OMRON

Industrial Cameras

STC/FS Series

Make It Faster, Make It Simpler

OMRON has been developing high speed & high performance image processing systems in order to meet the needs of the automation world pursues. And now, image processing began to spread all over the world and the evolution speed of people want is getting higher. For our customers' satisfaction, we start to deliver OMRON SENTECH (former SENTECH)'s cameras. OMRON SENTECH is a manufacturer specializing in industrial cameras that became a new member of the OMRON group. Those cameras make the conventional systems simpler, faster and more flexible. Also they make it easy to assist the visual inspection to capture enlarged images without pc.

OMRON SENTECH

Notes for Purchase

- Please contact the trading company for delivery date.
- All cameras in this catalog can not be connected to the image processing system such as FH / FZ / FJ series.

Dimensions

- This catalog contains the dimensions (unit : mm) of a typical model. Please confirm the CAD data for the dimensions of models not mentioned.

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How to Choose a camera
GigE
USB3.0
CoaXPress
Opt-C:Link
Camera Link
SWIR
HDMI/DVI/SDI
Analog Progressive
TV Format
Small Board Camera
Accessories

Broad Product Selection

INDUSTRIAL CAMERAS LINEUP

We offer a wide range of products, with both analog and digital interfaces. Our lineup of basic products alone boasts an extensive roster of 360 models with support for 12 interfaces.
The same sensors are provided with different interfaces, allowing you to choose the right product for your purpose.
We offer a wide range of models—from case cameras to board cameras, remote head cameras, and ultra-compact cameras—all built on our unique machined aluminum casing platform that guarantees durability and reliability.

GiGE VISION

CoaXPress®

CAMERA Link® REGISTERED PRODUCT

USB3™ VISION

Opt-C:Link

HDMI/HD-SDI

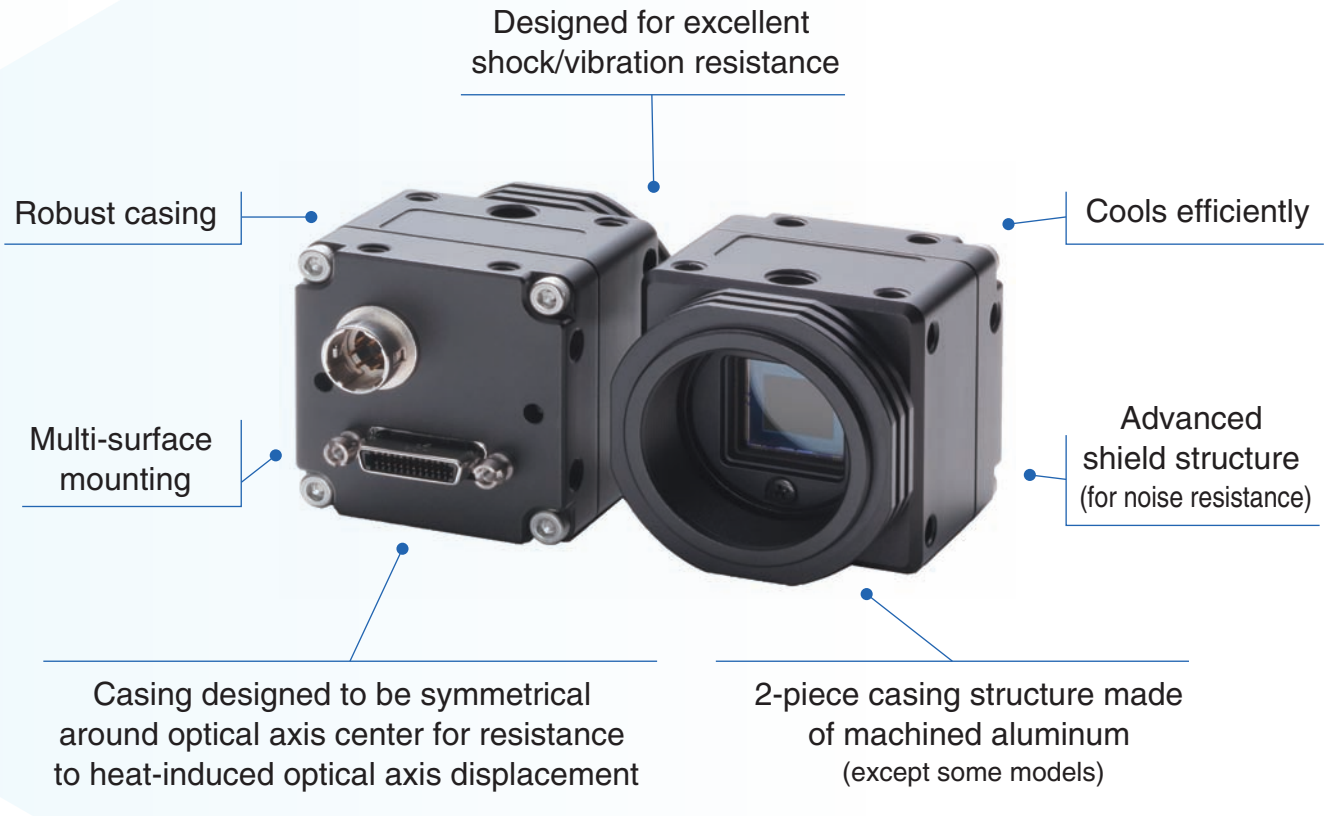
Analog Progressive

TV Format

Reliable Manufacturing

Our products are manufactured in dedicated lines in our partner plants in Japan.
The annual production volume is 150K units.

Our cameras can be reliably used on the ground in factory automation applications.



How to Choose a Camera
Camera Line-up Chart

How to Choose an Image Sensor

- ☐Monochrome
  - →Mono or Color?
- ☐Number of Pixels
  - →Optimal Resolution for Your Application
- ☐Scan Speed
  - →Required FPS
- ☐Sensor Size?

How to Choose the Interface

- ☐Connect to
  - →Monitor or PC?
- ☐Cable Length
  - →Distance Between the Camera and the Equipment
- ☐The Number of Cameras
  - →How many cameras for one PC?

Based on factors such as decided specifications, system outline and cost image, refer to the following per-interface comparison table and product lineup chart to choose the optimum Sentech camera.

Interface when using a PC / Interface when not using a PC / Interface not offered by OMRON

Interfaces	GigE Vision®	USB		CoaXpress	Opt-C:Link	Camera Link		Analog	HD-DVI	HD-SDI	TV Formats	IEEE1394b	Camera Link HS
		USB2.0	USB3.0			Base	Full						
Monitor Display	PC Required								Can be connected directly to monitor				
Connection Port	Gigabit Ethernet Port	USB2.0 Port	USB3.0 Port	CoaXpress Grabber Board	Opt-C:Link Grabber Board	Camera Link Frame Grabber Board		Analog Frame Grabber Board	HDMI Port DVI Port	SDI connector	RCA connector BNC connector	Required	Camera Link HS Grabber Board
Cable	Ethernet cable Cat 5e or higher	USB2.0 Cable	USB3.0 Cable	Coaxial Cable	Optical cable	Camera Link Cable		12-pin Cable	HDMI/DVI Cable	Coaxial Cable for SDI	Coaxial Cable	IEEE1394b Cable	Camera Link HS Cable
Max. Cable Length	100 m	5 m	3 m	25 m	150 m	Approx. 5 m to 12 m		100 m	5 m	100 m	100 m	100 m	15 m
Image Transmission Capacity	☆☆	☆	☆☆☆	☆☆☆☆☆	☆☆☆☆☆	☆☆	☆☆☆☆	☆☆	☆☆	☆☆	☆	☆☆	☆☆
Max. Transmission Speed	1 Gbps	0.48 Gbps	5 Gbps	25 Gbps	12.5 Gbps/ 40 Gbps	240 fps 30 Megapixel - 16 fps 500 Megapixel (2.38 Gbps)	600 fps 30 Megapixel - 60 fps 1200 Megapixel (7.14 Gbps)	90 fps 30 Megapixel - 15 fps 200 Megapixel	60 fps 1080 p	60 fps 1080 p	59.94 fps 30 Megapixel (interlaced)	800 Mbps	2,100 Mbps
Power over Cable	○(PoE Model)	○(All Models)		○	Separate Power Supply	○(PoCL Model)		Separate Power Supply	Separate Power Supply	Separate Power Supply	Separate Power Supply	○	○
Software Provider	Camera Manufacturer	Camera Manufacturer		Board Manufacturer	Board Manufacturer	Board Manufacturer		Board Manufacturer	Not required			Camera Manufacturer	Board Manufacturer
System Cost	Low	Low		High	High	High		High	Low	Mid	Low	Low	High
Multiple Device Connection	Add Ethernet card or use switching hub	Add USB port expansion card (hub not recommended)		Add frame grabber board	Add frame grabber board	Add frame grabber board		Add frame grabber board	Use switcher			IEEE1394b expansion card, use hub	Add frame grabber board
Advantages	- Long cable length - Cheap cost to connect multiple cameras - Frame grabber not required	- Easy to connect - Low cost - Cheap cost to connect multiple cameras		- Long cable length - High transmission capacity	- Long cable length - Strong to noise	- Proven track record - High transmission capacity		- Proven track record - Long cable length	- Can easily be connected directly to monitor	- Long cable length	- Proven track record - Low cost - Long cable length	- Proven track record	- High transmission capacity - Smaller connector compared with Camera Link
Disadvantages	- Lower fps comparing with other interfaces	- Short cable length		- No extensive track record - High board cost	- No extensive track record - Few compatible board	- Short cable length - High board and cable cost - High cost to connect multiple cameras		- High board and cable cost	- Short cable length - No trigger function	- Few SDI-compatible monitors	- Low resolution	- Short cable length - IEEE1394b card required	- High board and cable cost
Main Applications	- Image processing - Monitoring	- Image processing - Monitoring		- Image processing - Monitoring	- Image processing - Monitoring	- Image processing		- Image processing	- Monitoring		- Image processing - Monitoring	- Image processing	- Image processing

* System costs, advantages and disadvantages are subjective opinions by OMRON

Per-interface comparison table
Camera Line-up Chart

	0.4 - 0.5 M	1.3 - 1.6 M	2 M	3.2 M/4 M	5 M	6 - 9 M	12 M	16 - 20 M	25 M
GigE Vision	0.4M IMX287	1.3M EV76C560	2M IMX430	3.2M IMX265	5M MT9P031	6.4M IMX178	12M IMX226	20M IMX183	
	0.5M IMX433	1.6M IMX273	2.3M IMX249	4M CMV4000	5M IMX264	8.9M IMX267	12M IMX304		
	0.3M (SWIR) IMX991	1.3M (SWIR) IMX990			5M AR0521				
USB3 Vision	0.4M IMX287	1.3M EV76C560	2.3M IMX249	3.2M IMX265/252	5M MT9P031	8.9M IMX267/255	12M IMX226	20M IMX183	
	0.3M (SWIR) IMX991	1.6M IMX273		4M CMV4000	5M IMX264/250	6.4M (Board) IMX178	12M IMX304/253		
		1.3M (SWIR) IMX990					12M (Board) IMX226		
Camera Link	0.4M IMX287	1.6M IMX273	2M IMX430	3.2M IMX265/252	5M MT9P031	8.9M IMX267/255	12M IMX304/253		25M Python25k
	0.5M IMX433	1.3M (SWIR) IMX990	2M CMV2000	4M CMV4000	5M IMX264/250		12M CMV12000		25M GMAX0505
	0.3M (SWIR) IMX991								
CoaXPress	0.4M IMX287	1.6M IMX273	2M IMX422	3.2M IMX252	5M IMX250	8.1M IMX546	12M CMV12000	16.2M IMX532	24.6M IMX530
				4M CMV4000	5M IMX547		12M IMX304/253	20.4M IMX531	25M GMAX0505
							12M IMX545		
Opt-C:Link							12M CMV12000		
HD Camera			1080P IMX291			2160P IMX274			
Analog Progressive	VGA RJ33B4AA0DT								
TV Format	0.65M ISX017								
UVC (USB 3.0)		1.3M ISX017							
MIPI		1.3M ISX017							

Note. Bule : Now on sale, Green : Coming soon.

GigE Vision Small CMOS Camera M Series

Description

PoE-compatible GigE Vision camera with high-resolution, high-speed CMOS sensor

Features

More compact (29 mm square) than previous model (35 mm square)
30 mm x 40 mm casing that can accommodate large image sensors of 1 inch or more
Supports GigE Vision ver. 2.1 and newly provides PTP support and other features
Extensive lineup of 0.4-20 MP products

Product Line-up

Global shutter models

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	Dimensions (mm)
STC-MBS43POE	Monochrome	0.4M	282.8 fps	720 × 540	1/2.9	6.9 × 6.9	IMX287	C	29 × 29 × 53
STC-MCS43POE	Color								
STC-MBS52POE	Monochrome	0.5M	166.5 fps	816 × 624	1/1.7	9 × 9	IMX433	C	
STC-MCS52POE	Color								
STC-MBE132POE	Monochrome	1.3M	61 fps	1280 × 1024	1/1.8	5.3 × 5.3	EV76C560	C	
STC-MCE132POE	Color								
STC-MBS163POE	Monochrome	1.6M	70.7 fps	1440 × 1088	1/2.9	3.45 × 3.45	IMX273	C	
STC-MCS163POE	Color								
STC-MBS202POE	Monochrome	2M	54.6 fps	1624 × 1240	1/1.7	4.5 × 4.5	IMX430	C	
STC-MCS202POE	Color								
STC-MBS231POE	Monochrome	2.3M	41.6 fps	1920 × 1200	1/1.2	5.86 × 5.86	IMX249	C	
STC-MCS231POE	Color								
STC-MBS312POE	Monochrome	3.2M	34.9 fps	2048 × 1536	1/1.8	3.45 × 3.45	IMX265	C	
STC-MCS312POE	Color								
STC-MBS500POE	Monochrome	5M	21.9 fps	2448 × 2048	2/3	3.45 × 3.45	IMX264	C	
STC-MCS500POE	Color								
STC-MBS881POE	Monochrome	8.9M	12.4 fps	4096 × 2160	1	3.45 × 3.45	IMX267	C	30 × 40 × 54.5
STC-MCS881POE	Color								
STC-MBS122BPOE	Monochrome	12.3M	8.9 fps	4096 × 3000	1.1	3.45 × 3.45	IMX304	C	
STC-MCS122BPOE	Color								

Rolling shutter models

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	Dimensions (mm)
STC-MBA503POE	Monochrome	5M	14 fps	2592 × 1944	1/2.5	2.2 × 2.2	MT9P031	C	29 × 29 × 53
STC-MCA503POE	Color								
STC-MBA503POE-HS	Monochrome	5M	21.8 fps	2592 × 1944	1/2.5	2.2 × 2.2	AR0521	C	
STC-MCA503POE-HS	Color								
STC-MBS642POE	Monochrome	6.4M	17.4 fps	3072 × 2048	1/1.8	2.4 × 2.4	IMX178	C	
STC-MCS642POE	Color								
STC-MBA1002POE	Monochrome	10M	10.3 fps	3856 × 2764	1/2.3	1.67 × 1.67	MT9J003	C	
STC-MBS1242POE	Monochrome	12M	9.2 fps	4000 × 3000	1/1.7	1.85 × 1.85	IMX226	C	
STC-MCS1242POE	Color								
STC-MBS2041POE	Monochrome	20.4M	5.5 fps	5472 × 3648	1	2.4 × 2.4	IMX183	C	30 × 40 × 54.5
STC-MCS2041POE	Color								

Note. Supply power via PoE or power supply and I/O cable.
PoE NIC or Ethernet switch separately needed to supply power via PoE.

Accessories

Screw-Fastened GigE Cables		
Model	Length	Cable Type
CAB-GE-02-RBH	2 m	Bending resistance cables
CAB-GE-03-RBH	3 m	
CAB-GE-05-RBH	5 m	
CAB-GE-10-RBH	10 m	
CAB-GE-20-RBH	20 m	
CAB-GE-40-RBH	40 m	
CAB-GE-02-RBX	2 m	Super bending resistance cables
CAB-GE-03-RBX	3 m	
CAB-GE-05-RBX	5 m	
CAB-GE-10-RBX	10 m	
CAB-GE-20-RBX	20 m	
CAB-GE-40-RBX	40 m	

Power Supply and I/O Cables	
Model	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

Note. Please connect the cables according to the external connector specifications prescribed in your camera's specification documents, for faulty wiring can cause failure.
Note. Connect the shell to FG.

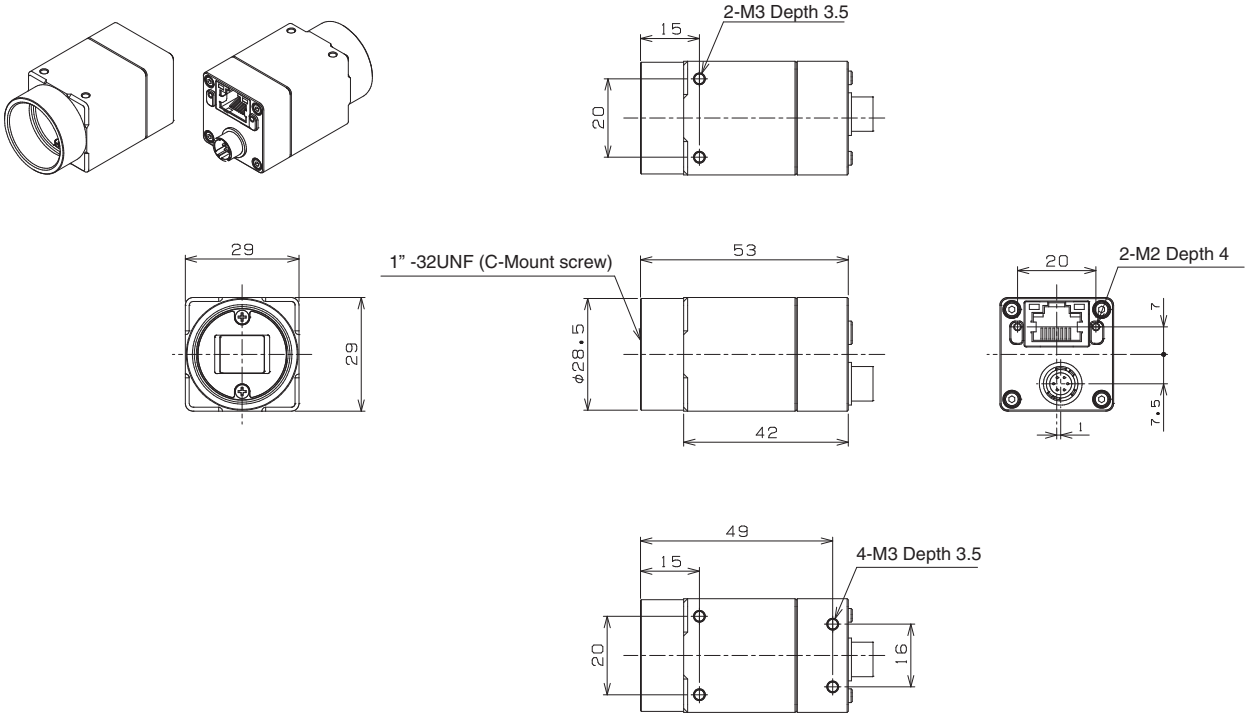
Conversion Cables		
Model	Applicable Model	General Specifications
CAB-KWA-IEA		Converts 6-pin connector to S Series pin assignment

Tripod		
Model	Applicable Model	General Specifications
TP-KWA	GigE Vision M Series	
TP-KWA-IEA	GigE Vision M Series	Use to set M Series at same height as S Series sensor center
TP-KWA2	STC-MBS/MCS881POE, STC-MBS/MCS122BPOE, STC-MBS/MCS2041POE	

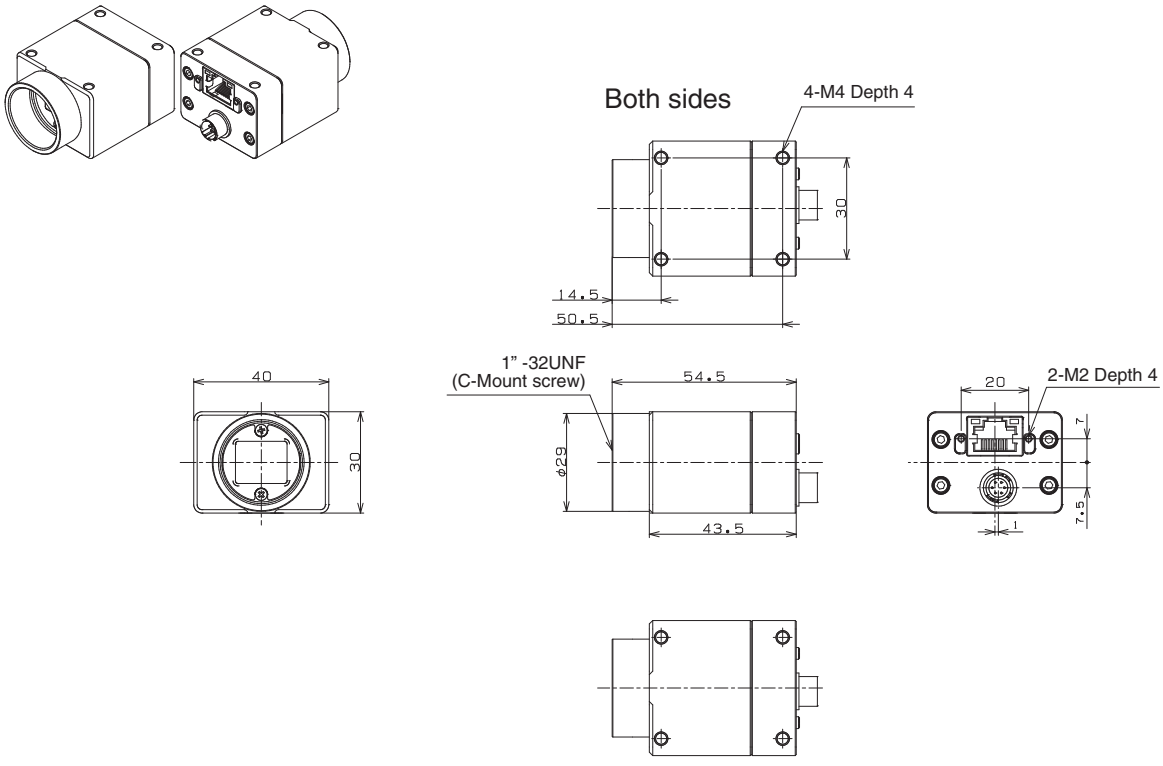
Drawing dimension

Monochrome

STC-MBS43POE
STC-MBS52POE
STC-MBE132POE
STC-MBS163POE
STC-MBS202POE
STC-MBS231POE
STC-MBS312POE
STC-MBS500POE
STC-MBA503POE
STC-MBA503POE-HS
STC-MBS642POE
STC-MBA1002POE
STC-MBS1242POE

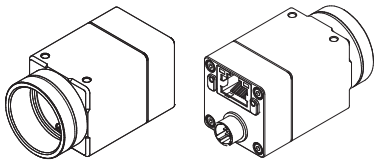


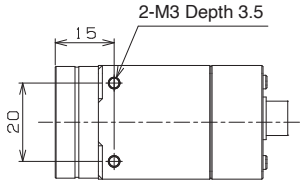
STC-MBS881POE
STC-MBS122BPOE
STC-MBS2041POE

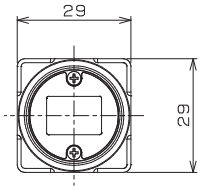


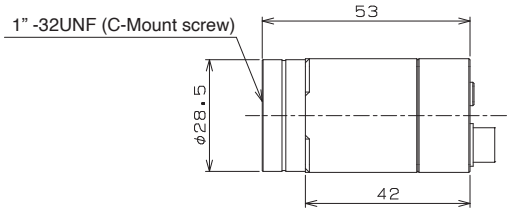
Color

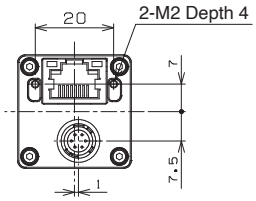
STC-MCS43POE
STC-MCS52POE
STC-MCE132POE
STC-MCS163POE
STC-MCS202POE
STC-MCS231POE
STC-MCS312POE
STC-MCS500POE
STC-MCA503POE
STC-MCA503POE-HS
STC-MCS642POE
STC-MCS1242POE

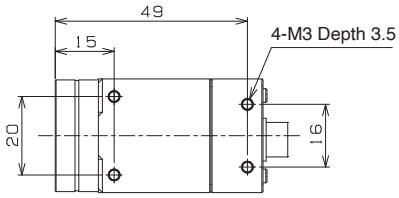




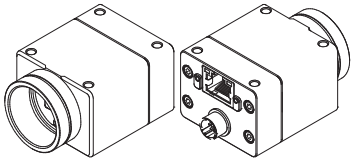


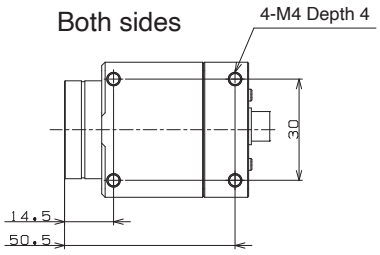


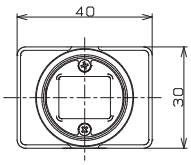


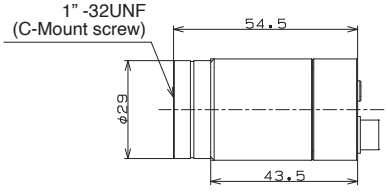


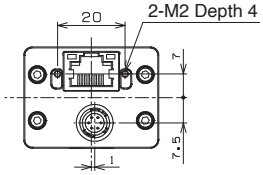
STC-MCS881POE
STC-MCS122BPOE
STC-MCS2041POE

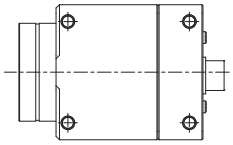




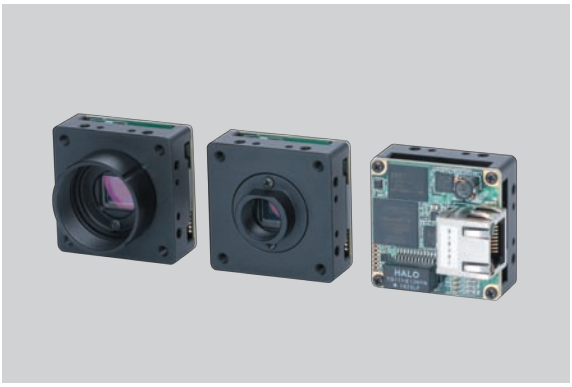








GigE Vision Small CMOS Board Camera



Description

GigE Vision board camera with high-resolution, high-speed CMOS sensor

Features

Board model that can be installed in spaces with limited depth

Extensive lineup of 0.4-20 MP products

Both PoE models and external power supply models available

Product Line-up

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Connecter	Type	Power Supply	Lens Mount	Sensor	Shutter Type
STC-BBS43POE-BC	Monochrome	0.4M	282.8 fps	720 x 540	1/2.9	6.9 x 6.9	RJ45 supported	All-in-one	PoE power supply	C	IMX287	Global
STC-BBS43GE-BC									External power supply (PoE not supported)			
STC-BBS43POE-BL									PoE power supply	S		
STC-BBS43GE-BL									External power supply (PoE not supported)			
STC-BCS43POE-BC	Color								PoE power supply	C		
STC-BCS43GE-BC									External power supply (PoE not supported)			
STC-BCS43POE-BL									PoE power supply	S		
STC-BCS43GE-BL									External power supply (PoE not supported)			
STC-BBS163POE-BC	Monochrome	1.6M	70.7 fps	1,440 x 1,088	1/2.9	3.45 x 3.45	RJ45 supported	All-in-one	PoE power supply	C	IMX273	Global
STC-BBS163GE-BC									External power supply (PoE not supported)			
STC-BBS163POE-BL									PoE power supply	S		
STC-BBS163GE-BL									External power supply (PoE not supported)			
STC-BCS163POE-BC	Color								PoE power supply	C		
STC-BCS163GE-BC									External power supply (PoE not supported)			
STC-BCS163POE-BL									PoE power supply	S		
STC-BCS163GE-BL									External power supply (PoE not supported)			
STC-BBS202POE-BC	Monochrome	2M	54.6 fps	1,624 x 1,240	1/1.7	4.5 x 4.5	RJ45 supported	All-in-one	PoE power supply	C	IMX430	Global
STC-BBS202GE-BC									External power supply (PoE not supported)			
STC-BBS202POE-BL									PoE power supply	S		
STC-BBS202GE-BL									External power supply (PoE not supported)			
STC-BCS202POE-BC	Color								PoE power supply	C		
STC-BCS202GE-BC									External power supply (PoE not supported)			
STC-BCS202POE-BL									PoE power supply	S		
STC-BCS202GE-BL									External power supply (PoE not supported)			
STC-BBS312POE-BC	Monochrome	3.2M	34.9 fps	2,048 x 1,536	1/1.8	3.45 x 3.45	RJ45 supported	All-in-one	PoE power supply	C	IMX265	Global
STC-BBS312GE-BC									External power supply (PoE not supported)			
STC-BBS312POE-BL									PoE power supply	S		
STC-BBS312GE-BL									External power supply (PoE not supported)			
STC-BCS312POE-BC	Color								PoE power supply	C		
STC-BCS312GE-BC									External power supply (PoE not supported)			
STC-BCS312POE-BL									PoE power supply	S		
STC-BCS312GE-BL									External power supply (PoE not supported)			
STC-BBS500POE-BC	Monochrome	5M	21.9 fps	2,448 x 2,048	2/3	3.45 x 3.45	RJ45 supported	All-in-one	PoE power supply	C	IMX264	Global
STC-BBS500GE-BC									External power supply (PoE not supported)			
STC-BCS500POE-BC	Color								PoE power supply			
STC-BCS500GE-BC									External power supply (PoE not supported)			

Go to the next page

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Connecter	Type	Power Supply	Lens Mount	Sensor	Shutter Type
STC-BBS213POE-BC	Monochrome	2.1M	53.0 fps	1,920 x 1,080	1/2.8	2.9 x 2.9	RJ45 supported	All-in-one	PoE power supply	C	IMX291	Rolling
STC-BBS213GE-BC									External power supply (PoE not supported)			
STC-BBS213POE-BL									PoE power supply	S		
STC-BBS213GE-BL									External power supply (PoE not supported)			
STC-BCS213POE-BC	Color								PoE power supply	C		
STC-BCS213GE-BC									External power supply (PoE not supported)			
STC-BCS213POE-BL									PoE power supply	S		
STC-BCS213GE-BL									External power supply (PoE not supported)			
STC-BCS213POE-BC-NIR	Color NIR								PoE power supply	C	IMX462	
STC-BCS213GE-BC-NIR									External power supply (PoE not supported)			
STC-BCS213POE-BL-NIR									PoE power supply	S		
STC-BCS213GE-BL-NIR									External power supply (PoE not supported)			
STC-BBS1242POE-BC	Monochrome	12M	9.2 fps	4,000 x 3,000	1/1.7	1.85 x 1.85	RJ45 supported	All-in-one	PoE power supply	C	IMX226	Rolling
STC-BBS1242GE-BC									External power supply (PoE not supported)			
STC-BCS1242POE-BC	Color								PoE power supply			
STC-BCS1242GE-BC									External power supply (PoE not supported)			
STC-BBS2041POE-BC	Monochrome	20.4M	5.5 fps	5,472 x 3,648	1	2.4 x 2.4	RJ45 supported	All-in-one	PoE power supply	C	IMX183	Rolling
STC-BBS2041GE-BC									External power supply (PoE not supported)			
STC-BCS2041POE-BC	Color								PoE power supply			
STC-BCS2041GE-BC									External power supply (PoE not supported)			

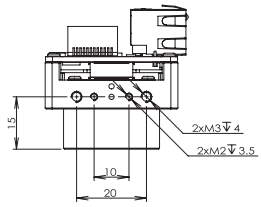
Note. Supply power via PoE or from external power supply (if PoE is not supported).
PoE NIC or Ethernet switch separately needed to supply power via PoE.
JST's SHR-06V connector or equivalent wiring harness is separately needed to use I/O signals or supply power from external power source (camera equipped with SM06-SRSS (JST) equivalent connector).
For details on pin arrangement, refer to product specification documents, available for download on our website (https://sentech.co.jp/en/).

