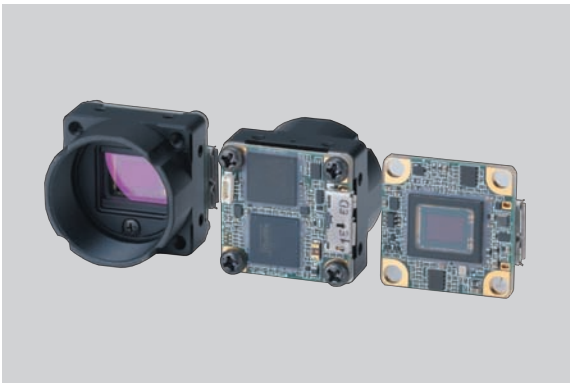
USB3.0 Small Board Camera



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

Global shutter models

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount
STC-BBS43U3V	Monochrome	0.4M	527.1 fps	720 × 540	1/2.9	6.9 × 6.9	IMX287	---
STC-BCS43U3V	Color							---
STC-BBS43U3V-BC	Monochrome							C
STC-BCS43U3V-BC	Color							C
STC-BBS43U3V-BL	Monochrome							S
STC-BCS43U3V-BL	Color							S
STC-BBS163U3V	Monochrome	1.6M	238 fps	1440 × 1080	1/2.9	3.45 × 3.45	IMX273	---
STC-BCS163U3V	Color							---
STC-BBS163U3V-BC	Monochrome							C
STC-BCS163U3V-BC	Color							C
STC-BBS163U3V-BL	Monochrome							S
STC-BCS163U3V-BL	Color							S
STC-BBS502U3V	Monochrome	5M	70.8 fps	2448 × 2048	1/1.8	2.74 × 2.74	IMX568	---
STC-BCS502U3V	Color							---
STC-BBS502U3V-BC	Monochrome							C
STC-BCS502U3V-BC	Color							C
STC-BBS502U3V-BL	Monochrome							S
STC-BCS502U3V-BL	Color							S

Rolling shutter models

Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (µm)	Sensor	Lens Mount
STC-BBS642U3V	Monochrome	6.3M	29.5 fps	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	25.8 fps	4000 × 3000	1/1.7	1.85 × 1.85	IMX226	---
STC-BCS1242U3V	Color							
STC-BBS1242U3V-BC	Monochrome							C
STC-BCS1242U3V-BC	Color							

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/).

Aegis Electronic Group
www.aegiselect.com

For More Information Please Call Aegis Electronic Group, Inc. *CA- (760) 729-2026 AZ- (480) 635-8400 * aegis-g2@aegiselect.com * http://www.aegis-elec.com

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

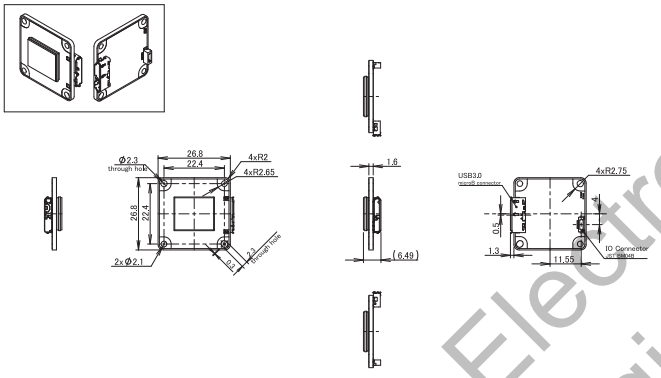
S-Mount (M12 P0.5) Lens

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

Drawing dimension

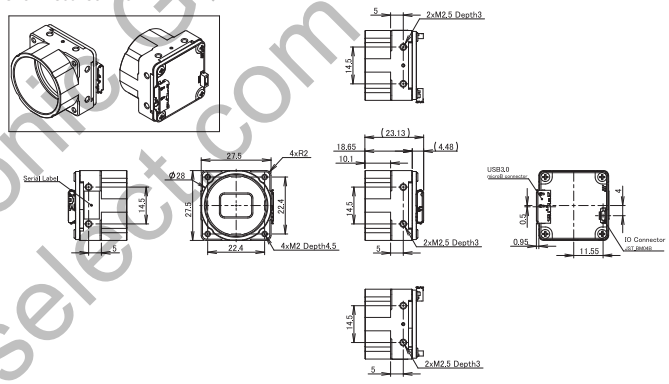
STC-BBS/BCS43U3V
STC-BBS/BCS163U3V
STC-BBS/BCS502U3V

