CP / SE / FA

		Image Acquisition									Flashing		Image Adjustments							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	Mirroring	PixelFormats[1]	Region of Interest	Decimation (FPGA)	Decimation (Sensor)[2]	Binning (FPGA)	Binning (Sensor)[2]	IP Settings	Bandwidth Management	Chunks	Sequencer	PTP	Firmware Update	1st supported Firmware
GV-504x CP/SE/FA	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	2x2	✓	✓	✓	✓	✓	✓	1.5
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	1.5
GV-508x CP/FA	P	✓	✓	✓	✓	✓	-	-	-	✓	✓	-	-	-	-	-	-	X/Y	Mono8, Mono10, Mono10p, Mono12, Mono12p, RGB8	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	2.2
GV-50Cx CP/SE/FA	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	2x2	✓	✓	✓	✓	✓	✓	2.9
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	2.9
GV-520x SE/FA	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	2x2	✓	✓	✓	✓	✓	✓	1.4
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	-	✓	✓	X/Y	BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	1.4
GV-524x CP/SE/FA	M	✓	✓	✓	-	✓	-	✓	✓	✓[5]	✓[5]	✓	✓	-	-	✓	✓	-	Mono8, Mono10p, Mono10,	✓	✓	-	✓	2x2	✓	✓	-	-	✓	✓	1.3
	C	✓	✓	✓	-	✓	-	✓	-	✓[5]	✓[5]	✓	✓	✓	✓	✓	✓	-	Mono8, BayerRG8, BayerRG10p, BayerRG10, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	2x2	✓	✓	-	-	✓	✓	1.3
GV-525x CP/SE/FA	M	✓	✓	✓	-	✓	-	✓	✓	✓[5]	✓[5]	✓	✓	-	-	✓	✓	-	Mono8, Mono10p, Mono10	✓	✓	-	✓	2x2	✓	✓	-	-	✓	✓	1.3
	C	✓	✓	✓	-	✓	-	✓	-	✓[5]	✓[5]	✓	✓	✓	✓	✓	✓	-	Mono8, BayerRG8, BayerRG10p, BayerRG10, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	2x2	✓	✓	-	-	✓	✓	1.3
GV-526x CP/SE/FA	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	1.2
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	1.2
GV-527x CP/SE/FA	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	1x2	✓	✓	✓	✓	✓	✓	1.0
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	1.0
GV-528x CP/SE/FA	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	1x2	✓	✓	✓	✓	✓	✓	1.0
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	1.0
GV-529x SE/FA	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	1x2	✓	✓	✓	✓	✓	✓	1.4
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	1.4
GV-548x CP/SE/FA	M	✓	✓	✓	-	✓	-	-	-	✓	✓	✓	✓	-	-	✓	✓	-	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	-	✓	✓	-	-	✓	✓	1.3
GV-558x CP/SE/FA	C	✓	✓	✓	-	✓	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	2;4x2;4	✓	✓	-	-	✓	✓	1.3
GV-580x SE/FA	M	✓	✓	✓	-	✓	✓	-	-	✓	✓	✓	✓	-	-	✓	✓	Y	Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	-	✓	2x2[3,4]	✓	✓	✓	-	✓	✓	2.4
	C	✓	✓	✓	-	✓	✓	-	-	✓	✓	✓	✓	✓	-	✓	✓	Y	BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12	✓	✓	-	✓	2x2[4]	✓	✓	✓	-	✓	✓	2.4
GV-586x CP/SE/FA	M	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	-	✓	✓	✓	-	✓	✓	1.3
	C	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	-	✓	✓	1.3
GV-588x CP/SE/FA	M	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	2x2[3,4]	✓	✓	✓	-	✓	✓	1.1
	C	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	2x2[4]	✓	✓	✓	-	✓	✓	1.1
GV-589x CP/SE/FA	M	✓	✓	✓	-	✓	✓	-	-	✓	✓	✓	✓	-	-	✓	✓	Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	2x2[3,4]	✓	✓	✓	-	✓	✓	1.9
	C	✓	✓	✓	-	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓	Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	2x2[4]	✓	✓	✓	-	✓	✓	1.9
GV-599x SE/FA	M	✓	✓	✓	✓	✓	✓	-	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10, Mono10p, Mono12, Mono12p	✓	✓	-	✓	2x2[4]	✓	✓	✓	✓	✓	✓	2.9
	C	✓	✓	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓	-	✓	✓	X/Y	BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	2.9

[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] Flashing (on ExposureActive) only available in trigger mode.

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.

IDS Imaging Development Systems GmbH
Dimbacher Str. 6 - 8 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

ACP

		Image Acquisition									Flashing		Image Adjustments							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	Mirroring	PixelFormats[1]	Region of Interest	Decimation (FPGA)	Decimation (Sensor)[2]	Binning (FPGA)	Binning (Sensor)[2]	IP Settings	Bandwidth Management	Chunks	Sequencer	PTP	Firmware Update	1st supported Firmware
GV-504x ACP	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	2x2	✓	✓	✓	✓	✓	✓	2.2
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	2.2
GV-508x ACP	P	✓	✓	✓	✓	✓	-	-	-	✓	✓	-	-	-	-	-	-	X/Y	Mono8, Mono10, Mono10p, Mono12, Mono12p, RGB8	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	2.2
GV-50Cx ACP	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	2x2	✓	✓	✓	✓	✓	✓	2.9
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	2.9
GV-526x ACP	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	2.2
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	2.2
GV-527x ACP	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	1x2	✓	✓	✓	✓	✓	✓	2.2
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	2.2
GV-528x ACP	M	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	1x2	✓	✓	✓	✓	✓	✓	2.2
	C	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	2.2
GV-586x ACP	M	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	-	✓	✓	✓	-	✓	✓	2.2
	C	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	-	✓	✓	✓	-	✓	✓	2.2
GV-588x ACP	M	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	✓	-	-	✓	✓	X/Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	2x2[3,4]	✓	✓	✓	-	✓	✓	2.2
	C	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	X/Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	2x2[4]	✓	✓	✓	-	✓	✓	2.2
GV-589x ACP	M	✓	✓	✓	-	✓	✓	-	-	✓	✓	✓	✓	-	-	✓	✓	Y	Mono8, Mono10p, Mono12p, Mono10, Mono12	✓	✓	-	✓	2x2[3,4]	✓	✓	✓	-	✓	✓	2.2
	C	✓	✓	✓	-	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓	Y	Mono8, BayerRG8, BayerRG10p, BayerRG12p, BayerRG10, BayerRG12, RGB8, BGR8, RGB10p32, BGR10p32	✓	✓	-	✓	2x2[4]	✓	✓	✓	-	✓	✓	2.2

[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.
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.

IDS Imaging Development Systems GmbH
Dimbacher Str. 6 - 8 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com