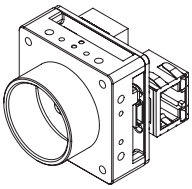
Accessories

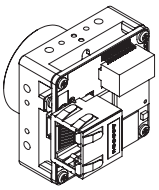
Screw-Fastened GigE Cables		
Model	Length	Cable Type
CAB-GE-02-RBH	2 m	Bending resistance cables
CAB-GE-03-RBH	3 m	
CAB-GE-05-RBH	5 m	
CAB-GE-10-RBH	10 m	
CAB-GE-20-RBH	20 m	
CAB-GE-40-RBH	40 m	
CAB-GE-02-RBX	2 m	Super bending resistance cables
CAB-GE-03-RBX	3 m	
CAB-GE-05-RBX	5 m	
CAB-GE-10-RBX	10 m	
CAB-GE-20-RBX	20 m	
CAB-GE-40-RBX	40 m	

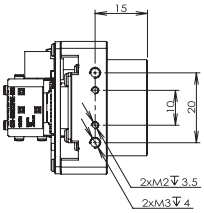
Drawing dimension

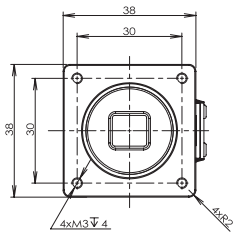
STC-B*S43POE-BC/GE-BC
STC-B*S163POE-BC/GE-BC
STC-B*S202POE-BC/GE-BC
STC-B*S312POE-BC/GE-BC
STC-B*S500POE-BC/GE-BC
STC-B*S213POE-BC/GE-BC
STC-B*S1242POE-BC/GE-BC
STC-B*S2041POE-BC/GE-BC

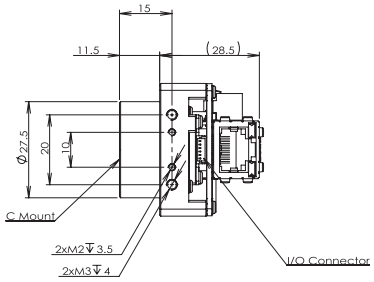


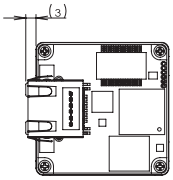


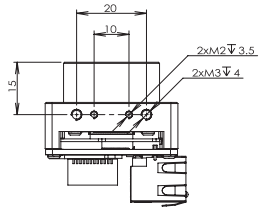






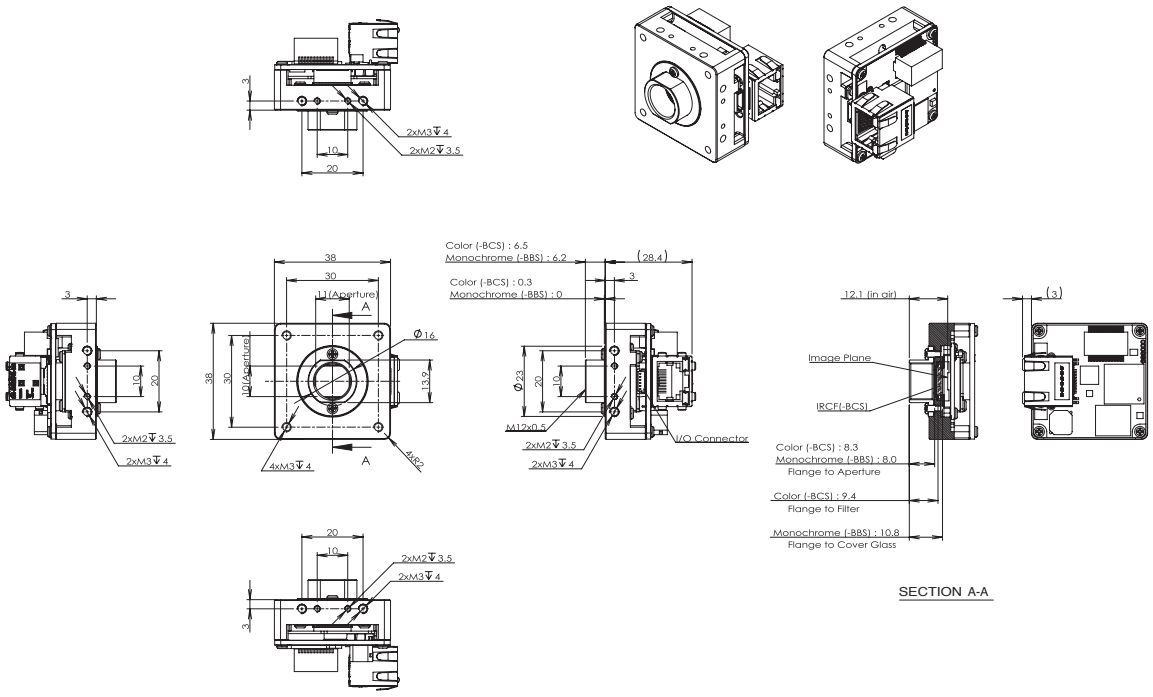






STC-B*S43POE-BL/GE-BL
STC-B*S163POE-BL/GE-BL
STC-B*S202POE-BL/GE-BL
STC-B*S312POE-BL/GE-BL

STC-B*S500POE-BL/GE-BL
STC-B*S213POE-BL/GE-BL



Note. For details on dimensions, refer to product specification documents, available for download on our website (https://sentech.co.jp/en/).

GigE Vision CMOS Line Sensor Camera

Description

PoE-compatible GigE Vision line sensor camera

Features

Offered in 2K, 4K, or 8K

Equipped with PoE support, FFC capabilities (to compensate for pixel-to-pixel sensitivity variations), and compact casing designed for easy mounting

Product Line-up

Model	Monochrome/Color	Resolution	Line Rate	Pixel size	Sensor	Sensor Type	Lens Mount
FS-B2KU7GES-C	Monochrome	2048 × 1	51 kHz	7 um	DR-2K-7	Single	C
FS-B2KU7GES-F							F
FS-B2KU7GES-M42							M42
FS-B4KU7GES-F		4096 × 1	26 kHz	7 um	DR-4K-7	Single	F
FS-B4KU7GES-M42							M42
FS-B4KU35GES-C		4096 × 1	26 kHz	3.5 um	DR-4K-3.5	Single	C
FS-B4KU35GES-F							F
FS-B4KU35GES-M42							M42
FS-B8KU35GES-F		8192 × 1	13 kHz	3.5 um	DR-8K-3.5	Single	F
FS-B8KU35GES-M42							M42
FS-B2KU7DGES-C		2048 × 2	52 kHz	7 um	DR-2 × 2K-7-inver	Dual	C
FS-B2KU7DGES-F							F
FS-B2KU7DGES-M42							M42
FS-B4KU7DGES-F		4096 × 2	26 kHz	7 um	DR-2 × 4K-7-inver	Dual	F
FS-B4KU7DGES-M42							M42
FS-C2KU7DGES-C	Color	2048 × 2	52 kHz	7 um	DR-2 × 2K-7-inver-RGB	Dual	C
FS-C2KU7DGES-F							F
FS-C2KU7DGES-M42							M42
FS-C4KU7DGES-F		4096 × 2	26 kHz	7 um	DR-2 × 4K-7-inver-RGB	Dual	F
FS-C4KU7DGES-M42							M42

Note. Supply power via PoE or power supply cable.
PoE NIC or Ethernet switch separately needed to supply power via PoE.

Accessories

Screw-Fastened GigE Cables

Model	Length	Cable Type
CAB-GE-02-RBH	2 m	Bending resistance cables
CAB-GE-03-RBH	3 m	
CAB-GE-05-RBH	5 m	
CAB-GE-10-RBH	10 m	
CAB-GE-20-RBH	20 m	
CAB-GE-40-RBH	40 m	
CAB-GE-02-RBX	2 m	Super bending resistance cables
CAB-GE-03-RBX	3 m	
CAB-GE-05-RBX	5 m	
CAB-GE-10-RBX	10 m	
CAB-GE-20-RBX	20 m	
CAB-GE-40-RBX	40 m	

Power Supply Cables

Mode	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

Note. When wiring a camera, be sure to refer to its specification document to check its external connector specifications.
Incorrect wiring can lead to failure.
Note. Do not connect the shell, for doing so can cause failure or malfunction.

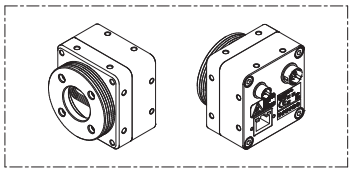
I/O Cables

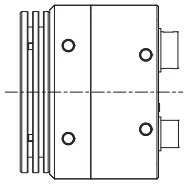
Mode	Length
CAB-IOH12-02	2 m

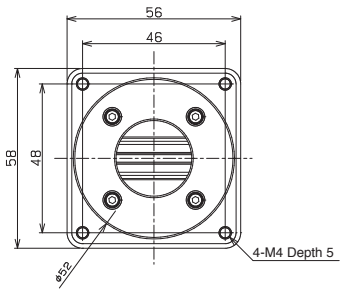
Note. When wiring a camera, be sure to refer to its specification document to check its external connector specifications.
Incorrect wiring can lead to failure.

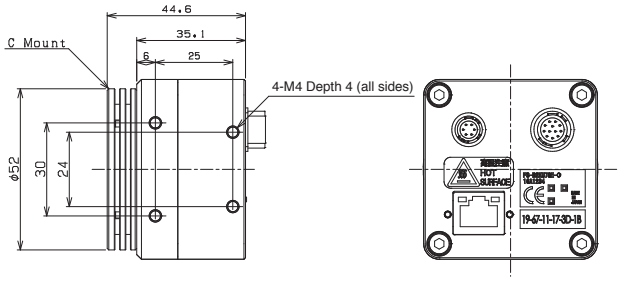
Drawing dimension

C Mount

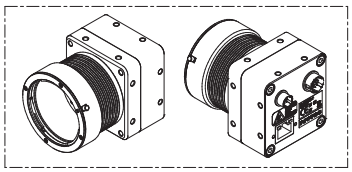


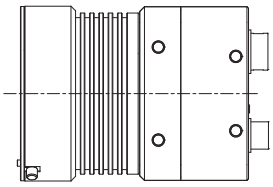


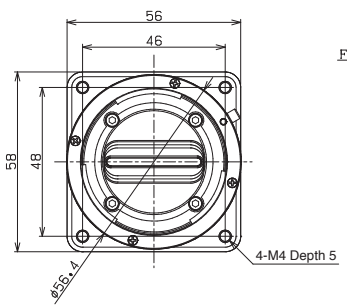


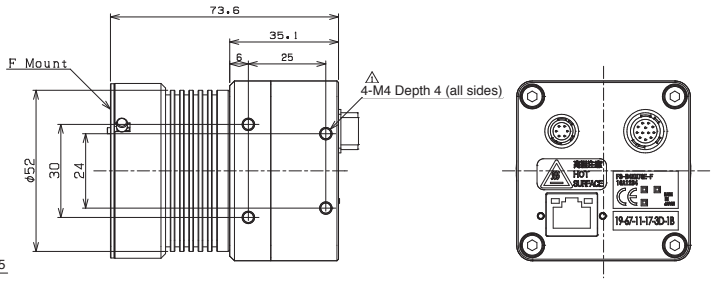


F Mount

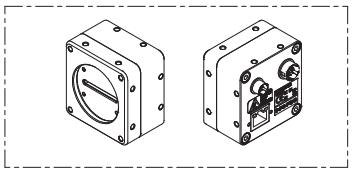


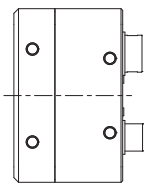


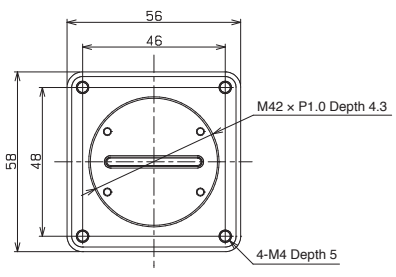


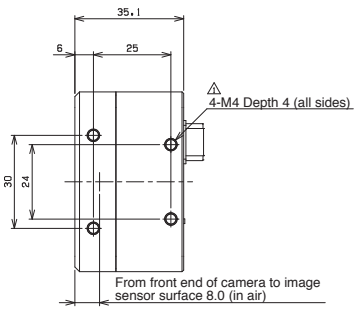


M42 Mount









USB3.0 Series

Description

USB3.0 Compact CMOS Camera

Features

Offered in resolutions ranging from 0.4M to 20M

Compact and multi-sided mounting possible

Product Line-up

Global shutter models

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount
STC-MBS43U3V	Monochrome	0.4M	527.1 fps	720 × 540	1/2.9	6.9 × 6.9	IMX287	C
STC-MCS43U3V	Color							
STC-MBE132U3V	Monochrome	1.3M	60 fps	1280 × 1024	1/1.8	5.3 × 5.3	EV76C560	CS
STC-MCE132U3V	Color							
STC-MBS163U3V	Monochrome	1.6M	238 fps	1440 × 1080	1/2.9	3.45 × 3.45	IMX273	C
STC-MCS163U3V	Color							
STC-MBS231U3V	Monochrome	2.3M	41.6 fps	1920 × 1200	1/1.2	5.86 × 5.86	IMX249	C
STC-MCS231U3V	Color							
STC-MBS241U3V	Monochrome	2.3M	163 fps	1920 × 1200	1/1.2	5.86 × 5.86	IMX174	C
STC-MCS241U3V	Color							
STC-MBS312U3V	Monochrome	3.2M	56 fps	2048 × 1536	1/1.8	3.45 × 3.45	IMX265	C
STC-MCS312U3V	Color							
STC-MBS312U3V-SE	Monochrome							
STC-MCS312U3V-SE	Color							
STC-MBS322U3V	Monochrome	3.2M	121 fps	2048 × 1536	1/1.8	3.45 × 3.45	IMX252	C
STC-MCS322U3V	Color							
STC-MBS322U3V-SE	Monochrome							
STC-MCS322U3V-SE	Color							
STC-MBCM401U3V	Monochrome	4M	89 fps	2048 × 2048	1	5.5 × 5.5	CMV4000	C
STC-MCCM401U3V	Color							
STC-MBCM401U3V-NIR	Monochrome NIR							
STC-MBS500U3V	Monochrome	5M	35.8 fps	2448 × 2048	2/3	3.45 × 3.45	IMX264	C
STC-MCS500U3V	Color							
STC-MBS500U3V-SE	Monochrome							
STC-MCS500U3V-SE	Color							
STC-MBS510U3V	Monochrome	5M	75.7 fps	2448 × 2048	2/3	3.45 × 3.45	IMX250	C
STC-MCS510U3V	Color							
STC-MBS510U3V-SE	Monochrome							
STC-MCS510U3V-SE	Color							
STC-MBS70BU3V	Monochrome	7.1M	51.2 fps	3216 × 2208	1.1	4.5 × 4.5	IMX428	C
STC-MCS70BU3V	Color							
STC-MBS881U3V	Monochrome	8.9M	32.5 fps	4096 × 2160	1	3.45 × 3.45	IMX267	C
STC-MCS881U3V	Color							

Go to the next page

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount
STC-MBS891U3V	Monochrome	8.9M	41.9 fps	4096 × 2160	1	3.45 × 3.45	IMX255	C
STC-MCS891U3V	Color							
STC-MBS122BU3V	Monochrome	12.3M	23.5 fps	4096 × 3000	1.1	3.45 × 3.45	IMX304	C
STC-MCS122BU3V	Color							
STC-MBS123BU3V	Monochrome	12.3M	30.4 fps	4096 × 3000	1.1	3.45 × 3.45	IMX253	C
STC-MCS123BU3V	Color							

Note. We recommend that you use an external power supply for 7.1M, 8.9M and 12M cameras, for depending on PC performance, power supplied via USB bus connection alone may not be sufficient for these cameras. For these cameras, we recommend that you use I/O cables and supply power separately from external sources.
Note. Models with "-SE" have been additionally equipped with the Short Exposure Mode feature. Choose these models to use the Short Exposure feature with 3.2M or 5M resolution.

Rolling shutter models								
Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount
STC-MBS1242U3V	Monochrome	12M	31.2 fps	4000 × 3000	1/1.7	1.85 × 1.85	IMX226	C
STC-MCS1242U3V	Color							
STC-MBS2041U3V	Monochrome	20.4M	18.5 fps	5472 × 3648	1	2.4 × 2.4	IMX183	C
STC-MCS2041U3V	Color							

Note. Depending on PC performance, USB bus power supply alone may not be sufficient for 12 M / 20.4 M cameras. For these cameras, we recommend that you use I/O cables and supply power separately from external sources.

Non-USB3 Vision Compliant Models (with Rolling Shutters)								
Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount
STC-MBA5MUSB3	Monochrome	5M	14 fps	2592 × 1944	1/2.5	2.2 × 2.2	MT9P031	CS
STC-MCA5MUSB3	Color							

Accessories

USB 3.0 Cables (USB 3.0 Micro-B, with Camera-Side Fastening Screws)		
Model	Length	Cable Type
CAB-USB3-02	2 m	Normal
CAB-USB3-03	3.5 m	
CAB-USB3-05	5 m	
CAB-USB3-07	7 m	
CAB-USB3-10	10 m	Normal high-transmission cables
CAB-USB3-02-RB	2 m	Robot cables
CAB-USB3-03-RB	3.5 m	
CAB-USB3-05-RB	5 m	
CAB-USB3-07-RB	7 m	

Note. Please make sure in advance that USB 3.0 cables operate correctly under your environment.

Mount Conversion Adapter	
Model	Applicable Model
CS-C-R	CS Mount Series

I/O Cables	
Model	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

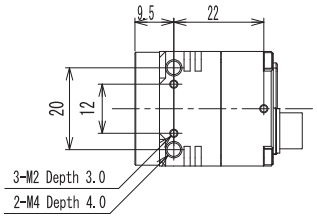
Note. Please connect the cables according to the external connector specifications prescribed in your camera's specification documents, for faulty wiring can cause failure.
Note. Do not connect the shell, for doing so can cause failure or malfunction.

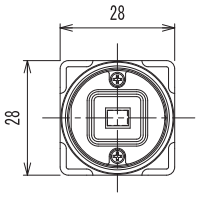
Tripod Mount	
Model	Applicable Model
TP-HCA *	STC-MCE/MBE132U3V, STC-MCA/MBA5MUSB3
TP-JVA	0.4M, 1.6M, 2.3M, 3.2M, 4M, 5M (M*S500/510U3V)
TP-JQA	7.1M, 8.9M, 12M, 12.3M, 20.4M

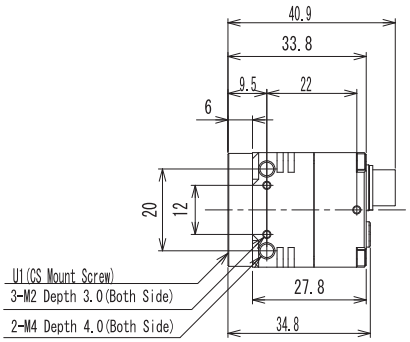
* The tripod mount is screwed at two points on the lens side.

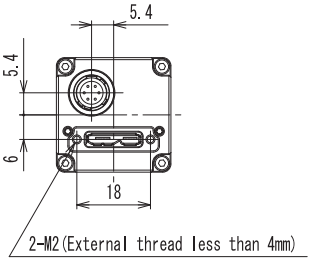
Drawing dimension

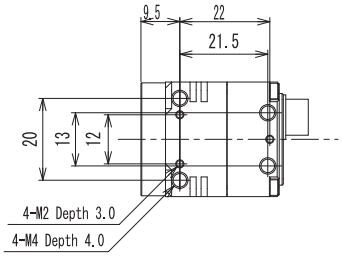
STC-MBE/MCE132U3V
STC-MBA/MCA5MUSB3



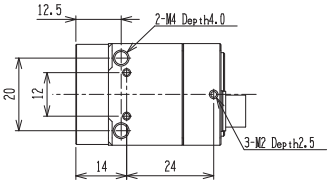


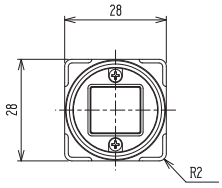


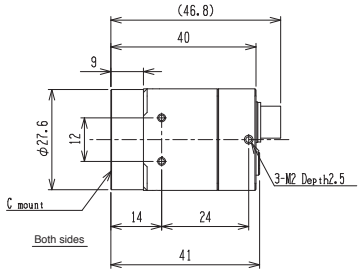


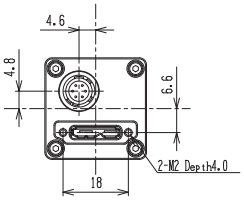


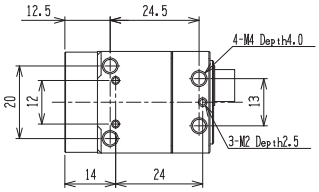
STC-MBS/MCS43U3V
STC-MBS/MCS163U3V
STC-MBCM/MCCM401U3V(-NIR)
STC-MBS/MCS241U3V
STC-MBS/MCS231U3V
STC-MBS/MCS312U3V(-SE)
STC-MBS/MCS322U3V(-SE)
STC-MBS/MCS500U3V(-SE)
STC-MBS/MCS510U3V(-SE)











STC-MBS/MCS70BU3V
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STC-MBS/MCS891U3V
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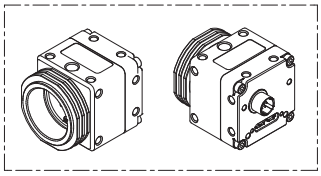
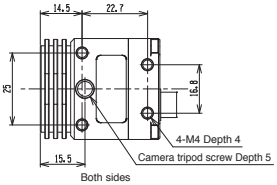
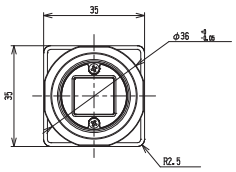
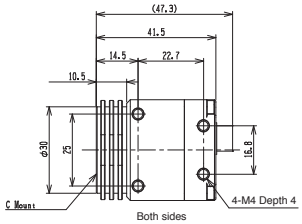
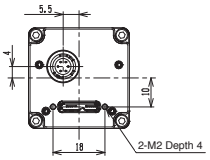
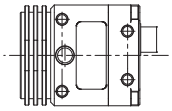












USB3.0 Small Board Camera NEW

Description

USB3 Vision Small Board Camera

Features

Small board camera that can be installed in spaces with limited depth

6.4 MP rolling shutter camera

Lens mount options: without mount, C mount, CS mount, or S mount

Product Line-up

USB3 Vision board models (with rolling shutters)								
Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount
STC-BBS642U3V	Monochrome	6.4M	30fps	3072 × 2048	1/1.8	2.4×2.4	IMX178	---
STC-BCS642U3V	Color							
STC-BBS642U3V-BC	Monochrome							C
STC-BCS642U3V-BC	Color							
STC-BBS642U3V-BCS	Monochrome							CS
STC-BCS642U3V-BCS	Color							
STC-BBS642U3V-BL	Monochrome							S
STC-BCS642U3V-BL	Color							
STC-BBS1242U3V*	Monochrome	12M	24fps	4000 × 3000	1/1.7	1.85×1.85	IMX226	---
STC-BCS1242U3V*	Color							
STC-BBS1242U3V-BC*	Monochrome							C
STC-BCS1242U3V-VC*	Color							

* Coming soon.

Note. JST's 04SUR-32 connector or equivalent wiring harness is separately needed to use I/O signals (camera equipped with BM04B-SURS-TF (JST) equivalent connector).
For details on pin arrangement, refer to product specification documents, available for download on our website (https://sentech.co.jp/en/).

Accessories

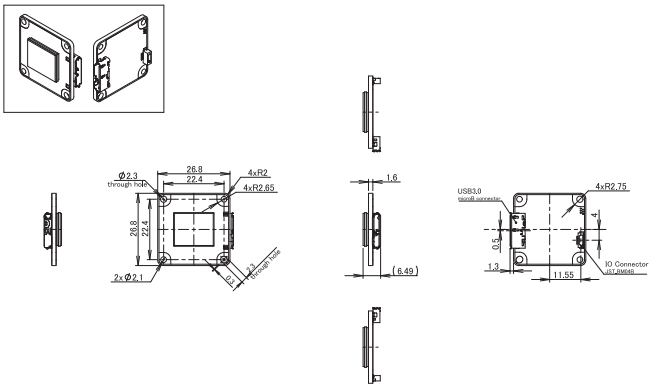
USB 3.0 Cables (USB 3.0 Micro-B, with Camera-Side Fastening Screws)		
Model	Length	Cable Type
CAB-USB3-02	2 m	Normal
CAB-USB3-03	3.5 m	
CAB-USB3-05	5 m	
CAB-USB3-07	7 m	
CAB-USB3-10	10 m	Normal high-transmission cables
CAB-USB3-02-RB	2 m	Robot cables
CAB-USB3-03-RB	3.5 m	
CAB-USB3-05-RB	5 m	
CAB-USB3-07-RB	7 m	

Note. Please make sure in advance that USB 3.0 cables operate correctly under your environment.

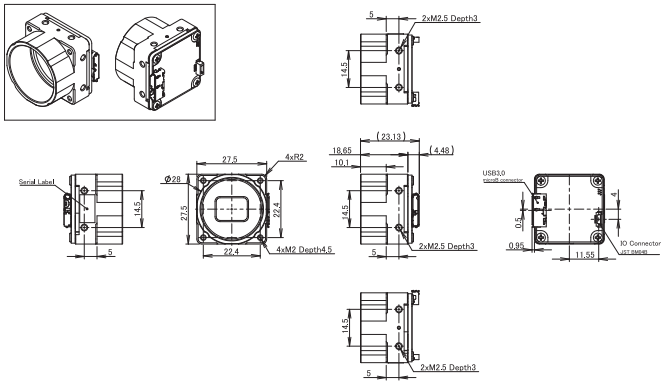
Mount Conversion Adapter	
Model	Applicable Model
CS-C-R	CS Mount Series

Drawing dimension

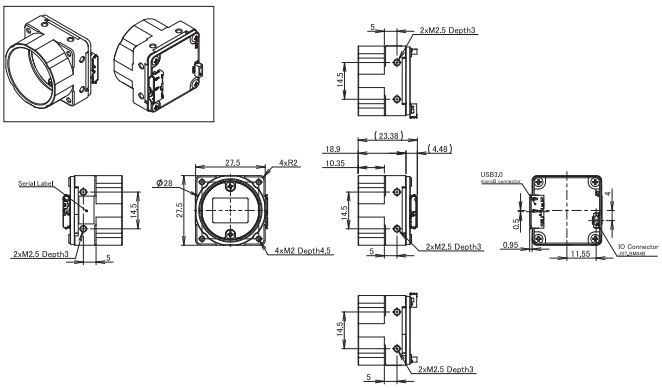
STC-BBS/BBC642U3V
STC-BBS/BCS1242U3V



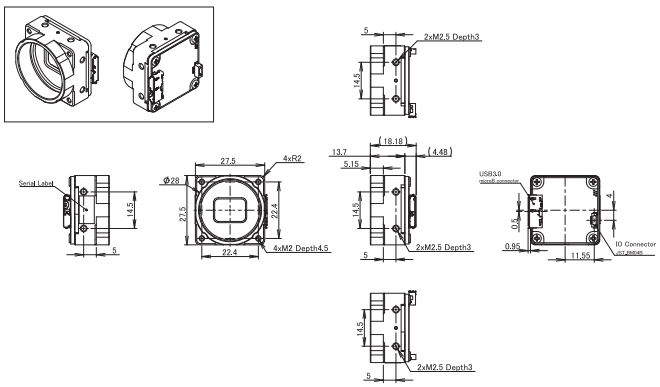
STC-BBS642U3V-BC
STC-BBS1242U3V-BC



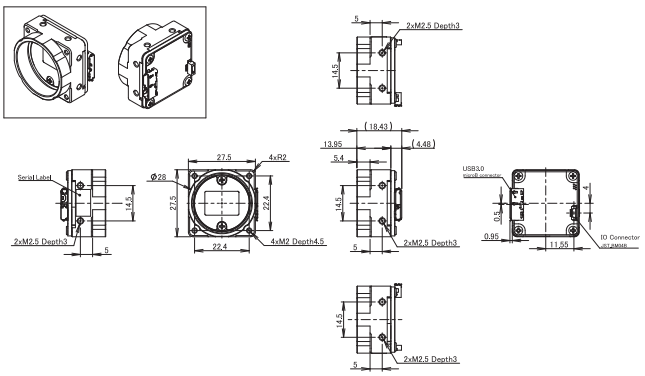
STC-BCS642U3V-BC
STC-BCS1242U3V-BC



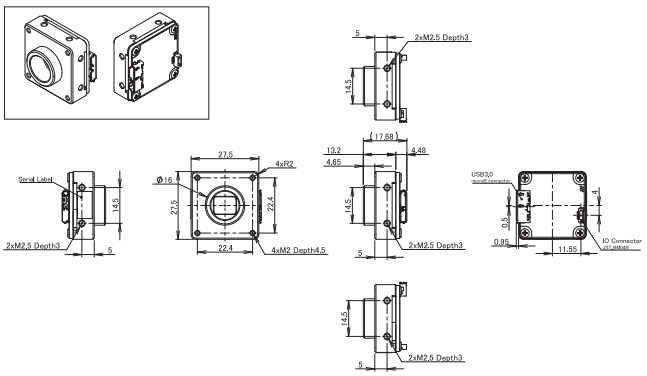
STC-BBS642U3V-BCS



STC-BCS642U3V-BCS



STC-BBS/BBC642U3V-BL



USB3.0

USB3.0 Remote Head Camera

Description

Ultra-compact USB3 Vision remote head camera

Features

Remote sensor unit allows for compact head that can be installed in small spaces where installation was previously difficult

More durable cables

1.6 M models are S-mount cameras with heads connected by either 1 m or 2.5 m cables

Product Line-up

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	General Specifications
STC-RBS163U3V-UM121	Monochrome	1.6M	238 fps	1440 × 1080	1/2.9	3.45 × 3.45	IMX273	S	Cable from top, cable length: 1 m
STC-RCS163U3V-UM121	Color								
STC-RBS163U3V-SM121	Monochrome								Cable from rear, cable length: 1 m
STC-RCS163U3V-SM121	Color								
STC-RBS163U3V-UM12	Monochrome								Cable from top, cable length: 2.5 m
STC-RCS163U3V-UM12	Color								
STC-RBS163U3V-SM12	Monochrome								Cable from rear, cable length: 2.5 m
STC-RCS163U3V-SM12	Color								

Accessories

USB 3.0 Cables (USB 3.0 Micro-B, with Camera-Side Fastening Screws)		
Model	Length	Cable Type
CAB-USB3-02	2 m	Normal
CAB-USB3-03	3.5 m	
CAB-USB3-05	5 m	
CAB-USB3-07	7 m	
CAB-USB3-10	10 m	Normal high-transmission cables
CAB-USB3-02-RB	2 m	Robot cables
CAB-USB3-03-RB	3.5 m	
CAB-USB3-05-RB	5 m	
CAB-USB3-07-RB	7 m	

Note. Please make sure in advance that USB 3.0 cables operate correctly under your environment.

