



PicSight.com

R312AB-PoCL

Camera Link color camera

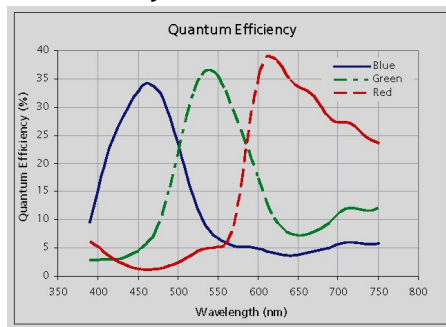
- 1/2 inch progressive scan CMOS
- 2048 × 1536 square pixels
- 12 fps, 10-bit image data
- high quality bayer decoder
- rolling shutter
- mini Camera Link connector
- power over Camera Link (PoCL)
- embedded real-time functions
- 12-bit data LUT





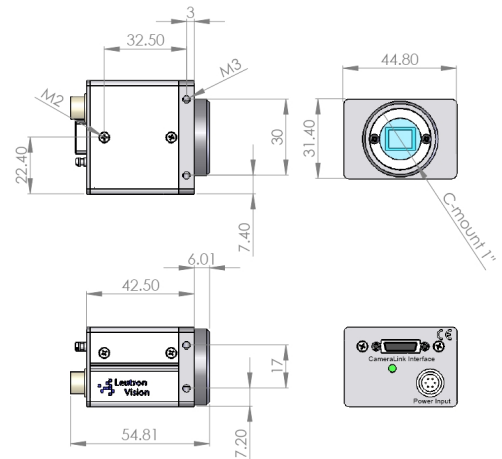
| | |
|--------------------------------------|-----------------------|
| 1/2" CMOS Sensor | Micron MT9T001 |
| Readout | sequential readout |
| Sensor size (H×V) | 6.55 × 4.92 mm |
| Output image resolution (H×V) | 2048 × 1536 pixels |
| Pixel size | 3.2 × 3.2 μm |
| Color | bayer pattern |
| Scan | progressive |
| Frame rate | 12 frames/sec |
| Shutter | rolling |
| Max. shutter time | 800 ms |
| Min. shutter time | 50 μs |
| Lens mount | C-mount |

Spectral sensitivity

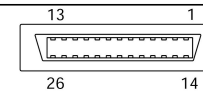


Interface

| | |
|---|---|
| Camera Link | Base |
| Connector | SDR mini CL |
| Status control | Status LED |
| Power | 10–15 V |
| Weight | 90 g |
| Operating temperature | 0–50 °C |
| Embedded Realtime Function RTF | |
| Available | 12-bit data LUT |
| Optional | 5×5 Bayer decoding 12-bit Bayer → 24-bit RGB |
| Optional | Color to monochrome conversion |
| On request | User functions |
| Software | |
| Camera configuration Windows | Standard Camera Link API |
| Camera configuration Windows/Linux | LV-SDS camera control API, Camera Editor |
| Firmware update | With Leutron FW update tool (Windows) |

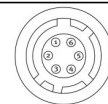


SDR 26-pin connector, female,
3M:12226-100-00 SN79155-S



| Pin | Signal | Pin | Signal |
|-----|-----------------------------------|-----|-----------------------------------|
| 1 | Power (PoCL) | 14 | Power return (PoCL) |
| 2 | Serial data 0 - | 15 | Serial data 0 + |
| 3 | Serial data 1 - | 16 | Serial data 1 + |
| 4 | Serial data 2 - | 17 | Serial data 2 + |
| 5 | Serial data Clock - | 18 | Serial data Clock + |
| 6 | Serial data 3 - | 19 | Serial data 3 + |
| 7 | Serial Communication to Camera + | 20 | Serial Communication to Camera - |
| 8 | Serial Communication to Grabber - | 21 | Serial Communication to Grabber + |
| 9 | CC1- | 22 | CC1+ |
| 10 | CC2+ | 23 | CC2- |
| 11 | CC3- | 24 | CC3+ |
| 12 | CC4+ | 25 | CC4- |
| 13 | Power return (PoCL) | 26 | Power (PoCL) |

Hirose 6-pin connector, male,
HR10A-7R-6PB-73



| Pin | Signal |
|------|-------------|
| 1, 2 | Power Input |
| 3, 4 | Reserved |
| 5, 6 | Ground |

Ordering numbers

| Number | Product name | Option |
|--------|--------------------------|--------------------|
| 441052 | PicSight R312AB-PoCL | |
| 441077 | PicSight R312AB-PoCL-RTF | Realtime function |
| 999000 | Mounting plate | For USB/CL cameras |
| 16028 | LV-SDS | Software API |

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