

CP Rev. 2.2/
SE Rev. 1.2

¹⁾ PixelFormats for area scan mode (UserSet "Default"). For color cameras, the PixelFormats Mono8, RGB8, BGR8 and RGB10p32 are debayered formats.

²⁾ Increases maximum framerate.

³⁾ Color binning on monochrome sensor can lead to image artifacts.

⁴⁾ Only combined horizontal and vertical binning.

5) The 6 components of the model (horizontal and vertical binning).

⁴ The frame rate does not increase with binning/decimation.

**CP Rev. 2.2/
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		Image Acquisition												On-board Image Processing												Others					
		Freerun	Software Trigger	Hardware Trigger	Trigger Controlled Exposure	Denoiser	Long Exposure	Line Scan	Line Scan Highspeed	Flashing	PWM Flashing	Auto Exposure	Auto Gain	Auto Whitebalance	Color Correction	Gamma	LUT	Reverse (Mirror)	PixelFormats ¹⁾	Region of Interest	Decimation (FPGA)	Decimation (Sensor) ²⁾	Binning (FPGA)	Binning (Sensor) ²⁾	Chunks	Sequencer	Events (camera-based)	Firmware Update	1st supported Firmware		
U3-31NxCP Rev. 2.2 / U3-31NxSE Rev. 1.2	M	✓	✓	✓	✓	✓	-	-	✓	✓	✓	-	-	✓	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	2x2	✓	2x2 ⁴⁾	✓	✓	✓	✓	3.31			
	C	✓	✓	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	2x2	✓	-	✓	✓	✓	✓	3.31			
U3-31RxCP Rev. 2.2 / U3-31RxSE Rev. 1.2	M	✓	✓	✓	✓	✓	✓	-	-	✓	✓	✓	-	-	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	2x2	✓	2x2 ⁴⁾	✓	✓	✓	✓	3.31			
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	2x2	✓	-	✓	✓	✓	✓	3.31			
U3-320xSE Rev. 1.2	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	2x2	✓	2x2	✓	✓	✓	✓	2.20			
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	2x2	✓	-	✓	✓	✓	✓	2.20			
U3-326xCP Rev. 2.2 / U3-326xSE Rev. 1.2	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	2x2	✓	-	✓	✓	✓	✓	2.20			
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	2x2	✓	-	✓	✓	✓	✓	2.20			
U3-327xCP Rev. 2.2 / U3-327xSE Rev. 1.2	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	2x2	✓	1x2	✓	✓	✓	✓	2.20			
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	2x2	✓	-	✓	✓	✓	✓	2.20			
U3-328xCP Rev. 2.2 / U3-328xSE Rev. 1.2	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	2x2	✓	1x2	✓	✓	✓	✓	2.20			
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	2x2	✓	-	✓	✓	✓	✓	2.20			
U3-329xSE Rev. 1.2	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	2x2	✓	2x2	✓	✓	✓	✓	2.20			
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	2x2	✓	-	✓	✓	✓	✓	2.20			
U3-380xCP Rev. 2.2 / U3-380xSE Rev. 1.2	M	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	-	✓	Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	-	-	2x2 ^{3,4)}	✓	-	✓	✓	2.20			
	C	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	-	✓	Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12	✓	✓	-	-	2x2 ⁴⁾	✓	-	✓	✓	2.20			
U3-386xCP Rev. 2.2 / U3-386xSE Rev. 1.2	M	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	-	-	✓	✓	-	✓	✓	2.20			
	C	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	-	✓	✓	-	✓	✓	2.20			
U3-388xCP Rev. 2.2 / U3-388xSE Rev. 1.2	M	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	-	-	2x2 ^{3,4)}	✓	-	✓	✓	2.20			
	C	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	-	2x2 ⁴⁾	✓	-	✓	✓	2.20			
U3-389xCP Rev. 2.2 / U3-389xSE Rev. 1.2	M	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	-	✓	Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	-	-	✓	✓	-	✓	✓	2.20			
	C	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	-	✓	Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	-	✓	✓	-	✓	✓	2.20			
U3-399xCP Rev. 2.2	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	2x2	✓	2x2 ⁴⁾	✓	✓	✓	✓	3.20			
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	2x2	✓	-	✓	✓	✓	✓	3.20			
U3-399xSE Rev. 1.2	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	2x2	✓	-	✓	✓	✓	✓	2.20			
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	X/Y		Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	2x2	✓	-	✓	✓	✓	✓	2.20			

¹⁾ PixelFormats for area scan mode (UserSet "Default"). For color cameras, the PixelFormats Mono8, RGB8, BGR8 and RGB10p32 are debayered formats.

