

LXG-120M

Dual GigE, 12 Megapixel, Monochrome

Article number: 11117846

Overview

- 4096 × 3072 px
- ams (CMOSIS) CMV12000
- APS-C CMOS
- 19 fps
- Dual Gigabit Ethernet



Picture similar



GEN*i*CAM



Technical data

Sensor information

| | |
|---------------|-----------------------|
| Sensor | ams (CMOSIS) CMV12000 |
| Mono/Color | Mono |
| Sensor type | APS-C CMOS |
| Shutter type | Global shutter |
| Resolution | 4096 × 3072 px |
| Pixel size | 5.5 × 5.5 µm |
| Exposure time | 0.04 ... 1000 ms |

Data quality (EMVA 1288 typical)

| | |
|-----------------------|---------------|
| Dark noise | 11.64 e- |
| Saturation capacity | 9452 e- |
| Dynamic range | 57.8 dB |
| Signal-to-noise ratio | 39.8 dB |
| Quantum efficiency | 44 % @ 536 nm |

Acquisition formats

| | |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image formats, interface frame rate max. | Full Frame, 4096 × 3072 px, max. 19 fps Binning 2×2, 2048 × 1536 px, max. 19 fps Binning 1×2, 4096 × 1536 px, max. 19 fps Binning 2×1, 2048 × 3072 px, max. 19 fps |
| Image formats, acquisition frame rate max. (Burst Mode) | Full Frame, 4096 × 3072 px, max. 50 fps |
| Pixel formats | Mono8 Mono12 Mono12 Packed |

Image preprocessing

| | |
|-----------------|-----------------------------------------------------|
| Analog controls | Gain (0 ... 12 dB) Offset (0 ... 255 LSB 12 Bit) |
|-----------------|-----------------------------------------------------|

| | |
|--------------|------|
| Color models | Mono |
|--------------|------|

Camera features

| | |
|-----------------------|---------------------------------------------------------------------------|
| Synchronization | free running trigger |
| Trigger sources | Hardware Software ActionCommand |
| Trigger delay | 0 ... 2 sec, tracking and buffering of up to 256 trigger signals |
| Sequencer | Automated control for series of images using different sets of parameters |
| Sequencer parameter | Exposure time gain factor Output ROI Offset x ROI Offset y |
| Digital inputs | 1 input line |
| Digital outputs | 3 output lines |
| Internal image buffer | 512 MB |

Interfaces and connectors

| | |
|-------------------|-------------------------------------------------------------------------------------------------------------|
| Data interface | Dual Gigabit Ethernet, Transfer rate 2000 Mb/s/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type |
| Process interface | M8 / 8 pins |
| Power supply | via M8 / 8 pins |

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Mechanical data

| | |
|------------|-----------------------------------------------|
| Lens mount | M58-mount (F-mount, M42, C-mount via adapter) |
| Width | 60 mm |
| Height | 60 mm |
| Depth | 54.25 mm |
| Weight | ≤ 290 g (M58-mount) |
| Material | housing: aluminum |

Electrical data

| | |
|--------------------------|--------------------------------------------------------------------------------|
| Voltage supply range +Vs | 12 ... 24 V DC (external power supply) 36 ... 57 V DC (Power over Ethernet) |
| Power consumption | Approx. 7.0 W @ 24 VDC Approx. 6.5 W @ 48 VDC (PoE) |

Non-volatile memory

| | |
|-------------------|--------|
| Flash memory size | 128 kB |
|-------------------|--------|

Environmental conditions

| | |
|-----------------------|---------------------------------------|
| Operating temperature | +5 ... +66 °C @ T = measurement point |
| Humidity | 10 ... 90 % (non-condensing) |
| Protection class | IP 40 |

Conformity

| | |
|------------|-------------------------------------------|
| Conformity | CE RoHS EAC BIS-CRS (R-41207004) |
|------------|-------------------------------------------|

Dimension drawing

