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Product Downloads

Monochrome

Spectrum:

General

Monochrome Camera

Type:

DR-U3-50Y2M-C1-S

Model Number:

Teledyne FLIR	Manufacturer:
Dragonfly®	Camera Series:
Physical & Mechanical Properties	
Full	Housing:
Sensor	
96MB	Image Buffer:
1/2.5"	Sensor Format:
5.00	Resolution (Megapixels):
49.00	Frame Rate (fps):
2,592 x 1,944	Pixels (H x V):
2.2 x 2.2	Pixel Size, H x V (µm):
Rolling	Shutter Type:
10/12 bit	Pixel Depth:
9 µs to 0.5 seconds	Exposure Time:
USB3 Vision v1.0	Machine Vision Standard:
Electrical	
2.4 W maximum	Power Consumption (W):
Hardware & Interface Connectivity	
USB 3.1 Micro B	Interface:
USB 3.1 Micro B	Connector:
Back Panel	Interface Port Orientation:
5 V via USB3 interface	Power Requirement:
Threading & Mounting	
S-Mount (M12 x 0.5)	Mount:
Environmental & Durability Factors	
0°C to 50°C	Operating Temperature (°C):
Regulatory Compliance	
Exempt	RoHS 2015:
View	Certificate of Conformance:
Contains SVHC(s)	Reach 240:

Product Details

- Ultra Compact Form Factor with Modular Design
- 5.0 Megapixel rolling shutter CMOS sensor
- Software and Hardware (rising or falling) triggering
- Low Power Consumption



Teledyne FLIR IIS Dragonfly® S: The Versatile, Modular, Cost-Optimized Machine Vision Camera that Fits Anywhere

Capture the exact images you need with advanced sensors and powerful features for volume based projects, at-scale manufacturing and multi-camera systems designed for volume based applications.

The **Dragonfly® S** has a modular design that makes it suitable to a wide range of applications and the price to performance ratio is unmatched. It is versatile, reliable, and practical. The compact lightweight design makes it ideal for deployment in small spaces or as a handheld device. Configured with a locking USB connector either on the rear or on the side and available either as a board level product or enclosed in an aluminum case. The 5.0 Megapixel

rolling shutter CMOS sensor has a 1/2.5" frame format providing up to 49 FPS at full resolution (2592 x 1944).

The **Dragonfly® S** camera provides hardware and software triggered image capture, and also offers high-quality video streaming, for versatile deployment across a broad spectrum of applications in factory automation, life sciences and embedded devices. The large onboard memory ensures every captured image frame is transferred to the host without any loss, in a single or multi-camera setup.

Features

- Ultra-compact form factor
- Low power consumption
- Modular design
- Enclosed models hold Class B EMC safety compliance for healthcare or home use
- Spot and partial auto exposure modes
- Serial Communication
- Additive Binning
- Gain, White Balance, Black Level, EV compensation
- Software / Hardware (rising or falling) triggering
- Logic Blocks, Counters
- Color Correction

Applications

- Hand Held devices
- Medical systems
- Life science instrumentation
- Factory automation
- Biometrics kiosk solutions
- Ophthalmoscopy
- 3D scanning
- Automated optical inspection