

## LXG-250C

Dual GigE, 25 Megapixel, Color

Article number: 11150457

### Overview

- 5120 × 5120 px
- Onsemi PYTHON 25K
- APS-H CMOS
- 9 fps
- Dual Gigabit Ethernet



GEN<i>i>CAM



### Technical data

#### Sensor information

|               |                   |
|---------------|-------------------|
| Sensor        | onsemi PYTHON 25K |
| Mono/Color    | Color             |
| Color filter  | RGB Bayer Mosaic  |
| Sensor type   | APS-H CMOS        |
| Shutter type  | Global shutter    |
| Resolution    | 5120 × 5120 px    |
| Pixel size    | 4.5 × 4.5 µm      |
| Exposure time | 0.03 ... 1000 ms  |

#### Data quality (EMVA 1288 typical)

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Dark noise            | 11.96 e-                                              |
| Saturation capacity   | 8425 e-                                               |
| Dynamic range         | 56.4 dB                                               |
| Signal-to-noise ratio | 39.3 dB                                               |
| Quantum efficiency    | 36.6 % @ 465 nm<br>39.7 % @ 536 nm<br>41.2 % @ 631 nm |

#### Acquisition formats

|                                                         |                                                                                                                                                                         |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image formats, interface frame rate max.                | Full Frame, 5120 × 5120 px, max. 9 fps<br>Binning 2×2, 2560 × 2560 px, max. 9 fps<br>Binning 1×2, 5120 × 2560 px, max. 9 fps<br>Binning 2×1, 2560 × 5120 px, max. 9 fps |
| Image formats, acquisition frame rate max. (Burst Mode) | Full Frame, 5120 × 5120 px, max. 32 fps                                                                                                                                 |
| Pixel formats                                           | BayerGB8<br>BayerGB12<br>BayerGB12 Packed                                                                                                                               |

#### Image preprocessing

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Analog controls | Gain (0 ... 23,5 dB)<br>Offset (0 ... 63 LSB 10 Bit) |
|-----------------|------------------------------------------------------|

|              |           |
|--------------|-----------|
| Color models | Raw Bayer |
|--------------|-----------|

|                  |    |
|------------------|----|
| Color processing | NA |
|------------------|----|

#### Camera features

|                       |                                                                           |
|-----------------------|---------------------------------------------------------------------------|
| Synchronization       | free running<br>trigger                                                   |
| Trigger sources       | Hardware<br>Software<br>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<br>gain factor<br>Output<br>ROI Offset x<br>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      | 56.32 mm                                      |
| Weight     | ≤ 320 g (M58-mount)                           |
| Material   | housing: aluminum                             |

#### Electrical data

|                          |                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------|
| Voltage supply range +Vs | 12 ... 24 V DC (external power supply)<br>36 ... 57 V DC (Power over Ethernet)                  |
| Power consumption        | approx. 5,4 W @ 24 VDC (sequential readout)<br>approx. 7,6 W @ 48 VDC (PoE, sequential readout) |

#### Non-volatile memory

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

#### Environmental conditions

|                       |                                       |
|-----------------------|---------------------------------------|
| Operating temperature | +5 ... +68 °C @ T = measurement point |
| Humidity              | 10 ... 90 % (non-condensing)          |
| Protection class      | IP 40                                 |

#### Conformity

|            |                                              |
|------------|----------------------------------------------|
| Conformity | CE<br>KC (R-REI-BkR-LXG-250M)<br>RoHS<br>EAC |
|------------|----------------------------------------------|

### Dimension drawing

