CHEETAH

SDI-C2010 CMOS 2 MP



Imperx: SDI-C2010

The SDI-C2010 incorporates the Sony IMX-265 CMOS image sensor in a ½" optical format delivering up to 1080p resolution at 60 frames per second with selectable 3G-SDI (SMPTE 424-1) or HD-SDI (SMPTE 292M) output. The Imperx Cheetah C2010 provides excellent sensitivity and amazing dynamic range, making it suitable for a broad range of diverse and demanding applications, but "one size doesn't fit all," and Imperx can help optimize the camera to your exact requirements.

Specifications

| Feature | Description | Feature | Description |
|---------------------------|--|----------------------------|--|
| Video Output | HD-SDI (SMPTE 292M), 3G-SDI (SMPTE-424-1) | Power Consumption | 3.6W |
| Resolution | 1920 (H) x 1080 (V) | Camera Current | Typical: 300mA/12V |
| Sensor | IMX-265 CMOS | Size - Width/Height/Length | 37mm (W), 37mm (H), 48.6mm (L) |
| Sensor Format | 1/2", 7.7mm diagonal | Weight | 91.8g |
| Pixel Size | 3.45 microns square | Vibration, Shock | TBD |
| Lens Mount | C-Mount | Environmental | -40°C to +85°C Operating, -50°C to +90°C |
| Frame Rates | 24p, 25p, 30p, 50p, 60p | | Storage |
| Digitization | 12-bit | Humidity | 10% to 90% non-condensing |
| Output Format | 10-bit, 4:2:2 (YCrCb) | MTBF | >406,000 hours @ 40°C (Telcordia SR-332) |
| Dynamic Range | 71dB | Military Standard | MIL-STD-810F |
| Gain Control | Manual, Automatic: 0 - 48dB, 480 steps | Regulatory | FCC Part 15 Class A, CE, RoHS |
| Black Level Offset | 0-511 | | |
| Shutter | Global Shutter | | |
| Exposure Range | 29 μs to 16.1 ms / 60 fps | | |
| Exposure Control | Manual, Automatic | | |
| Inputs | External tri-level sync | | |
| Outputs | Strobe, 2 nd strobe (optional), P-Iris (optional) | | |
| Camera Control | RS-232 | | |
| Image Overlay | Optical center, programmable H & V lines | | |
| Image Enhancement | Threshold, contrast enhancement, knee correction | | |
| LUT (Look Up Tables) | 4 user LUTs, 8 Gamma LUTs, and 8 Black Gamma LUTs | | |
| Minimum Illumination | 0.2 Lux, F1.2 | | |
| Test Image | HD SMPTE color bars, static/moving ramp | | |
| White Balance | Auto, once, manual, 3200k, 5600k | | |
| P-Iris Control (optional) | Auto, programmable | | |
| Supply Voltage Range | 12VDC (8V-30V), 1.5 A inrush | | |

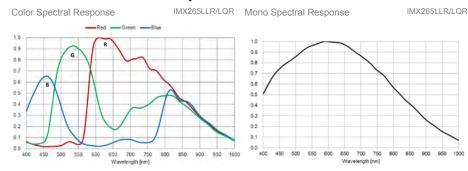


Imperx: SDI-C2010 Applications

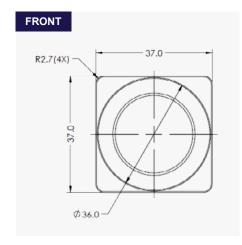
The C2010 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

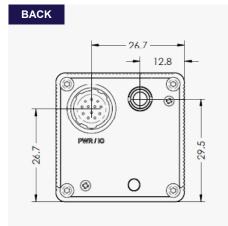
Aerospace • Satellites • Surveillance • Military and Non-Military Ground Vehicles • Ball Grid Array • Printed Circuit Board Inspection • Motion Analysis • Broadcast Television • Telepresence • Unmanned Aerial Vehicles • Machine Vision • Reconnaissance • Aerospace • Intelligent Traffic Systems • Aerial Imaging • Open Road Tolling Systems • Situational Awareness

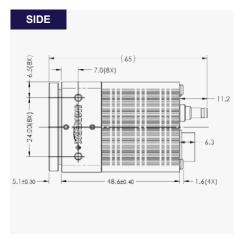
Relative Quantum Efficiency



Dimensions





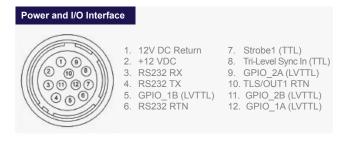


Ordering Information





Hirose Connectors



Software/Drivers/Interface





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