

# CAM-CL-CG160-M



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## CAM-CL-CG160-M

### Basic Specifications

B/W / Colour	B/W
Image Size	1.6 Mega
Image Sensor	IMX273: 1/2.9-type Global Shutter CMOS sensors (Pregius)
Number of Effective Pixels (H x V)	1,456 × 1,088
Cell Size (H x V)	3.45 μm × 3.45 μm
Standard Output Pixels (H x V)	1,440 × 1,080
Colour Filter	-
Frame Rate	44 fps (Base 8bit 1tap, Mono/Raw) 90 fps (Base 8bit 2tap, Mono/Raw) At the time of shipment 127 fps (Base 8bit 3tap, 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

Readout Modes	Normal, Binning (1x2, 2x1, 2x2), Decimation, Partial scan (Multi ROI)
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*) *Except XCL-CG160/CG160C
Userset	16
User Memory	32 kbytes + 64 bytes x 16ch
Partial Scan W (Pixel)	16 to 1,456
Partial Scan H (Line)	8 to 1,088
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

Video Data Output	digital Mono 8, 10, 12 bit (at the time of shipping Mono 8 bit)
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

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 x 29 x 30 mm (excluding protrusions) 1 3/16 x 1 3/16 x 1 3/16 inches (excluding protrusions)
Mass	Approx. 53 g (Approx. 1.9 oz)
MTBF	76,315 hours (Approx. 8.7 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*1 (1)

1. Notes related to safety. Conventional instruction manual content will be included in the "Technical Manual".

