

# Lumenera INFINITY5 5-3 Microscopy Monochrome Camera

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## Product Downloads

**Spectrum:**  
Monochrome

## General

**Type:**  
Monochrome Microscopy Camera

**Model Number:**  
INFINITY5-3M

Teledyne Lumenera **Manufacturer:**

INFINITY **Camera Series:**

## Physical & Mechanical Properties

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

330 **Weight (g):**

Full **Housing:**

## Sensor

Not Specified **Image Buffer:**

1/1.8" **Sensor Format:**

3.00 **Resolution (Megapixels):**

120.00 **Frame Rate (fps):**

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

3.45 x 3.45 **Pixel Size, H x V (µm):**

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

Sony IMX252 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

8/12 bit **Pixel Depth:**

161µs - 500ms (video) **Exposure Time:**

73 **Dynamic Range (dB):**

2.35 **Read Noise (e<sup>-</sup>):**

## Electrical

4 **Power Consumption (W):**

## Hardware & Interface Connectivity

USB 3.1 Gen 1 (HDMI) **Interface:**

Power over USB **Power Supply:**

Not Specified **GPIOs:**

Hardware Trigger (GPIO) **Synchronization:**

Side Panel **Interface Port Orientation:**

8-pin Hirose (MRX) **GPIO Connector Type:**

## Threading & Mounting

C-Mount **Mount:**

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

## Environmental & Durability Factors

0 to +50 **Operating Temperature (°C):**

-30 to +70 **Storage Temperature (°C):**

## Regulatory Compliance

## 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



Teledyne  
Authorized  
Distributor

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.

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