

# CAM-CL-CG510-C



## CAM-CL-CG510-C

### Basic Specifications

B/W / Colour	Color
Image Size	5.1 Mega
Image Sensor	IMX264: 2/3-type CMOS Image sensors with a global shutter function (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	RGB Colour mosaic filter
Frame Rate	23 fps (8 bit, Mono/Raw)
Minimum Illumination	12 lx (Iris: F1.4, Gain: +18 dB, Shutter: 1/30 s)
Sensitivity	F5.6 (2000 lx, Gain: 0 dB, Shutter: 1/30 s)
SNR	More than 50 dB (Lens close, Gain: 0 dB, 8 bit)
Gain	Auto, Manual : 0 dB to 18 dB
Shutter Speed	Auto, Manual : 60 to 1/100,000 s
White Balance	Manual, One push

### Camera features

Readout Modes	Normal, 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*) *Except XCL-CG160/CG160C
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

Video Data Output	digital Raw; 8, 10, 12 bit (at the time of shipping 8 bit); digital RGB 24 bit
Base Clock (No. of Taps)	45/75 MHz switchable
Camera Link Tap	1/2/3 switchable
Digital Interface	LVDS
Camera Specification	Camera Link® Version 2.0
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 × 29 × 42 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. Notes related to safety. Conventional instruction manual content will be included in the "Technical Manual".

