

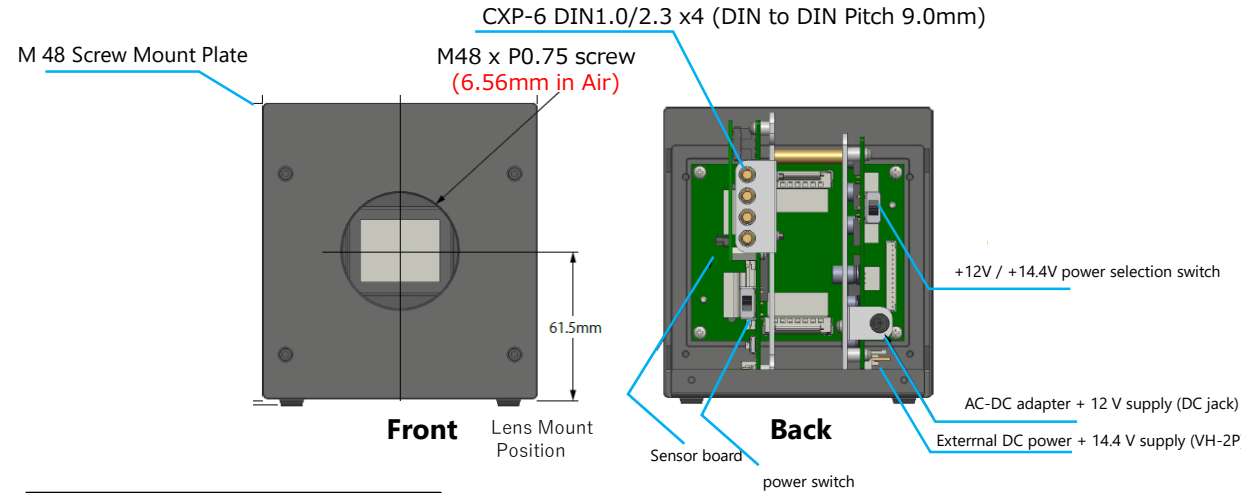
LI8020 Sensor evaluation kit



Features

- Equipped with APS-H 250M pix CMOS sensor
Ultra-high resolution imaging with 250 million pixels
(Frame rate up to 5.0 fps)
- CoaXPress Ready
High-speed data transfer (4 x 6.25 Gbps); 3.0 m maximum cable length
(operation result) * It depends on the material of the cable.
- Shooting size changing function
Vertical decimation function for decimating and outputting vertical pixels
Improved shooting frame rate
Partial extraction function for extracting and outputting one subject area
from all pixel areas
Reduces image data that is not subject to image capture and improves
frame rate (* Vertical only)

