



CMV-65-TEC

Global Shutter CMOS

9344 X 7000 - 3.2µm PIXEL - APS Format



The CMV-65-TEC features the latest generation Gpixel GMAX3265 3.2µm charge-domain global shutter sensor. With 65MP and a 37.4mm diagonal, the CMV-65-TEC is ideal for OLED inspection and demura applications in color or monochrome.

The CMV-65-TEC offers outstanding quality by using the GPixel GMAX3265 CMOS sensor, which is thermo-cooled to 5°C. The image sensor has 14 digital outputs each running up to 50Mhz. This results in 9.1 fps at full resolution in CameraLink full mode. Higher frame rates can be achieved in ROI/windowing mode. Thermo-cooling ensures minimum dark current, thermo-noise and hot pixels by maintaining the temperature of the sensor at 5°C.

CMV-65-TEC CMOS HIGHLIGHTS

- ✓ 9344 x 7000 = 65,408,000 pixels with 3.2µm active pixels
- ✓ Dimensions 29.9 x 22.4mm imaging area ~APS
- ✓ Thermo-Cooled Sensor to 5°C @ 20°C
- ✓ No row or column defects
- ✓ Dynamic range 66dB
- ✓ Well depth 10.9Ke
- ✓ Windowing ROI capability
- ✓ Field Updatable Firmware and Extensive Built In Test (BIT)
- ✓ CameraLink output: Base, Medium, Full and Deca
- ✓ M58, Nikon F, Canon EF and OEM lens mounts

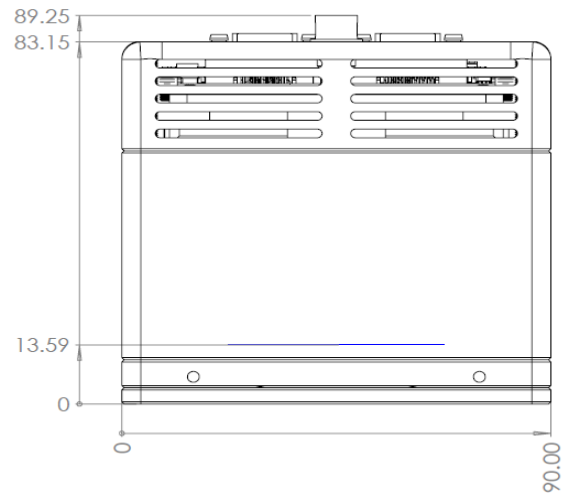
CMV-65-TEC SPECIFICATIONS

| | |
|---------------------------------------|---|
| Sensor | Cpixel GMAX3265 Monochrome, Bayer Color |
| Active Pixels | 9344 (H) x 7000 (V), 65Mpix |
| Pixel Size | 3.2 x 3.2µm with CDS |
| Active Image Size | 29.9 x 22.4mm (~APS) |
| Sensor Outputs | 14 lvs outputs from sensor. Digitized 12 bits, Output 8/10/12 bits |
| Frame Rate | See Table |
| Dynamic Range | 66dB @ gain x 1.25 |
| Pixel Clock Speed | Up to 50Mhz, 14 channels |
| Full Well Charge | 10900e @ gain 0.75 |
| Global Shutter Charge Domain Pixel | PLS < -83.5dB (1/15000) |
| Dark Noise | 5.3e/s |
| Peak QE | 65.3% |
| Min / Max Exposure | 31µsec / 65sec |
| TEC | 5°C minimum @ 20°C |
| Sensor Defects | See Table |
| Defect Correction | Pixel, Hot Pixel, Shading, Black Clamp |
| Exposure Modes | Free Run, Triggered Program, Triggered Pulse Width |
| Power | 7-12VDC at 8-24W -Reverse power protected |
| Lens Mount Options | M58, Nikon F, Canon EF, OEM |
| Options | USB3 |
| Operating Temperature | 0°C to 70°C (TBD) |
| Import Category | Digital Still Image Camera |

All illunis cameras come with our free camera control software, which allows interactive setup of all camera parameters.



DIMENSIONS



APPLICATIONS

- ✓ LCD/FPD INSPECTION > 8K FPD RESOLUTION
- ✓ OLED INSPECTION
- ✓ MICRO LED INSPECTION
- ✓ DEMURA
- ✓ LONG EXPOSURE APPLICATIONS
- ✓ SCIENTIFIC IMAGING
- ✓ MILITARY
- ✓ BIOMETRIC

| Data Interface | pixel / bits | Frame Rate |
|--------------------|--------------|------------|
| Camera Link Base | 8 / 10 / 12 | 2.4 |
| Camera Link Medium | 8 / 10 / 12 | 4.9 |
| Camera Link Full | 8 x 8 | 9.4 |
| Camera Link Deca | 8 x 10 | 9.4 |

| Defect | Grade 1 | Grade 2 | Grade 3 |
|---------------------------------|---------|---------|---------|
| Max # of Defect Pixels | 200 | 400 | 600 |
| Acceptable Cluster Size | - | 2-4 | 2-9 |
| Max # of Clusters | - | 12 | 20 |
| Max # of Defect Row and Columns | 0 | 0 | 0 |

Get in Touch

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