

Lumenera INFINITY5 5-3 Microscopy Monochrome Camera

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Monochrome **Spectrum:**

General

Monochrome Microscopy Camera **Type:**

INFINITY5-3M **Model Number:**

Teledyne Lumenera **Manufacturer:**

INFINITY Camera Series:

Physical & Mechanical Properties

Dimensions (mm):
97.8 x 69.8 x 50.8 (excludes lens mount)

Weight (g):
330

Housing:
Full

Sensor

Image Buffer:
Not Specified

Sensor Format:
1/1.8"

Resolution (Megapixels):
3.00

Frame Rate (fps):
120.00

Pixels (H x V):
2,064 x 1,544

Pixel Size, H x V (µm):
3.45 x 3.45

Sensing Area, H x V (mm):
7.12 x 5.33

Imaging Sensor:
Sony IMX252

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
8/12 bit

Exposure Time:
161µs - 500ms (video)

Dynamic Range (dB):
73

Read Noise (e⁻):
2.35

Electrical

Power Consumption (W):
4

Hardware & Interface Connectivity

Interface:
USB 3.1 Gen 1 (HDMI)

Power Supply:
Power over USB

GPIOs:
Not Specified

Synchronization:
Hardware Trigger (GPIO)

Interface Port Orientation:
Side Panel

GPIO Connector Type:
8-pin Hirose (MRX)

Threading & Mounting

Mount:
C-Mount

Mounting Threads:
2 x 1/4-20 (Integrated into Housing)

Environmental & Durability Factors

Operating Temperature (°C):
0 to +50

Storage Temperature (°C):
-30 to +70

Regulatory Compliance

Certificate of Conformance:
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Product Details

- Ideal for Life Sciences, Clinical, and Industrial Applications
- USB or HDMI Video Output Options
- Powerful Capture and Analysis Software Included
- PC & Mac Compatibility



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Teledyne Lumenera INFINITY5 Microscopy Cameras are an excellent fit for quantitative and low-light applications. These cameras are compatible with any c-mount, come complete with image analysis software and an industry leading four (4) year warranty. The CMOS models also have HDMI output, enabling direct video output to monitors with an HDMI port. Their high dynamic range and 14-bit output make these cameras a versatile entry-level research camera for documentation and image analysis in life science, clinical and material science applications. Teledyne Lumenera INFINITY Microscopy Cameras easily manage seconds of exposure time with a dark current rating of less than 1 e-/s and a low noise level comparable to sCMOS cameras.

These Teledyne Lumenera INFINITY5 Microscopy Cameras feature ultra-sensitive Sony sensors, and their performance and price make them an ideal solution for fluorescence applications. The cameras feature a unique noise reduction technology that includes high grade components, low noise electronics and improved thermal management techniques.

Note: The INFINITY3 & INFINITY2 Series have been discontinued by the manufacturer but are still available for purchase in limited quantities.