

## JAI Go, 8105M-5GE-UV , 2/3" 8.1MP, 5GigE UV Camera



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⊖ 1 ⊕ £7,376<sup>00</sup>

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### Product Downloads

UV

Spectrum:

### General

UV Camera

Type:

GO-8105M-5GE-UV

Model Number:

JAI

Manufacturer:

Camera Series:

Go

## Physical & Mechanical Properties

29 x 29 x 68 **Dimensions (mm):**

94 **Weight (g):**

Full **Housing:**

## Sensor

2/3" **Sensor Format:**

8.10 **Resolution (Megapixels):**

66.00 **Frame Rate (fps):**

2,856 x 2,848 **Pixels (H x V):**

2.74 x 2.74 **Pixel Size, H x V (µm):**

7.8 x 7.8 **Sensing Area, H x V (mm):**

Sony IMX487-AAUJ **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

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

GigE Vision **Machine Vision Standard:**

## Electrical

5.4 **Power Consumption (W):**

## Hardware & Interface Connectivity

GigE (PoE) **Interface:**

RJ45 with Screw Locks **Connector:**

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: #29-171  
Europe: #29-171  
Japan: #29-171  
Korea: Not Available  
China: Not Available

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

Back Panel **Interface Port Orientation:**

6-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

- >40% Quantum Efficiency at 280 – 400nm UV Wavelengths
- Up to 8.1MP Resolution
- Sony Pregius Sensor, With Xscale Functionality

JAI® Go Series UV Cameras are designed for high resolution output in UV wavelengths ranging from 280 – 400nm. Utilizing the Sony Pregius S sensor's Xscale function, sub-pixel rescaling of outputs is possible allowing for easier integration into existing systems. With a small form factor, 100g weight, and shock and vibration ratings of 80G/10G, these cameras are highly reliable in rugged environments. JAI® Go Series UV Cameras feature >25% quantum efficiency at 200nm which increases to >40% in its 280 – 400nm designed wavelength range. These cameras are ideal for applications including machine vision, inspection, video microscopy, and UV spectroscopy.

**Note:** Downloadable software is [available](#) online.

Designed for excellent performance in the UV spectrum, JAI GO UV Cameras leverage the Sony IMX487-AAMJ sensor and 5GigE interface to deliver high-resolution performance for demanding applications. With global shutter technology and progressive scan output, these cameras capture sharp UV images even in fast-moving environments. Compact and rugged, with a C-Mount housing and broad operating temperature range, they offer exceptional flexibility for machine vision, UV fluorescence inspection, and spectroscopy setups requiring stable and reliable imaging across the 280–400nm range.

## FAQ(s)

### 🔍 What sensor is used in JAI GO UV Cameras?

These cameras utilize the Sony IMX487-AAMJ progressive scan CMOS sensor, optimized for UV imaging performance.

### 🔍 How are these UV cameras suited for rugged environments?

With a compact form factor, C-Mount design, 94g weight, and shock/vibration ratings of 80G/10G, they are highly reliable even under challenging conditions.

### 🔍 What applications are best suited for JAI GO UV Cameras?

They are ideal for fluorescence imaging, machine vision, surface inspection, video microscopy, and spectroscopy, which require precise, stable imaging.

### 🔍 How does global shutter technology benefit UV imaging?

Global shutter ensures accurate capture of fast-moving objects without distortion, which is critical for dynamic inspection and high-speed UV imaging tasks.

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