S-Mount (M12 P0.5) Lens

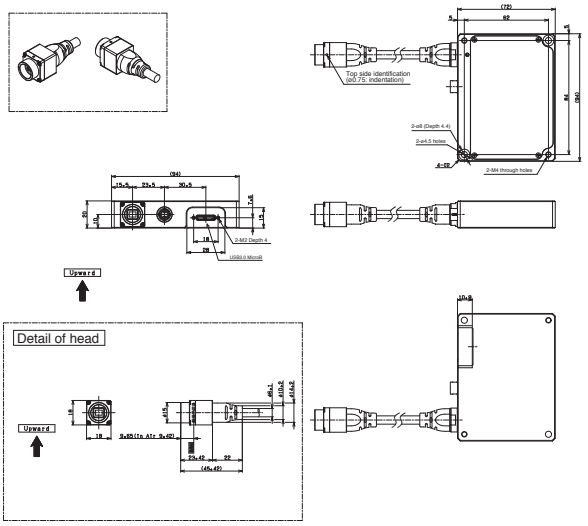
Model	Applicable Model	General Specifications
CV0205C	S-mount models	f = 2.5 mm, 1/3" , F2.0, 5 MP resolution
KVAB009		Lens fixing washer

I/O Cables	
Model	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

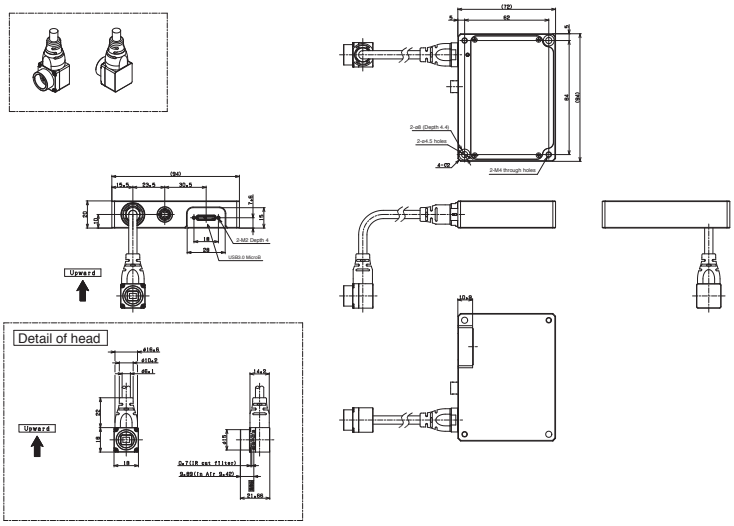
Note. Please connect the cables according to the external connector specifications prescribed in your camera's specification documents, for faulty wiring can cause failure.
Note. Do not connect the shell, for doing so can cause failure or malfunction.

Drawing dimension

STC-RBS/RCS163U3V-SM121(SM12)



STC-RBS163/RCS163U3V-UM121(UM12)



CoaXPress

Description

High Speed CMOS CoaXPress Camera

Features

Compact design with less depth allows for easy installation

Longer transmission distance than Camera Link cameras; supports PoCXP and therefore needs only one cable, reducing wiring

Good substitute for Camera Link

Product Line-up

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	General Specifications
STC-MBS43CXP3	Monochrome	0.4M	523 fps	720 × 540	1/2.9	6.9 × 6.9	IMX287	C	PoCXP, 1-lane CXP3, cable from rear
STC-MCS43CXP3	Color								
STC-MBS163CXP6	Monochrome	1.6M	278 fps	1440 × 1080	1/2.9	3.45 × 3.45	IMX273	C	PoCXP, 1-lane CXP6, cable from rear
STC-MCS163CXP6	Color								
STC-MBS212CXP6	Monochrome	2M	239 fps	1624 × 1440	1/1.7	4.5 × 4.5	IMX422	C	PoCXP, 1-lane CXP6, cable from rear
STC-MCS212CXP6	Color								
STC-MBS322CXP6	Monochrome	3.2M	152 fps	2048 × 1536	1/1.8	3.45 × 3.45	IMX252	C	PoCXP, 1-lane CXP6, cable from rear
STC-MCS322CXP6	Color								
STC-CMB401CXP	Monochrome	4M	142.5 fps	2048 × 2048	1	5.5 × 5.5	CMV4000	C	PoCXP, 1-lane CXP6, cable from rear
STC-CMC401CXP	Color								
STC-MBS510CXP6	Monochrome	5M	98 fps	2448 × 2048	2/3	3.45 × 3.45	IMX250	C	PoCXP, 1-lane CXP6, cable from rear
STC-MCS510CXP6	Color								
STC-SBS510CXP62	Monochrome	5M	162 fps	2448 × 2048	2/3	3.45 × 3.45	IMX250	C	PoCXP, 2-lane CXP6, cable from rear
STC-SCS510CXP62	Color								
STC-MBS502CXP6	Monochrome	5.1M	103 fps	2448 × 2048	1/1.8	2.74 × 2.74	IMX547	C	PoCXP, 1-lane CXP6, cable from rear
STC-MCS502CXP6	Color								
STC-MBS800CXP6	Monochrome	8.1M	66 fps	2848 × 2840	2/3	2.74 × 2.74	IMX546	C	PoCXP, 1-lane CXP6, cable from rear
STC-MCS800CXP6	Color								
STC-CMB120ACXP	Monochrome	12M	186.9 fps	4096 × 3072	1.76	5.5 × 5.5	CMV12000	M42	PoCXP, 4-lane CXP6, cable from rear
STC-CMC120ACXP	Color								
STC-CMB120ACXP-T	Monochrome								PoCXP, 4-lane CXP6, cable from top
STC-CMC120ACXP-T	Color								
STC-CMB120ACXP-F	Monochrome							F	PoCXP, 4-lane CXP6, cable from rear
STC-CMC120ACXP-F	Color								
STC-CMB120ACXP-T-F	Monochrome								PoCXP, 4-lane CXP6, cable from top
STC-CMC120ACXP-T-F	Color								
STC-MBS1221CXP6	Monochrome	12.4M	44 fps	4096 × 3000	1.1	2.74 × 2.74	IMX545	C	PoCXP, 1-lane CXP6, cable from rear
STC-MCS1221CXP6	Color								
STC-SBS123BCXP62	Monochrome	12M	67 fps	4096 × 3000	1.1	3.45 × 3.45	IMX253	C	PoCXP, 2-lane CXP6, cable from rear
STC-SCS123BCXP62	Color								
STC-LBS162BCXP124	Monochrome	16.2M	158 fps	5320 × 3032	1.1	2.74 × 2.74	IMX532	C	PoCXP, 4-lane CXP12, cable from rear
STC-LCS162BCXP124	Color								
STC-LBS162BCXP124-T	Monochrome								PoCXP, 4-lane CXP12, cable from top
STC-LCS162BCXP124-T	Color								

Go to the next page

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	General Specifications
STC-LBS204BCXP124	Monochrome	20.4M	109fps	4504×4504	1.1	2.74×2.74	IMX531	C	PoCXP, 4-lane CXP12, cable from rear
STC-LCS204BCXP124	Color								
STC-LBS204BCXP124-T	Monochrome								PoCXP, 4-lane CXP12, cable from top
STC-LCS204BCXP124-T	Color								
STC-LBS246CCXP124	Monochrome	24.6M	106fps	5320×4600	1.2	2.74×2.74	IMX530	C	PoCXP, 4-lane CXP12, cable from rear
STC-LCS246CCXP124	Color								
STC-LBS246CCXP124-T	Monochrome								PoCXP, 4-lane CXP12, cable from top
STC-LCS246CCXP124-T	Color								
STC-LBGP251BCXP124	Monochrome	25M	150fps	5120×5120	1.1	2.5×2.5	GMAX0505	C	PoCXP, 4-lane CXP12, cable from rear
STC-LCGP251BCXP124	Color								
STC-LBGP251BCXP124-T	Monochrome								PoCXP, 4-lane CXP12, cable from top
STC-LCGP251BCXP124-T	Color								

Note. STC-M□S43CXP3/-M□S163CXP6/-M□S212CXP6/-M□S322CXP6/-CM□401CXP/-M□S510CXP6/-M□S502CXP6/-M□S800CXP6/-M□S1221CXP6 support only PoCXP.
Power cannot be supplied to these products from external power sources.

Accessories

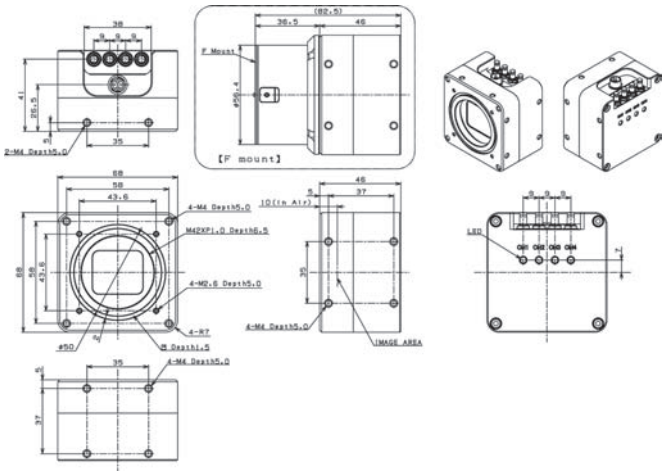
Mount Conversion Adapter		
Model	Applicable Model	General Specifications
M42-F-R	12M M42 Model	M42 P=1 FB=10 mm → F mount Conversion Adapter

I/O Cables	
Model	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

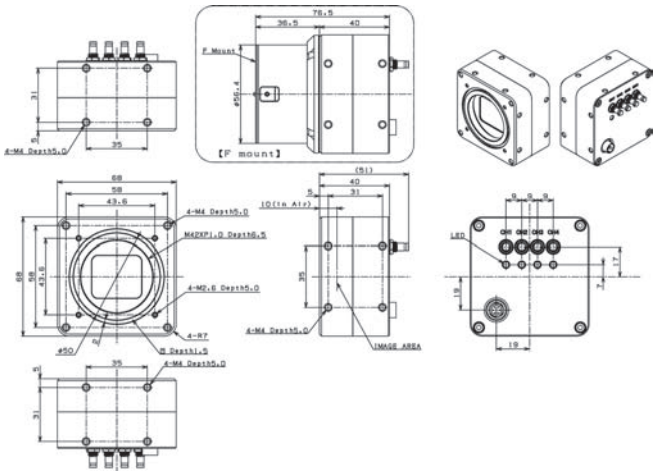
Note. Please connect the cables according to the external connector specifications prescribed in your camera's specification documents, for faulty wiring can cause failure.
Note. Do not connect the shell, for doing so can cause failure or malfunction.
Note. STC-S□S510CXP62/-CM□120ACXP/-S□S123BCXP62/-L□S162BCXP124/-L□S204BCXP124/-L□S246CCXP124/-L□GP251BCXP124 support both PoCXP and power supply from external power sources using I/O cables.

Drawing dimension

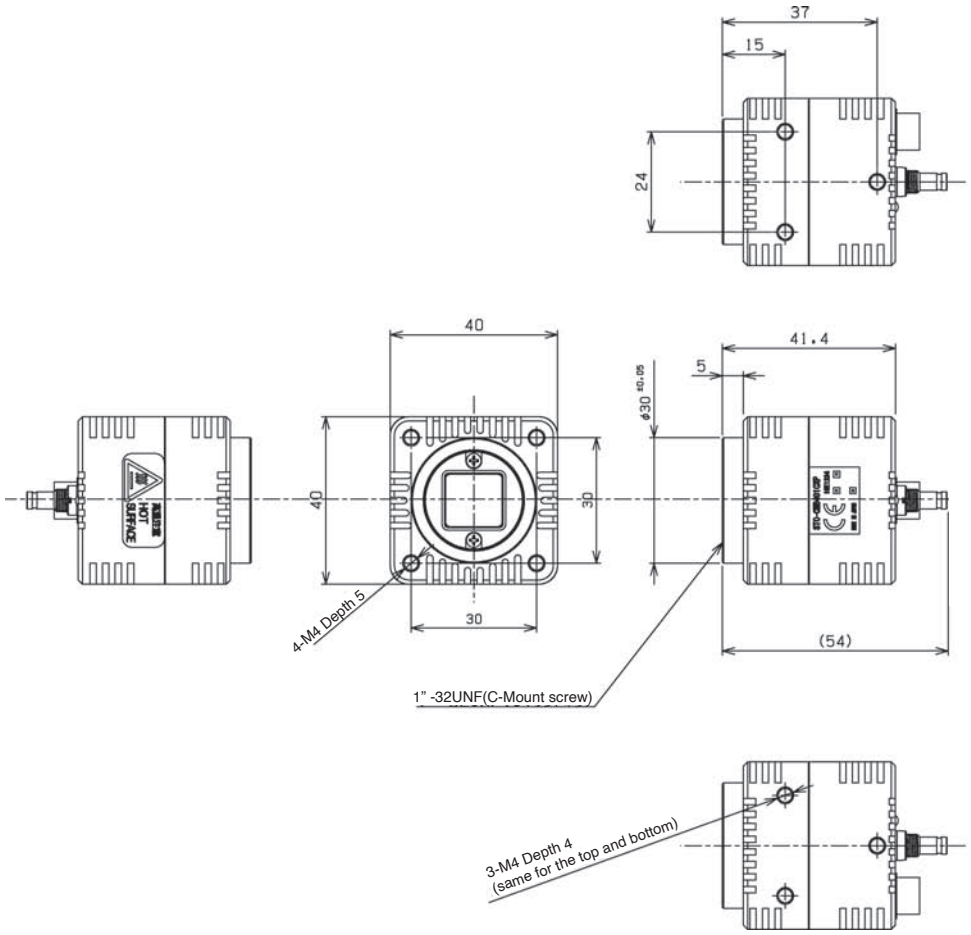
STC-CMB/CMC120ACXP-T



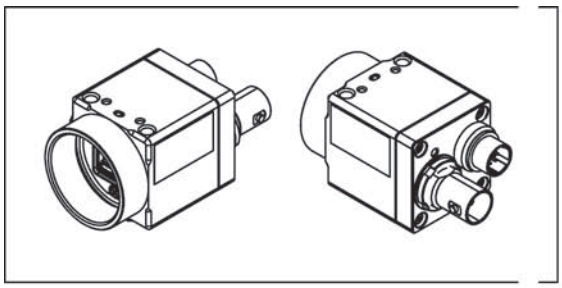
STC-CMB/CMC120ACXP

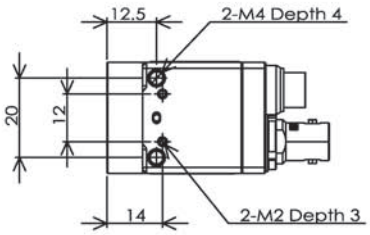


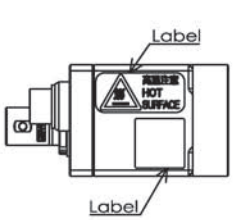
STC-CMB/CMC401CXP

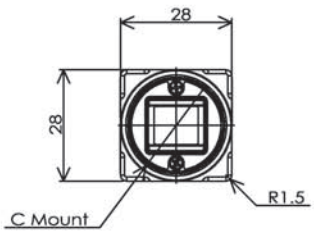


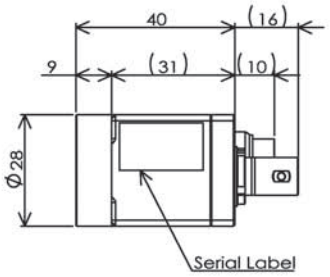
STC-MBS/MCS43CXP3
STC-MBS/MCS163CXP6
STC-MBS/MCS212CXP6
STC-MBS/MCS322CXP6
STC-MBS/MCS510CXP6
STC-MBS/MCS800CXP6
STC-MBS/MCS1221CXP6

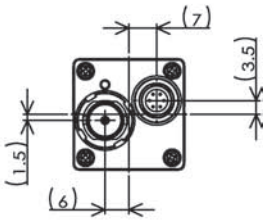


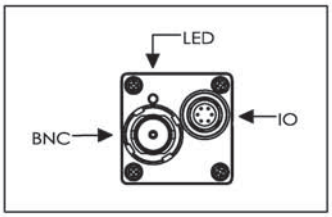


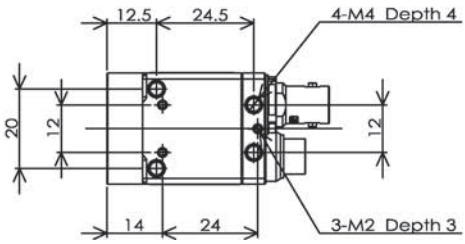




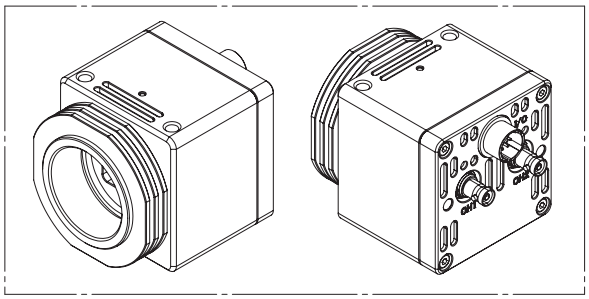


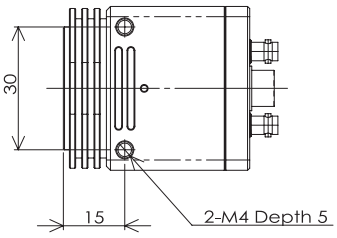


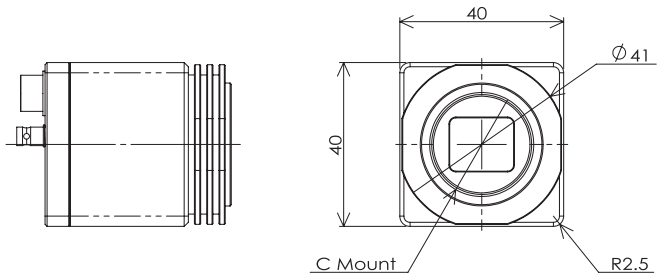


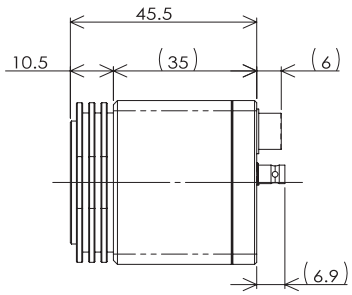


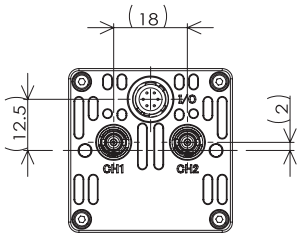
STC-SBS/SCS510CXP62
STC-SBS/SCS123BCXP62

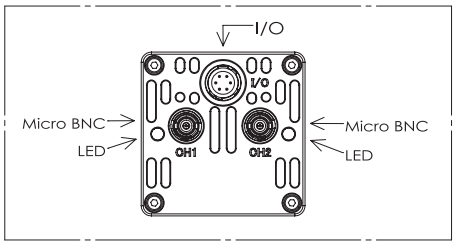


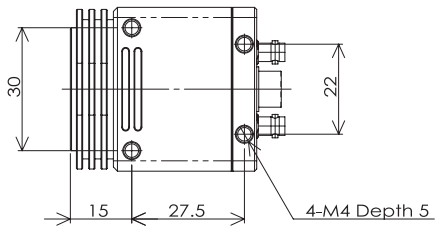




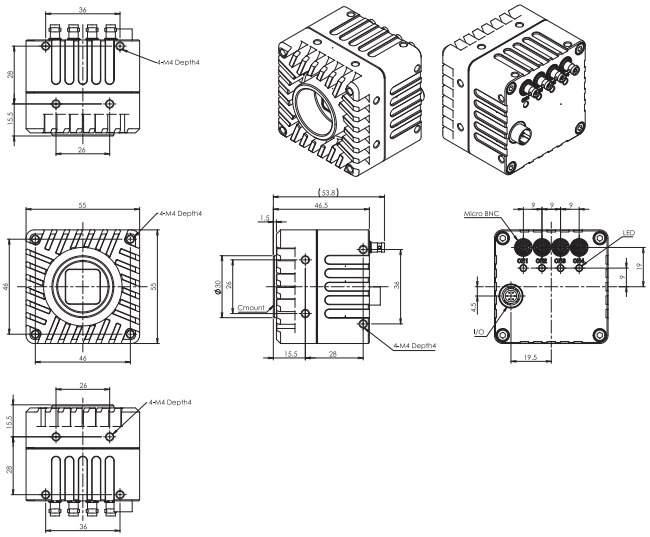








STC-LBS/LCS162BCXP124
STC-LBS/LCS204BCXP124
STC-LBS/LCS246CCXP124



STC-LBS/LCS162BCXP124-T
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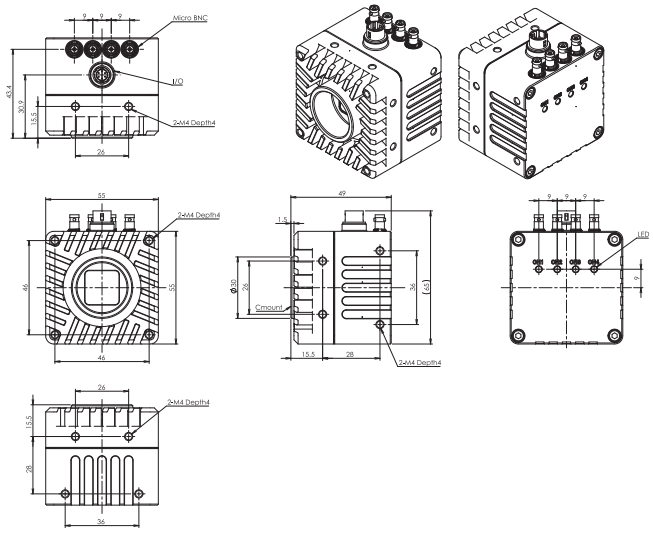
STC-LBS/LCS246CCXP124-T



Opt-C:Link

Description

High Speed Opt-C: Link

Features

Video capture resolution of 12MP@279 fps (40 Gbps models)
Fiber-optic cable allows for noise resistance and longer cable distance

Product Line-up

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	General Specifications
STC-CMB120AOPT-F	Monochrome	12M	93.4 fps	4096 × 3072	1.76	5.5 × 5.5	CMV12000	F	External power supply, SFP+optical connector × 2
STC-CMC120AOPT-F	Color								
STC-CMB120AOPQ	Monochrome		279 fps					M42	External power supply, QSFP+optical connector × 1 40 Gbps
STC-CMC120AOPQ	Color								
STC-CMB120AOPQ-F	Monochrome							F	External power supply, QSFP+optical connector × 1 40 Gbps
STC-CMC120AOPQ-F	Color								

Note. Supply power via power supply and I/O cable.

Accessories

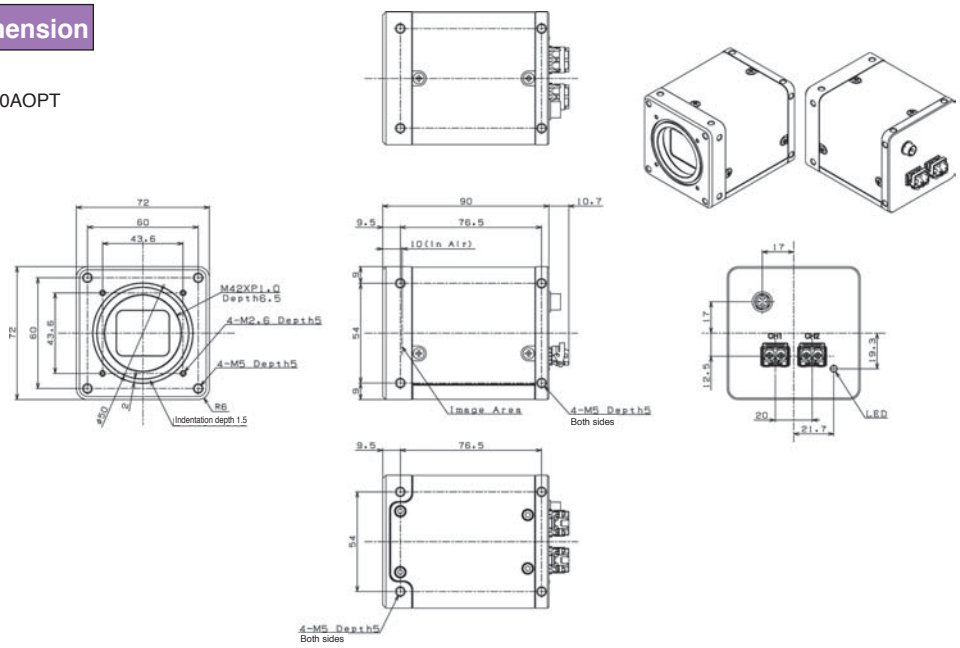
Mount Conversion Adapter		
Model	Applicable Model	General Specifications
M42-F-R	12M M42 Model	M42 P=1 FB=10 mm → F mount Conversion Adapter

Power Supply and I/O Cables	
Model	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

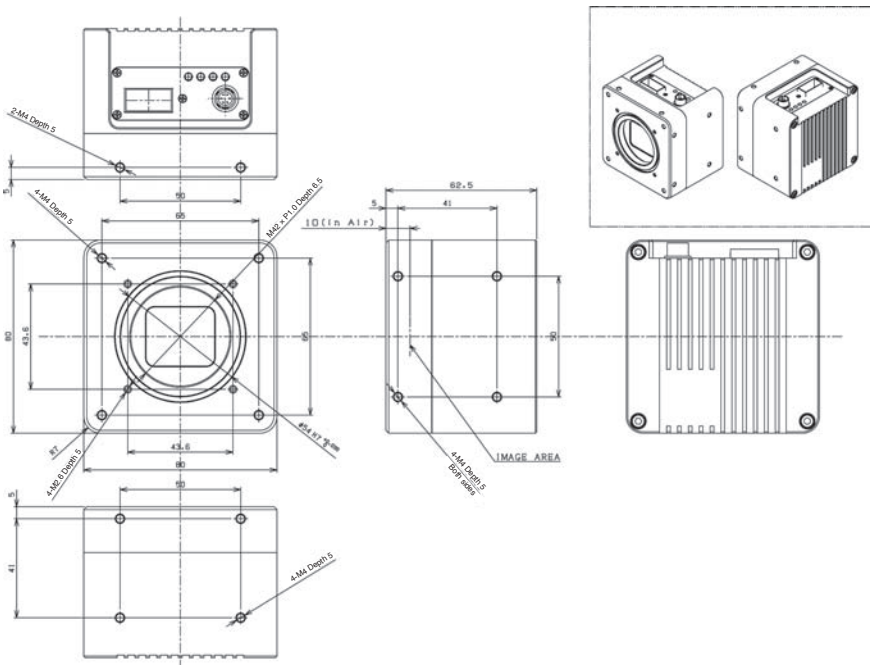
Note. Please connect the cables according to the external connector specifications prescribed in your camera's specification documents, for faulty wiring can cause failure.
Note. Do not connect the shell, for doing so can cause failure or malfunction.

