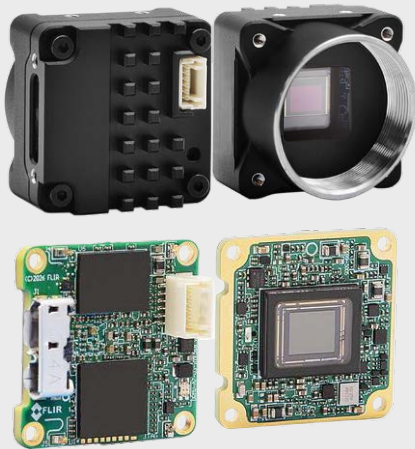


DRAGONFLY® S

Industrial Machine Vision Cameras | DR-U3-50S4M/C



KEY FEATURES

Flexible Camera Configurations

Board-level to fully enclosed models with lightweight aluminum case. Side/back USB3 connector orientations, with locking mechanism.

Compact And Lightweight

Compact, lightweight design for handheld or embedded devices. Class B EMC safety compliant for cased models.

Reliable Image Delivery

Onboard image buffering ensures that every captured image frame is reliably transferred to the host CPU

APPLICATIONS

- Spot Spraying
- Biometrics Kiosk Solutions
- Mobile Robotics
- Handheld 3D Scanning
- Automated Optical Inspection
- Vision Based Monitoring System

GEN*i*CAM

Test, Develop and Deploy at Speed






Dragonfly® S is a first of its kind, practical option for industries ranging from life science instrumentation to factory automation. The modular, compact, and lightweight design accelerates the inception stage of imaging application development for at-scale manufacturing, volume-based applications, and multi-camera systems. Paired with CMOS sensor options from Sony, Onsemi and Teledyne e2v, Dragonfly S is ideal for embedded or handheld device applications and more.

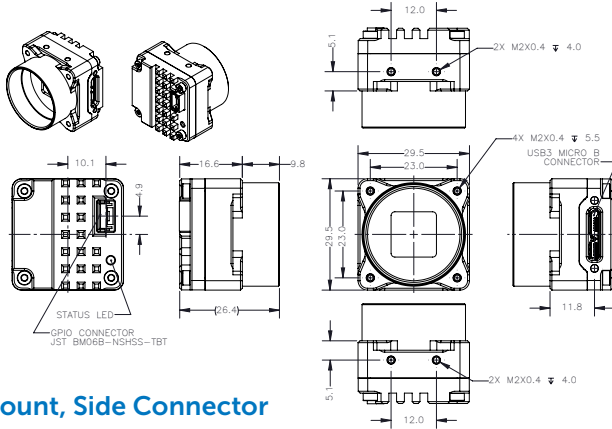
SPECIFICATIONS

	DR-U3-50S4M/C
Resolution	2448 x 2048
Frame Rate	46 fps
Megapixels	5.0 MP
Sensor	Sony IMX568, CMOS, 1/1.8"
Readout Method	Global shutter
Pixel Size	2.74 µm
Spectrum	Mono or Color
Lens Mount	C-mount S-mount Mount sold separately
ADC	8-bit, 10-bit, 12-bit
Minimum Frame Rate*	1.0 FPS
Gain Range*	0.0 to 47.9 dB
Exposure Range*	12.0 µs to 2.0 seconds
Acquisition Mode	Continuous, single frame, multi frame
Partial Image Modes	Pixel binning, ROI
Image Processing	Gamma, lookup table
Image Buffer	96 MB
User Sets	1 user configuration set for custom camera settings
Flash Memory	6 MB non-volatile memory
Non-isolated I/O	4 bi-directional
Auxiliary Output	4.3 V to 5.25 V, up to 200 mA maximum
Interface	USB3 Micro B, back or side connector (USB2 not supported)
Power Requirements	5 V via USB3 interface
Power Consumption	2.6 W maximum (Streaming) 1.8 W maximum (Idle)
Dimensions (Back Connector)	C-mount: 29.5 x 29.5 x 18.3 mm S-mount: 29.5 x 29.5 x 17.5 mm Board-level: 27 x 27 x 8.2 mm
Dimensions (Side Connector)	C-mount: 29.5 x 29.5 x 16.6 mm S-mount: 29.5 x 29.5 x 15.8 mm Board-level: 27 x 27 x 7.7 mm
Mass	C-mount: 23 g S-mount: 24 g Board-level: 5 g
Machine Vision Standard	USB3 Vision v1.0
Compliance	CE, FCC, RoHS, REACH. The ECCN for this product is: EAR099
Temperature	Operating: 0°C to 50°C / Storage: -30°C to 60°C
Humidity (No Condensation)	Operating: 20% - 85% / Storage: 20% - 95%
Warranty	3 years

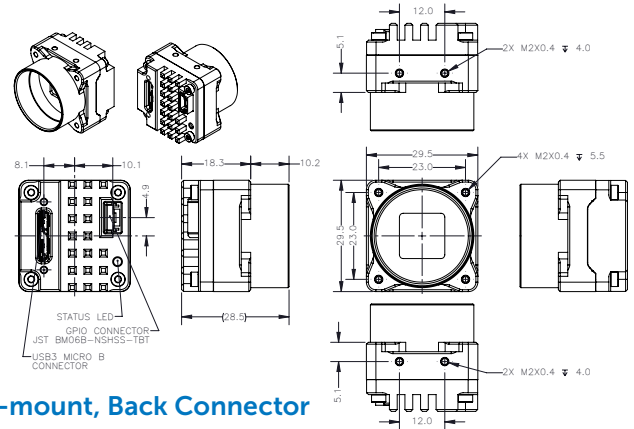
*Values are the same in binning and no binning modes.

