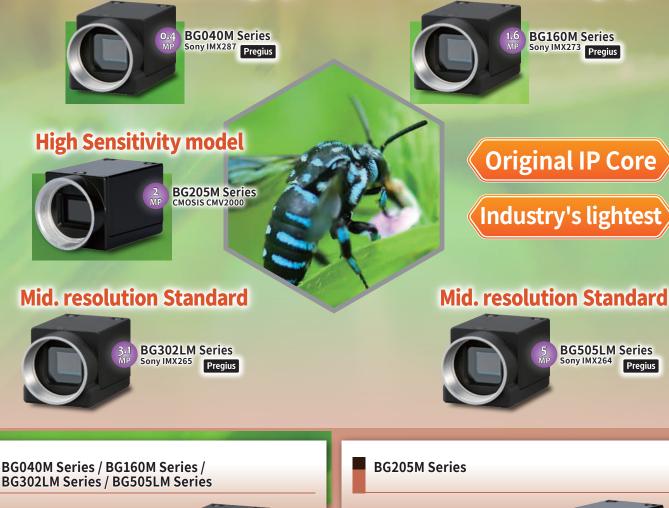
## **Toshiba Teli's proud GigE Machine Vision Camera BG** Series

Low resolution & High fps



- Teli Core Technology Inside
- Sony CMOS sensor
- PoE / DC 12V====
- IEEE802.3ab (1000BASE-T)
- 1 Trigger Input

Sony CCD sensor / • PoE / DC 12V IEEE802.3ab

 $29 \times 29 \times 40 \text{ mm}$  60g

• 1 Trigger Input 2 GPIO (2 Output)

**CMOSIS** sensor



Low resolution & High fps



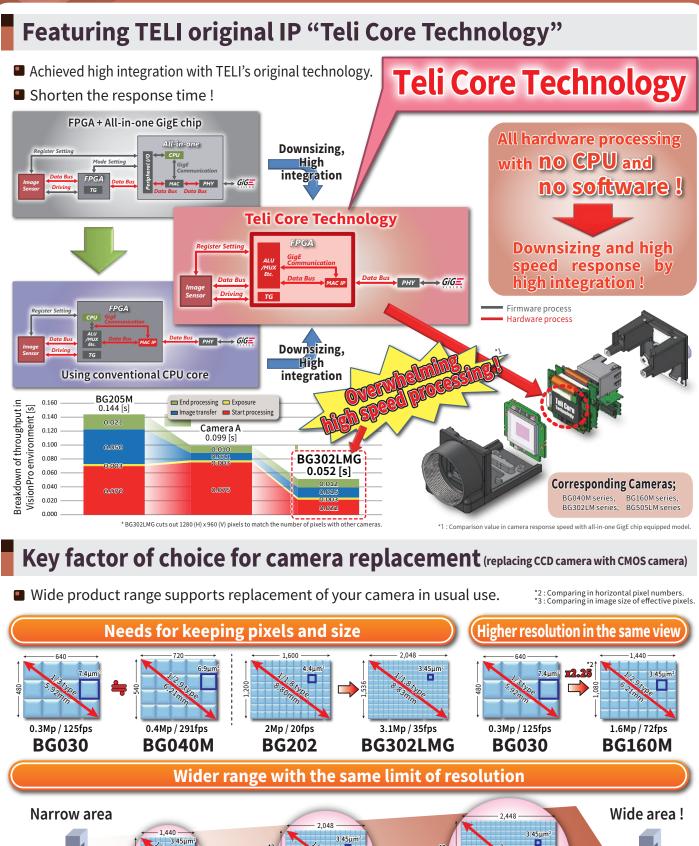
 $29 \times 29 \times 40 \text{ mm}$  53g

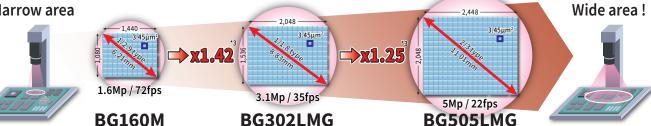
### **Toshiba Teli Corporation**



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

# Toshiba Teli GigE Camera BG Series





#### Sequential Shutter mode + Bulk Trigger mode Output several images of different setting with one trigger pulse. Easy to capture the images for desirable inspection. Ext. Trigger in Camera settings Corresponding Cameras; Image output BG040M series, BG160M series, BG302LM series, BG505LM series **Camera Settings** Setting Setting 1 **Setting 2** Setting 1 Memory Bank 1 Setting 2 Memory Bank 2 Get desirable image Save settings Setting 3 Load Memory Bank 3 any Setting Memory Bank 3 Memory Bank 4 Setting camera conditions Memory Bank 1 **Memory Bank 2** Memory Bank 15 **Event Notifications** Camera notifies status information 1 FrameTrigger : Reception of Frame Start Trigger via event packet ! 2 FrameTriggerError : Rejection of Frame Start Trigger Event notice without delay by the 3 FrameTriggerWait : Start of waiting for Frame Start Trigger 4 FrameTransferStart : Start of transferring Streaming Data Teli Core Technology. 5 FrameTransferEnd : End of transferring Streaming Data Rendering great service to vision 6 ExposureStart : Start of Exposure systems with high speed as its 7 ExposureEnd : End of Exposure Corresponding Cameras; 8 Timer0Start : Start of Timer "0" BG040M series, BG160M series, BG302LM series, BG505LM series important feature. 9 Timer0End : End of Timer "0" **Detected signal Trigger** input **Event notifications** Command

