

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



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Spectrum:
Monochrome

General

Type:
Monochrome Camera

Model Number:
01-IRIS-15-USB-M-16-C

Manufacturer:
Teledyne Photometrics

Iris **Camera Series:**

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

78 x 78 x 118 **Dimensions (mm):**

680 **Weight (g):**

Full **Housing:**

Optical Properties

400 - 1000 **Wavelength Range (nm):**

Sensor

1.5" **Sensor Format:**

14.90 **Resolution (Megapixels):**

10.00 **Frame Rate (fps):**

5,056 x 2,960 **Pixels (H x V):**

21.49 x 12.58 **Sensing Area, H x V (mm):**

GPixel Gsense 5130 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Rolling **Shutter Type:**

16 bit **Pixel Depth:**

12µs- 10s **Exposure Time:**

78 **Dynamic Range (dB):**

Hardware & Interface Connectivity

USB 3.0 **Connector:**

GPIO with #90-400 **Power Supply:**

1 configurable input, 3 configurable outputs **GPIOs:**

Hardware Trigger (GPIO) or Software Trigger **Synchronization:**

Back Panel **Interface Port Orientation:**

BNC **GPIO Connector Type:**

Threading & Mounting

F-Mount **Mount:**

(1) ¼-20 thread per side **Mounting Threads:**

Environmental & Durability Factors

0 to 30 **Operating Temperature (°C):**

-20 to 60 **Storage Temperature (°C):**

Regulatory Compliance

Exempt **RoHS 2015:**

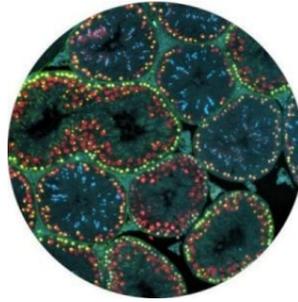
Product Details

- 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

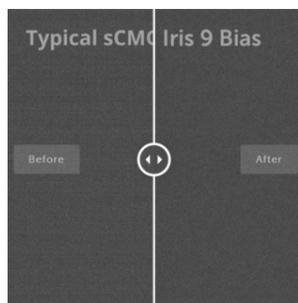
The larger format 25 mm sensor of the Iris 15 is designed to increase throughput, maximize the amount of data captured and take full advantage of new, larger field of view microscopes.

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.