Drawing dimension

STC-CMB/CMC120AOPT



STC-CMB(C)120AOPQ



Camera Link CMOS

Description

High Speed CMOS Camera Link Series

Features

Extensive lineup of 0.4-25 MP products

New 25 MP C-mount model with 35 mm square casing added to lineup

Compact high-resolution cameras that can be installed in small spaces

Product Line-up

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	General Specifications
STC-SPB43PCL	Monochrome	0.4M	523.6 fps	720 × 540	1/2.9	6.9 × 6.9	IMX287	C	PoCL, automatically switched, SDR connector × 1
STC-SPC43PCL	Color								
STC-SPB52PCL	Monochrome	0.5M	166.5 fps	810 × 620	1/1.7	9 × 9	IMX433	C	PoCL, automatically switched, SDR connector × 2
STC-SPC52PCL	Color								
STC-SPB163PCL	Monochrome	1.6M	155 fps	1440 × 1080	1/2.9	3.45 × 3.45	IMX273	C	PoCL, automatically switched, SDR connector × 1
STC-SPC163PCL	Color								
STC-SPB202PCL	Monochrome	2M	89.1 fps	1620 × 1240	1/1.7	4.5 × 4.5	IMX430	C	PoCL, automatically switched, SDR connector × 2
STC-SPC202PCL	Color								
STC-CMB200PCL	Monochrome	2M	333.3 fps	2048 × 1088	2/3	5.5 × 5.5	CMV2000	C	PoCL, automatically switched, SDR connector × 2
STC-CMC200PCL	Color								
STC-CMB200PCL-NIR	Monochrome NIR								
STC-SPB312PCL	Monochrome	3.2M	55.4 fps	2048 × 1536	1/1.8	3.45 × 3.45	IMX265	C	PoCL, automatically switched, SDR connector × 1
STC-SPC312PCL	Color								
STC-SPB322PCL	Monochrome	3.2M	216.2 fps	2048 × 1536	1/1.8	3.45 × 3.45	IMX252	C	PoCL, automatically switched, SDR connector × 2
STC-SPC322PCL	Color								
STC-CMB401PCL	Monochrome	4M	179.2 fps	2048 × 2048	1	5.5 × 5.5	CMV4000	C	PoCL, automatically switched, SDR connector × 2
STC-CMC401PCL	Color								
STC-CMB401PCL-NIR	Monochrome NIR								
STC-APB503PCL	Monochrome	5M	14 fps	2592 × 1944	1/2.5	2.2 × 2.2	MT9P031	C	PoCL, automatically switched, SDR connector × 1
STC-APC503PCL	Color								
STC-SPB500PCL	Monochrome	5M	35.7 fps	2448 × 2048	2/3	3.45 × 3.45	IMX264	C	PoCL, automatically switched, SDR connector × 1
STC-SPC500PCL	Color								
STC-SPB510PCL	Monochrome	5M	163.4 fps	2448 × 2048	2/3	3.45 × 3.45	IMX250	C	PoCL, automatically switched, SDR connector × 2
STC-SPC510PCL	Color								
STC-SPB881PCL	Monochrome	8.9M	20.6 fps	4096 × 2160	1	3.45 × 3.45	IMX267	C	PoCL, automatically switched, SDR connector × 1
STC-SPC881PCL	Color								
STC-SPB891PCL	Monochrome	8.9M	91.9 fps	4096 × 2160	1	3.45 × 3.45	IMX255	C	PoCL, automatically switched, SDR connector × 2
STC-SPC891PCL	Color								
STC-SPB122BPCL	Monochrome	12.3M	15 fps	4096 × 3000	1.1	3.45 × 3.45	IMX304	C	PoCL, automatically switched, SDR connector × 1
STC-SPC122BPCL	Color								
STC-SPB123BPCL	Monochrome	12.3M	66.9 fps	4096 × 3000	1.1	3.45 × 3.45	IMX253	C	PoCL, automatically switched, SDR connector × 2
STC-SPC123BPCL	Color								

Go to the next page

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	General Specifications
STC-OSB250CL	Monochrome	25M	31.8 fps	5120 × 5120	APS-H (32.6 mm diagonal)	4.5 × 4.5	PYTHON 25K	M42	PoCL not supported SDR connector × 2
STC-OSC250CL	Color								
STC-OSB250CL-F	Monochrome							F	PoCL not supported SDR connector × 2
STC-OSC250CL-F	Color								
STC-GPB250BPCL	Monochrome	25M	30.72 fps	5120 × 5120	1.1	2.5 × 2.5	GMAX5050	C	PoCL, automatically switched, SDR connector × 2
STC-GPC250BPCL	Color								

Note. Supply power via PoCL or power supply and I/O cable.

Accessories

Mount Conversion Adapter		
Model	Applicable Model	General Specifications
M42-F-R	12M, 25M M42 Model	M42 P=1 FB=10 mm → F mount Conversion Adapter

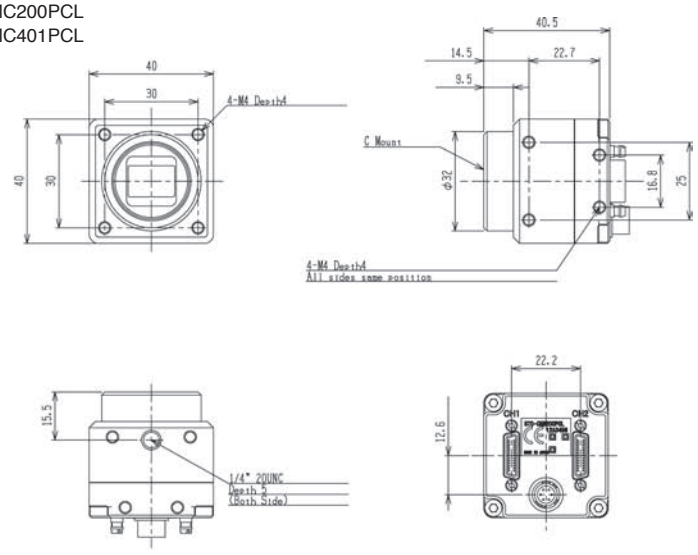
Tripod Mount	
Model	Applicable Model
TP-JQA	2M (CM*200PCL), 3.2M, 4M, 5M (SP*500/510PCL), 8.9M, 12.3M, 25M (GP*250BPCL)
TP-HCA	SPB/SPC43, 52, 163, 202PCL

Power Supply and I/O Cables	
Model	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

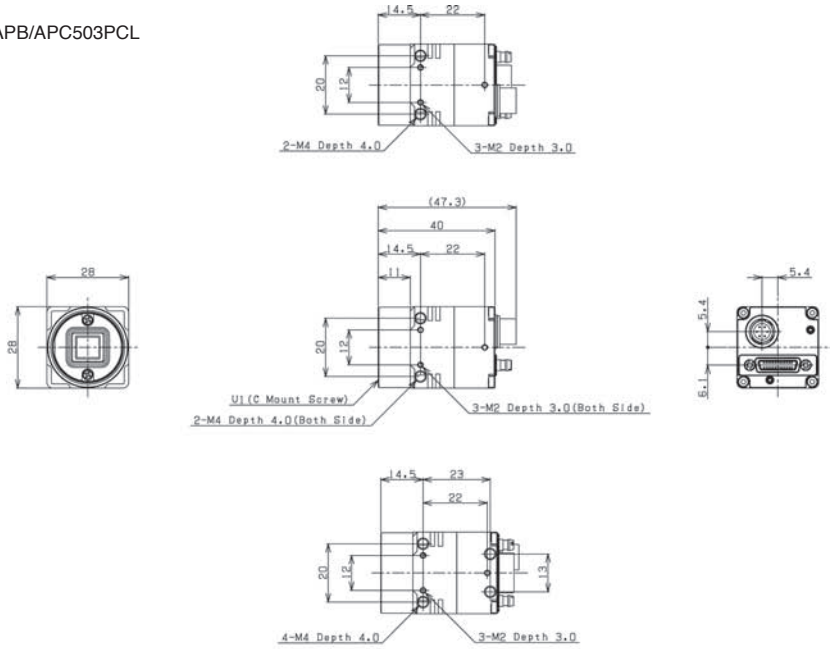
Note. Please connect the cables according to the external connector specifications prescribed in your camera's specification documents, for faulty wiring can cause failure.
Note. Do not connect the shell, for doing so can cause failure or malfunction.

Drawing dimension

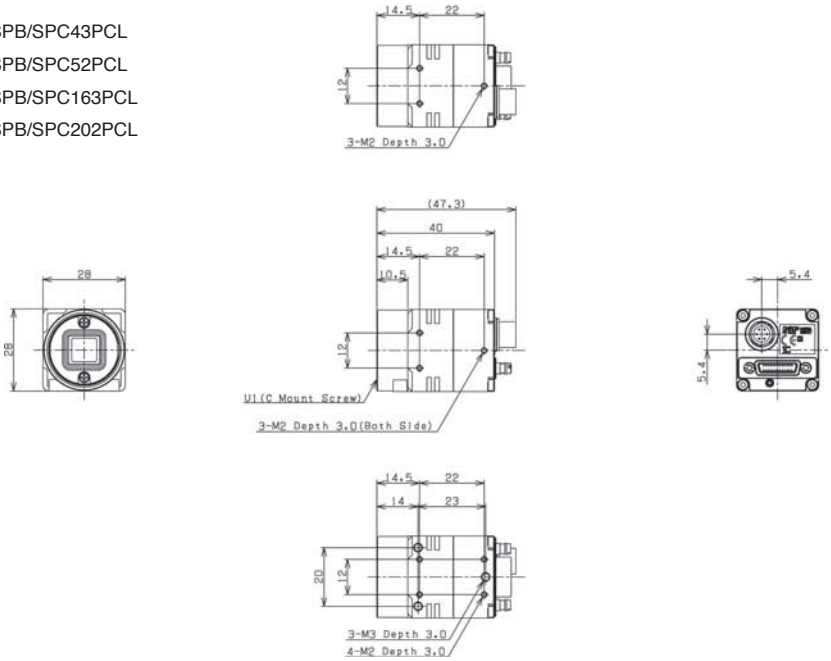
STC-CMB/CMC200PCL
STC-CMB/CMC401PCL



STC-APB/APC503PCL

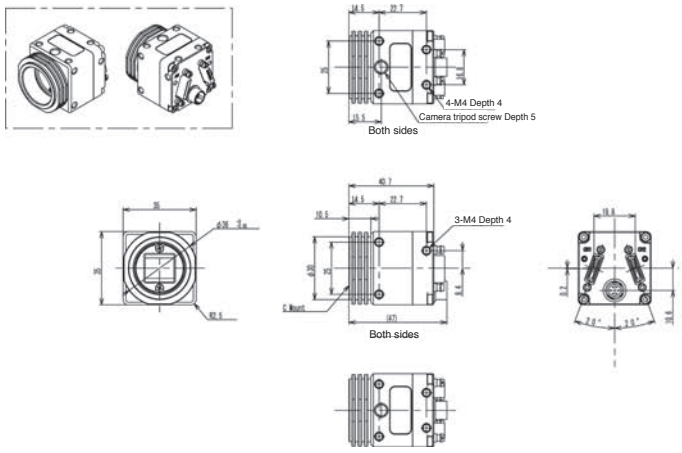


STC-SPB/SPC43PCL
STC-SPB/SPC52PCL
STC-SPB/SPC163PCL
STC-SPB/SPC202PCL

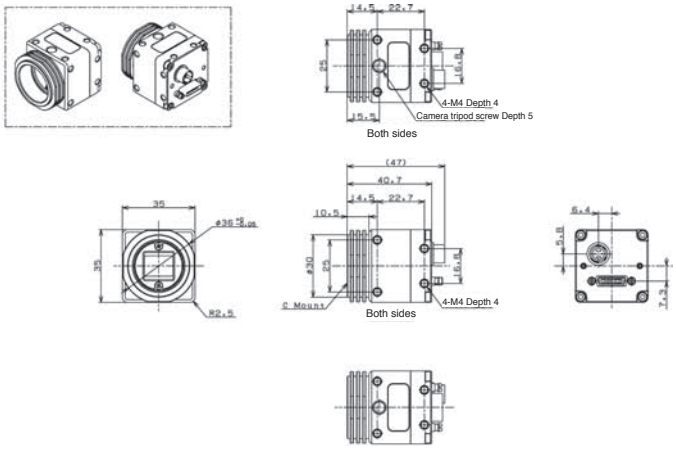


Drawing dimension

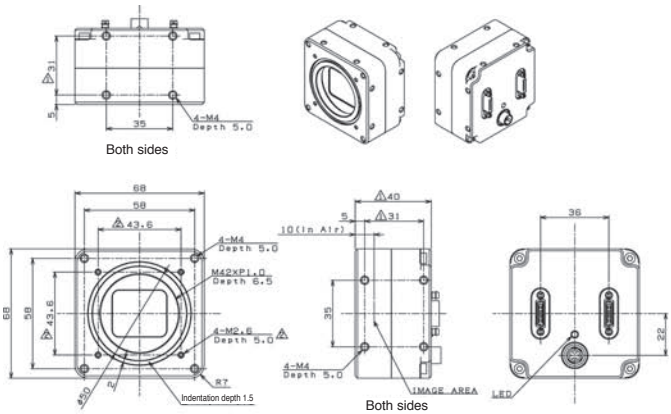
STC-SPB/SPC322PCL
STC-SPB/SPC510PCL
STC-SPB/SPC891PCL
STC-SPB/SPC123BPCL
STC-GPB/GPC250BPCL



STC-SPB/SPC312PCL
STC-SPB/SPC500PCL
STC-SPB/SPC881PCL
STC-SPB/SPC122BPCL



STC-CMB/CMC120APCL



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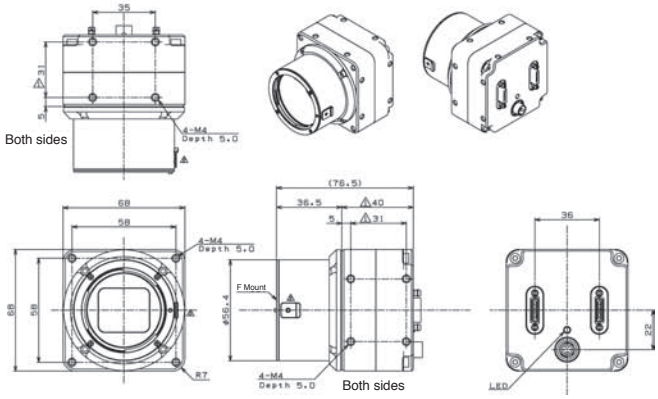
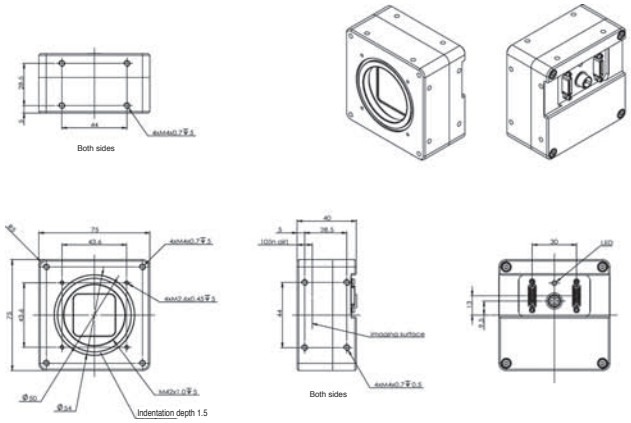
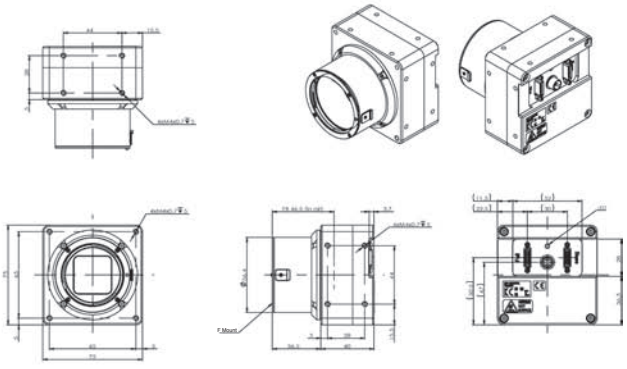


STC-OSB/OSC250CL



STC-OSB/OSC250CL-F



Camera Link Remote Head Camera

Description

Ultra-compact remote head Camera Link camera

Features

Remote sensor unit allows for compact head that can be installed in small spaces where installation was previously difficult

More durable cables

S-mount model with remote head connected by 2.5 m cable

Product Line-up

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	General Specifications
STC-RBS43PCL-SM12	Monochrome	0.4M	523.6 fps	720 × 540	1/2.9	6.9 × 6.9	IMX287	S	PoCL,automatically switched, SDR connector × 1 Cable from rear, cable length: 2.5 m
STC-RCS43PCL-SM12	Color								
STC-RBS43PCL-UM12	Monochrome								PoCL,automatically switched, SDR connector × 1 Cable from top, cable length: 2.5 m
STC-RCS43PCL-UM12	Color								
STC-RBS163PCL-SM12	Monochrome	1.6M	236.3 fps	1440 × 1080	1/2.9	3.45 × 3.45	IMX273	S	PoCL,automatically switched, SDR connector × 1 Cable from rear, cable length: 2.5 m
STC-RCS163PCL-SM12	Color								
STC-RBS163PCL-UM12	Monochrome								PoCL,automatically switched, SDR connector × 1 Cable from top, cable length: 2.5 m
STC-RCS163PCL-UM12	Color								

Note. Supply power via PoCL or power supply and I/O cable.

S-Mount (M12 P0.5) Lens

Model	Applicable Model	General Specifications
CV0205C	S-mount models	f = 2.5 mm, 1/3", F2.0, 5 MP resolution
KVAB009		Lens fixing washer

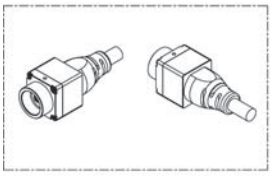
Accessories

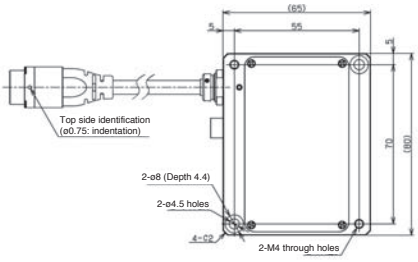
Power Supply and I/O Cables	
Model	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

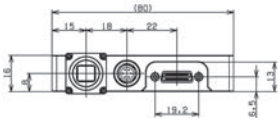
Note. Please connect the cables according to the external connector specifications prescribed in your camera's specification documents, for faulty wiring can cause failure.
Note. Do not connect the shell, for doing so can cause failure or malfunction.

Drawing dimension

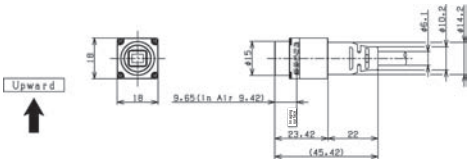
STC-RBS/RCS43PCL-SM12
STC-RBS/RCS163PCL-SM12

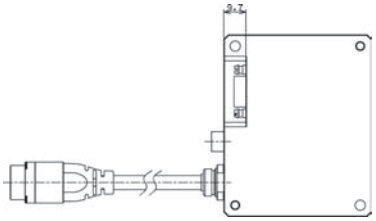




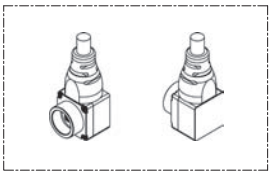


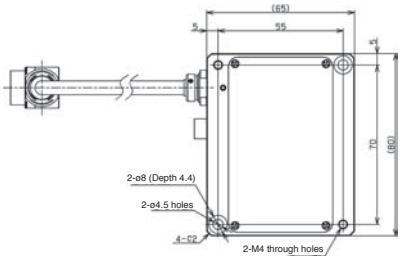
Detail of head

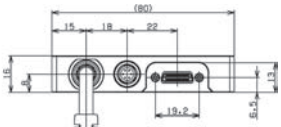




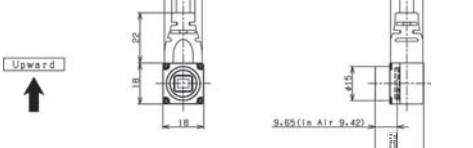
STC-RBS/RCS43PCL-UM12
STC-RBS/RCS163PCL-UM12

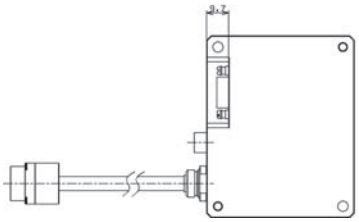






Detail of head





CameraLink

Camera Link Line Scanning Camera

Description

Camera Link Line Scanning Camera

Features

2K-16K models with high-speed CMOS sensor

A rich assortment of features including FFC and ROI;

compact case designed for easy installation

Equipped with MDR Camera Link connector

Product Line-up

Model	Monochrome/Color	Resolution	Line Rate	Pixel size	Sensor	Sensor Type	Lens Mount
FS-B2KU7CLU-C	Monochrome	2048 × 1	80 kHz	7 µm	DR-2K-7	Single	C
FS-B2KU7CLU-F							F
FS-B2KU7CLU-M42							M42
FS-B4KU7CLU-F		4096 × 1		7 µm	DR-4K-7	Single	F
FS-B4KU7CLU-M42							M42
FS-B4KU35CLU-C		4096 × 1		3.5 µm	DR-4K-3.5	Single	C
FS-B4KU35CLU-F							F
FS-B4KU35CLU-M42							M42
FS-B8KU7CLU-M72		8192 × 1		7 µm	DR-8K-7	Single	M72
FS-B8KU35CLU-F		8192 × 1		3.5 µm	DR-8K-3.5	Single	F
FS-B8KU35CLU-M42							M42
FS-B16KU35CLU-M72		16384 × 1	40 kHz	3.5 µm	DR-16K-3.5	Single	M72
FS-B2KU7DCLU-C		2048 × 2	160 kHz	7 µm	DR-2 × 2K-7-inver	Dual	C
FS-B2KU7DCLU-F							F
FS-B2KU7DCLU-M42							M42
FS-B4KU7DCLU-F		4096 × 2	160 kHz	7 µm	DR-2 × 4K-7-inver	Dual	F
FS-B4KU7DCLU-M42							M42
FS-B8KU7DCLU-M72		8192 × 2	80 kHz	7 µm	DR-2 × 8K-7	Dual	M72
FS-C2KU7DCLU-C	Color	2048 × 2	80 kHz	7 µm	DR-2 × 2K-7-inver-RGB	Dual	C
FS-C2KU7DCLU-F							F
FS-C2KU7DCLU-M42							M42
FS-C4KU7DCLU-F		4096 × 2	80 kHz	7 µm	DR-2 × 4K-7-inver-RGB	Dual	F
FS-C4KU7DCLU-M42							M42
FS-C8KU7DCLU-M72		8192 × 2	40.5 kHz	7 µm	DR-2 × 8K-7-RGB	Dual	M72

Note. Supply power via power supply and I/O cable (PoCL not supported).

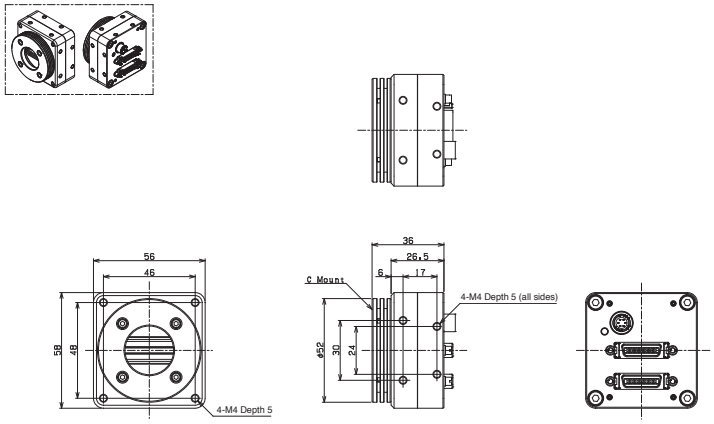
Accessories

Power Supply and I/O Cables	
Model	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

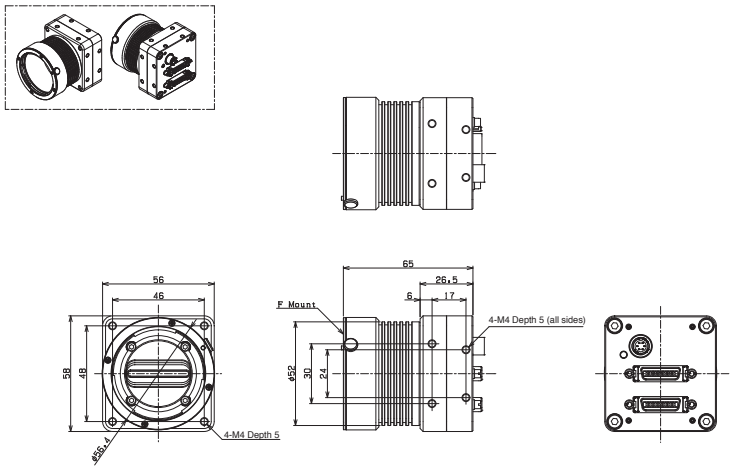
Note. Please connect the cables according to the external connector specifications prescribed in your camera's specification documents, for faulty wiring can cause failure.
Note. Do not connect the shell, for doing so can cause failure or malfunction.

Drawing dimension

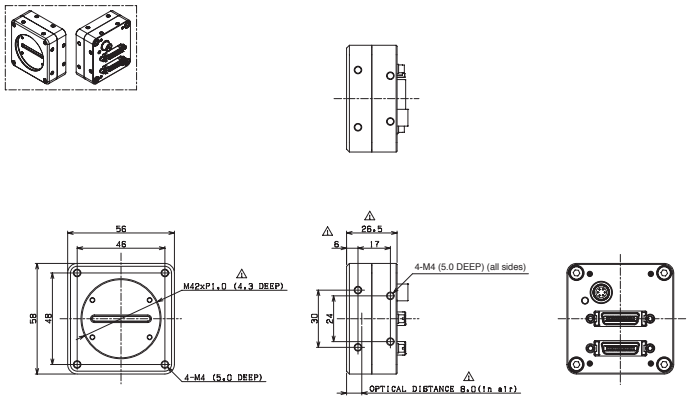
C Mount (2K/4K)



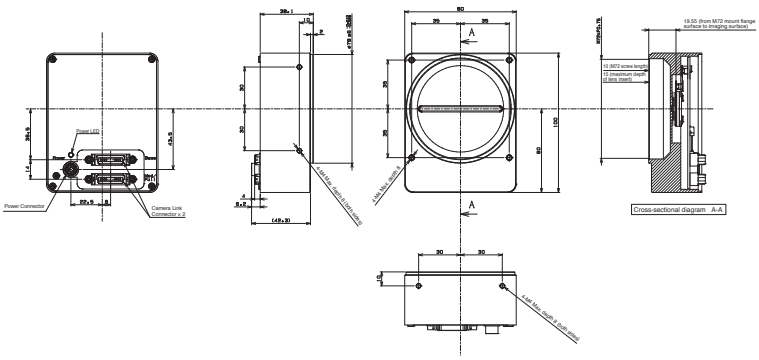
F Mount (2K/4K/8K)



M42 Mount (2K/4K/8K)



M72 Mount (8K/16K)



SWIR Camera NEW

Description

Wide-band SWIR camera

Features

Equipped with IMX991 or IMX990 with sensitivity of 400 to 1,700 nm

0.3 MP or 1.3 MP resolution, and GigE Vision, Camera Link, or USB3 Vision interface

Efficient heat dissipation with built-in Peltier element

Product Line-up

Model	Capable bandwidth	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	General Specifications
STC-LBS34POE-SWIR	400 - 1,700 nm	Monochrome	0.3M	242 fps	656 × 520	1/4	5 × 5	IMX991	C	GigE Vision PoE supported
STC-LBS132POE-SWIR		Monochrome	1.3M	84 fps	1280 × 1024	1/2		IMX990		
STC-LBS34CL-SWIR *	400 - 1,700 nm	Monochrome	0.3M	258 fps	656 × 520	1/4	5 × 5	IMX991	C	CameraLink PoCL not supported
STC-LBS132CL-SWIR *		Monochrome	1.3M	134 fps	1280 × 1024	1/2		IMX990		
STC-LBS34U3V-SWIR *	400 - 1,700 nm	Monochrome	0.3M	258 fps	656 × 520	1/4	5 × 5	IMX991	C	USB3 Vision
STC-LBS132U3V-SWIR *		Monochrome	1.3M	134 fps	1280 × 1024	1/2		IMX990		

Note. Supply power to GigE Vision model via PoE or power supply and I/O cable. PoE NIC or Ethernet switch separately needed to supply power via PoE.
Note. Supply power to Camera Link or USB3 Vision model via power supply and I/O cable.
* Coming soon.

SWIR

Accessories

Screw-Fastened GigE Cables		
Model	Length	Cable Type
CAB-GE-02-RBH	2 m	Bending resistance cables
CAB-GE-03-RBH	3 m	
CAB-GE-05-RBH	5 m	
CAB-GE-10-RBH	10 m	
CAB-GE-20-RBH	20 m	
CAB-GE-40-RBH	40 m	
CAB-GE-02-RBX	2 m	Super bending resistance cables
CAB-GE-03-RBX	3 m	
CAB-GE-05-RBX	5 m	
CAB-GE-10-RBX	10 m	
CAB-GE-20-RBX	20 m	
CAB-GE-40-RBX	40 m	

Power Supply and I/O Cables	
Model	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

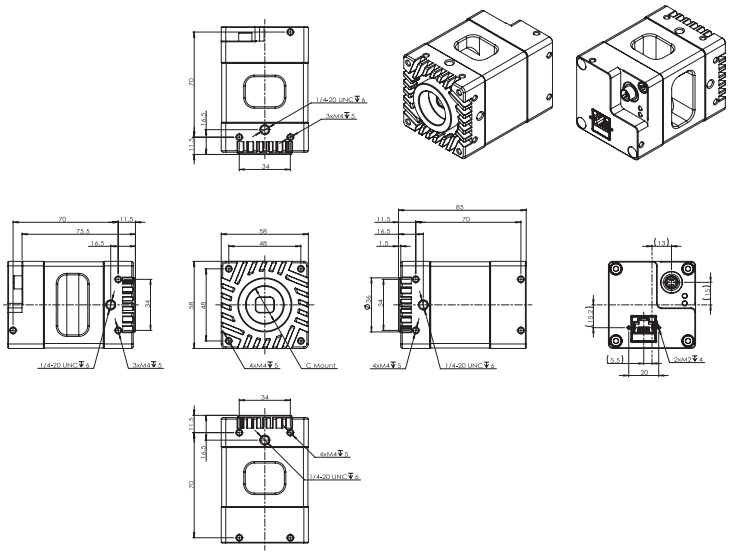
Note. Please connect the cables according to the external connector specifications prescribed in your camera' s specification documents, for faulty wiring can cause failure.
Note. Connect the shell of the GigE Vision model to FG.
Do not connect the shell of the Camera Link or USB3 Vision model. Doing so can cause failure or malfunction.

USB 3.0 Cables (USB 3.0 Micro-B, with Camera-Side Fastening Screws)		
Model	Length	Cable Type
CAB-USB3-02	2 m	Normal
CAB-USB3-03	3.5 m	
CAB-USB3-05	5 m	
CAB-USB3-07	7 m	
CAB-USB3-10	10 m	Normal high-transmission cables
CAB-USB3-02-RB	2 m	Robot cables
CAB-USB3-03-RB	3.5 m	
CAB-USB3-05-RB	5 m	
CAB-USB3-07-RB	7 m	

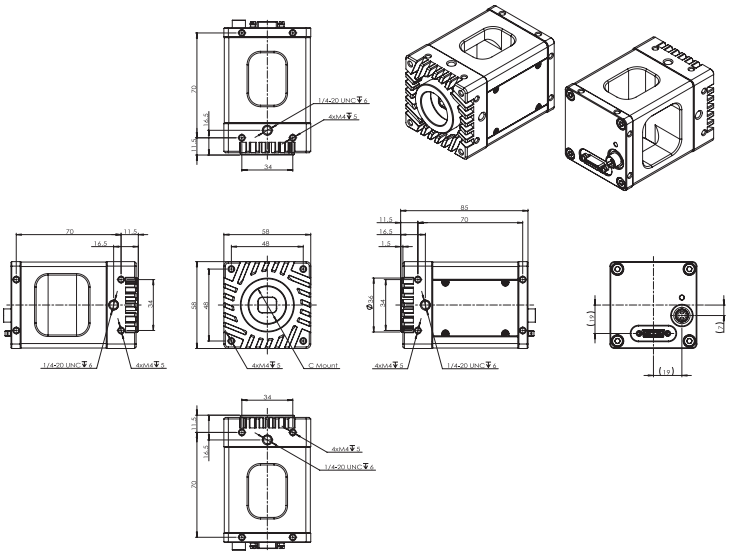
Note. Please make sure in advance that USB 3.0 cables operate correctly under your environment.

