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# DR-U3-50Y2M-B3, Dragonfly S<sup>®</sup>, Side USB, Board Level, Mono Camera

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Teledyne FLIR IIS Dragonfly<sup>®</sup>S



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## Product Downloads

### General

**Type:**  
 Monochrome Camera

**Model Number:**  
 DR-U3-50Y2MB3

**Manufacturer:**  
 Teledyne FLIR

Dragonfly®

Camera Series:

## Physical & Mechanical Properties

Board Level

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:

Side Panel

Interface Port Orientation:

5 V via USB3 interface

Power Requirement:

## 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:

Canada

Country of Origin:

Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
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## 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  
Authorized  
Distributor

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

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