

# JAI Fusion, 1600D-10GE, 1/2.9" 1.6MP, GigE Multispectral Camera



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\$3,164.<sup>00</sup>

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### Product Downloads

Multispectral

**Spectrum:**

### General

Multispectral Camera

**Type:**

FS-1600D-10GE

**Model Number:**

JAI

**Manufacturer:**

Fusion

**Camera Series:**

## Physical & Mechanical Properties

62 x 62 x 86.5  
**Dimensions (mm):**

270  
**Weight (g):**

Full  
**Housing:**

## Sensor

1/2.9"  
**Sensor Format:**

1.60  
**Resolution (Megapixels):**

226.00  
**Frame Rate (fps):**

1,440 x 1,080  
**Pixels (H x V):**

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

5.0 x 3.7  
**Sensing Area, H x V (mm):**

Sony IMX273  
**Imaging Sensor:**

2 CMOS (Vis/NIR)  
**Type of Sensor:**

Global  
**Shutter Type:**

8/10/12 Bit  
**Pixel Depth:**

GigE Vision  
**Machine Vision Standard:**

## Electrical

10.4  
**Power Consumption (W):**

## Hardware & Interface Connectivity

GigE (POE)  
**Interface:**

RJ45 with Screw Locks  
**Connector:**

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: #29-172  
Europe: #29-172  
Japan: #29-172  
Korea: Not Available  
China: Not Available

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

Back Panel  
**Interface Port Orientation:**

12-pin Hirose  
**GPIO Connector Type:**

## Threading & Mounting

C-Mount  
**Mount:**

## Environmental & Durability Factors

-5 to +45  
**Operating Temperature (°C):**

-25 to +60  
**Storage Temperature (°C):**

## Regulatory Compliance

[View](#)  
**Certificate of Conformance:**

## Product Details

- Multispectral Camera Designed with Multiple Sensors
- Designed for 400 – 670nm and 740 – 1000nm Wavelengths
- Backwards Compatible 10GigE Interface

JAI® Fusion Series Cameras are designed to image multiple wavebands at once, allowing for a more flexible imaging experience. Utilizing a prism as the camera input, the incoming light is separated and directed to the multiple

sensors with precision per-pixel alignment, providing excellent resolution of the individual wavebands. With a backwards compatible 10GigE interface, these cameras are easily integrated into existing imaging systems. JA® Fusion Series Cameras have effective wavelength ranges of 400 to 670nm and 740 to 1000nm. These cameras are ideal for applications including surface inspection, NIR fluorescence, life sciences, and intelligent farming.

**Note:** These cameras require prism-corrected imaging lenses; alternatively, standard imaging lenses with zero rear protrusion can be used with reduced performance. Downloadable software is [available](#) online.

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