Drawing dimension

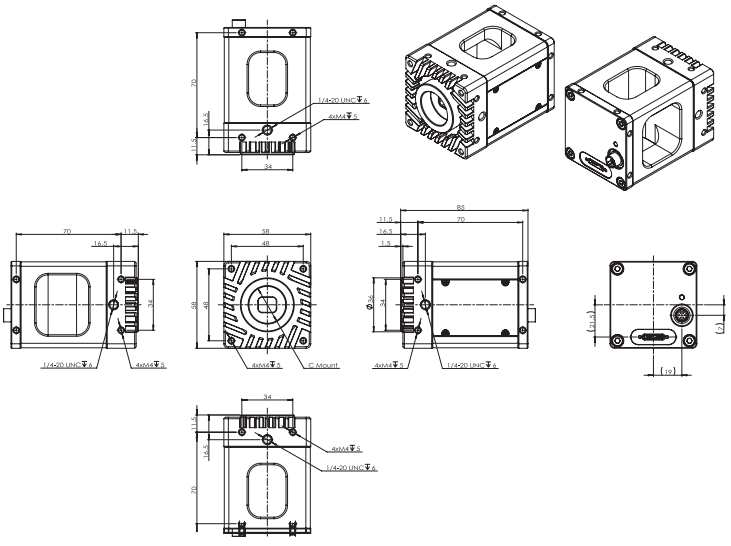
GigE Vision



Camera Link



USB3 Vision



4K HDMI Camera

Description

HDMI Output 4K Color Camera

Features

4K video output; 120 fps output available in Full HD mode (1080P 120 fps monitor)

Can be used without a PC, allowing users to affordably build observation systems, etc.

Product Line-up

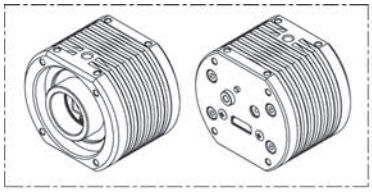
Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H × V)	Sensor Size	Cell Size (μm)	Sensor	Lens Mount
STC-HD853HDMI	Color	2160P	60 fps	3840 × 2160	1/2.5	1.62 × 1.62	IMX274	C

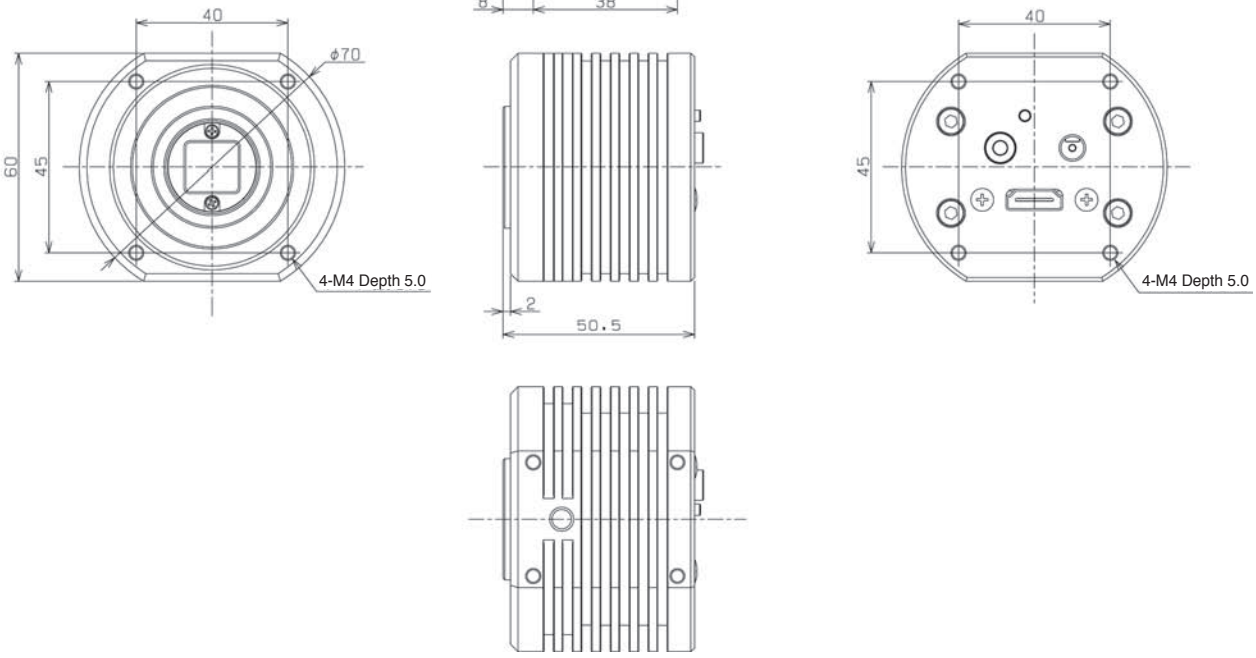
Accessories

Remote Control Unit		
Model	Applicable Model	General Specifications
RC-HD133	HDMI/DVI/SDI	ø3.5 stereo pin jack

Drawing dimension

STC-HD853HDMI





HD High-Definition Camera

Description

DVI Output Color Camera

Features

Connect directly to monitor with HDMI connector to build observing system without PC
Use of optional remote unit enables crosshair and shadow masks to be displayed on screen
Power input socket equipped with connector lock mechanism to keep power cable firmly in place (supported connector required)
Two types of models available: standard models with memory and models without memory

Product Line-up

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	General Specifications
STC-HD213DV	Color	1080P/1080i	60 fps	1920 × 1080	1/2.8	2.9 × 2.9	IMX291	C	With memory
STC-HD213DV-CS								CS	
STC-HD213DVN	Color	1080P/1080i	60 fps	1920 × 1080	1/2.8	2.9 × 2.9	IMX291	C	No memory
STC-HD213DVN-B								C	
STC-HD213DVN-CS								CS	

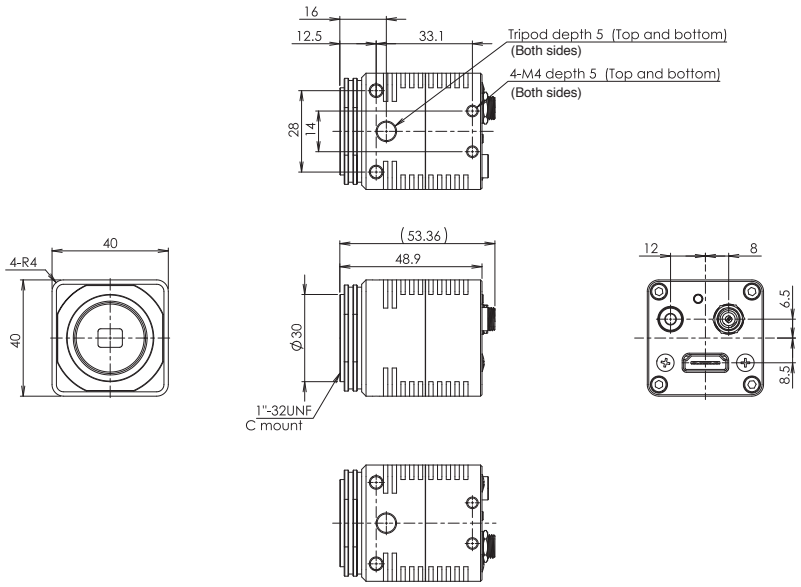
Accessories

Mount Conversion Adapter		
Model	Applicable Model	General Specifications
CS-C-R	CS Mount Series	

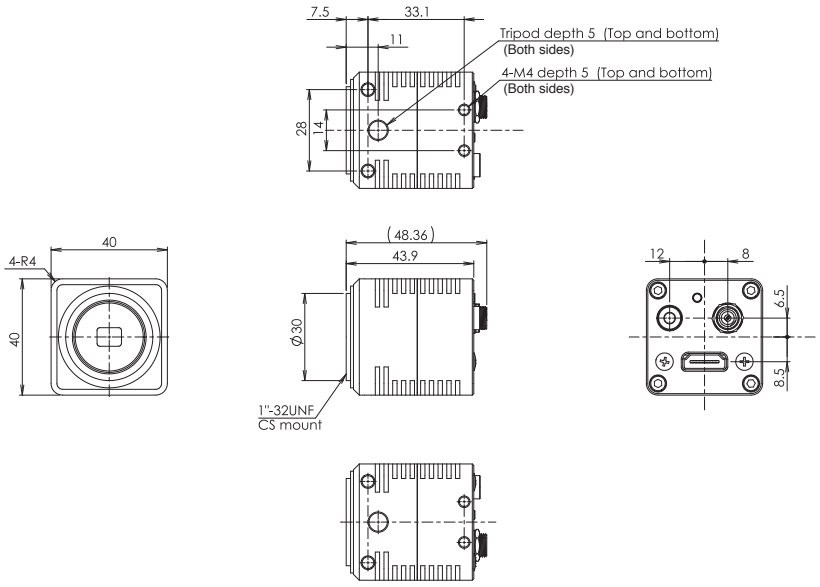
Remote Control Unit		
Model	Applicable Model	General Specifications
RC-HD133	HDMI/DVI/SDI	ø3.5 stereo pin jack

Drawing dimension

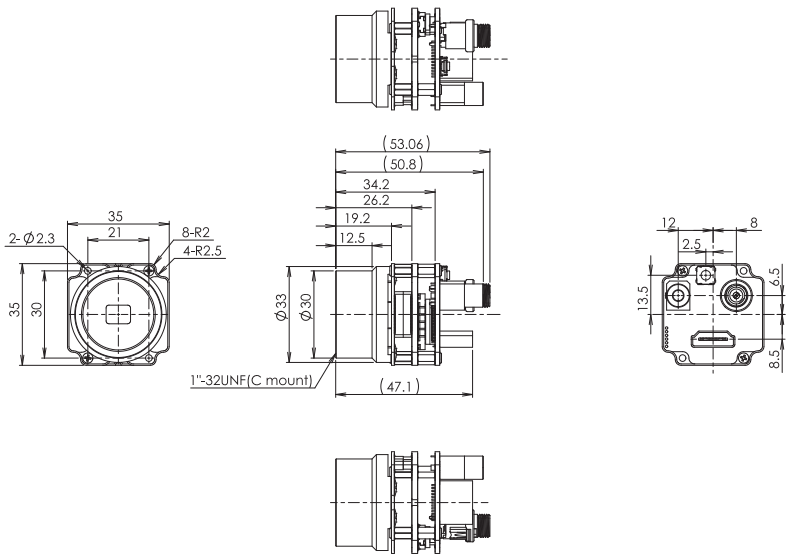
STC-HD213DV
STC-HD213DVN



STC-HD213DV-CS
STC-HD213DVN-CS



STC-HD213DVN-B



HD-SDI HD Camera

Description

HD-SDI Output Color Camera

Features

Connect directly to monitor with versatile BNC connector
Suitable for long distance image transmission
Use of optional remote unit enables crosshair and shadow masks to be displayed on screen
Power input socket equipped with connector lock mechanism to keep power cable firmly in place (supported connector required)
Two types of models available: standard models with memory and models without memory

Product Line-up

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount	General Specifications
STC-HD213SDI	Color	1080P/1080i	60 fps	1920 × 1080	1/2.8	2.9 × 2.9	IMX291	C	With memory
STC-HD213SDI-CS								CS	
STC-HD213SDIN	Color	1080P/1080i	60 fps	1920 × 1080	1/2.8	2.9 × 2.9	IMX291	C	No memory
STC-HD213SDIN-B								C	
STC-HD213SDIN-CS								CS	

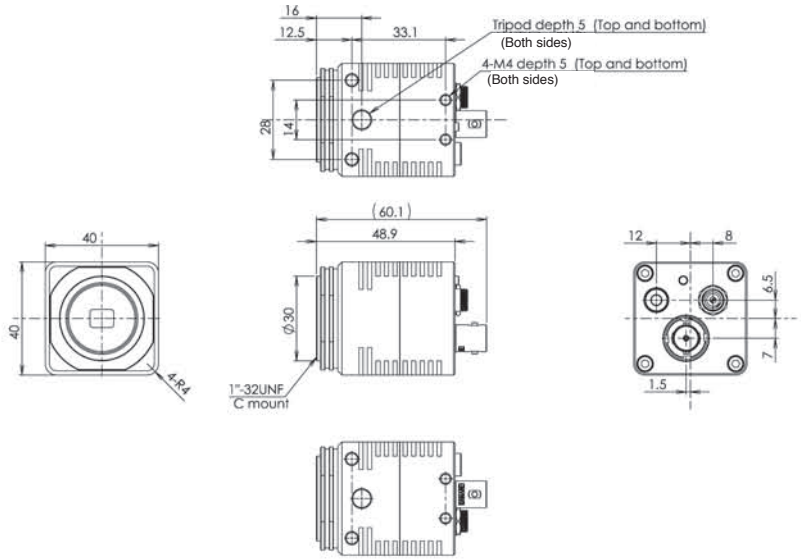
Accessories

Mount Conversion Adapter		
Model	Applicable Model	General Specifications
CS-C-R	CS Mount Series	

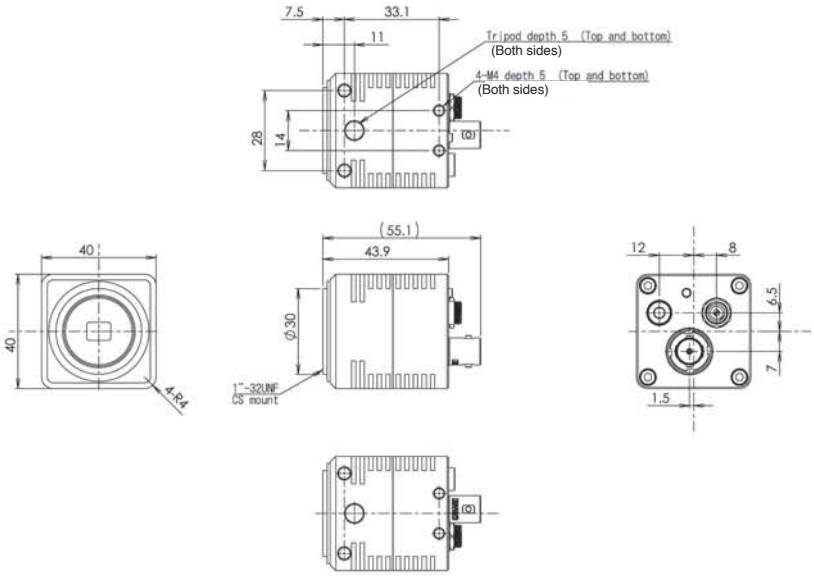
Remote Control Unit		
Model	Applicable Model	General Specifications
RC-HD133	HDMI/DVI/SDI	ø3.5 stereo pin jack

Drawing dimension

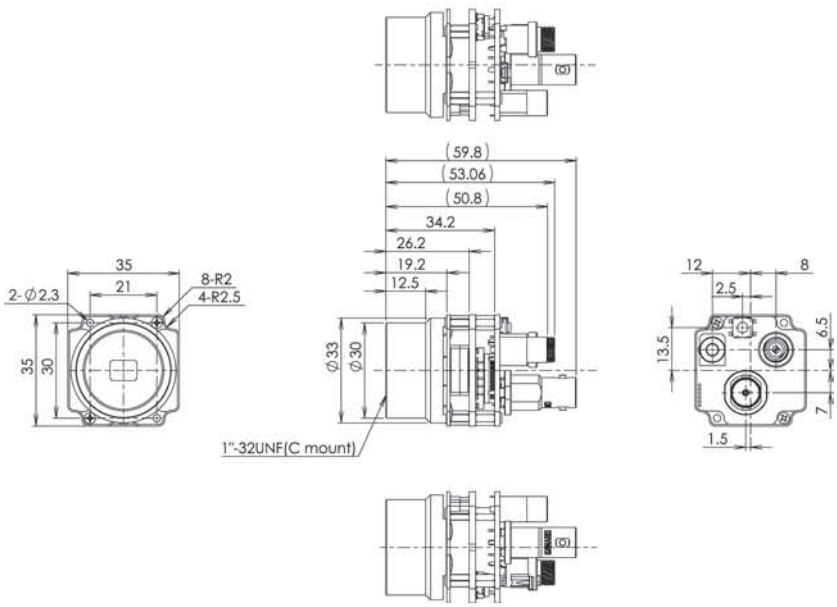
STC-HD213SDI
STC-HD213SDIN



STC-HD213SDI-CS
STC-HD213SDIN-CS



STC-HD213SDIN-B



Analog Progressive Camera

Description

Progressive Scan Monochrome CCD Camera

Features

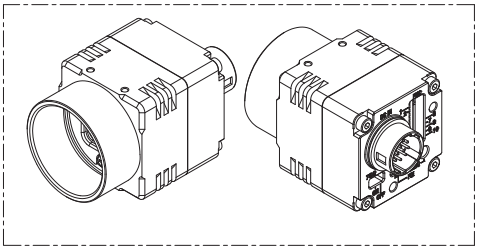
Compact monochrome progressive scan camera
with SHARP CCD sensor

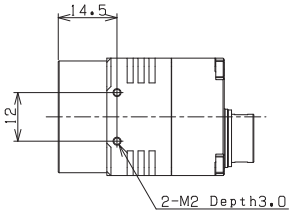
Product Line-up

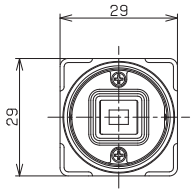
Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount
STC-MB33SS	Monochrome	VGA	60 fps	648 × 494	1/3	7.4 × 7.4	RJ33B4AA0DT	C

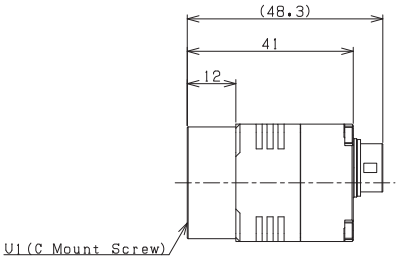
Drawing dimension

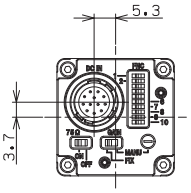
STC-MB33SS

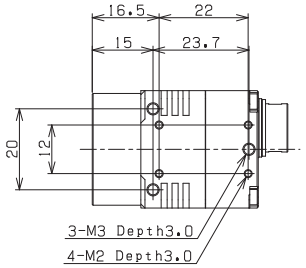












TV Format Color Camera S133N-B Series

Description

1/3.2" 0.65 Mpix TV format color CMOS camera

Features

DC jack type and terminal block type for power input
Equipped with gain, shutter, color adjustment and many other features, whose settings can be adjusted on-screen using the OSCD (On Screen Character Display) function

Product Line-up

Model	Monochrome/Color	Resolution	Video Format	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount
STC-S133N-B*	Color	0.65M	NTSC	1280 × 486	1/3.2	3.5 × 3.5	ISX017	CS
STC-S133P-B*			PAL	1211 × 576				

* Select a model from the Line-up list below when ordering.

Accessories

Mount Conversion Adapter		
Model	Applicable Model	General Specifications
CS-C-R	CS Mount Series	CS mount → C mount conversion adapter

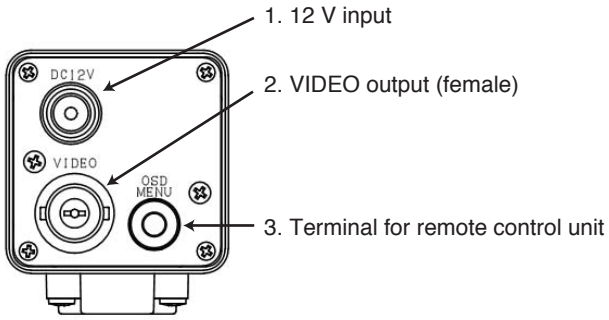
Remote Control Unit		
Model	Applicable Model	General Specifications
RC-S133B	S133N-B Series	

Line-up

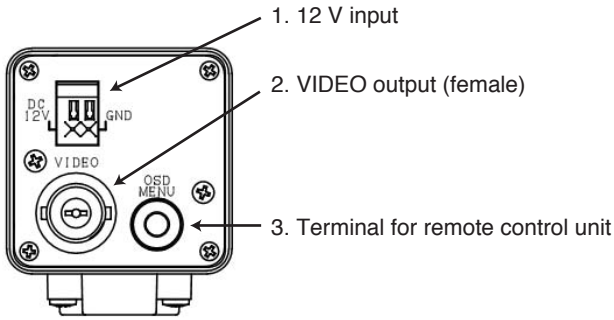
Model	Monochrome/Color	Sensor Size	Lens Mount	Video Format	General Specifications
STC-S133N-BJ	Color	1/3.2	CS	NTSC	Case, output: BNC
STC-S133P-BJ				PAL	
STC-S133N-BT				NTSC	
STC-S133P-BT				PAL	

Drawing dimension

[External Connector Specification]



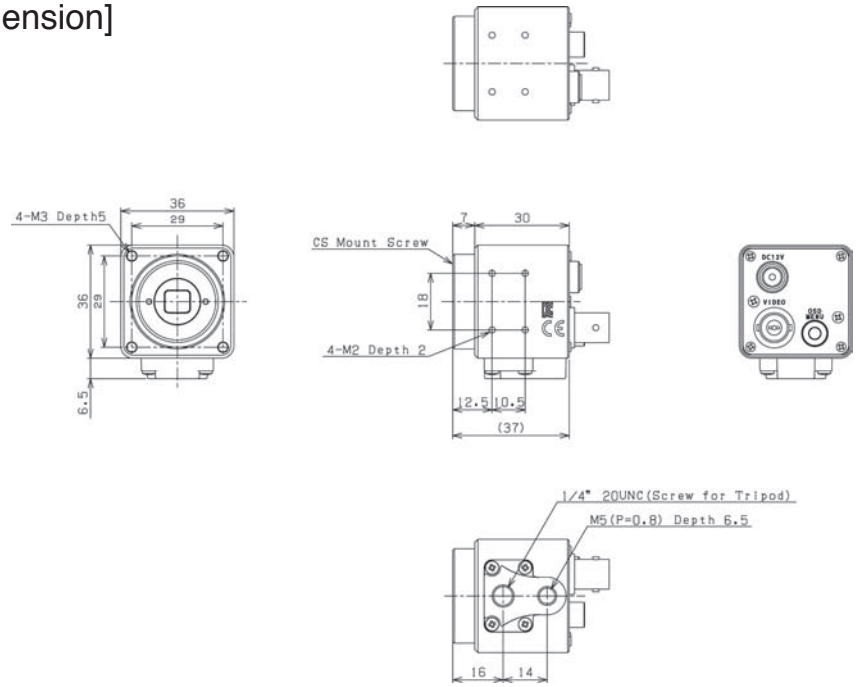
BJ type



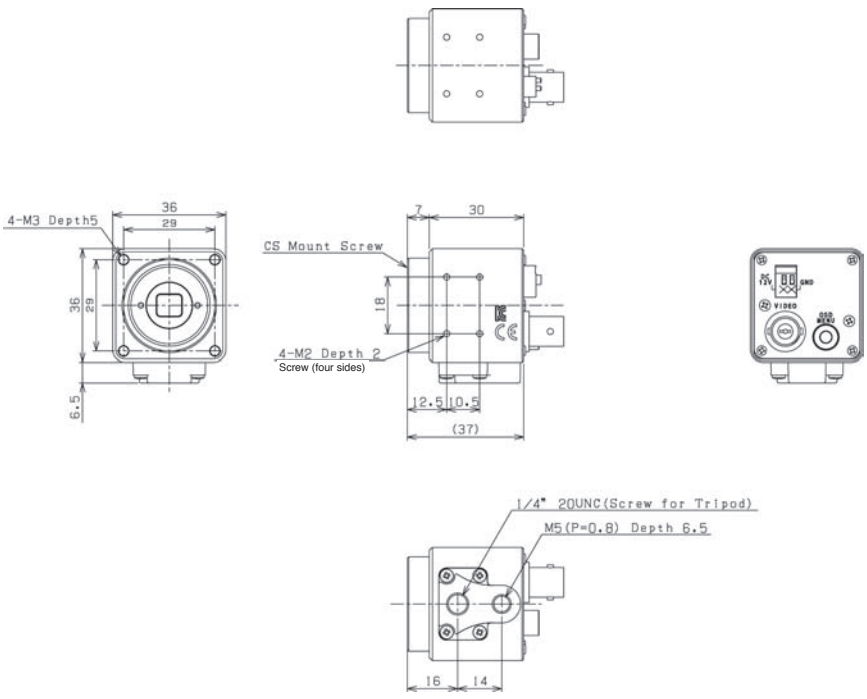
BT type

[Drawing dimension]

BJ type



BT type



Small Board Camera STC-S133 Series

Description

Small Board Camera

Features

Compact and lightweight camera for integration into machines
Equipped with high-sensitivity sensors
Users can select TV format, UVC (USB 3.0), or
MIPI according to their operating environment

Product Line-up

Model	Monochrome/Color	Resolution	Effective Pixels (H × V)	Sensor Size	Cell Size (µm)	Sensor	Interface
STC-S133N-**	Color	0.65M	1280 × 486	1/3.2	3.5 × 3.5	ISX017	TV Format
STC-S133P-**			1211 × 576				
STC-S133UVC-**		1.3M	1280 × 960				USB3.0 (UVC)
STC-S133MIP-**							MIPI

* Select a model from the Line-up list below when ordering.

Line-up

TV Format (NTSC/PAL)					
Model	Monochrome/Color	Frame Rate	Sensor Size	Lens Mount	General Specifications
STC-S133N	Color	30 fps	1/3.2	---	DPF, Board, Base (without lens mount)
STC-S133P		25 fps		---	DPF, Board, Base (without lens mount)
STC-S133N-NF		30 fps		---	Board, Base (without lens mount), No filter
STC-S133P-NF		25 fps		---	Board, Base (without lens mount), No filter
STC-S133N-L		30 fps		S	DPF, Board, S Mount
STC-S133N-LS		30 fps		S	DPF, Board, S Mount, Lens fixing washer
STC-S133P-L		25 fps		S	DPF, Board, S Mount
STC-S133N-CS		30 fps		CS	DPF, Board, CS Mount
STC-S133P-CS		25 fps		CS	DPF, Board, CS Mount
STC-S133N-I		30 fps		---	IRCF, Board, Base (without lens mount)
STC-S133P-I		25 fps		---	IRCF, Board, Base (without lens mount)
STC-S133N-IL		30 fps		S	IRCF, Board, S Mount
STC-S133P-IL		25 fps		S	IRCF, Board, S Mount
STC-S133N-ICS		30 fps		CS	IRCF, Board, CS Mount
STC-S133P-ICS		25 fps		CS	IRCF, Board, CS Mount
STC-S133N-ILS		30 fps		S	IRCF, Board, S Mount, Lens fixing washer
STC-S133N-AL		30 fps		S	DPF, Case, S Mount
STC-S133P-AL		25 fps		S	DPF, Case, S Mount
STC-S133N-ACS		30 fps		CS	DPF, Case, CS Mount
STC-S133P-ACS		25 fps		CS	DPF, Case, CS Mount
STC-S133N-IAL		30 fps		S	IRCF, Case, S Mount
STC-S133P-IAL		25 fps		S	IRCF, Case, S Mount
STC-S133N-IACS		30 fps		CS	IRCF, Case, CS Mount
STC-S133P-IACS		25 fps		CS	IRCF, Case, CS Mount

Note. DPF: Dual Pass Filter, IRCF: IR Cut Filter

Go to the next page

USB3.0 (UVC)					
Model	Monochrome/Color	Frame Rate	Sensor Size	Lens Mount	General Specifications
STC-S133UVC-BL	Color	60 fps	1/3.2	---	IRCF, Board, Base (without lens mount), Connector from bottom
STC-S133UVC-BLL				S	IRCF, Board, S Mount, Connector from bottom
STC-S133UVC-BLCS				CS	IRCF, Board, CS Mount, Connector from bottom
STC-S133UVC-DBL				---	DPF, Board, Base (without lens mount), Connector from bottom
STC-S133UVC-DBLL				S	DPF, Board, S Mount, Connector from bottom
STC-S133UVC-DBLCS				CS	DPF, Board, CS Mount, Connector from bottom
STC-S133UVC-ALL				S	IRCF, Case, S Mount, Connector from bottom
STC-S133UVC-ALCS				CS	IRCF, Case, CS Mount, Connector from bottom
STC-S133UVC-DALL				S	DPF, Case, S Mount, Connector from bottom
STC-S133UVC-DALCS				CS	DPF, Case, CS Mount, Connector from bottom
STC-S133UVC-BS				---	IRCF, Board, Base (without lens mount), Connector from rear
STC-S133UVC-BSL				S	IRCF, Board, S Mount, Connector from rear
STC-S133UVC-BSCS				CS	IRCF, Board, CS Mount, Connector from rear
STC-S133UVC-DBS				---	DPF, Board, Base (without lens mount), Connector from rear
STC-S133UVC-DBSL				S	DPF, Board, S Mount, Connector from rear
STC-S133UVC-DBSCS				CS	DPF, Board, CS Mount, Connector from rear

Note. DPF: Dual Pass Filter, IRCF: IR Cut Filter

MIPI					
Model	Monochrome/Color	Frame Rate	Sensor Size	Lens Mount	General Specifications
STC-S133MIP	Color	60 fps	1/3.2	---	IRCF, Board, Base (without lens mount)
STC-S133MIP-CS				CS	IRCF, Board, CS Mount
STC-S133MIP-L				S	IRCF, Board, S Mount
STC-S133MIP-NF				---	Board, No filter
STC-S133MIP-D				---	DPF, Board, Base (without lens mount)
STC-S133MIP-DCS				CS	DPF, Board, CS Mount
STC-S133MIP-DL				S	DPF, Board, S Mount
STC-S133MIP-ALL				S	IRCF, Case, S Mount
STC-S133MIP-ALCS				CS	IRCF, Case, CS Mount
STC-S133MIP-DALL				S	DPF, Case, S Mount
STC-S133MIP-DALCS				CS	DPF, Case, CS Mount

Note. DPF: Dual Pass Filter, IRCF: IR Cut Filter
Harness is included.

