

VCXU.2-241C

USB 3.0, 24,3 Megapixel, Color

Article number: 11708191

Overview

- 5312 × 4592 px
- Sony IMX540
- 1.2" CMOS
- 15 fps
- USB 3.0



Picture similar



Technical data

Sensor information

| | |
|---------------|--------------------|
| Sensor | Sony IMX540 Gen4 |
| Mono/Color | Color |
| Sensor type | 1.2" CMOS |
| Shutter type | Global shutter |
| Resolution | 5312 × 4592 px |
| Pixel size | 2.74 × 2.74 μm |
| Exposure time | 0.039 ... 60000 ms |

Acquisition formats

| | |
|--|---|
| Image formats, interface frame rate max. | Full Frame, 5312 × 4592 px, max. 15 fps Binning 2×2, 2656 × 2296 px, max. 15 fps Binning 2×1, 2656 × 4592 px, max. 15 fps Binning 1×2, 5312 × 2296 px, max. 15 fps |
|--|---|

| | |
|---|---|
| Image formats, acquisition frame rate max. (Burst Mode) | Full Frame, 5312 × 4592 px, max. 15 fps |
|---|---|

| | |
|---------------|--|
| Pixel formats | BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8 |
|---------------|--|

Image preprocessing

| | |
|-----------------|---|
| Analog controls | Gain (0 ... 48 dB) Offset (0 ... 255 LSB 12 Bit) |
|-----------------|---|

Image preprocessing

| | |
|------------------|---|
| Color models | Mono Raw Bayer RGB BGR |
| Color processing | Integrated color processor for high quality color calculation |

Camera features

| | |
|-------------------------|---|
| Basic Functions | Exposure Gain / Color Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image) |
| Auto Functions | Exposure Auto Gain Auto White Balance Auto Color Transformation Auto |
| Image Pre-processing | Image Flipping (X/Y) Color Processing (RGB, BGR, Mono) Color Enhancement (with optimized ColorTransformationMatrix) LUT / Gamma |
| Acquisition / Interface | Burst Mode Adjustable Framerate Device Link Throughput Limit Internal Image Buffer |
| Synchronization | free running trigger |

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Camera features

| | |
|-------------------------|---|
| Trigger sources | Hardware Software ActionCommand |
| Trigger delay | 0 ... 2 sec, tracking and buffering of up to 256 trigger signals |
| Process Synchronization | Events Timer Trigger Delay Debouncer Counter Sequencer Trigger via Action CMD (GigE) Additional Output Modes (e.g. Trigger Ready) Chunk data inside transferred image Encoder support via Counter End trigger source |
| Additional Functions | User Set Integrated temperature sensor Readable additional information (e.g. sensor information) |
| Calibration data | Integrated color correction matrix (3000 K, 5000 K, 6500 K, 9500 K, and user defined) Camera calibration data (user defined storage for intrinsic / extrinsic camera parameters, and geometry distortion values) Customer data storage (128 bytes user defined) |
| Internal image buffer | 140 MB 2 image (Trigger Mode) 1 image (Free Running Mode) |

Interfaces and connectors

| | |
|-------------------|---|
| Data interface | USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B |
| Process interface | M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180) |

Interfaces and connectors

Power supply via USB 3.0 interface

Mechanical data

| | |
|------------|---------------------------------|
| Lens mount | C-mount |
| Width | 29 mm |
| Height | 29 mm |
| Depth | 38 mm |
| Weight | ≤ 90 g |
| Material | zinc die casting, baked varnish |

Electrical data

| | |
|--------------------------|--|
| Voltage supply range +Vs | 12 ... 24 V DC (external power supply) 36 ... 57 V DC (Power over Ethernet) |
| Power consumption | Approx. 3.3 W @ 15 fps |

Non-volatile memory

Flash memory size 128 kB

Environmental conditions

| | |
|-----------------------|-------------------------------------|
| Operating temperature | 0 ... +65 ° @ T = measurement point |
| Storage temperature | -20 ... +70 °C |
| Humidity | 10 ... 90 % (non-condensing) |
| Protection class | IP 40 (with mounted lens and cable) |

Digital I/Os

| | |
|---------------------|---|
| Lines | 1 input line 1 output line 2 general purpose lines |
| Output line sources | Off Exposure Active Timer1 Readout Active User0 User1 User2 TriggerReady |

Conformity

| | |
|------------|------------|
| Conformity | CE RoHS |
|------------|------------|

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Dimension drawing

