

XCL-SG Series

Digital Video Camera Module

Sony is expanding its popular XCL CameraLink Series with the introduction of two new high-quality cameras.

Exmor Pregius  PoCL



XCL-SG510/510C
2/3-type 5.1MP 154fps

The new XCL-SG510 (monochrome) and XCL-SG510C (color) integrate Sony's 2/3-type CMOS image sensors with a global function that can accurately capture high-speed moving images. These cameras realize 5.1-megapixel resolution with 154 frames per second (fps) in 80 bit configuration. They offer some unique image processing features such as Wide dynamic range and Frame accumulation. In addition, these new cameras incorporate advanced features such as Area gain, Multi ROI and Area Exposure.

These promising features and benefits make XCL-SG Series cameras ideal for various uses including ITS (Intelligent Transportation System), factory automation, food and beverage inspection, and pharmaceutical applications.

Key Features

Shading correction

Temperature readout

Defect correction

Trigger Mode: Free run/ Special trigger mode
(Bulk trigger/Sequential trigger)

Readout mode:
Normal/Binning (XCL-SG510C)/ Partial scan

3 x 3 filter

Readout features: Built-in test pattern/LUT
(Binarization, Gamma (variable))

One-push WB, Manual (XCL-SG510C)

CameraLink Ver.2.0

PoCL / DC 12 V support

Dimensions (excluding protrusions):
44 (W) x 44 (H) x 30 (D) mm

C-mount

High shock and vibration resistance

Support functions

High frame rate 154 fps

- High Frame Rate transfer
- Full: 154 fps (8-bit x 10 tap)
- Medium: 64 fps (8-bit x 4 tap)
- Base: 48 fps (8-bit x 3 tap)

Unique Image Processing

- Wide dynamic range
- Flame accumulation
- Area exposure
- Area gain
- Multi ROI

Selectable Cable

- PoCL support
- 80 bit / Full / Medium / Base configuration support

