70H									
								External	40H										
						Negative		Normal	Normal	Camera Link	Internal	D1H	COH		40H				
											External		40H						
							6pin Hirose			Internal	COH		60H						
										External	40H								
							H reset			Camera Link	Internal		COH	50H					
								External	40H										
							6pin Hirose	Internal	COH	70H									
								External	40H										
							Pulse width	Non-Reset	Positive	Normal	Camera Link		Internal	B0H	COH	40H			
													External		40H				
						6pin Hirose					Internal	COH	60H						
											External	40H							
						H reset					Camera Link	Internal	COH		50H				
											External	40H							
						6pin Hirose					Internal	COH	70H						
											External	40H							
						Negative					Normal	Normal	Camera Link		Internal	F0H	COH	40H	
															External		40H		
										6pin Hirose			Internal		COH		60H		
													External		40H				
										H reset			Camera Link		Internal		COH	50H	
											External	40H							
										6pin Hirose	Internal	COH	70H						
											External	40H							
										V-Reset	Positive	Normal	Camera Link		Internal		B1H	COH	40H
															External			40H	
					6pin Hirose	Internal							COH		60H				
						External							40H						
					H reset	Camera Link			Internal				COH	50H					
						External			40H										
					6pin Hirose	Internal			COH		70H								
						External			40H										
					Negative	Normal			Normal		Camera Link	Internal	F1H	COH	40H				
												External		40H					
										6pin Hirose	Internal	COH		60H					
											External	40H							
										H reset	Camera Link	Internal		COH	50H				
									External	40H									
						6pin Hirose			Internal	COH	70H								
									External	40H									

ggg. Trigger Mode (30fps, Binning Partial Full Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input mode	Sync system	Values						
											10H	11H	12H				
8bit	Trigger	30fps	On	Partial full scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	COH	40H				
										External		40H					
										6pin Hirose		Internal		COH	60H		
									External			40H					
									H reset			Camera Link		Internal		COH	50H
										External		40H					
								6pin Hirose		Internal	COH	70H					
									External	40H							
									Negative	Normal	Camera Link		Internal	D8H	COH	40H	
								External				40H					
								6pin Hirose				Internal	COH		60H		
										External	40H						
							H reset			Camera Link	Internal	COH	50H				
								External			40H						
								6pin Hirose	Internal		COH	70H					
							External		40H								
							V-Reset		Positive	Normal	Camera Link		Internal	99H	COH	40H	
								External				40H					
								6pin Hirose				Internal	COH		60H		
											External	40H					
											H reset	Camera Link	Internal				COH
								External					40H				
								6pin Hirose		Internal			COH	70H			
										External	40H						
						Negative				Normal	Camera Link	Internal	D9H		COH	40H	
								External				40H					
								6pin Hirose				Internal		COH	60H		
										External	40H						
									H reset	Camera Link	Internal	COH		50H			
								External			40H						
						6pin Hirose		Internal			COH	70H					
								External	40H								
								Pulse width	Non-Reset	Positive	Normal		Camera Link	B8H	COH	40H	
						External						40H					
						6pin Hirose						Internal			COH		60H
												External	40H				
												H reset	Camera Link		Internal		
						External									40H		
						6pin Hirose					Internal			COH	70H		
											External	40H					
							Negative				Normal	Camera Link	Internal	F8H		COH	40H
						External							40H				
						6pin Hirose							Internal		COH	60H	
											External	40H					
									H reset	Camera Link	Internal	COH	50H				
						External					40H						
						6pin Hirose	Internal				COH	70H					
							External		40H								
V-Reset	Positive	Normal	Camera Link	Internal	B9H		COH		40H								
				External		40H											
				6pin Hirose		Internal	COH			60H							
		External	40H														
		H reset	Camera Link			Internal	COH				50H						
				External		40H											
	6pin Hirose			Internal	COH	70H											
		External	40H														
		Negative	Normal	Camera Link	Internal		F9H	COH	40H								
	External				40H												
	6pin Hirose				Internal	COH		60H									
			External	40H													
H reset			Camera Link	Internal	COH	50H											
	External			40H													
	6pin Hirose	Internal		COH	70H												
External		40H															