Accessories

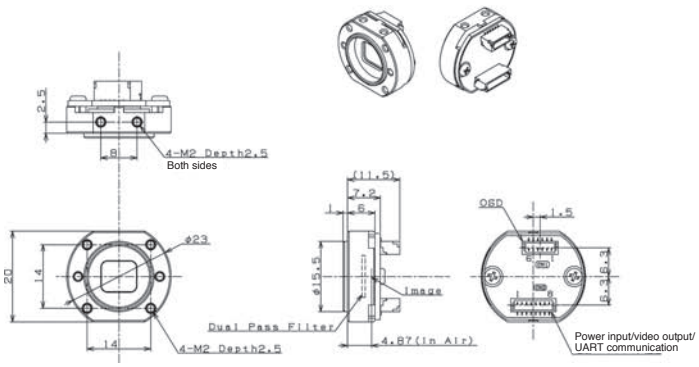
Remote Control Unit	
Model	Applicable Model
RC-S133	S133N(P) Series

Mount Conversion Adapter	
Model	Applicable Model
CS-C-R	CS-Mount Models of all S133 Series

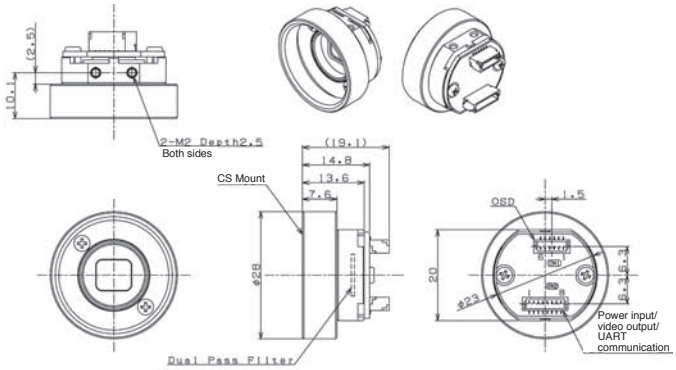
Harness for Power Supply/Signal Output		
Model	Applicable Model	General Specifications
KSAF005	For S133N/P	8-pin connector to power pin jack and BNC connector
KSAF006	For S133N/P	8-pin connector to power pin jack and RCA connector

Drawing dimension

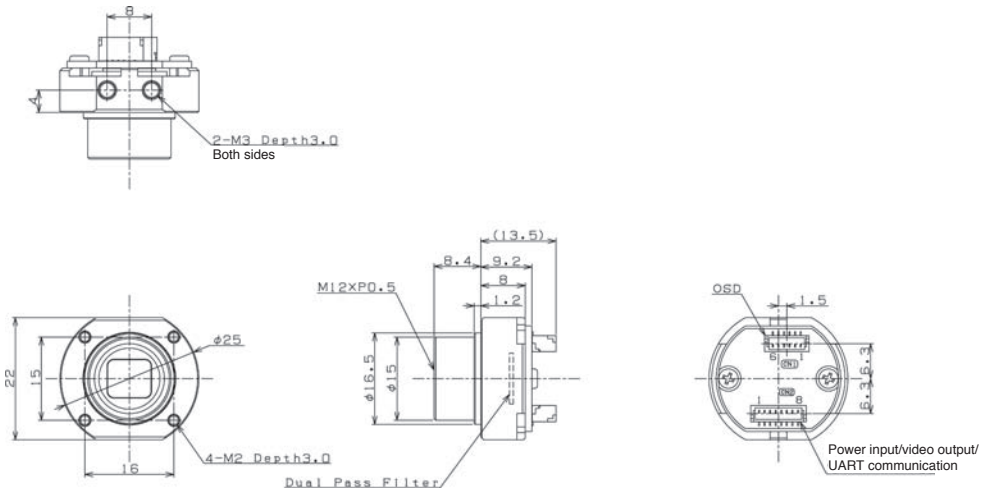
STC-S133N(P)/I



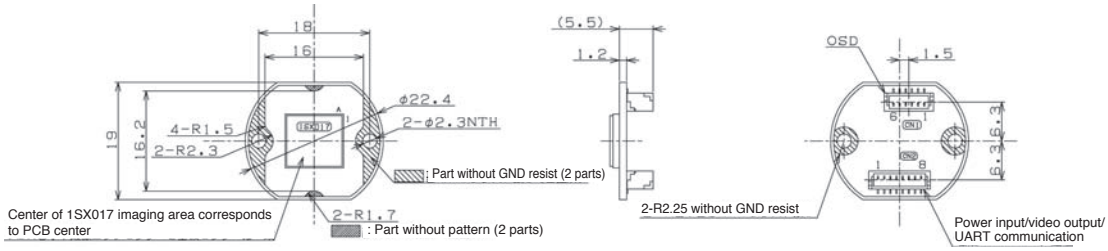
STC-S133N(P)/ICS



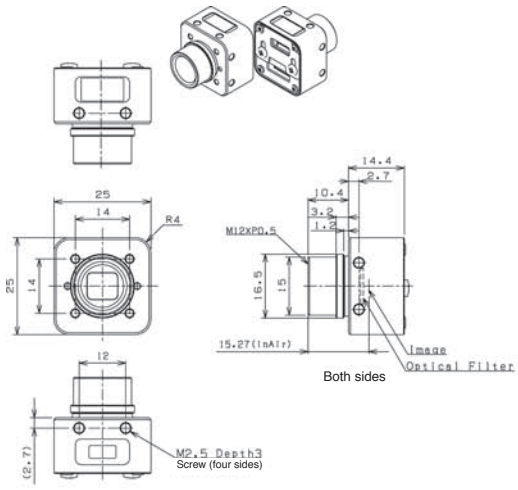
STC-S133N(P)-L/LS/IL/ILS



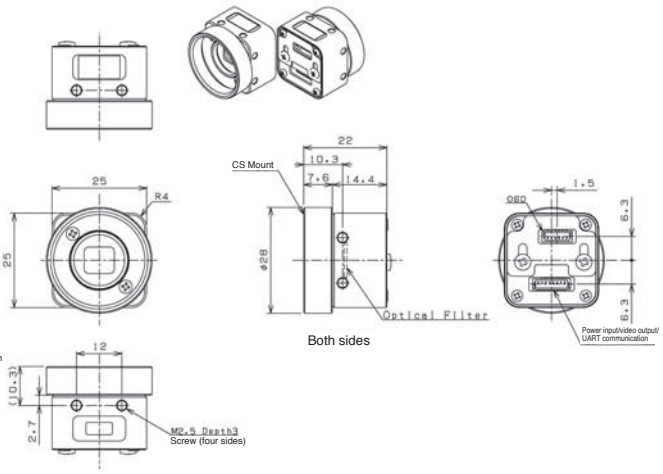
STC-S133N(P)-NF



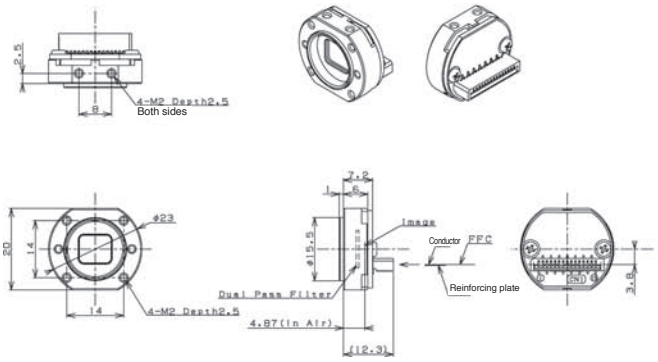
STC-S133N(P)-AL/IAL



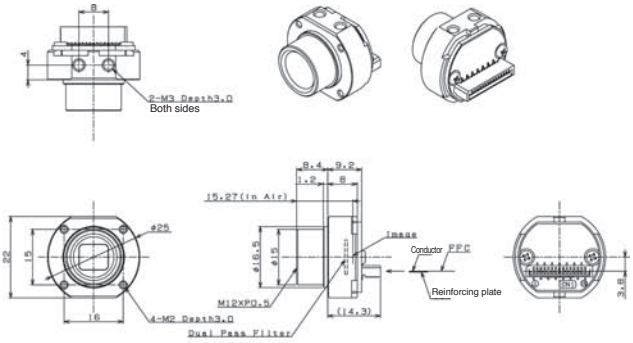
STC-S133N(P)-ACS/IACS



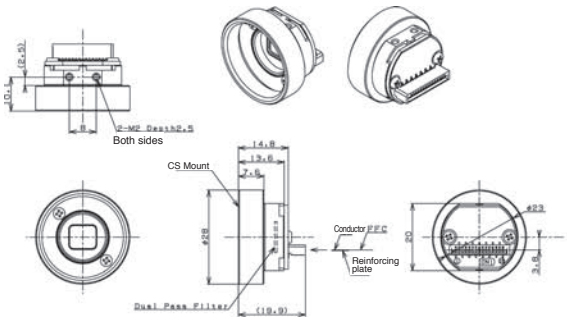
STC-S133MIP(D)



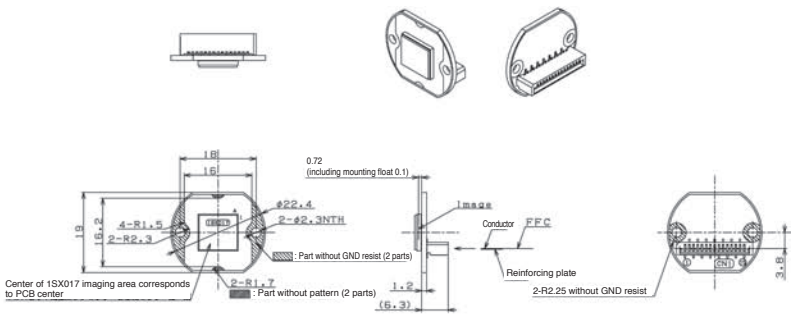
STC-S133MIP-L(DL)



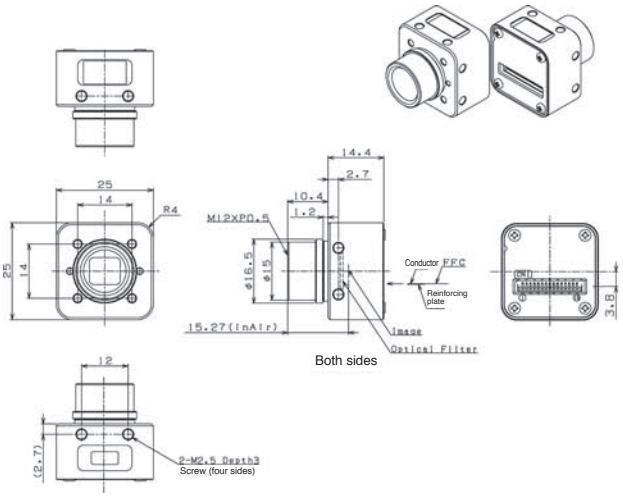
STC-S133MIP-CS(DCS)



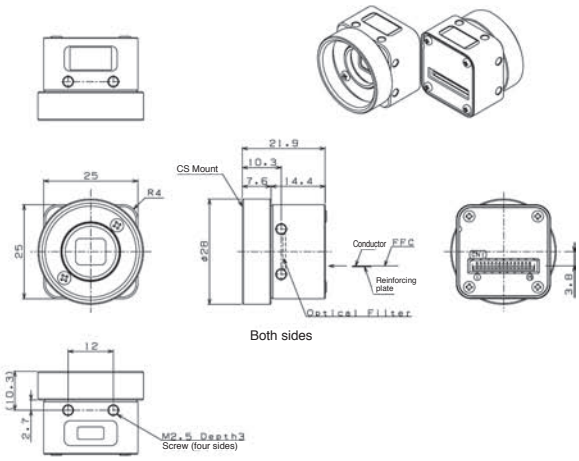
STC-S133MIP-NF



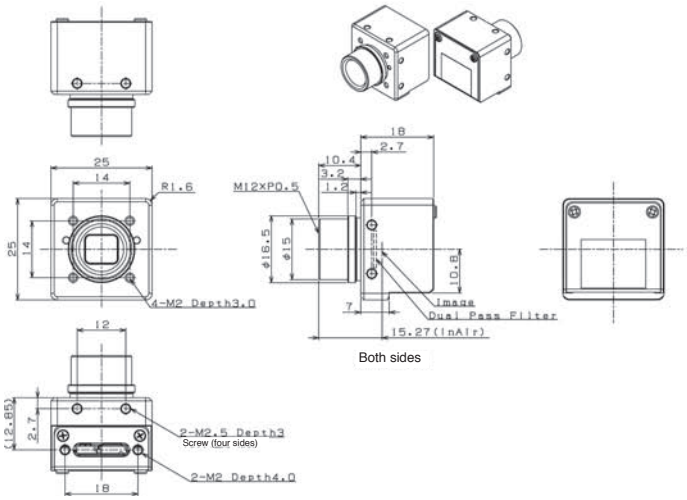
STC-S133MIP-ALL/DALL



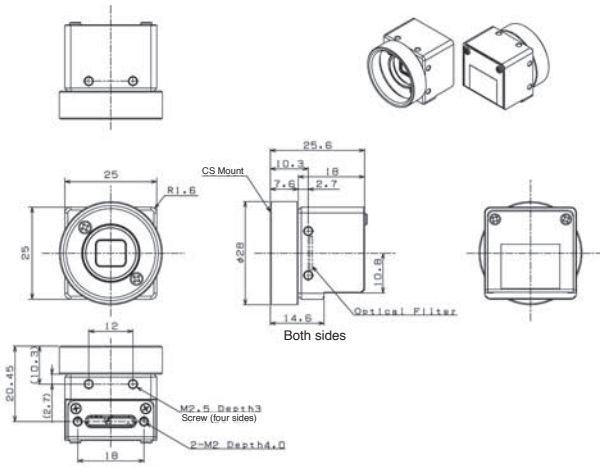
STC-S133MIP-ALCS/DALCS



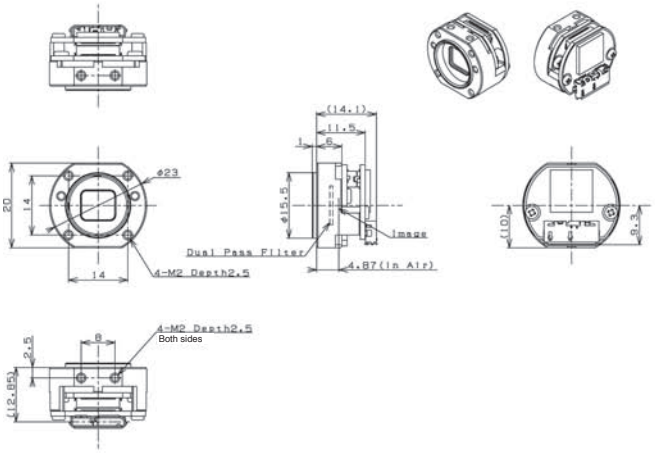
STC-S133UVC-ALL/DALL



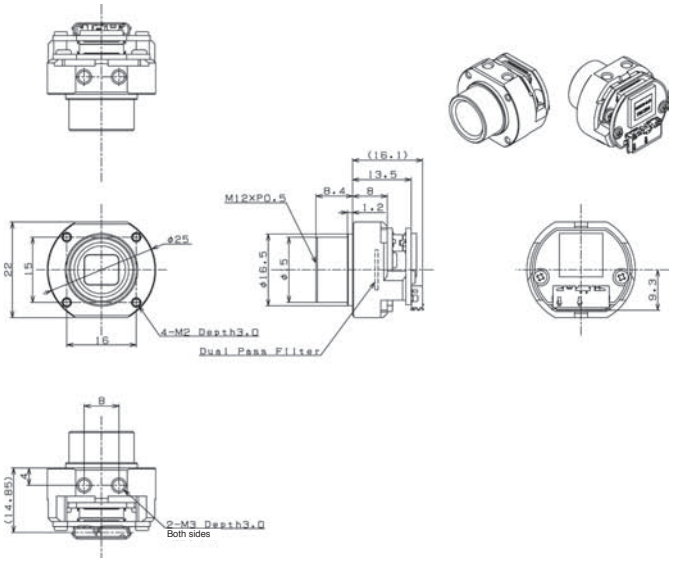
STC-S133UVC-ALCS/DALCS



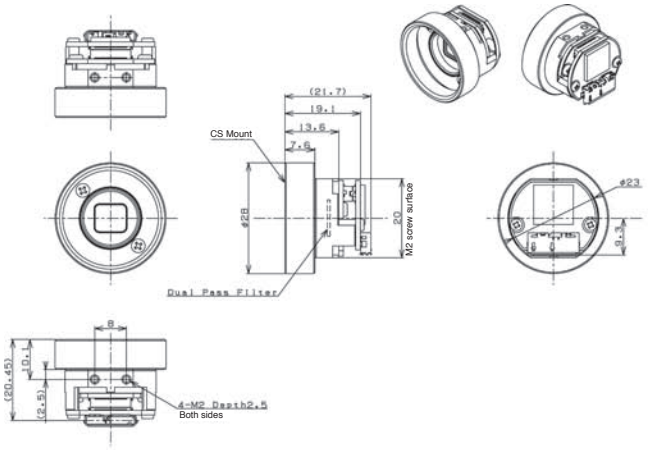
STC-S133UVC-BL(DBL)



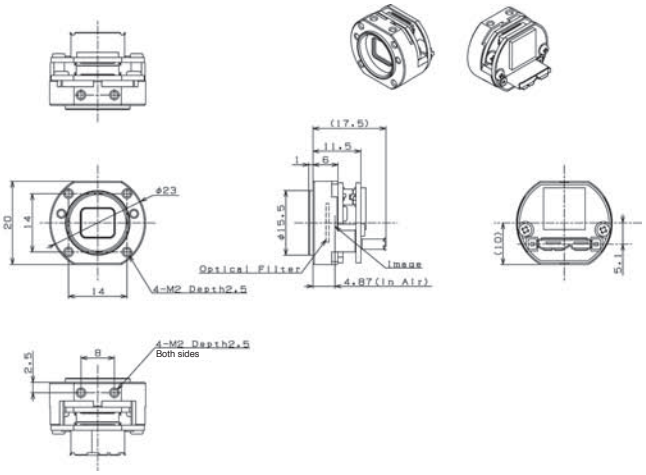
STC-S133UVC-BLL(DBLL)



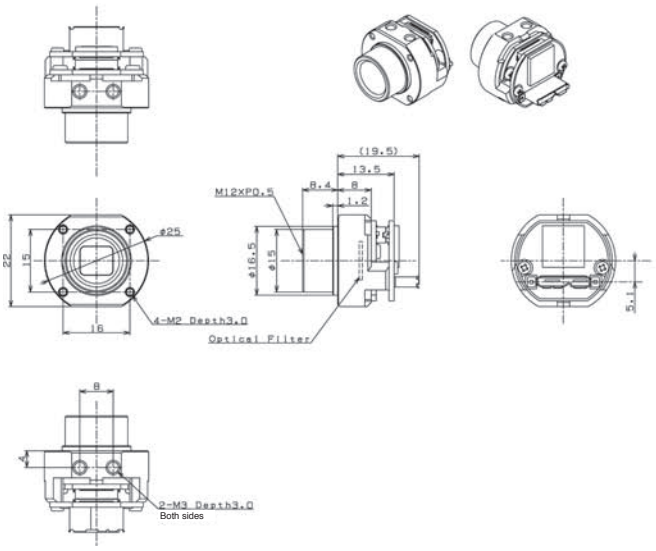
STC-S133UVC-BLCS(DBLCS)



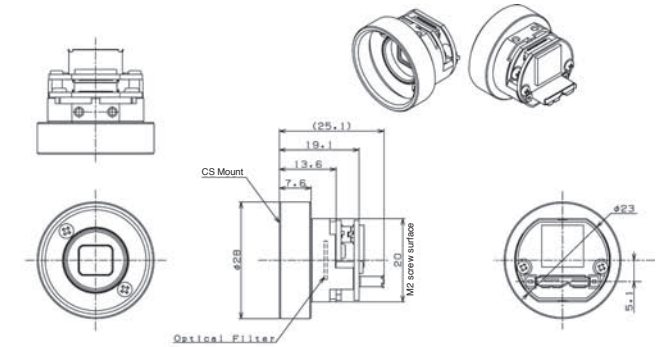
STC-S133UVC-BS(DBS)

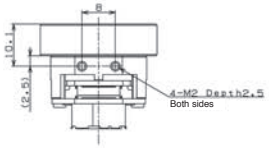


STC-S133UVC-BSL(DBSL)



STC-S133UVC-BSCS(DBSCS)





Accessory, Cable, others

Description

Optional items for using cameras

Screw-fastened GigE Cable

OMRON has made available a line of optional screw-fastened cables, responding to many requests for such cables when using GigE cameras in the FA applications.

Screw-Fastened GigE Cables		
Model	Length	Cable Type
CAB-GE-02-RBH	2 m	Bending resistance cables
CAB-GE-03-RBH	3 m	
CAB-GE-05-RBH	5 m	
CAB-GE-10-RBH	10m	
CAB-GE-20-RBH	20 m	
CAB-GE-40-RBH	40 m	
CAB-GE-02-RBX	2 m	Super bending resistance cables
CAB-GE-03-RBX	3 m	
CAB-GE-05-RBX	5 m	
CAB-GE-10-RBX	10 m	
CAB-GE-20-RBX	20 m	
CAB-GE-40-RBX	40 m	

Power Supply and I/O Cables

Power Supply and I/O Cables	
Model	Length
FJ-VSP2 3M	3 m
FJ-VSP2 5M	5 m
FJ-VSP2 10M	10 m

Note. When wiring a camera, be sure to refer to its specification document to check its external connector specifications. Incorrect wiring can lead to failure.

Screw-fastened USB3.0 Cable

USB 3.0 Cables (USB 3.0 Micro-B, with Camera-Side Fastening Screws)

Model	Length	Cable Type
CAB-USB3-02	2 m	Normal
CAB-USB3-03	3.5 m	
CAB-USB3-05	5 m	
CAB-USB3-07	7 m	
CAB-USB3-10	10 m	Normal high-transmission cables
CAB-USB3-02-RB	2 m	Robot cables
CAB-USB3-03-RB	3.5 m	
CAB-USB3-05-RB	5 m	
CAB-USB3-07-RB	7 m	

Note. Please make sure in advance that USB 3.0 cables operate correctly under your environment.

HDMI Cable

HDMI Cable

Model	Applicable Model	Length
CAB-HDMI-015	4K HD high vision (DVI) cameras	1.5 m
CAB-HDMI-02	4K HD high vision (DVI) cameras	2 m
CAB-HDMI-03	4K HD high vision (DVI) cameras	3 m
CAB-HDMI-05	4K HD high vision (DVI) cameras	5 m

Note. Please make sure in advance that HDMI cables operate correctly under your environment, including power supply capability.

HDMI Fiber-Optic Cables

Model	Applicable Model	Length
CAB-HDMI-10-OPT	4K HD high vision (DVI) cameras	10 m Provides power supply (with USB)
CAB-HDMI-20-OPT	4K HD high vision (DVI) cameras	20 m Provides power supply (with USB)
CAB-HDMI-30-OPT	4K HD high vision (DVI) cameras	30 m Provides power supply (with USB)
CAB-HDMI-50-OPT	4K HD high vision (DVI) cameras	50 m Provides power supply (with USB)
CAB-HDMI-70-OPT	4K HD high vision (DVI) cameras	70 m Provides power supply (with USB)
CAB-HDMI-100-OPT	4K HD high vision (DVI) cameras	100 m Provides power supply (with USB)

Note. Please make sure in advance that HDMI cables operate correctly under your environment, including power supply capability.

Coaxial Cable

BNC-BNC Cables

Model	Applicable Model	Connector Type	Length
BNC-BNC1	TV Format	BNC on both ends	1 m
BNC-BNC2			2 m
BNC-BNC3			3 m
BNC-BNC5			5 m
BNC-BNC10			10 m

BNC-RCA (Pin Jack) Cables

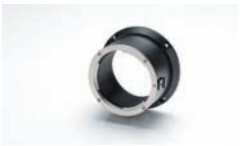
Model	Applicable Model	Connector Type	Length
BNC-RCA2	TV Format	BNC on one end and RCA on the other	2 m
BNC-RCA3			3 m
BNC-RCA5			5 m
BNC-RCA10			10 m

Harness for Power Supply/Signal Output

Harnesses for power supply and signal output for STC-S133N/P

Model	Applicable Model	General Specifications
KSAF005	For S133N/P	8-pin connector to power pin jack and BNC connector
KSAF006		8-pin connector to power pin jack and RCA connector

Mount Conversion Adapter



Adapter ring necessary when using C-mount lens with CS-mount camera

Adapter for converting M42 P=1 FB=10mm to F-mount when using 12M, 25M, or line sensor cameras

Model	Applicable Model	General Specifications
CS-C-R	CS Mount Series	CS mount → C mount conversion adapter
M42-F-R	12M, 25M, Line Scanning Camera	M42 P=1 FB=10 mm → F mount conversion adapter

Tripod Mount

Optional adapter for fastening the camera with tripod screws

Model	Applicable Model	General Specifications
TP-HCA	USB3.0: STC-MCE/MBE132U3V, STC-MCA/MBA5MUSB3 Camera Link: SPB/SPC43, 52, 163, 202PCL	
TP-JVA	USB3.0: 0.4M, 1.6M, 2.3M, 3.2M, 4M, 5M (M*S500/510U3V)	
TP-JQA	USB3.0: 7.1M, 8.9M, 12.3M, 12M, 20.4M Camera Link: 2M (CM*200PCL), 3.2M, 4M, 5M (SP*500/510PCL), 8.9M, 12.3M, 25M (GP*250BPCL)	
TP-KWA	GigE Vision M Series	
TP-KWA-IEA	GigE Vision M Series	Use to set M Series at same height as S Series sensor center.
TP-KWA2	STC-MBS/MCS881POE, STC-MBS/MCS122BPOE, STC-MBS/MCS2041POE	

Remote Control Unit

The unit is connected to the pin jack on the back of the camera allowing various settings to be made with an on-screen display. All DVI/SDI models are applicable.

Model	Applicable Model	General Specifications
RC-HD133	4K HDMI/DVI/SDI	ø3.5 stereo pin jack
RC-S133	S133N/P Series	
RC-S133B	S133N-B Series	ø3.5 stereo pin jack

Accessory Fixed Focus Lens

Description

Small-diameter fixed focus lens for small board cameras and remote head camera

S Mount (M12 P0.5) Lens

Model	Applicable Model	General Specifications
CV0205C	S Mount Series	f=2.5 mm, 1/3", F2.0, for 5M resolution
KVAB009		Lens fixing washer

USB 3.0 4ch Frame Grabber Board

Description

4ch Frame Grabber Board for USB 3.0 Camera

Features

The 4-channel Frame Grabber Board includes the USB3.0 chips on each channel
Adopting PCI Express Gen 3 × 4 lane connections, operation with greater stability than Gen 2 × 4 lane models can be ensured when using multiple high resolution, high-speed cameras

Product Line-up

Model	USB3-4ch
No. of ports	USB3.0 Standard A × 4 ports
Host I/F	PCI Express Gen3 × 4 lane
Operating power supply	On-board 5 VDC
Host controller	FL1100-1Q0-EX (FRESCO)
Supported OS	Windows7/8/10 and Linux
Motion camera	Omron Sentech USB3.0 Camera
Dimensions	167 (W) × 111.15 (H) mm (excluding protrusions)

Note. Confirm operation with your PC in advance.
Note. Use the latest USB driver version provided by FRESCO Logic.

Factory Drive Recorder

Description

Efficient identification of problem causes with a video recorder

Simple configuration facilitates installation

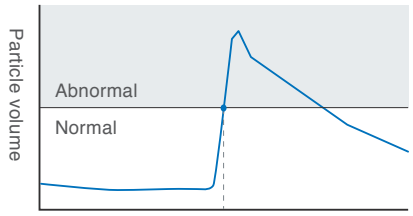
Industrial camera　　Factory Drive Recorder software

Features

Automatic recording of events by trigger input

The camera records a video showing the machine state for up to 60 minutes before and after the problem by being triggered by external input from the sensor or PLC or by TCP command input. This allows you to quickly understand what happened by replaying the video.