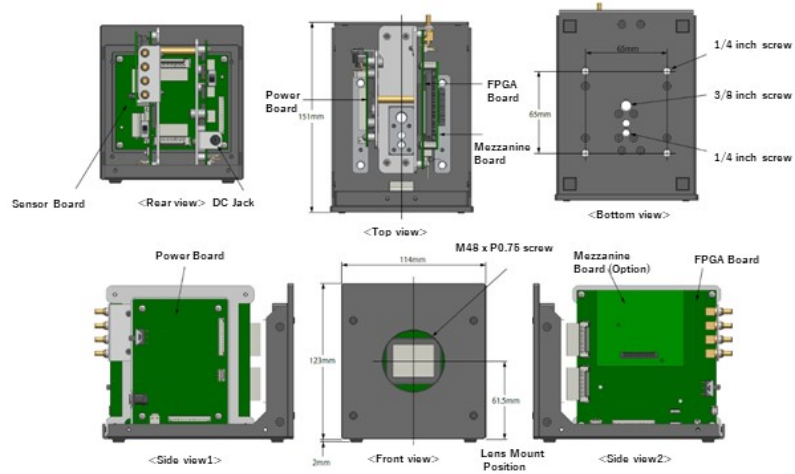
appearance and function



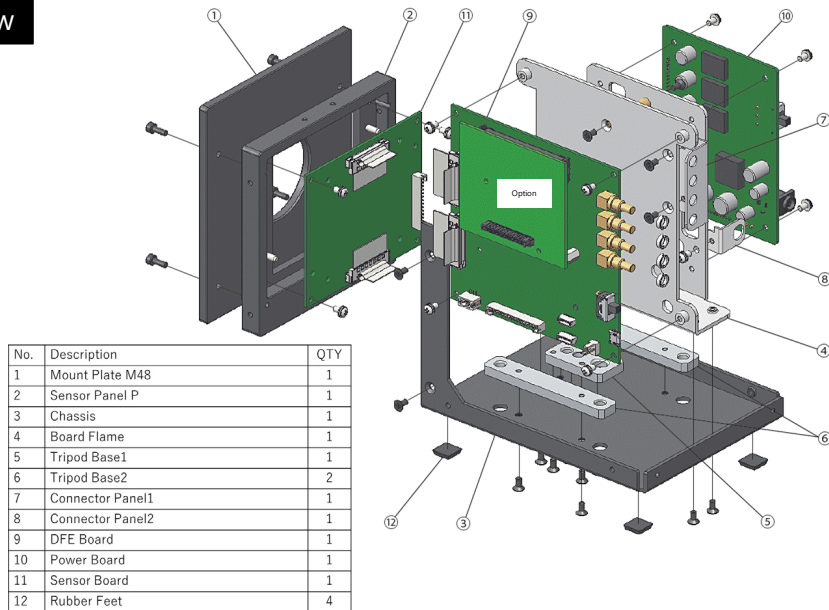
Specifications list (key words)

| | | |
|-----------------|----------------------------|---|
| Camera I/F | compliance standard | CoaXPress Ver 1.1 GenICam SNFC 2.4 |
| | Physical I/F | DIN1.0/2.3Connectorsx4 (9.0 mm pitch between DIN, according to IEC 61169 -29) |
| | Logic I/F | CXP-6 4Channel |
| | pixel bit | 10bit/12bit (Sensor image is stored in msb.) |
| | CXP LED | None |
| | PoCXP support | None |
| レンズ I/F | lens mount | M 48 Screw Mount |
| | electronic control | No Aperture or Focus |
| イメージセンサ | horizontal total | 19680 |
| | horizontal OB pixels | 96 |
| | effective horizontal pixel | 19568 |
| | vertical aggregate | 12720 |
| | vertical PED pixels | 64 |
| | vertical OB pixels | 48 |
| | effective vertical pixels | 12588 |
| | color filter | Mono/ RGB (IR cut filter is not supported) |
| | Output bit precision | 10bit/12bit |
| | frame rate | 10bit output: 5.0fps, 12bit output: 3.1fps |
| scanning system | rolling shutter | |

dimension drawing



exploded view



Specifications list (Key words and phrases)

| General | housing dimensions | About 114 mm (W)×151 mm (H)×125 mm (D) (Not including protrusions) |
|---------|--------------------|---|
| | chassis mass | About 830 g |
| | POWER | AC-DC adapter (EIAJ # 4) Supply: DC + 12 V External Supply (V-Mount Battery*): DC + 14.4V [min 12 V – max 16.8 V] |
| | Power consumption | Approx. 20 W * Reference value |
| | tripod mount | 3/8 inch and 1/4 inch screws |
| | Cover | Options |

Specifications list (camera control function)

| output image system | sensor gain | 0dB, 6dB, and 12dB (-6dB for evaluation) |
|-------------------------|--------------------|--|
| | line drive | All pixels [Default], 1/3, 1/5, 1/7, 1/9 * Start position is the first row of the aperture image area (Line # 48) *Aperture image region: a region obtained by adding a dummy region and an effective pixel region |
| | ROI (line cutting) | ROI Start Horizontal Position [96 ~ 19568] ROI End Horizontal Position [ROI Start Position ~ 19583] *The horizontal direction is set in units of 16 pixels (Minimum Cut Column: 16 columns). ROI Start Vertical Position [48 ~ 12660] ROI End Vertical Position [ROI Start Position ~ 12661] *The vertical direction is set in units of two pixels (Minimum logging line: 2 lines). |
| | frame rate | [10 bit operation] At full pixel output: 5.0 fps 8K: 24 fps , 4K: 30 fps, FHD: 60 fps (fixed frame rate) ROI (Frame rate according to the number of arbitrary pixels and the number of vertical pixels) |
| | Test Image | Color bar / Gray Scale / Cross Line / HRamp move / VRamp move / HRamp / Vramp |
| exposure control system | fast shutter | 16 us to 200 ms 1 HD increments (When all pixels are output) |
| | low-speed shutter | 200 ms to 15 sec Step of 200 ms (When all pixels are output) |
| lens system | lens control | No electronic control |

optional goods

- **Housing cover with FAN (LU5010P-001)**

Housing cover with Fan