²⁾ Increases maximum framerate.

³⁾ Color binning on monochrome sensor can lead to image artifacts.

⁴⁾ Only combined horizontal and vertical binning.

⁵⁾ The frame rate does not increase with binning/decimation.
If not specified otherwise, default Binning and Decimation factors are 2, 4 and 8, with independent configuration for horizontal and vertical direction. FPGA Binning and FPGA Decimation cannot be combined.

¹⁾ PixelFormats for area scan mode (UserSet "Default"). For color cameras, the PixelFormats Mono8, RGB8, BGR8 and RGB10p32 are debayered formats.

²⁾ Increases maximum framerate.

³⁾ Color binning on monochrome sensor can lead to image artifacts.

⁴⁾ Only combined horizontal and vertical binning.

- Only combined horizontal and vertical binning.
- The frame rate does not increase with binning (degeneration)

The frame rate does not increase with binning/decimation. If not specified otherwise, default Binning and Decimation factors are 1.

If not specified otherwise, default Binning and Decimation factors are 2, 4 and 8, with independent settings for each channel.

LE Rev. 1.2

¹⁾ PixelFormats for area scan mode (UserSet "Default"). For color cameras, the PixelFormats Mono8, RGB8, BGR8 and RGB10p32 are debayered formats.

²⁾ Increases maximum framerate.

³⁾ Color binning on monochrome sensor can lead to image artifacts

⁴⁾ Only combined horizontal and vertical binning.

• Only combined horizontal and vertical binning.

5) The frame rate does not increase with binning/decimation.

⁶⁾ Only supported by PCB models as the inputs/outputs are not accessible in the housing ve

⁷⁾ In development. The model is not yet in series production, but will be introduced shortly.

If not specified otherwise, default Binning and Decimation factors are 2, 4 and 8, with independent configuration for horizontal and vertical direction. FPGA Binning and FPGA Decimation cannot be combined.