Case Recording triggered by particle volume abnormality

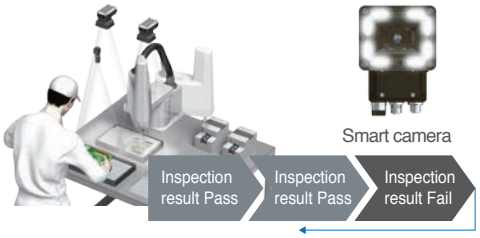


Particle sensor

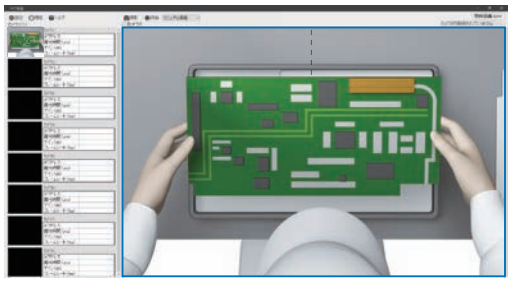
Records 5 min before and after

Shows that the operator opened the machine door

Case Recording of work process triggered by inspection fail



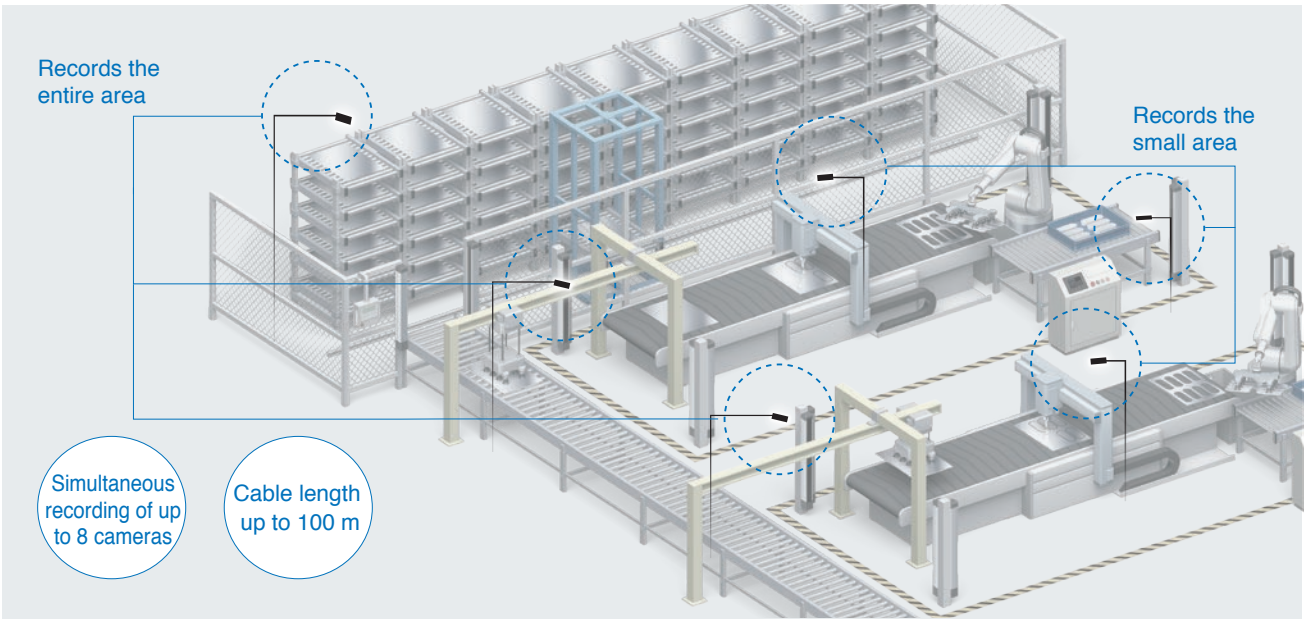
Records 20 min before



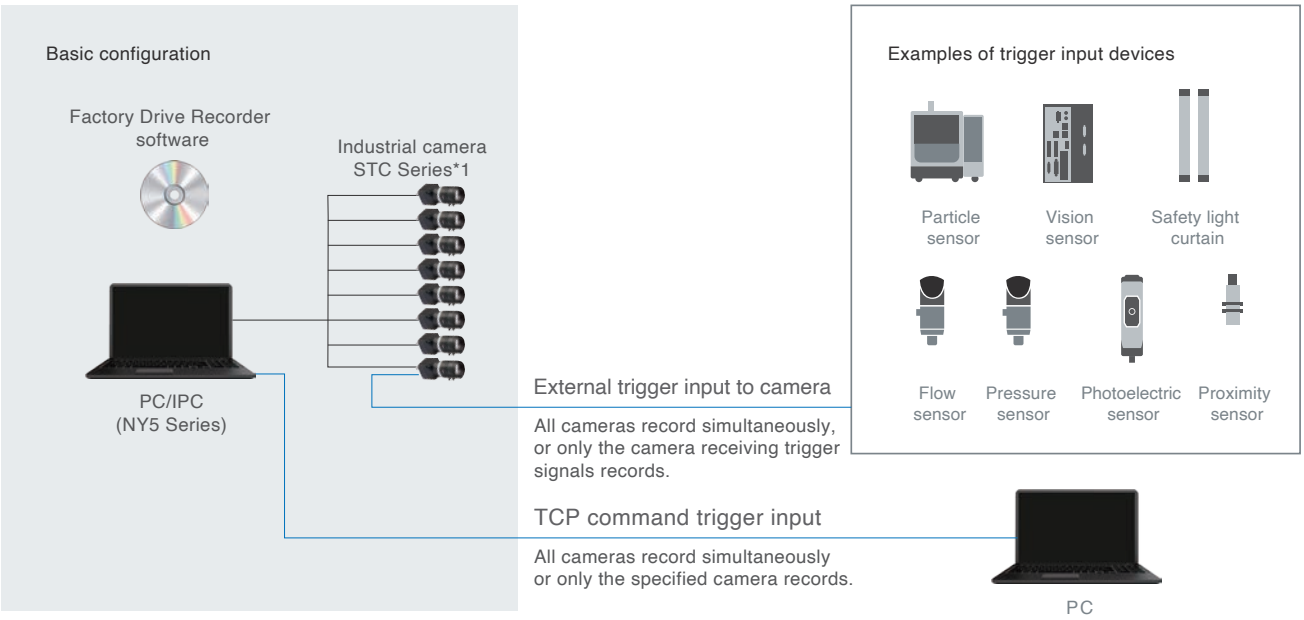
Shows that the operator made a mistake

Simultaneous recording of wide and narrow areas

Omron's broad portfolio of cameras, including a camera with a long cable required for wide-area recording to shoot the entire manufacturing site, can be freely combined with lenses for different fields of view. These combinations enable capturing wide and narrow areas at the same time, allowing you to accurately analyze problems by replaying the videos.



System configuration



Note: Up to eight cameras can simultaneously record. A hub is required to connect cameras depending on the PC specifications and the number of connected cameras.
*1. Omron' s STC Industrial Cameras can be used. See the following procuct line-up table for details.

Product Line-up

Software

Item	Max. no. of connectable cameras	Model
Factory Drive Recorder	8 per PC	STC-FDR-SW01

Industrial Camera STC Series

Item		Max. resolution	High-speed*1	Compact	Cable extension (100 m)	Model
GigE Vision Camera	Small CMOS Camera STC-M Series	20.4 Mpix			✓	Refer to page 7
	Small CMOS Board Camera STC-B□S Series	20.4 Mpix		✓	✓	Refer to page 11
USB3 Vision Camera	Small CMOS Camera STC-M Series	20.4 Mpix	✓			Refer to page 17
	Small Remote Head Camera STC-R Series	1.6 Mpix	✓	✓ (Ultra-compact)		Refer to page 23
USB3 (UVC) Camera	Small CMOS Collar Camera STC-S133UVC Series	1.3 Mpix		✓		Refer to page 51

Note: The USB3 Vision or GigE Vision Camera cannot be simultaneously used with the USB3 (UVC) Camera.
*1. The maximum frame rate depends on your PC performance, the number of connected cameras, and the camera type. Test the products before actual use.

Recording methods

Recording method		Description	Recording time
Continuous Recording		Records as configured (days and time)	Up to 1 year (366 days)
Manual Recording		Starts and stops recording manually	Up to 60 minutes
Trigger Recording	Time Trigger	Records once a day at specified time	Up to 60 minutes*1 before and after trigger
	Motion Detection	Records when the difference between an image and the preceding image exceeds the specified value	
	Master Image Comparison	Records when the difference between a predefined still image and a camera image exceeds the specified value	
	Trigger Signal (External trigger, I/O)	Records when a trigger signal is input to the camera	
	Trigger Signal (TCP command)	Records when a TCP command is input to the camera	

*1. When the recording time before a trigger is long, it takes a long time to create a video file.

For details on the factory drive recorder, refer to its catalog. (Cat. No. Q340)

Spectral Characteristics Chart

This is the Spectral Characteristics Chart of the sensor (Area Sensor) published in this catalog.

	Model	Type	Page
1	IMX287	Monochrome	67
2	IMX433	Monochrome	67
3	IMX273	Monochrome	67
4	IMX174	Monochrome	68
5	IMX430	Monochrome	68
6	IMX249	Monochrome	68
7	IMX265	Monochrome	68
8	IMX252	Monochrome	68
9	IMX264	Monochrome	68
10	IMX250	Monochrome	68
11	IMX547	Monochrome	69
12	IMX546	Monochrome	69
13	IMX267	Monochrome	69
14	IMX255	Monochrome	69
15	IMX304	Monochrome	69
16	IMX253	Monochrome	69
17	IMX545	Monochrome	70
18	IMX532	Monochrome	70
19	IMX531	Monochrome	70
20	IMX530	Monochrome	70
21	IMX382-0ABR-C	Monochrome	71
22	IMX178	Monochrome	71
23	IMX428	Monochrome	71
24	IMX226	Monochrome	72
25	IMX183	Monochrome	72
26	CMV2000	Monochrome	73
27	CMV4000	Monochrome	73
28	CMV12000	Monochrome	73
29	PYTHON 25K	Monochrome	73
30	GMAX0505	Monochrome	73
31	MT9P031	Monochrome	74
32	AR0521	Monochrome	74
33	MT9J003	Monochrome	74
34	EV76C560ACT	Monochrome	74
35	RJ33B4AA0DT	Monochrome	74
36	CMV2000	NIR	73
37	CMV4000	NIR	73
38	IMX991	SWIR	72
39	IMX990	SWIR	72

	Model	Type	Page
31	IMX287	Color	67
32	IMX433	Color	67
33	IMX273	Color	67
34	IMX174	Color	68
35	IMX430	Color	68
36	IMX249	Color	68
37	IMX265	Color	68
38	IMX252	Color	68
39	IMX264	Color	68
40	IMX250	Color	68
41	IMX547	Color	69
42	IMX546	Color	69
43	IMX267	Color	69
44	IMX255	Color	69
45	IMX304	Color	69
46	IMX253	Color	69
47	IMX545	Color	70
48	IMX532	Color	70
49	IMX531	Color	70
50	IMX530	Color	70
51	IMX382-0AQR-C	Color	71
52	IMX178	Color	71
53	IMX274	Color	71
54	IMX226	Color	72
55	IMX183	Color	72
56	ISX017	Color	72
57	IMX291	Color	72
58	CMV2000	Color	73
59	CMV4000	Color	73
60	CMV12000	Color	73
61	GMAX0505	Color	73
62	MT9P031	Color	74
63	AR0521	Color	74
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This is the Spectral Characteristics Chart of the senor (Line Scanning Camera) published in this catalog.

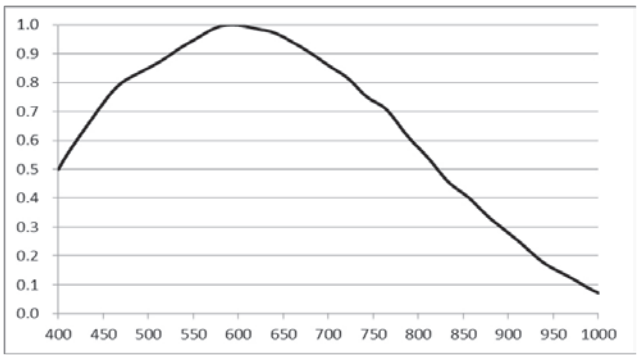
	Model	Type	Page
1	DR-2K-7	Monochrome	75
2	DR-4K-7	Monochrome	75
3	DR-4K-3.5	Monochrome	75
4	DR-8K-7	Monochrome	75
5	DR-8K-3.5	Monochrome	75
6	DR-16K-3.5	Monochrome	75
7	DR-2X2K-7-inver	Monochrome	75
8	DR-2X4K-7-inver	Monochrome	75
9	DR-2X8K-7	Monochrome	75

	Model	Type	Page
1	DR-2X2K-7-inver-RGB	Color	75
2	DR-2X4K-7-inver-RGB	Color	75
3	DR-2X8K-7-RGB	Color	75

