

# Photometrics Iris 15 USB Camera, 1T-01-IRIS-15-USB-M-16-C



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#### Product Downloads

Monochrome

Spectrum:

#### General

Monochrome Camera

Type:

01-IRIS-15-USB-M-16-C

Model Number:

Manufacturer:

**Camera Series:**

Iris

**Note:**

Includes:  
 USB 3.0 SuperSpeed A to B data cable  
 12V/ 5A power supply with international power cord set  
 (2) Single-line MMCX trigger cables  
 USB memory device containing PVCAM library and drivers  
 Quick installation guide

**Physical & Mechanical Properties****Dimensions (mm):**

78 x 78 x 118

**Weight (g):**

680

**Housing:**

Full

**Optical Properties****Wavelength Range (nm):**

400 - 1000

**Sensor****Sensor Format:**

1.5"

**Resolution (Megapixels):**

14.90

**Frame Rate (fps):**

10.00

**Pixels (H x V):**

5,056 x 2,960

**Sensing Area, H x V (mm):**

21.49 x 12.58

**Imaging Sensor:**

GPixel Gsense 5130

**Type of Sensor:**

Progressive Scan CMOS

**Shutter Type:**

Rolling

**Pixel Depth:**

16 bit

**Exposure Time:**

12µs- 10s

**Dynamic Range (dB):**

78

**Hardware & Interface Connectivity****Connector:**

USB 3.0

**Power Supply:**

GPIO with #90-400

**GPIOs:**

1 configurable input, 3 configurable outputs

**Synchronization:**

Hardware Trigger (GPIO) or Software Trigger

**Interface Port Orientation:**

Back Panel

**GPIO Connector Type:**

BNC

**Threading & Mounting****Mount:**

F-Mount

**Mounting Threads:**

(1) ¼-20 thread per side

**Environmental & Durability Factors****Operating Temperature (°C):**

0 to 30

**Storage Temperature (°C):**

-20 to 60

**Regulatory Compliance**

RoHS 2015:

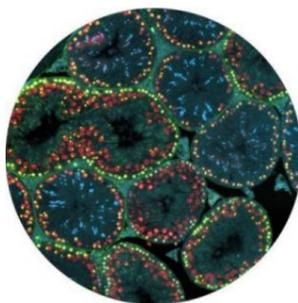
## Product Details

- High-speed USB 3.0 Connectivity
- Small 4.25µm Pixels Across Large Arrays
- Scientific Cameras for High Sensitivity Microscopy Applications



Teledyne Photometrics Iris USB 3.0 Cameras deliver a powerful combination of high spatial resolution, exceptional light sensitivity, and USB 3.0 connectivity. These cameras leverage small 4.25µm pixels and low-noise sCMOS sensors to maximize data capture and enhance image quality in demanding environments. Teledyne Photometrics Iris USB 3.0 Cameras are available in C-Mount and F-Mount configurations and are ideal for light-sheet microscopy, live-cell fluorescence, or imaging large samples at high resolutions. These cameras include Teledyne's proprietary-designed software platforms, Beacon and PVCAM, for optimizing camera performance and ease of system integration.

**Note:** Each camera box includes a USB 3.0 SuperSpeed A-to-B data cable, a 12V/5A power supply with two international power cords, single-line MMCX trigger cables, a USB memory device containing the PVCAM library and drivers, and a quick installation guide.



### High Resolution

The small, 4.25 µm pixels provide highly detailed images across the imaging plane, which allows for the highest resolution when using lower magnification objectives.

### Large Field of View

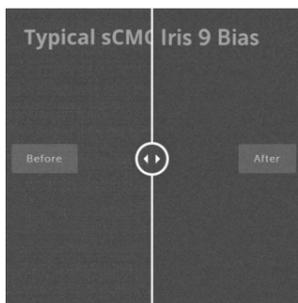
The larger format 25 mm sensor of the Iris 15 is designed to increase throughput, maximize the amount of data captured and take full advantage of new, larger field of view microscopes.

### Compact Form Factor

The Iris 9 (76 x 76 x 88 mm) and Iris 15 (78 x 78 x 108 mm) cameras feature optimized cooling for the size, ideal for integration into new or existing configurations.

### Advanced Triggering

Programmable Scan Mode provides increased control over the rolling shutter exposure and read-out functionality of CMOS sensors by providing access to the sensor timing settings to allow optimization around applications that require control over the line time.



### Superior Background Quality

The Iris Family feature Pattern Noise Reduction Technology and Correlated Noise Reduction Technology to ensure that they deliver clean, pattern-free images with minimal pixel defects, delivering improved image quality in low light conditions.