PRELIMINARY INFORMATION

50Gbps transfer bandwidth provided by CXP-12 Quad

67MP resolution

CoaXPress 2.0 | EX Series

High-speed Interface High-end Camera

Mounted with e2v global shutter CMOS sensor

CoaXPress

EX670AMG-X

CXP-12 Quad | EX series | 60×60×80mm | 300g

67 MP | 60 fps | B/W | Bandwidth 50G

Feature

- 50Gbps transfer bandwidth provided by CoaXPress 2.0 CXP-12 Quad
  - Bandwidth ten times wider than USB 3.1 Gen1 (USB 3.0)
  - Bandwidth seven times wider than the Camera Link Full configuration
- The 67Mp resolution and the electronic global shutter make it possible to capture fast moving subjects sharply with minimal motion blur.
- The optional F or M42 mount adapter makes it possible to use various lenses, including those for single-lens reflex cameras.
- Teli Core Technology contributes to the enhancement of the response speed of camera systems.
- The EX Series can be connected to various image processing systems with a flexible and reliable long coaxial cable.

F-mount / M42-mount conversion adapter (Optional)

70th TOSHIBA TELI Anniversary

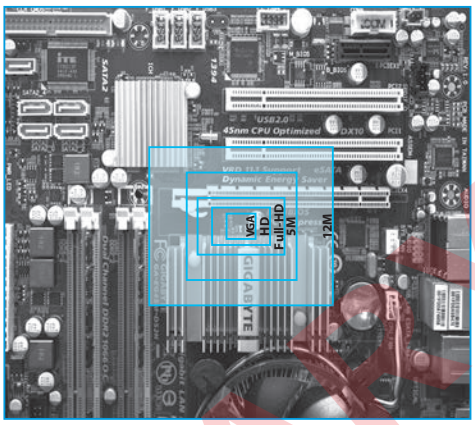
Toshiba Teli Corporation

https://www.toshiba-teli.co.jp/en/

Specifications

B/W or COLOR	B/W
Pixels	67M
Items \ Model	EX670AMG-X
Interface	CoaXPress 2.0 CXP-12 Quad
Imager	CMOS image sensor
Imager model	EV2S67MB
Resolution	8,192(H) x 8,192(V)
Frame rate	60fps < (CXP-12 Quad, Mono 8bit), 30fps (CXP-6 Quad, Mono 8bit), 15fps (CXP-12, Mono 8bit), 7.5fps (CXP-6, Mono 8bit)
Pixel size	2.5µm x 2.5µm
Scanning area	20.48mm(H) x 20.48mm(V)
Image size	1.8 type (APS-C)
Aspect ratio	1:1
Scanning	Progressive
Electronic shutter method	Global shutter
Random Trigger Shutter Type	External Trigger / Software Trigger / Link Trigger
Random Trigger Shutter Mode	Edge / Level / Bulk (255 times)
Sequential shutter	-
Exposure Time	MANUAL : 30µs to 1s Random Trigger Shutter : 30µs to 1s (Timed or Bulk mode), 200µs to Trigger width (TriggerWidth mode)
Synchronization System	Internal
Optical glass/filter	Dust-proof glass
Sensitivity	TBD lx
Minimum illuminance	TBD lx
Gain	MANUAL : 0 to +36dB
Black Level	-25% to +25%
Gamma / LUT	γ=1.0 to 0.45 / In 12bit, Out 12bit
Image Output Format	Mono12, Mono10, Mono8
Readout Mode	All pixel, ROI, Binning, Subsampling, Mirroring, Flip
External trigger input	Low: 0 to 0.5V, High: 2 to 24.0V High active / Low active, Pulse width: 200µs (minimum)
Power supply	PoCXP / DC+24V (18.5V to 26V) (HIROSE connector)
Power consumption	13W max.
Lens mount	Mountless (Φ50 H7)
Mount adapter option	F-mount / M42-mount conversion adapter (provisional)
External dimension	60(W) x 60(H) x 80(D) mm (Not including protruding parts)
Mass	approx. 300g
Operation temperature	0 °C to 40 °C (below TBD °C on cabinet surface)
Operation humidity	10% to 90% (no condensation)
Conformity	CE, FCC, RoHS, WEEE, CoaXPress 2.0, GenICam, IIDC2