STC-BBS/BCS642U3V
STC-BBS/BCS1242U3V



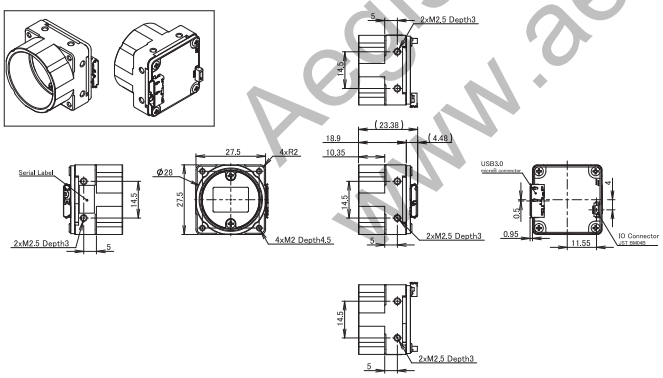
STC-BBS43U3V-BC
STC-BBS163U3V-BC
STC-BBS502U3V-BC

STC-BBS642U3V-BC
STC-BBS1242U3V-BC



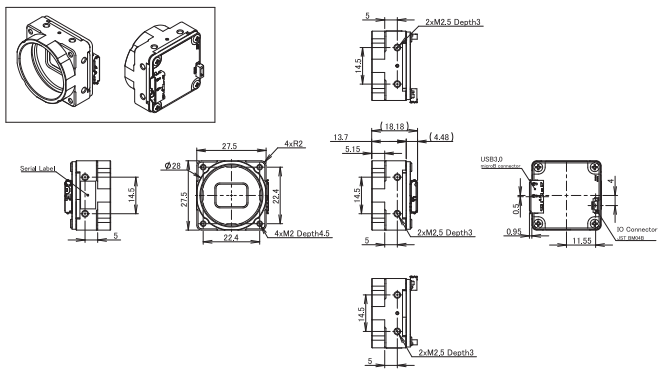
STC-BCS43U3V-BC
STC-BCS163U3V-BC
STC-BCS502U3V-BC

STC-BCS642U3V-BC
STC-BCS1242U3V-BC



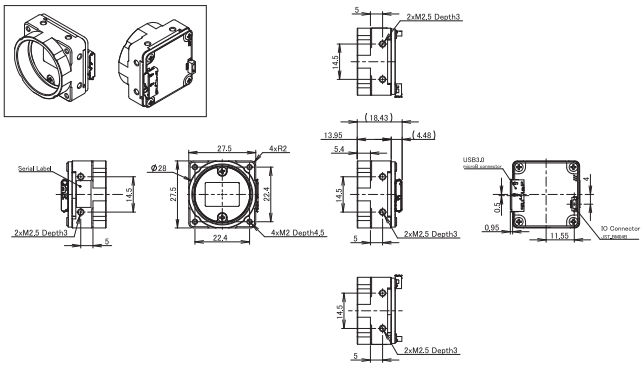
STC-BBS43U3V-BCS
STC-BBS163U3V-BCS

STC-BBS502U3V-BCS
STC-BBS642U3V-BCS



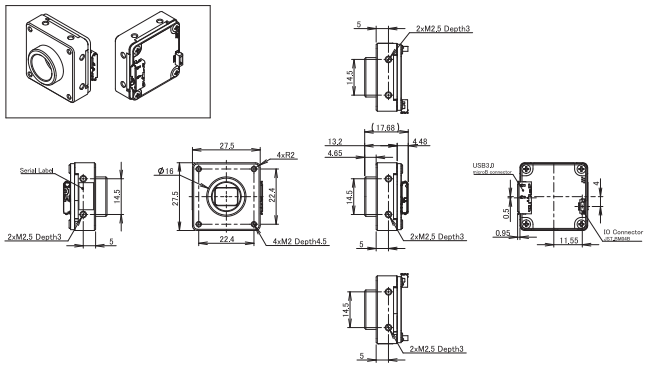
STC-BCS43U3V-BCS
STC-BCS163U3V-BCS

STC-BCS502U3V-BCS
STC-BCS642U3V-BCS



STC-BBS/BCS43U3V-BL
STC-BBS/BCS163U3V-BL

STC-BBS/BCS502U3V-BL
STC-BBS/BCS642U3V-BL



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