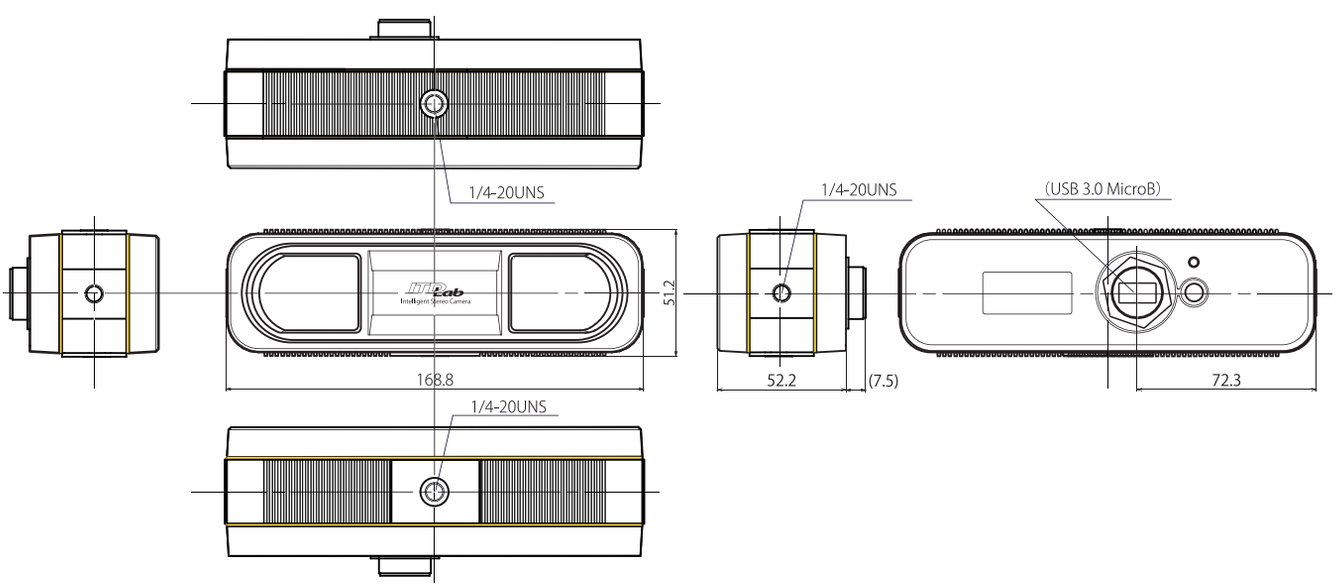
ITD Lab
Intelligent Stereo Camera

Intelligent Stereo Camera

ISC-100VM, ISC-100XC

This product is an evaluation kit, so that you can have a better understanding of ITD Lab's top-notch technologies and algorithm advantages. Different spec of stereo camera, in terms of baseline length, CMOS resolution and FOV, can be also designed easily, depending on your various requirement

ISC-100 Dimension



Intelligent Stereo Camera ISC-100 Specification

Intelligent Stereo Camera Specification			
Item		ISC-100VM	ISC-100XC
Baseline Length		100 mm	100 mm
CMOS Resolution		752 x 480	1,280 x 960
Effective Resolution		640 x 480	1,024 x 720
Lenz Type		Tele / Normal / Wide Lens Available	Tele / Normal / Wide Lens Available
Algorithm Type		SAD（Sum of Absolute Difference）	SAD（Sum of Absolute Difference）
Effective FOV	Tele	Approx 30°	Approx 30°
	Norm	Approx 50°	Approx 50°
	Wide	Approx 85°	Approx 85°
Detectable Range	Tele	1.2 m to 40 m	0.9 m to 64 m
	Norm	0.6 m to 21 m	0.5 m to 33 m
	Wide	0.3 m to 10 m	0.3 m to 18 m
Accuracy	Tele	0.2%(1.2m), 3.7%(10m), 7.4%(20m), 15%(40m)	0.2%(1m), 2.3%(10m), 7%(30m), 14%(60m)
	Norm	0.4%(1m), 7.1%(10m), 14%(20m)	0.5%(1m), 4.5%(10m), 14%(30m)
	Wide	0.7%(1m), 14%(10m)	0.8%(1m), 8.3%(10m)
Frame Rate		60 FPS	60 FPS
Automatic Calibration		Yes	Yes
Output Data		Parallax Data + Original B/W Image Data	Parallax Data + Original B/W Image Data
OS supported		Windows10、Linux※1	Windows10、Linux※1
Interface		USB 2.0	USB 3.0
Power Supply		5 V（BUS Powered）3 W	5 V（BUS Powered）8.5 W

※1：This is just a beta version, which only supports specific versions of Linux.

SDK Function			
・OpenISC()	Open process	・CloseISC()	Close process
・StartGrabt()	Image capture start process	・StopGrab()	Image capture stop process
・GetImage()	Image acquisition process	・GetDepthInfo()	Parallax information acquisition process
・GetImageSize()	Get image size	・SetAutoCalibration()	Get automatic adjustment information
・GetAutoCalibration()	Automatic adjustment information setting	・SetShutterControl()	Get shutter control information
・GetShutterControl()	Shutter control information setting	・GetGainValue()	Gain Value
・SetGainValue()	Gain Value setting	・GetExposureValue()	Exposure value acquisition
・SetExposureValue()	Exposure value setting	・GetCameraParamInfo()	Camera information acquisition

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