Area Sensor Spectral Characteristics Chart

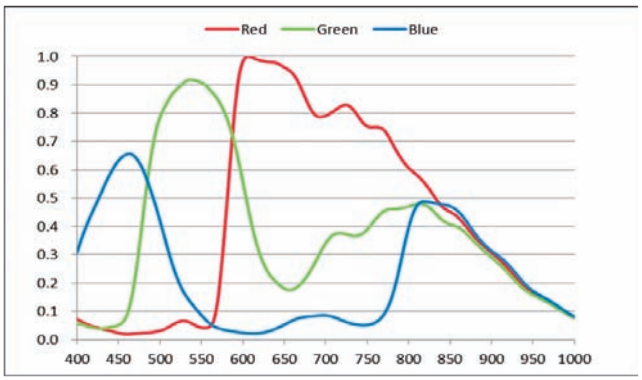
IMX287

1/2.9" CMOS 0.4M Monochrome



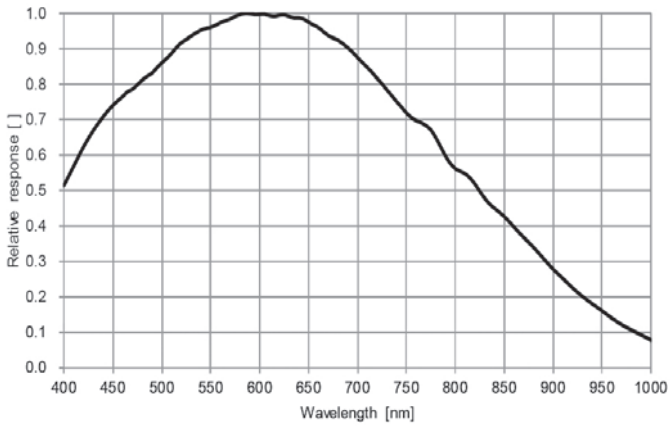
IMX287

1/2.9" CMOS 0.4M Color



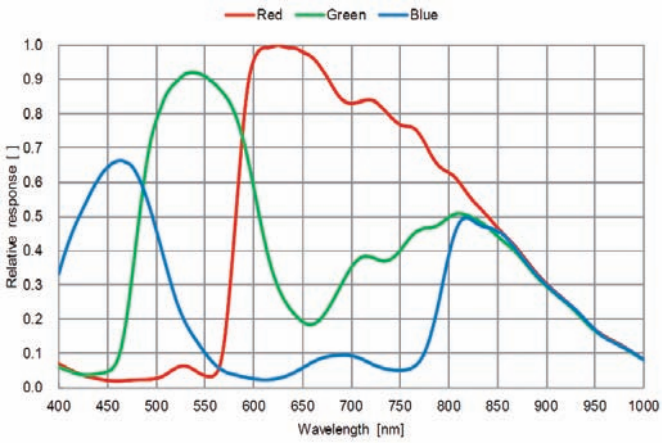
IMX433

1/1.7" CMOS 0.5M Monochrome



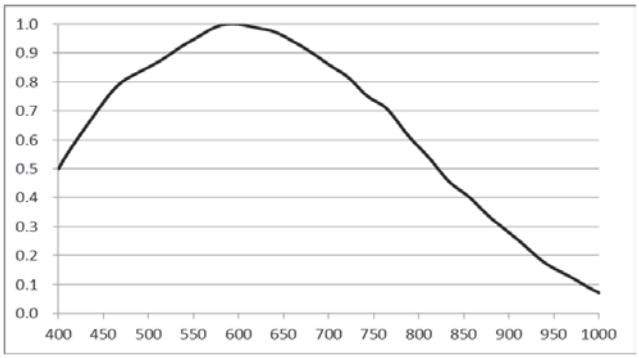
IMX433

1/1.7" CMOS 0.5M Color



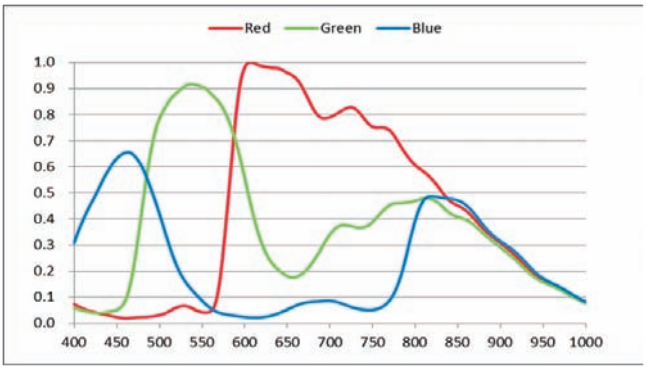
IMX273

1/2.9" CMOS 1.6M Monochrome



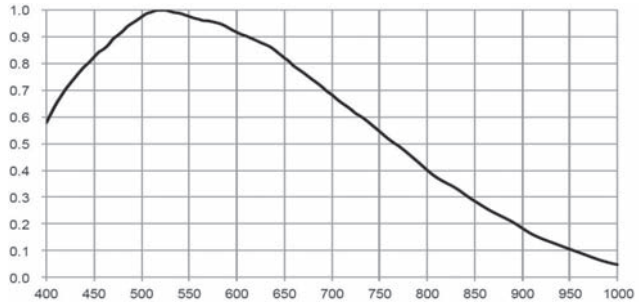
IMX273

1/2.9" CMOS 1.6M Color



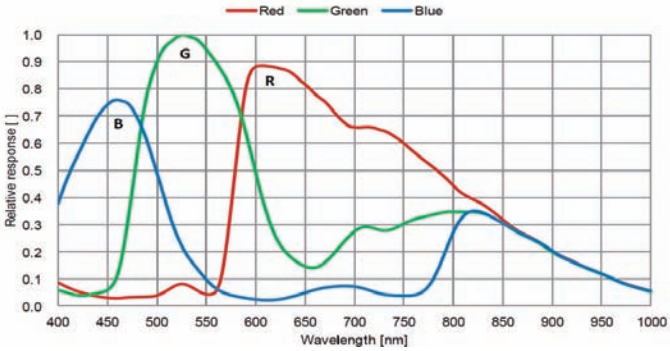
IMX174, IMX249

1/1.2" CMOS 2.3M Monochrome



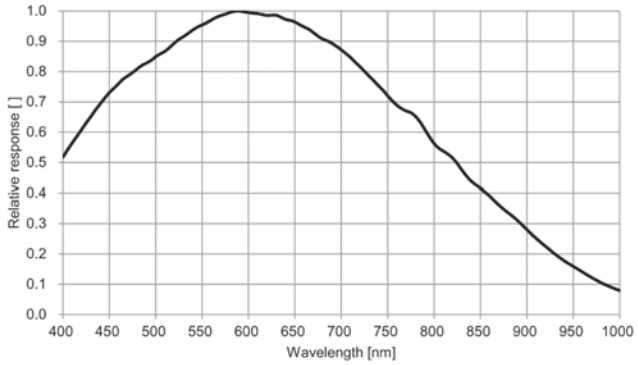
IMX174, IMX249

1/1.2" CMOS 2.3M Color



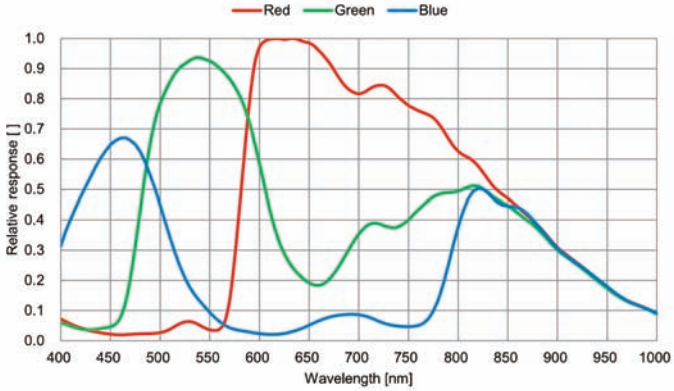
IMX430

1/1.7" CMOS 2M Monochrome



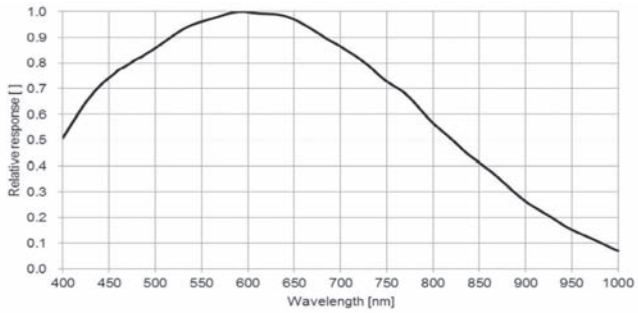
IMX430

1/1.7" CMOS 2M Color



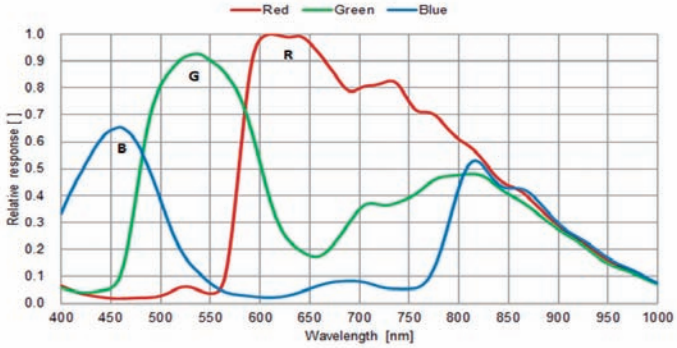
IMX265, IMX252

1/1.8" CMOS 3.2M Monochrome



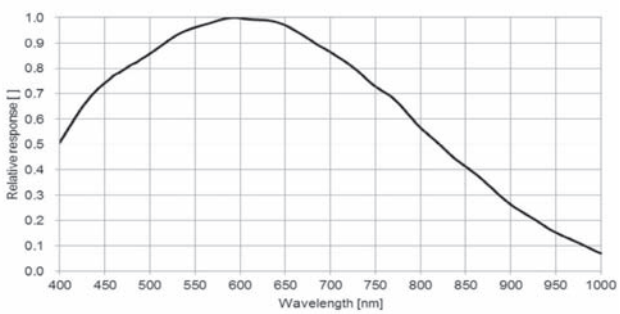
IMX265, IMX252

1/1.8" CMOS 3.2M Color



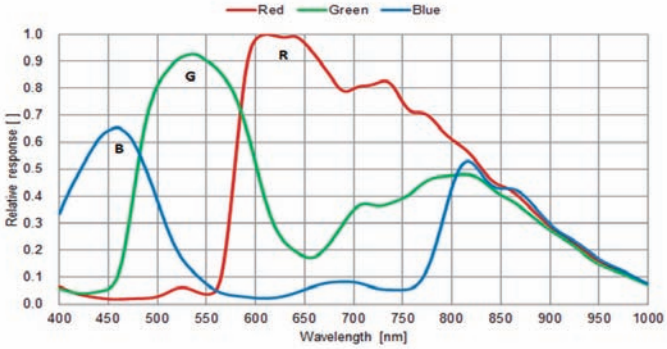
IMX264, IMX250

2/3" CMOS 5M Monochrome



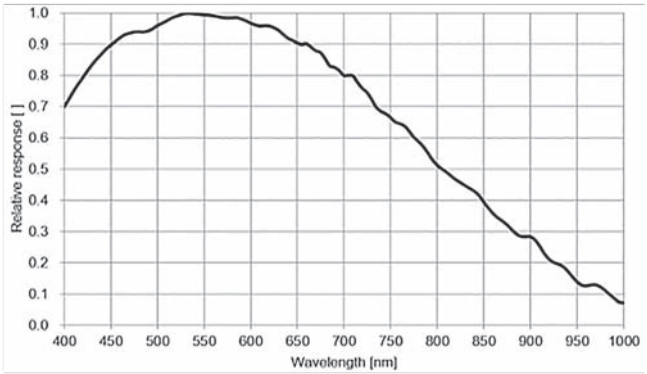
IMX264, IMX250

2/3" CMOS 5M Color



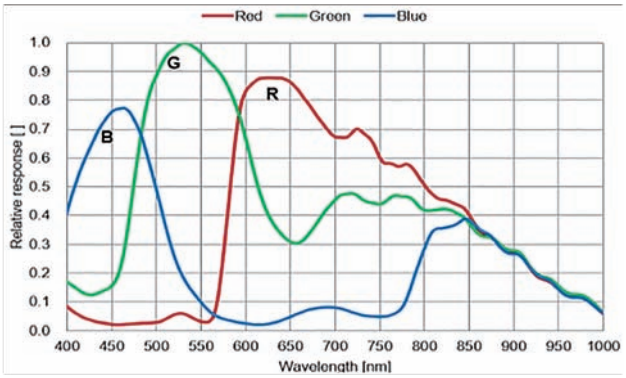
IMX547

1/1.8" CMOS 5.1M Monochrome



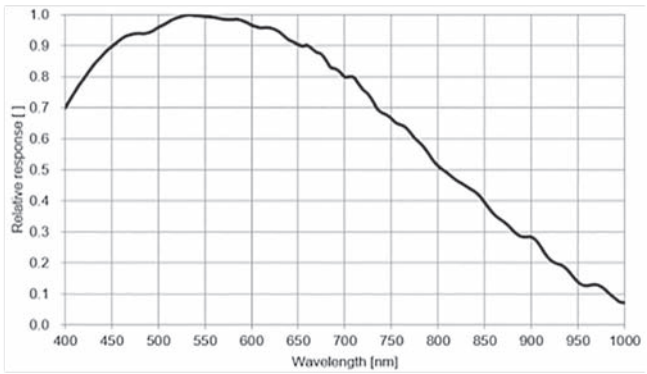
IMX547

1/1.8" CMOS 5.1M Color



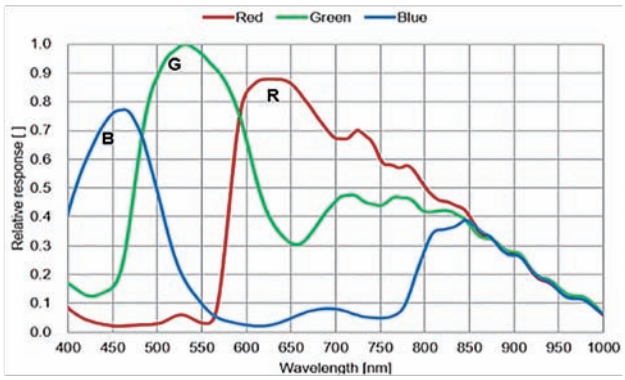
IMX546

2/3" CMOS 8.1M Monochrome



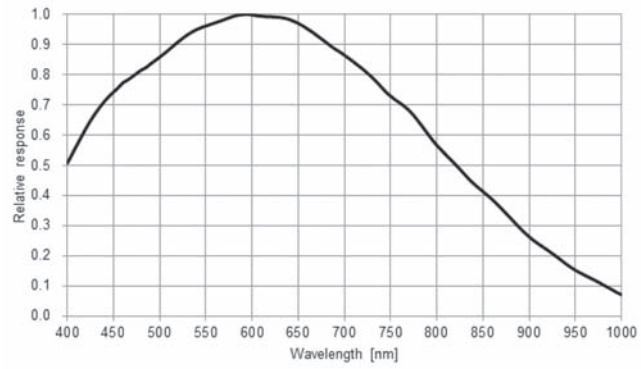
IMX546

2/3" CMOS 8.1M Color



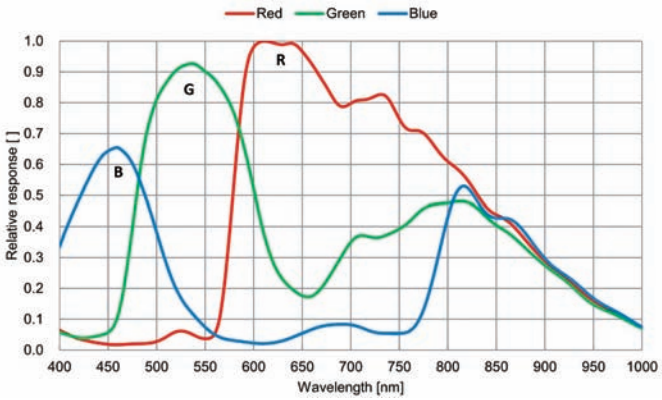
IMX267/IMX255

1" CMOS 8.9M Monochrome



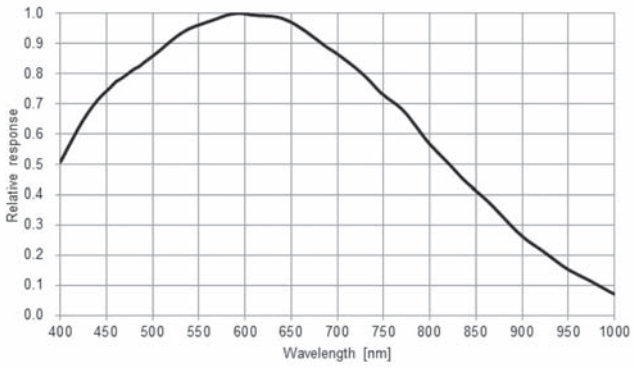
IMX267/IMX255

1" CMOS 8.9M Color



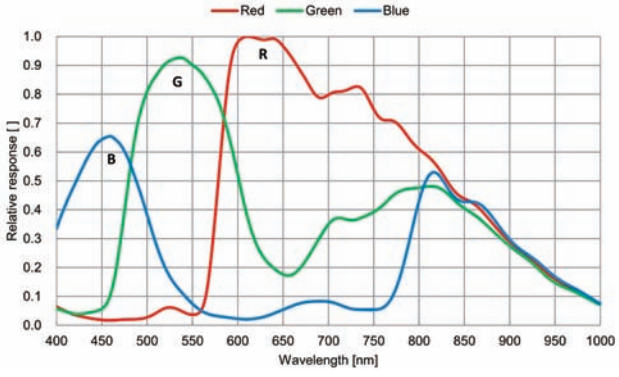
IMX304/IMX253

1.1" CMOS 12M Monochrome



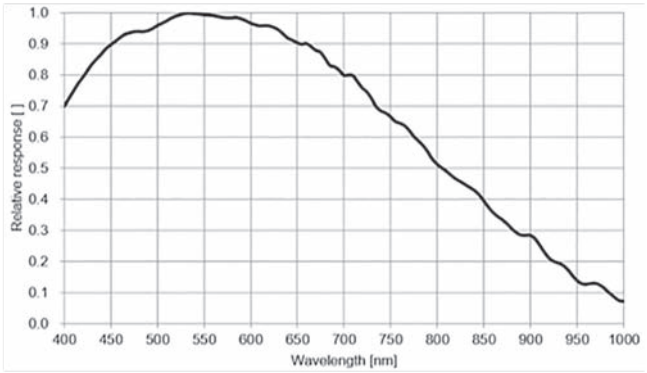
IMX304/IMX253

1.1" CMOS 12M Color



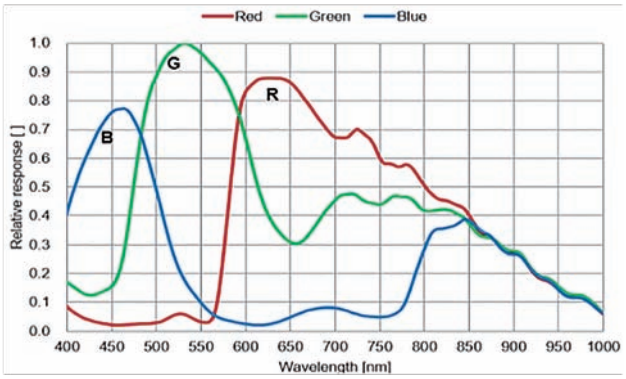
IMX545

1.1" CMOS 12.4M Monochrome



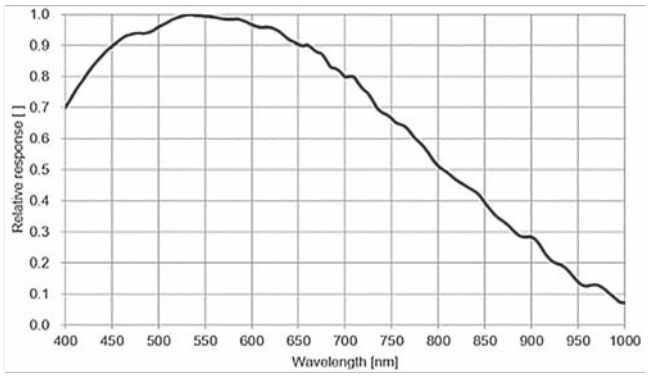
IMX545

1.1" CMOS 12.4M Color



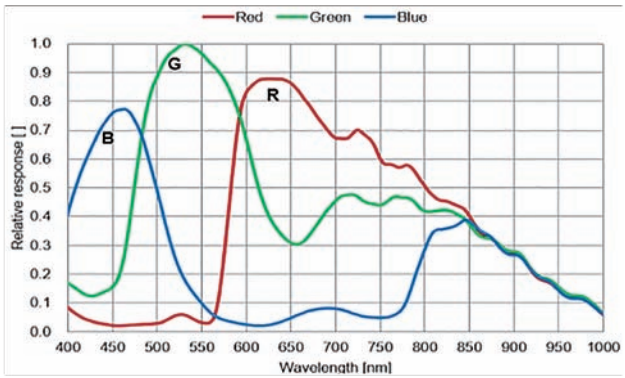
IMX532

1.1" CMOS 16.4M Monochrome



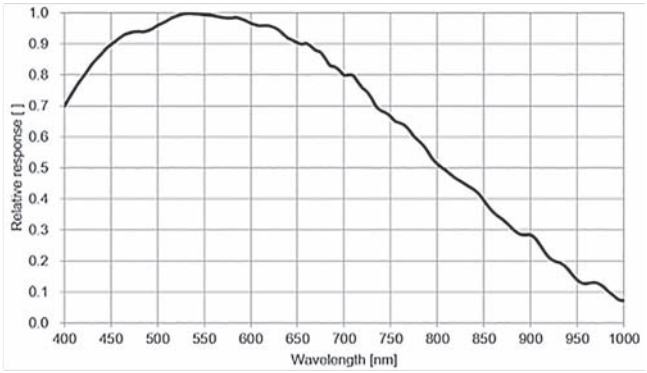
IMX532

1.1" CMOS 16.4M Color



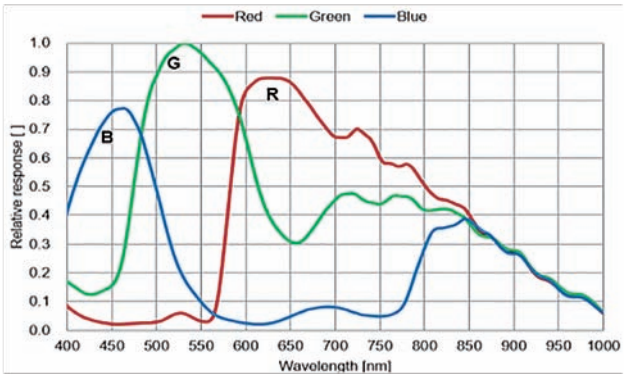
IMX531

1.1" COMS 20.4M Monochrome



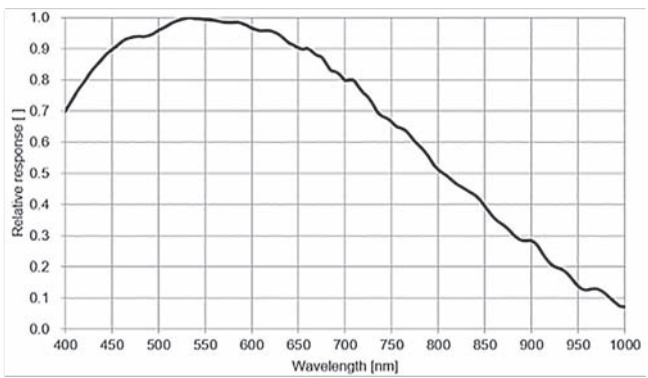
IMX531

1.1" COMS 20.4M Color



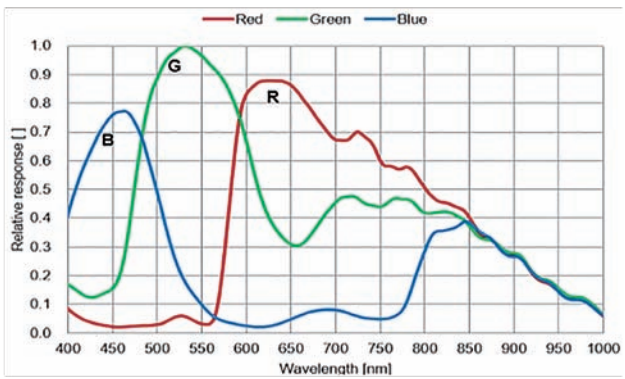
IMX530

1.2" CMOS 24.6M Monochrome



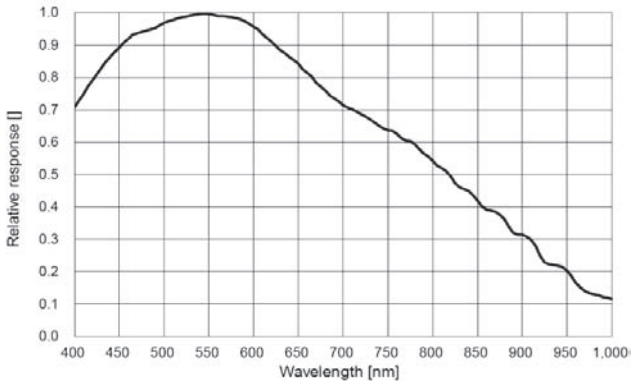
IMX530

1.2" CMOS 24.6M Monochrome



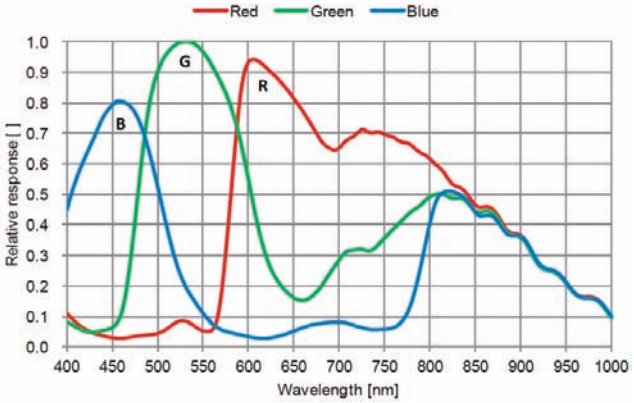
IMX382-0ABR-C

1/3.2" CMOS 1.3M Monochrome



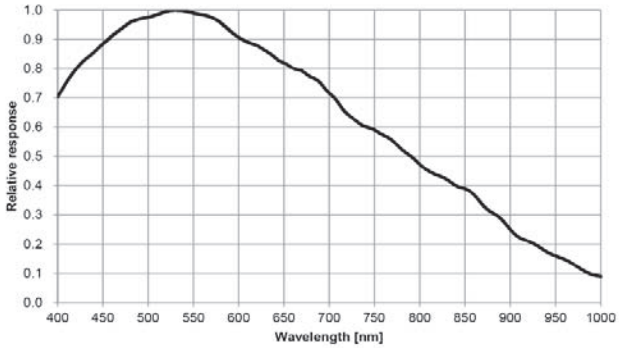
IMX382-0AQR-C

1/3.2" CMOS 1.3M Color



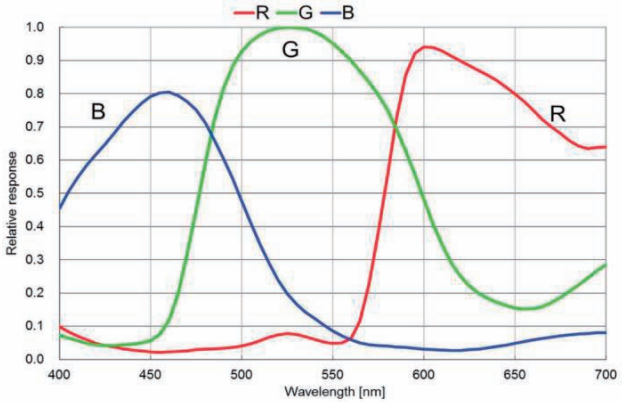
IMX178

1/1.8" CMOS 6.4M Monochrome



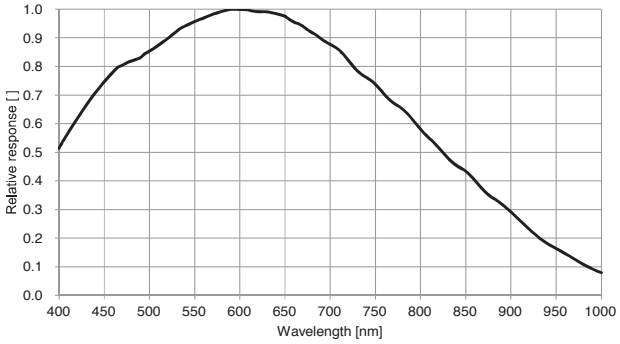
IMX178

1/1.8" CMOS 6.4M Color



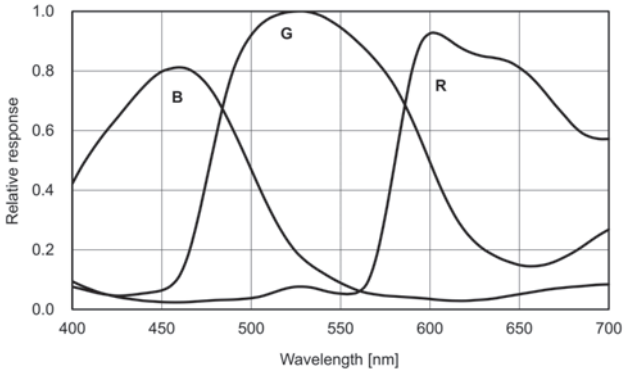
IMX428

1.1" CMOS 7.1M Monochrome



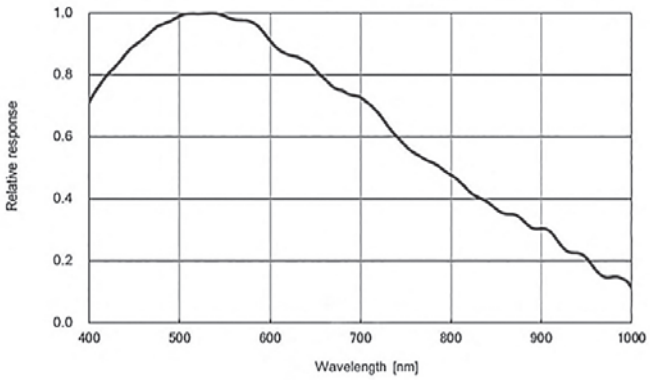
IMX274

1/2.5" CMOS 8.3M Color



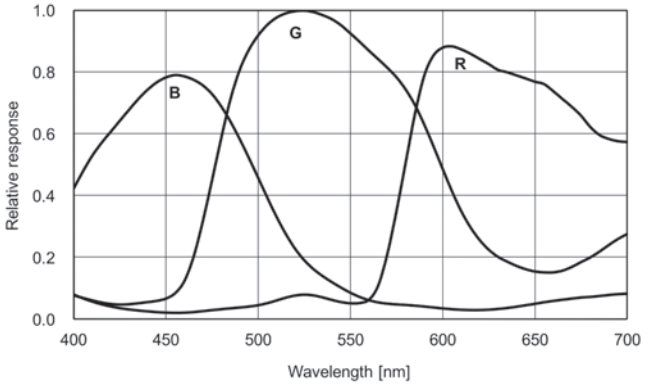
IMX226

1/1.7” CMOS 12M Monochrome



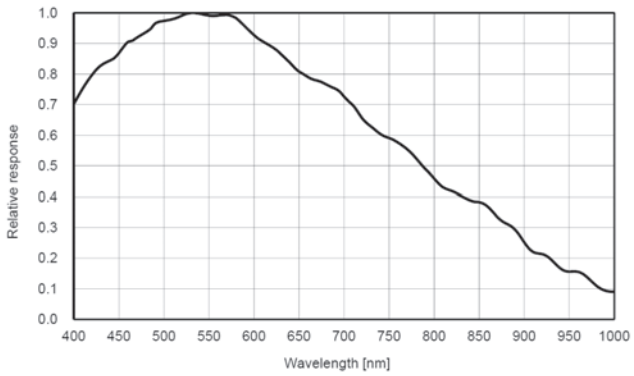
IMX226

1/1.7" CMOS 12M Color



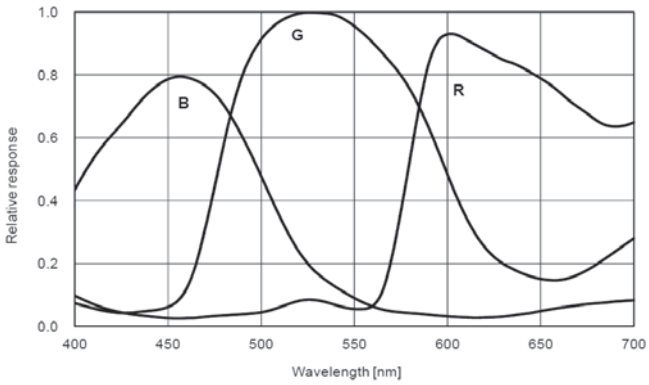
IMX183

1” CMOS 20M Monochrome



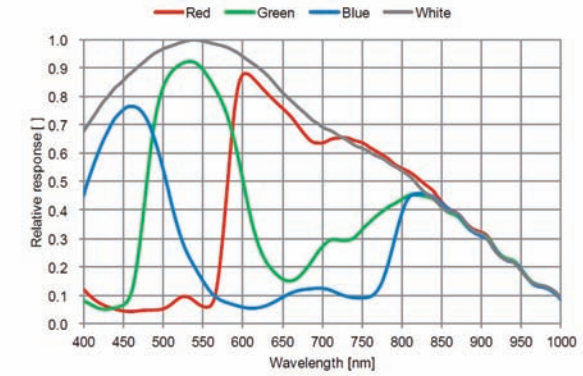
IMX183

1” CMOS 20M Color



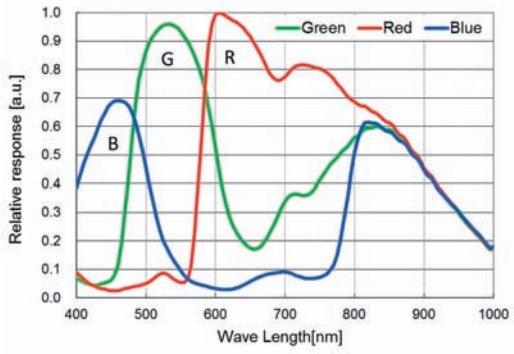
ISX017

1/3.2" CMOS 0.6M Color



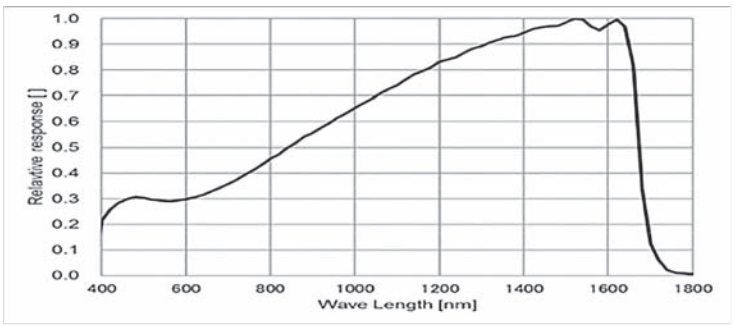
IMX291

1/2.9" CMOS 1080P FULL High-definition Color



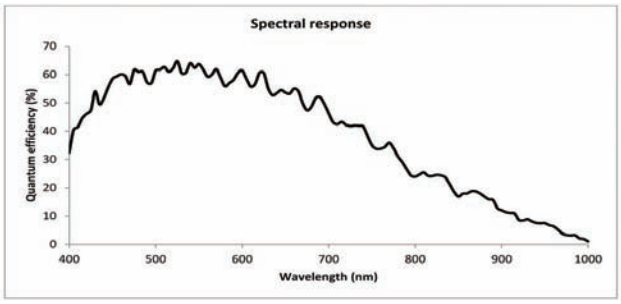
IMX991/IMX990

1/4" CMOS 0.3M SWIR, 1/2" CMOS 1.3M SWIR



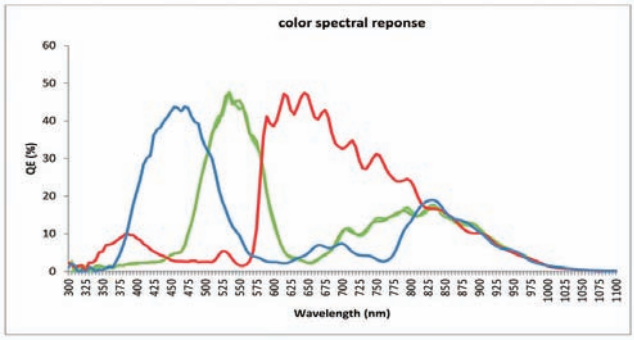
CMV2000/CMV4000

2/3" CMOS 2M Monochrome / 1" CMOS 4M Monochrome



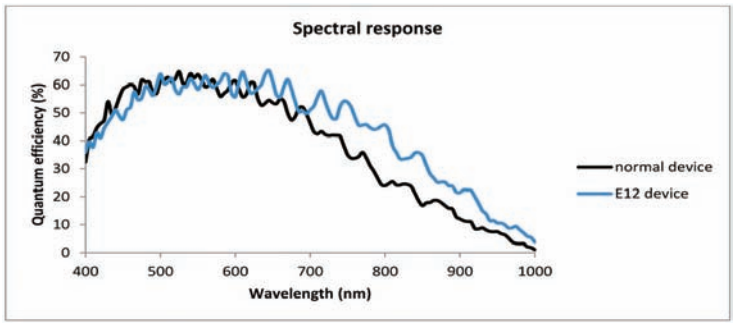
CMV2000/CMV4000

2/3" CMOS 2M Color / 1" CMOS 4M Color



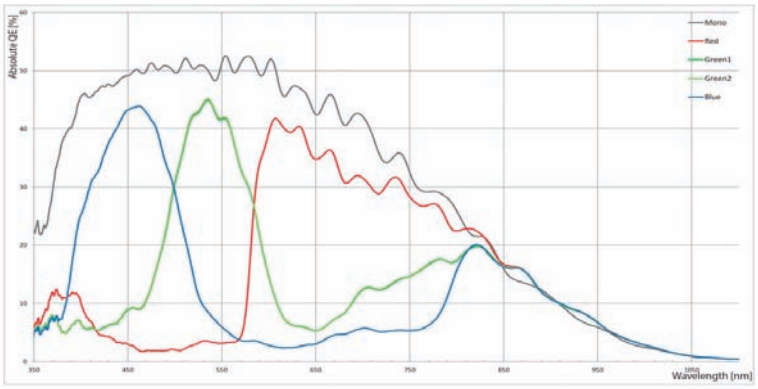
CMV2000/CMV4000

2/3" CMOS 2M NIR / 1" CMOS 4M NIR



CMV12000

1.76" CMOS 12M Monochrome, Color

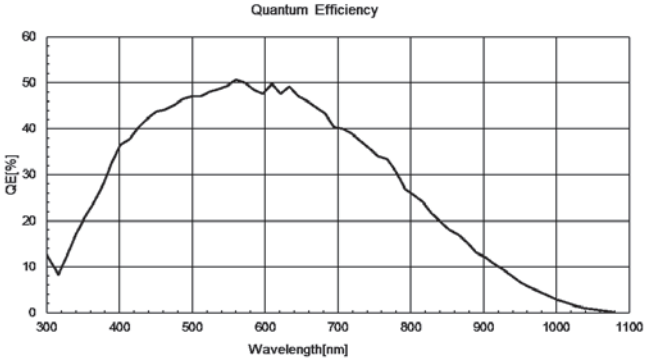


CMV12000

1.76" CMOS 12M Monochrome, Color

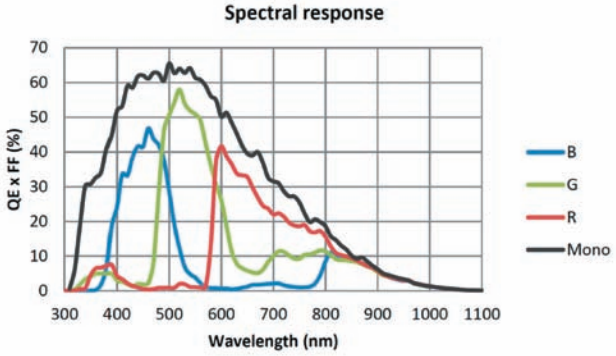
PYTHON 25K

APS-H CMOS 25M, Monochrome



GMAX0505

1.1" CMOS 25M Monochrone, Color

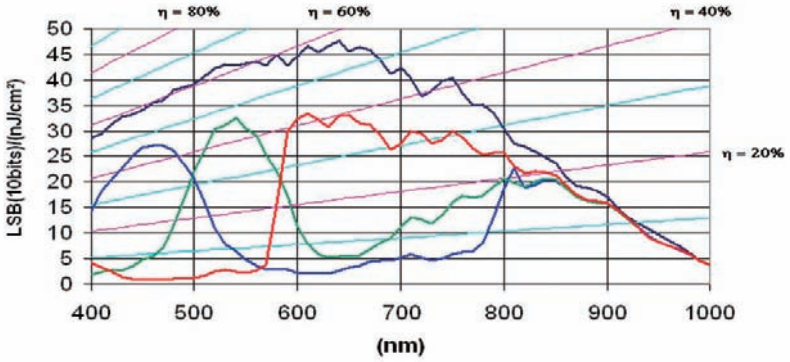


GMAX0505

1.1" CMOS 25M Monochrone, Color

EV76C560ACT

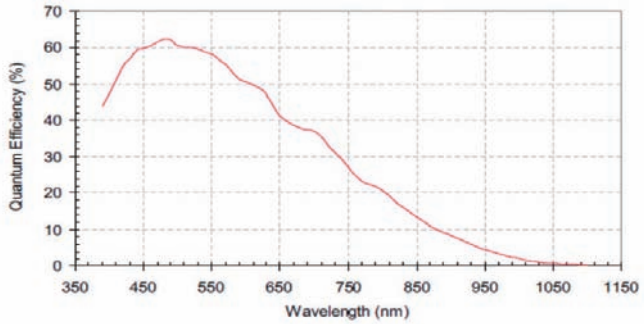
1/1.8" CMOS 1.3M Monochrome, Color



EV76C560ACT

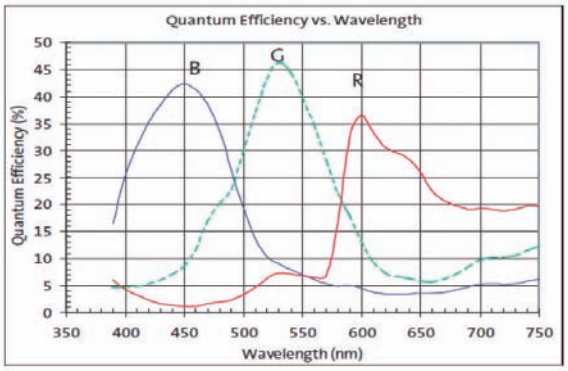
MT9P031

1/2.5" CMOS 5M Monochrome



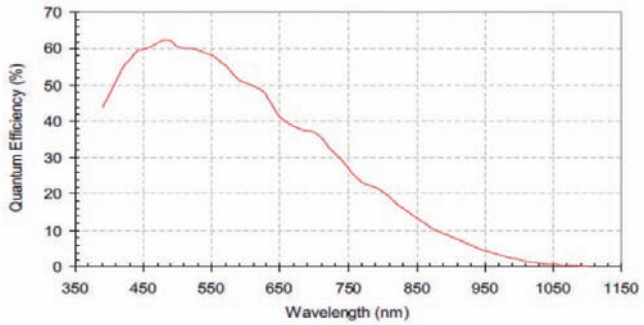
MT9P031

1/2.5" CMOS 5M Color



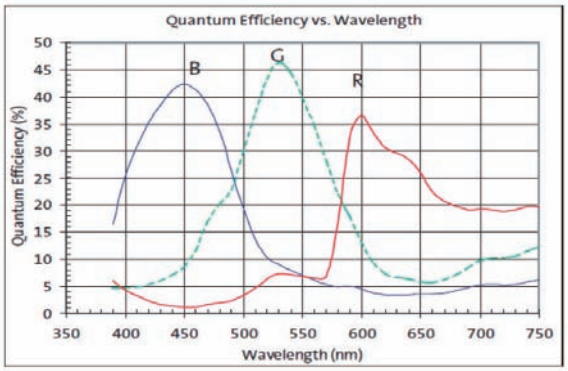
AR0521

1/2.5" CMOS 5M Monochrome



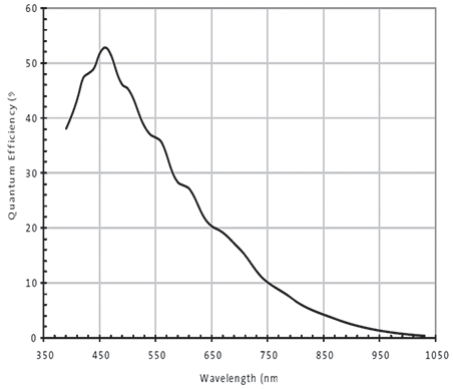
AR0521

1/2.5" CMOS 5M Color



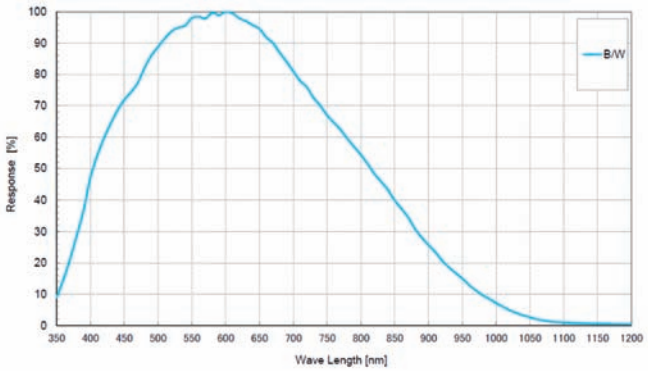
MT9J003

1/2.3" CMOS 10M Monochrome



RJ33B4AA0DT

1/3 CCD VGA Monochrome

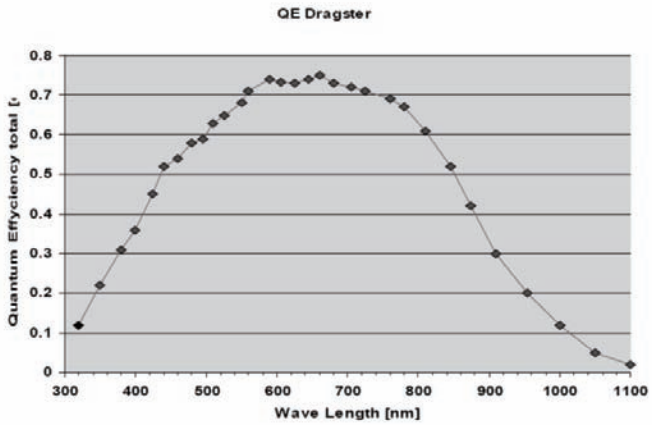


Accessories

Line Scanning Camera Spectral Characteristics Chart

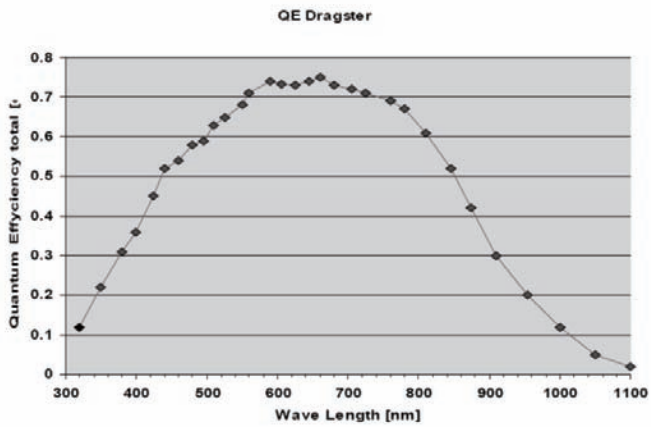
DR-2K-7, DR-4K-7, DR-4K-3.5

2K / 7 µm / single
4K / 7 µm / single
4K / 3.5 µm / single



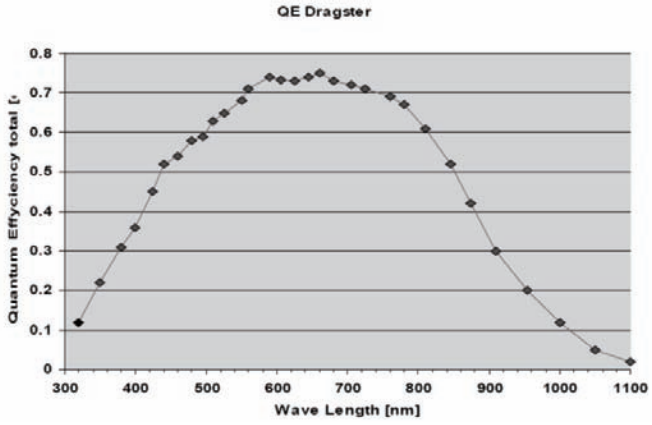
DR-8K-7, DR-8K-3.5, DR-16K-3.5

8K / 7 µm / single
8K / 3.5 µm / single
16K / 3.5µm / single



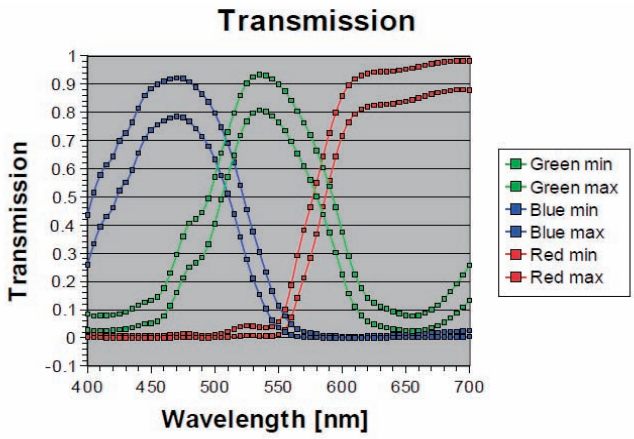
DR-2X2K-7-inver, DR-2X4K-7-inver, DR-2X8K-7

2K / 7 µm / dual
4K / 7 µm / dual
8K / 7 µm / dual



DR-2X2K-7-inver-RGB, DR-2X4K-7-inver-RGB, DR-2X8K-7-RGB

2K / 7 µm / dual
4K / 7 µm / dual
8K / 7 µm / dual



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OMRON Corporation **Industrial Automation Company**

Kyoto, JAPAN **Contact : www.ia.omron.com**

Regional Headquarters

OMRON EUROPE B.V.
Wegalaan 67-69, 2132 JD Hoofddorp
The Netherlands
Tel: (31) 2356-81-300 Fax: (31) 2356-81-388

OMRON ELECTRONICS LLC
2895 Greenspoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A.
Tel: (1) 847-843-7900 Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD.
438B Alexandra Road, #08-01/02 Alexandra
Technopark, Singapore 119968
Tel: (65) 6835-3011 Fax: (65) 6835-2711

OMRON (CHINA) CO., LTD.
Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-5037-2222 Fax: (86) 21-5037-2200

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