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Photometrics Iris 15 PCIe Camera, 01-IRIS-15-PCIE-M-16-C

#90-391 Photometrics Iris 15 PCIe Camera

Teledyne Authorized Distributor

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- 1 + A$26,800.00

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Product Downloads

Spectrum:
Monochrome

General

Type:
Monochrome Camera

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

Manufacturer:
Teledyne Photometrics

Camera Series:
Iris

Note:
Includes:
PCI Express (PCIe) interface card
PCI Express 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):
30.00

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:
PCIe

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:
Exempt

Certificate of Conformance:	
View	
Reach 247:	
Contains SVHC(s)	

Product Details

- High Resolution Imaging Even at Low Magnifications
- Small 4.25µm Pixels Across Large Arrays
- Advanced Triggering
- Scientific Cameras for High Sensitivity Microscopy Applications

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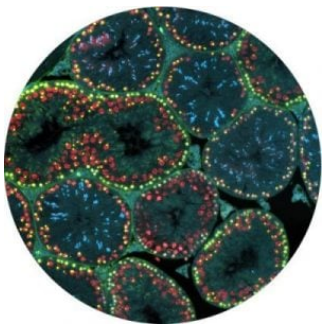
Teledyne Photometrics Iris PCIe Cameras utilize high-resolution sCMOS sensors with 4.25 µm pixels and large sensor formats. This enables precise imaging at low magnifications by maximizing spatial sampling across wide fields of view without sacrificing sensitivity or frame rate. These cameras also feature programmable scan and readout modes that allow precise control of exposure timing and sensor readout direction. Additionally, their advanced triggering capabilities enable seamless synchronization with external devices for high-speed or time-critical imaging applications. Teledyne Photometrics Iris PCIe 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.



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

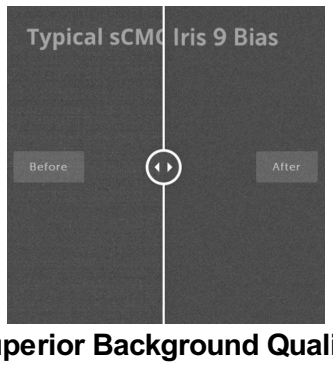
The larger format 25 mm sensor of the Iris 15 is designed to increase throughput, maximize the amount of data captured and take full advantage of new, larger field of view microscopes.

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.

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