hhh. Trigger Mode (30fps, Binning ½ Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input mode	Sync system	Values					
											10H	11H	12H			
8bit	Trigger	30fps	On	1/2 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	C1H	40H			
									External	41H						
									6pin Hirose	Internal		C1H	60H			
									External	41H						
									H reset	Internal		C1H	50H			
								External	41H							
								6pin Hirose	Internal	C1H	70H					
								External	41H							
								Negative	Normal	Camera Link	Internal	D8H	C1H	40H		
										External	41H					
							6pin Hirose			Internal	C1H		60H			
							External			41H						
							H reset			Internal	C1H		50H			
							External		41H							
							6pin Hirose		Internal	C1H	70H					
							External		41H							
							V-Reset		Positive	Camera Link	Internal		99H	C1H	40H	
										External	41H					
								6pin Hirose		Internal	C1H	60H				
								External		41H						
								H reset		Internal	C1H	50H				
								External	41H							
								6pin Hirose	Internal	C1H	70H					
								External	41H							
								Negative	Normal	Camera Link	Internal	D9H		C1H	40H	
						External				41H						
						6pin Hirose	Internal			C1H	60H					
						External	41H									
						H reset	Internal			C1H	50H					
						External	41H									
						6pin Hirose	Internal		C1H	70H						
						External	41H									
						Pulse width	Non-Reset		Positive	Normal	Camera Link		Internal	B8H	C1H	40H
											External		41H			
								6pin Hirose			Internal	C1H	60H			
								External			41H					
								H reset			Internal	C1H	50H			
								External		41H						
								6pin Hirose		Internal	C1H	70H				
								External		41H						
								Negative		Normal	Camera Link	Internal	F8H		C1H	40H
											External	41H				
									6pin Hirose		Internal	C1H		60H		
									External		41H					
									H reset		Internal	C1H		50H		
									External	41H						
									6pin Hirose	Internal	C1H	70H				
									External	41H						
									V-Reset	Positive	Camera Link	Internal		B9H	C1H	40H
											External	41H				
					6pin Hirose			Internal			C1H	60H				
					External			41H								
					H reset			Internal			C1H	50H				
					External			41H								
					6pin Hirose			Internal		C1H	70H					
					External			41H								
					Negative			Normal		Camera Link	Internal	F9H	C1H		40H	
							External			41H						
							6pin Hirose		Internal	C1H	60H					
							External		41H							
							H reset		Internal	C1H	50H					
							External	41H								
							6pin Hirose	Internal	C1H	70H						
							External	41H								

iii. Trigger Mode (30fps, Binning ¼ Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input mode	Sync system	Values					
											10H	11H	12H			
8bit	Trigger	30fps	On	1/4 partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	C2H	40H			
									External	42H						
									6pin Hirose	Internal		C2H	60H			
									External	42H						
									H reset	Camera Link		Internal	C2H	50H		
								External	42H							
								6pin Hirose	Internal	C2H	70H					
								External	42H							
								Negative	Normal	Camera Link	Internal	D8H	C2H	40H		
										External	42H					
							6pin Hirose			Internal	C2H		60H			
							External			42H						
							H reset			Camera Link	Internal		C2H	50H		
							External		42H							
							6pin Hirose		Internal	C2H	70H					
							External		42H							
							V-Reset		Positive	Camera Link	Internal	99H	C2H	40H		
										External	42H					
								6pin Hirose		Internal	C2H		60H			
								External		42H						
								H reset		Camera Link	Internal		C2H	50H		
								External	42H							
								6pin Hirose	Internal	C2H	70H					
								External	42H							
								Negative	Normal	Camera Link	Internal	D9H	C2H	40H		
						External				42H						
						6pin Hirose	Internal			C2H	60H					
						External	42H									
						H reset	Camera Link			Internal	C2H		50H			
						External	42H									
						6pin Hirose	Internal		C2H	70H						
						External	42H									
						Pulse width	Non-Reset		Positive	Normal	Camera Link	Internal	B8H	C2H	40H	
											External	42H				
								6pin Hirose			Internal	C2H		60H		
								External			42H					
								H reset			Camera Link	Internal		C2H	50H	
								External		42H						
								6pin Hirose		Internal	C2H	70H				
								External		42H						
								Negative		Normal	Camera Link	Internal	F8H	C2H	40H	
											External	42H				
									6pin Hirose		Internal	C2H		60H		
									External		42H					
									H reset		Camera Link	Internal		C2H	50H	
									External	42H						
									6pin Hirose	Internal	C2H	70H				
									External	42H						
									V-Reset	Positive	Normal	Camera Link	Internal	B9H	C2H	40H
												External	42H			
					6pin Hirose			Internal				C2H	60H			
					External			42H								
					H reset			Camera Link				Internal	C2H		50H	
					External			42H								
					6pin Hirose			Internal			C2H	70H				
					External			42H								
					Negative			Normal			Camera Link	Internal	F9H	C2H	40H	
							External				42H					
							6pin Hirose			Internal	C2H	60H				
							External	42H								
							H reset	Camera Link		Internal	C2H	50H				
					External		42H									
					6pin Hirose		Internal	C2H		70H						
					External		42H									

jjj. Trigger Mode (30fps, Binning Variable Partial Scanning, 8bit out)

