

CAM-CL-CG510-M



Erkennen, was möglich ist

CAM-CL-CG510-M

Basic Specifications

| | |
|------------------------------------|---|
| B/W / Colour | B/W |
| Image Size | 5.1 Mega |
| Image Sensor | IMX264: 2/3-type Global Shutter CMOS sensors (Pregius) |
| Number of Effective Pixels (H x V) | 2,464 × 2,056 |
| Cell Size (H x V) | 3.45 μm × 3.45 μm |
| Standard Output Pixels (H x V) | 2,448 × 2,048 |
| Colour Filter | - |
| Frame Rate | 14 fps (Base, 8 bit, 1 tap, Mono/Raw) 28 fps (Base, 8 bit, 2 tap, Mono/Raw) At the time of shipment 35 fps (Base, 8 bit, 3 tap, Mono/Raw) |
| Minimum Illumination | 0.5 lx (Iris: F1.4, Gain: +18 dB, Shutter: 1/30 s) |
| Sensitivity | F5.6 (400 lx, Gain: 0 dB, Shutter: 1/30 s) |
| SNR | More than 50 dB (Lens close, Gain: 0 dB, 8 bit) |
| Gain | Auto, Manual : 0 to 18 dB |
| Shutter Speed | Auto, Manual : 60 to 1/100,000 s |
| White Balance | - |

Camera features

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|------------------------|---|
| Readout Modes | Normal, Binning (1x2, 2x1, 2x2)* ¹ , Partial scan |
| Readout Features | LUT (Binarization, Gamma (Arbitrary value settable)), Test pattern |
| Synchronization | Hardware trigger, Software trigger |
| Trigger Modes | OFF (Free run), ON (Edge detection, Trigger width detection), Special trigger (Burst trigger/Bulk trigger*/Sequential trigger*) |
| Userset | 16 |
| User Memory | 32 kbytes + 64 bytes x 16ch |
| Partial Scan W (Pixel) | 16 to 2,464 |
| Partial Scan H (Line) | 4 to 2,056 |
| GPO | EXPOSURE/Strobe/LVAL/FVAL/Sensor lead out/Trigger through/Pulse generation signal/User defined 1, 2, 3 (Output switching) |
| Other Features | Area gain, Defect correction, Shading correction, Temperature readout, LUT, 3 x 3 filter |

Interface

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|--------------------------|---|
| Video Data Output | digital Mono 8, 10, 12 bit (at the time of shipping 8bit) |
| Base Clock (No. of Taps) | 45/75 MHz switchable |
| Camera Link Tap | 1/2/3 switchable |
| Digital Interface | LVDS |
| Camera Specification | Camera Link® Version2.0 |
| Output Data Clock | 45 MHz (1,2,3 tap) / 75 MHz (1,2,3 tap) |
| Digital I/O | TTL IN (x3), TTL OUT (x3) |

General

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|-----------------------------------|--|
| Lens Mount | C mount |
| Flange Back | 17.526 mm |
| Power Requirements | DC +12 V (10.5 V to 15.0 V), PoCL (10 V to 13.0 V) |
| Power Consumption | 2.7 W max. (DC +12V) |
| Operating Temperature | -5°C to +45°C (23°F to 113°F) |
| Performance Guarantee Temperature | 0°C to 40°C (32°F to 104°F) |
| Storage Temperature | -30°C to +60°C (-22°F to +140°F) |
| Operating Humidity | 20% to 80% (no condensation) |
| Storage Humidity | 20% to 80% (no condensation) |
| Vibration Resistance | 10 G (20 Hz to 200 Hz 20 minutes for each direction -x, y, z) |
| Shock Resistance | 70 G |
| Dimensions (W x H x D) | 29 × 29 × 30 mm (excluding protrusions) 1 3/16 × 1 3/16 × 1 3/16 inches (excluding protrusions) |
| Mass | Approx. 53 g (Approx. 1.9 oz) |
| MTBF | 81,562 hours (Approx. 9.3 years) |
| Regulations | UL60950-1, FCC Class A, CSA C22.2-No.60950-1, IC Class A Digital Device, CE : EN61326 (Class A), AS EMC: EN61326-1, VCCI Class A, KCC, CU-TR EAC |
| Supplied Accessories | Lens mount cap (1), Safety Regulations* ² (1) |

1. The frame rate does not change.
2. Notes related to safety. Conventional instruction manual content will be included in the "Technical Manual".

