

CP / SE / FA

| | | Image Acquisition | | | | | | | | | | Flashing | | | | | | | | | | Image Adjustments | | | | | | | | | | On-board Image Processing | | | | | | | | | | Others | | | | | | | | | |
|--------------------------------|---|-------------------|------------------|------------------|-----------------|-----------|---------------|-----------|---------------------|----------|--------------|---------------|-----------|-------------------|------------------|-------|-----|-----------|----------------------------|--------------------|------------|-------------------|--------------------------------|----------------|--------------------------------|-------------|----------------------|--------|-----------|-----|-----------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----|-----|-----|---|---|-----|--|--|--|
| | | Freerun | Software Trigger | Hardware Trigger | Trigger Trigger | Denoisier | 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 | Decimation (FPGA) | Binning (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 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.5 | | | | | | | | | | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.5 | | | | | | | | | | | | | | | | | |
| GV-508x CP | P | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 2.2 | | | | | | | | | | | | | | | | | |
| GV-520x SE/FA | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.4 | | | | | | | | | | | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.4 | | | | | | | | | | | | | | | | | |
| GV-524x CP/SE/FA ⁶⁾ | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.3 | | | | | | | | | | | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.3 | | | | | | | | | | | | | | | | | |
| GV-525x CP/SE/FA ⁶⁾ | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.3 | | | | | | | | | | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.3 | | | | | | | | | | | | | | | | |
| GV-526x CP/SE/FA | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.2 | | | | | | | | | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.2 | | | | | | | | | | | | | | | |
| GV-527x CP/SE/FA | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.0 | | | | | | | | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.0 | | | | | | | | | | | | | | |
| GV-528x CP/SE/FA | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.0 | | | | | | | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.0 | | | | | | | | | | | | | |
| GV-529x SE/FA | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.4 | | | | | | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.4 | | | | | | | | | | | | |
| GV-548x CP/SE/FA ⁶⁾ | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.3 | | | | | | | | | | | | |
| GV-558x CP/SE/FA ⁶⁾ | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.3 | | | | | | | | | | | |
| GV-580x SE | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 2.4 | | | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 2.4 | | | | | | | | | | |
| GV-586x CP/SE/FA | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.3 | | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.3 | | | | | | | | |
| GV-588x CP/SE/FA | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.1 | | | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.1 | | | | | | | |
| GV-589x CP/SE/FA | M | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.9 | | | | | | |
| | C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1.9 | | | |

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.
⁶⁾ Model not supported by firmware version 2.8
 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 | | 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 (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-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.

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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.