Video out	Camera function	Frame rate	Binning	Scanning mode	Trigger mode	Reset mode	Trigger polarity	Exposure start mode	Trigger signal input mode	Sync system	Values				
											10H	11H	12H		
8bit	Trigger	30fps	On	Variable partial scanning	Edge preset	Non-Reset	Positive	Normal	Camera Link	Internal	98H	C7H	40H		
									External	47H					
									6pin Hirose	Internal		C7H	60H		
									External	47H					
									H reset	Camera Link		Internal	C7H	50H	
								External	47H						
								6pin Hirose	Internal	C7H		70H			
								External	47H						
								Negative	Normal	Camera Link		Internal	D8H	C7H	40H
										External		47H			
							6pin Hirose			Internal	C7H	60H			
							External			47H					
							H reset			Camera Link	Internal	C7H		50H	
							External		47H						
							6pin Hirose		Internal	C7H	70H				
							External		47H						
							V-Reset		Positive	Camera Link	Internal	99H		C7H	40H
										External	47H				
								6pin Hirose		Internal	C7H		60H		
								External		47H					
						H reset		Camera Link		Internal	C7H		50H		
						External		47H							
						6pin Hirose		Internal	C7H	70H					
						External		47H							
						Negative		Normal	Camera Link	Internal	D9H		C7H	40H	
									External	47H					
							6pin Hirose		Internal	C7H		60H			
							External		47H						
							H reset		Camera Link	Internal		C7H	50H		
							External	47H							
							6pin Hirose	Internal	C7H	70H					
							External	47H							
							External	47H							
							6pin Hirose	Internal	C7H	60H					
						External	47H								
						H reset	Camera Link	Internal	C7H	50H					
						External	47H								
						6pin Hirose	Internal	C7H	70H						
						External	47H								
						Negative	Normal	Camera Link	Internal	F8H	C7H	40H			
								External	47H						
								6pin Hirose	Internal		C7H	60H			
								External	47H						
								H reset	Camera Link		Internal	C7H	50H		
							External	47H							
							6pin Hirose	Internal	C7H		70H				
							External	47H							
							V-Reset	Positive	Camera Link		Internal	B9H	C7H	40H	
									External		47H				
						6pin Hirose			Internal	C7H	60H				
					External	47H									
					H reset	Camera Link			Internal	C7H	50H				
					External	47H									
					6pin Hirose	Internal		C7H	70H						
					External	47H									
					Negative	Normal		Camera Link	Internal	F9H	C7H		40H		
								External	47H						
							6pin Hirose	Internal	C7H		60H				
							External	47H							
							H reset	Camera Link	Internal		C7H	50H			
						External	47H								
						6pin Hirose	Internal	C7H	70H						
						External	47H								

Revisions

Rev	Date	Changes	Notes
1.0	7/28/2008	New Doc	
1.1	8/25/2008	Edited pg 15	
1.2	8/26/2008	Edited pg 11	Edge Preset Trigger Drawing
1.3	9/2/2008	Edited pg 16	Command Description of 11H: MOD2[7...0]
1.4	10/30/2008	Edited pg 10	Edge Preset Trigger Mode drawing
	6/26/2009	Edited pg 1	CCS → CC3
			1) The camera command list (Delete commands for factory inspection) 2) Description of the camera control command
1.5	8/17/2009		Update 1) The camera output timing charts (Add FVAL, LVAL and DVAL)
1.6	9/8/2009		Update 1) The transferring image
	10/1/2009	Edited pg 26	Update 1)28H: DLY[row: changed μsecond to clocks
1.7	1/8/2010		Update 1) The signals of the power/IO connector 2) The camera command list (Add the signals of the power/IO connector at power on) (Add the signals of the power/IO connector) 3) Description of the camera control commands (Add the signals of the power/IO connector) 4) The communication format (Add command example)
1.8	3/26/2010		Update 1) The camera command list (Changed the default value for CLAMP level) 2) Description of the camera control commands (Changed the CDS gain, digital gain and clamp level) 3) Block Diagram
1.9	4/8/2010		Update Block Diagram (Changed the block diagram)
2.0	5/13/2010		Update Signal of the Power/IO connector

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