Wider shooting field of view with high resolution of 67MP



VGA (640×480)

HD (1,280×720)

Full-HD (1,920×1,080)

5M (2,448×2,048)

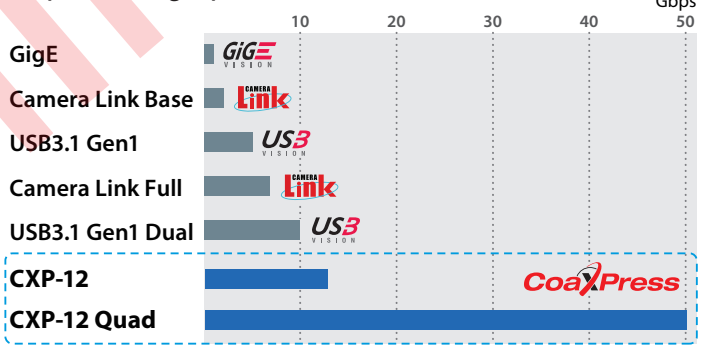
12M (4,000×3,000)

67M (8,192×8,192)

67M (8,192×8,192) * The above image is the result of software simulation.

50Gbps transfer bandwidth provided by CoaXPress 2.0 CXP-12 Quad

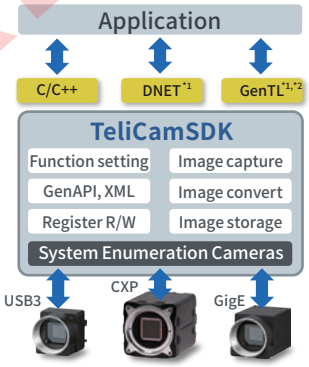
Comparison of high-speed interface



* These are the data transfer bands of each interface and are different from the video data transfer bands.

TeliCamSDK

- Varieties of functions for easy programming
- Easy to capture image
- GEN<i>CAM available
- Abundant sample code
- Easy to understand manuals
- Unified SDK for USB3, GigE & CXP

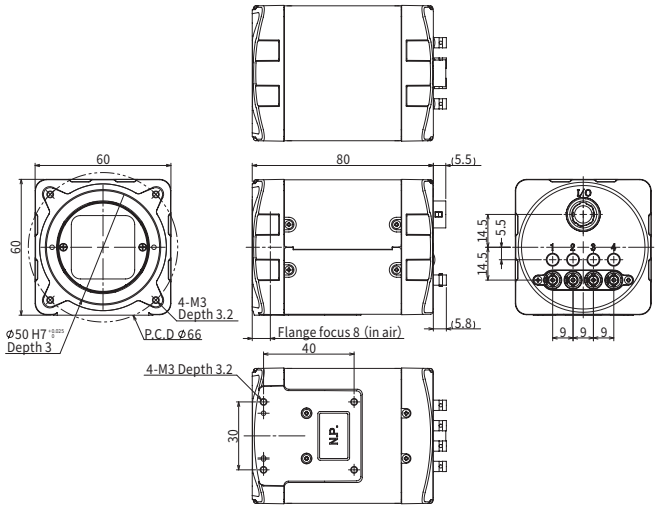


OS*3/ Distribution*3	Windows			Linux						
				Intel / AMD						
				Ubuntu			Debian	CentOS	Fedora	ARM
	7 SP2	8.1	10	14.04 LTS amd64	16.04 LTS amd64	18.04 LTS amd64	8.1.0 amd64	7.3 amd64	27 amd64	
Support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

TeliCamSDK for Linux supported ARM architectures. - Jetson TK1 / Jetson TX2 / Jetson nano / Odroid XU4 *4 / Raspberry pi 3 *4, *5

*1: for Windows / *2: USB only / *3: Please contact us for other OS and distributions. / *4: With a GigE camera, image might be missed depending on PC specifications. / *5: USB3 camera cannot be used.

Outline drawing



Notes on Safety

- Before using this product, please read "Operation Manual" carefully in order to use this product safely and correctly.
- If this product should be used in the extraordinary conditions or environments, or if you have any questions or problems, please contact our sales division.

Toshiba Teli Corporation

https://www.toshiba-teli.co.jp/en/

teli camera

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