#### BG205M-CS (Featuring CMOSIS Sensor)

- High sensitivities (1,200 lx, F11, 1/50s)
- Clear image by FPN correction
- Featuring CS mount suitable for ITS

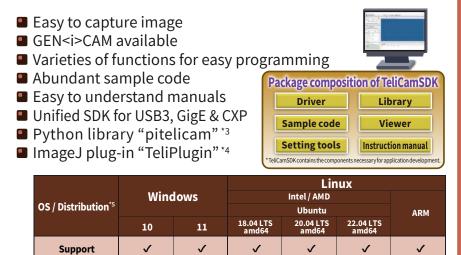




Example of triaxial robot

#### **TeliCamSDK**

	Application										
	1		\$		\$	\$					
	Pytho	on	DNET '	1	C/C++	GenTL*1,*2					
TeliCamSDK											
	Function setting				Image capture						
	GenAPI,XML				Image convert						
	Register R/W				Image storage						
System Enumeration Cameras											
U	SB3	ι	JSB3		CXP	GigE					
BU s	series		) J series U series		EX series	BG series					



TeliCamSDK for Linux supported ARM architectures. - Jetson nano / Raspberry pi 4<sup>\*6</sup>

\*1: for Windows / \*2: for USB. CXP / \*3: Supports TeliCamSDK v4.0.0.1 or later / \*4: Supports TeliCamSDK v4.0.1.1 or later / \*5: Please contact us for other OS and distributions. / \*6: Image might be missed depending on PC specifications.

### **Specifications**

MODEL'1	BG040M	BG040MCG BG040MCF	BG160M	BG160MCG BG160MCF	BG205M-CS		
B/W or COLOR	B/W	COLOR	B/W	COLOR	B/W		
Pixels	0.4M			2.2M			
mager model	Sony IMX	287	Sony IMX273		CMOSIS CMV2000		
mager size / type*2	1/2.9 type GS	-CMOS	1/2.9 type GS-CMOS		2/3 type GS-CMOS		
Resolution	720 x 54	0	1,44	2,048 x 1,088			
Frame rate	291 fps	5	7	40 fps			
Pixel size	6.90 x 6.90	μm	3.45	5.5 x 5.5 μm			
ſELI Core Technology <sup>™</sup>	Fechnology <sup>'3</sup> √			$\checkmark$			
Event notifications	fications 🗸 '4			√ *4			
Bulk trigger	$\checkmark$			$\checkmark$			
mage buffer	$\checkmark$			-			
Sequential shutter	$\checkmark$			-			
Short exposure mode*5	$\checkmark$			-			
ens mount	nount C mount		C mount		CS mount		
Product availability (CY)	Available		Available		Available		
MODEL'1	BG302LMG	BG302LMG BG302LMCG BG505LMG		BG505LMCG BG505LMCF			
3/W or COLOR	B/W	COLOR		B/W	COLOR		
Pixels		3.1M	5M				
mager model		Sony IMX265		Sony IMX264			
mager size / type <sup>*2</sup>	1/1	8 type GS-CMOS		2/3 type GS-CMOS			
Resolution		2,048 x 1,536		2,448 x 2,048			
rame rate		35 fps		22 fps			
Pixel size		3.45 x 3.45 μm		3.45 x 3.45 μm			
ELI Core Technology <sup>*3</sup>		$\checkmark$		$\checkmark$			
event notifications		√ *4	√*4				
Bulk trigger		√	$\checkmark$				
mage buffer		√	√				
equential shutter		$\checkmark$	$\checkmark$				
Short exposure mode'5		-					
ens mount		C mount		C mount			
Product availability (CY)		Available		Available	Available		

\*2 : Imager type \*3 : Teli Core Technology

GS-CMOS: Global shutter type CMOS sensor (RS-CMOS: Rolling shutter type CMOS sensor) Featuring TELI original IP "Teli Core Technology"

\*4 : Event notifications; (CMOS model) \*5 : Short exposure mode

FrameTrigger, FrameTriggerError, FrameTriggerWait, FrameTransferStart, FrameTransferEnd, ExposureStart, ExposureEnd, Timer0Start and Timer0End are available.

The mode to switch it for short time exposure (approx. 1.1µs or more) by enhancing electronic shutter. (Contact for details)



- Before using this product, please read "Operation Manual" carefully in order to use this product afely 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 Search

The information of this catalog is subject to change without notice. 🛛 Pregius logo is trademark of Sony Corporation. Company name, product name or logo might be trademark or registered trademark of each company or organization. • We shall be exempted from taking responsibility and held harmless for damage or losses incurred by the user.

The information of this catalog is current as of November 2023. 4000-0349-2311