XCP / XLE / XLS
XC

		Freerun	Software Trigger	Hardware Trigger	Trigger Controlled Exposure ⁶	Denoiser	Long Exposure	Line Scan	Line Scan Highspeed	Flashing ⁵	PWM Flashing	Auto Exposure	Auto Gain	Auto Whitebalance	Color Correction	Gamma	LUT	Reverse (Mirror)	PixelFormats ¹	Region of Interest	Decimation (FPGA)	Decimation (Sensor) ²	Binning (FPGA)	Binning (Sensor) ²	Chunks	Sequencer	Events (camera-based)	Firmware Update	1st supported Firmware
U3-33FOXCP Rev. 1.2 / U3-33FXLS Rev. 1.2	M C	✓	✓	-	-	-	-	-	-	✓	-	-	-	-	-	-	X/Y	Mono8, Mono10g40IDS, Mono12g24IDS	✓	-	-	-	2x2 ⁴	-	-	-	✓	3.21	
U3-34E0XCP Rev. 1.2 / U3-34EXLS Rev. 1.2	M C	✓	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	X/Y	BayerRG8, BayerRG10g40IDS, BayerGR12g24IDS	✓	-	2x2	-	-	-	-	-	✓	3.21	
U3-34F0XCP Rev. 1.2 / U3-34FxLS Rev. 1.2	M C	✓	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	X/Y	Mono10g40IDS, Mono12g24IDS	✓	-	-	-	2x2 ⁴	-	-	-	✓	3.34	
U3-34L0XCP Rev. 1.2 / U3-34LxLS Rev. 1.2	M C	✓	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	X/Y	BayerRG10g40IDS, BayerGR12g24IDS	✓	-	-	-	2x2 ⁴	-	-	-	✓	3.34	
U3-3560XCP / U3-356xXLE Rev. 1.1	M C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	Mono10g40IDS, Mono12g24IDS	✓	-	-	-	2x2 ⁴	-	-	-	✓	3.34	
U3-3560XCP Rev. 1.2	M C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerRG10g40IDS, BayerGR12g24IDS	✓	-	-	-	2x2 ⁴	-	-	-	✓	3.34	
U3-356xXLE Rev. 1.2 / U3-356xXLS Rev. 1.2	M C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	Mono8, Mono10g40IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	2.9		
U3-3680XCP	M C NIR	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	2.9		
U3-368xXLE Rev. 1.1	M C NIR	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	Mono8, Mono10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	2.9		
U3-3680XCP Rev. 1.2	M C NIR	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, BayerGR12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.20		
U3-368xXLE Rev. 1.2	M C NIR	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	Mono8, Mono10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.20		
U3-3680XCP Rev. 1.2 / U3-368xXLS Rev. 1.2	M C NIR	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.20		
U3-3680XLS Rev. 1.2	M C NIR	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.20		
U3-36POXCP Rev. 1.2 / U3-36PxXLS Rev. 1.2	M C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	2.11		
U3-36PxXLE Rev. 1.2	M C NIR	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	2.11		
U3-36PxXLS Rev. 1.2	M C NIR	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	2.11		
U3-38COXCP Rev. 1.2 / U3-38CxXLS Rev. 1.2	M C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.20		
U3-38J0XCP / U3-38JxXLE Rev. 1.1	M C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.20		
U3-38J0XCP Rev. 1.2	M C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.20		
U3-38JxXLE Rev. 1.2 / U3-38JxXLS Rev. 1.2	M C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.20		
U3-38L0XCP Rev. 1.2	C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.20		
U3-38LxXLS Rev. 1.2	C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.3		
U3-36LOXCP Rev. 1.2	C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.2		
U3-36LxXLS Rev. 1.2	C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.2		
U3-36LOXCP Rev. 1.2	C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.20		
U3-36LxXLS Rev. 1.2	C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8, BayerGR10g40IDS, Mono12g24IDS	✓	-	2;4x2; ⁴	2x2 ⁵	-	-	-	✓	3.2		
U3-36LOXCP	C	✓	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-	X/Y	BayerGR8	✓	-	-	-	-	-	-	✓	2.12		

¹⁾ PixelFormats for area scan mode (UserSet "Default"). For color cameras, the PixelFormats Mono8, RGB8, BGR8 and RGB10p32 are debayered formats.²⁾ Increases maximum framerate.³⁾ Color binning on monochrome sensor can lead to image artifacts.⁴⁾ Only combined horizontal and vertical binning.⁵⁾ The frame rate does not increase with binning/decimation.⁶⁾ uEye+ XLE USB 3: Only supported by PCB models as the inputs/outputs are not accessible in the housing versions.

If not specified otherwise, default Binning and Decimation factors are 2, 4 and 8, with independent configuration for horizontal and vertical direction. FPGA Binning and FPGA Decimation cannot be combined.

ACP Rev. 1.2

¹⁾ PixelFormats for area scan mode (UserSet "Default"). For color cameras, the PixelFormats Mono8, RGB8, BGR8 and RGB10p32 are debayered formats.

2) Increases maximum framerate.

³⁾ Color binning on monochrome sensor can lead to image artifacts.

⁴⁾ Only combined horizontal and vertical binning.

Only combined horizontal and vertical binning.

The frame rate does not increase with binning/decimation

If not specified otherwise, default Binning and Decimation factors are 2, 4 and 8, with independent configuration for horizontal and vertical direction. FPGA Binning and FPGA Decimation cannot be combined.

¹⁾ PixelFormats for area scan mode (UserSet "Default"). For color cameras, the PixelFormats Mono8, RGB8, BGR8 and RGB10p32 are debayered formats.

2) Increases maximum framerate.

³⁾ Color binning on monochrome sensor can lead to image artifacts.

⁴⁾ Only combined horizontal and vertical binning.

5) The frame rate does not increase with binning (Interpolation).

The frame rate does not increase with binning/decimation. If not specified, the `img` default Binning and Decimation factors are used.

If not specified otherwise, default Binning and Decimation factors are 2, 4 and 8, with independent configuration for horizontal and vertical direction. FPGA Binning and FPGA Decimation cannot be combined.