ACCESSORIES

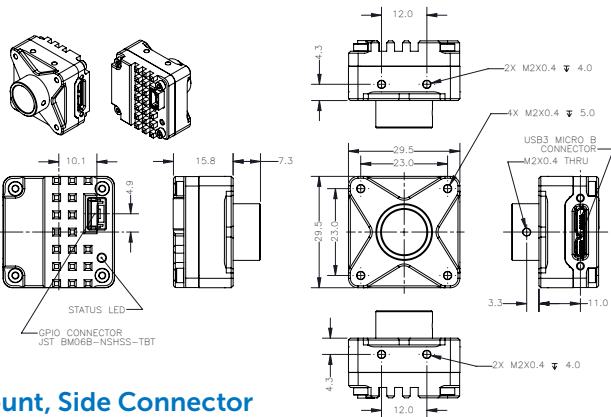
Product Number	Description	Accessories Photos
EVAL-KIT-DR-U3	Evaluation kit for Dragonfly S USB camera	
ACC-01-5017	S-mount for Dragonfly S	
ACC-01-0020	Dragonfly S board level universal USB locking bracket	
ACC-01-0017	Tripod adaptor	
ACC-01-1201	RoHS Generic USB 3.1 PCI Express 2.0 x1 host adapter card, PD720202 chipset, 2-port	
ACC-01-1202	RoHS Generic USB 3.1 PCI Express 2.0 x4 host adapter card, FL1100 chipset, 4-port single-channel	
ACC-01-1205	RoHS Generic USB 3.1 PCI Express 2.0 x4 host adapter card, FL1100 chipset, 4-port quad-channel	
ACC-01-2313	1 Meter USB3.0 Cable, Type-A To Micro-B (Locking)	
ACC-01-2300	3 meter USB3.0 Cable, Type-A to Micro-B (locking)	
ACC-01-2301	5 meter USB3.0 Cable, Type-A to Micro-B (locking)	
ACC-01-3015	GPIO Cable with 6-pin JST connector	
LENS-1605A5S	Azure 16 mm 2/3 inch S-mount 10MP	
ACC-01-4007	Optics Micro Lens 6 mm 1/3 inch S-Mount	



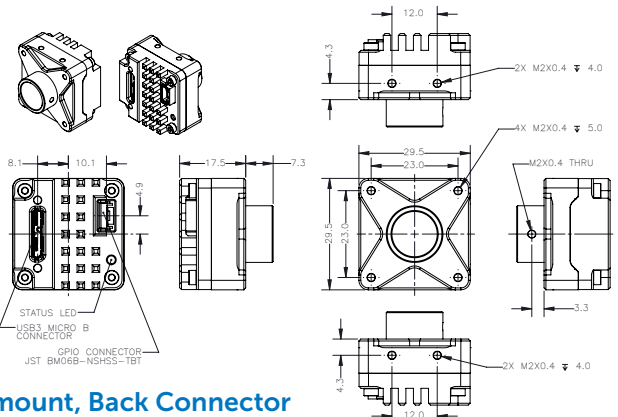
C-mount, Side Connector



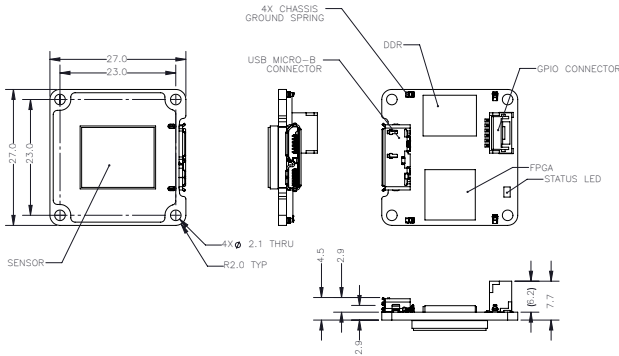
C-mount, Back Connector



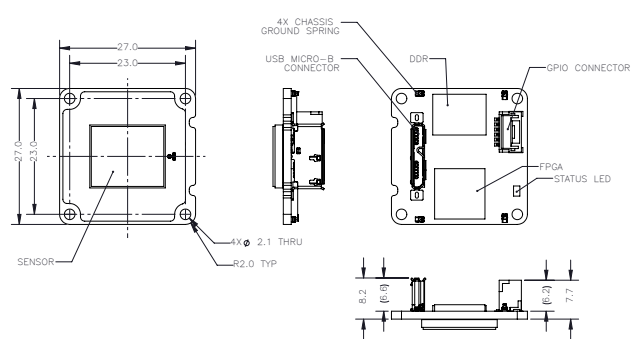
S-mount, Side Connector



S-mount, Back Connector



Board-level, Side Connector



Board-level, Back Connector

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