



sensor information

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|---------------|----------------------------|
| sensor | ON Semiconductor PYTHON300 |
| type | 1/4" progressive scan CMOS |
| resolution | 640 × 480 px |
| exposure time | 0,04 ... 1000 ms |
| pixel size | 4.8 × 4.8 μm |

acquisition formats

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|--------------------------------|---|
| image formats, frame rate max. | Full Frame, 640 × 480 px, max. 217,0 fps Binning 2×2, 320 × 240 px, max. 217,0 fps Binning 2×1, 320 × 480 px, max. 217,0 fps Binning 1×2, 640 × 240 px, max. 217,0 fps |
|--------------------------------|---|

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|---------------|-----------------------|
| pixel formats | BayerRG8 BayerRG10 |
|---------------|-----------------------|

image pre-processing

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|-----------------|--|
| analog controls | Gain (0 ... 12 dB) Offset (0 ... 63 LSB 10 Bit) |
|-----------------|--|

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|--------------|-----------|
| color models | Raw Bayer |
|--------------|-----------|

interfaces and connectors

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|-------------------|---|
| data interface | Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type |
| process interface | M8 / 4 pins (SACC-DSI-M 8MS-4CON-L180) |
| power supply | M8 / 4 pins |

mechanical data

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|------------|--|
| material | zinc die casting, nickel-plated, IP 40 |
| lens mount | CS-Mount |
| width | 29 mm |
| height | 29 mm |
| depth | 49 mm |
| weight | ≤ 120 g |

electrical data

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|-------------------|------------------------------------|
| power consumption | approx. 2,2 W @ 12 VDC and 217 fps |
|-------------------|------------------------------------|

environmental conditions

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|-----------------------|------------------------------|
| operating temperature | +5 ... +65 °C |
| humidity | 10 ... 90 % (non-condensing) |
| protection class | IP 40 |

digital I/Os

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|-------|-------------------------------|
| lines | 1 input line 1 output line |
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dimension drawing

