



Description

Small Camera with Liquid Lens

Features

Camera with liquid lens
 No moving parts, enabling high-speed focus adjustment
 in approximately 0.1 seconds

Product Line-up

USB3.0 Vision Board Level Camera with Liquid Lens								
Model	Monochrome/Color	Resolution	Frame Rate	Effective Pixels (H x V)	Sensor Size	Cell Size (μm)	Sensor	General Specifications
STC-BBS43U3V-VF096	Monochrome	0.4M	527.1 fps	720 × 540	1/2.9	6.9 × 6.9	IMX287	Liquid lens with a focal length f of 9.6 mm
STC-BCS43U3V-VF096	Color							
STC-BBS163U3V-VF096	Monochrome	1.6M	238 fps	1440 × 1080	1/2.9	3.45 × 3.45	IMX273	
STC-BCS163U3V-VF096	Color							
STC-BBS502U3V-VF096	Monochrome	5M	70.8 fps	2448 × 2048	1/1.8	2.74 × 2.74	IMX568	
STC-BCS502U3V-VF096	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.

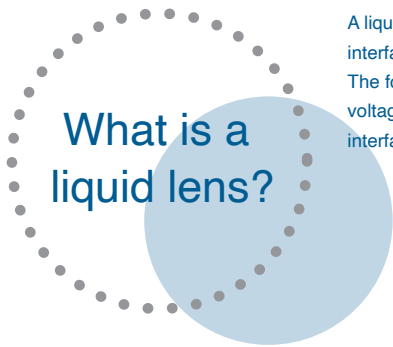
Six strengths

Six strengths compared with conventional autofocus lenses

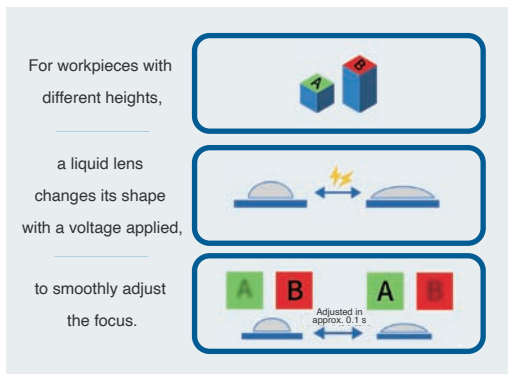
1. No moving parts
2. A wide range of working distance from 30 mm to 6,000 mm (based on a 5MP model)
3. Focus adjustment in approximately 0.1 seconds
4. Durability withstanding several hundred million cycles of use
5. Low power consumption within 1 mW
6. Quiet operation

High speed
 Low cost
 Downsized

What is a liquid lens?



A liquid lens is an optical part made of an interface between water and oil in a cell. The focus is obtained by applying a voltage that changes the shape of the interface to adjust the light refractivity.



Drawing dimension

STC-BBS/BCS43U3V-VF096

STC-BBS/BCS163U3V-VF096

STC-BBS/BCS502U3V-VF096

