

JAI Apex, 1600T-USB, 1/2.9" 1.6MP, USB Color Camera



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Color

Spectrum:

General

Color Camera

Type:

AP-1600T-USB

Model Number:

JAI

Manufacturer:

Apex

Camera Series:

Physical & Mechanical Properties

44 x 44 x 74 **Dimensions (mm):**

170 **Weight (g):**

Full **Housing:**

Sensor

1/2.9" **Sensor Format:**

1.60 **Resolution (Megapixels):**

79.00 **Frame Rate (fps):**

1,456 x 1,088 **Pixels (H x V):**

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

4.97 x 3.73 **Sensing Area, H x V (mm):**

Sony IMX273 **Imaging Sensor:**

3 Color RGB CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

USB3 Vision **Machine Vision Standard:**

Electrical

5.3 **Power Consumption (W):**

Hardware & Interface Connectivity

USB 3.1 Gen 1 **Interface:**

USB **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

- High Color Fidelity and Spatial Precision versus Bayer Color Cameras
- More Accurate Per-Pixel Color Values, Steeper Spectral Curves, Sharper Resolution
- USB, GigE, and Medical Versions Available

JAI® APEX Series 3-Sensor Cameras are a range of 3-CMOS area scan cameras that provide better color fidelity and spatial precision than traditional Bayer color cameras. Utilizing a prism at the camera input, the incoming light is

separated into red, green, and blue wavelengths which are each directed to separate red, green, and blue image sensors. These sensors deliver true red, green, and blue color outputs for more accurate per-pixel color values, steeper spectral curves, and sharper resolution. JAI® APEX Series 3-Sensor Cameras are available in 1.6 or 3.2 megapixel resolutions with USB or Gigabit Ethernet (GigE) outputs, and also available in a white housing with USB output that offers strict production screening and preventative measures to minimize dust, lint, or debris on the prism, sensor, or in the optical path for clinical environments and life science applications. These cameras are ideal for a range of medical and laboratory applications such as fluorescence microscopy, digital pathology, ophthalmology, endoscopy, surgical imaging, and medical quality inspection.

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