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

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Product Downloads

Spectrum:
UV

General

Type:
UV Camera

Model Number:
GO-8105M-5GE-UV

Manufacturer:
JAI

Camera Series:

Go

Physical & Mechanical Properties

Dimensions (mm):	29 x 29 x 68
Weight (g):	94
Housing:	Full

Sensor

Sensor Format:	2/3"
Resolution (Megapixels):	8.10
Frame Rate (fps):	66.00
Pixels (H x V):	2,856 x 2,848
Pixel Size, H x V (µm):	2.74 x 2.74
Sensing Area, H x V (mm):	7.8 x 7.8
Imaging Sensor:	Sony IMX487-AAMJ
Type of Sensor:	Progressive Scan CMOS
Shutter Type:	Global
Pixel Depth:	8/10/12 Bit
Machine Vision Standard:	GigE Vision

Electrical

Power Consumption (W):	5.4

Hardware & Interface Connectivity

Interface:	GigE (PoE)
Connector:	RJ45 with Screw Locks
Power Supply:	Power Supply Required and Sold Separately: USA: #29-171 Europe: #29-171 Japan: #29-171 Korea: Not Available China: Not Available
Synchronization:	Hardware Trigger (GPIO) or Software Trigger
Interface Port Orientation:	Back Panel
GPIO Connector Type:	6-pin Hirose

Threading & Mounting

Mount:	C-Mount

Environmental & Durability Factors

Operating Temperature (°C):	-5 to +45
Storage Temperature (°C):	-25 to +60

Regulatory Compliance

Certificate of Conformance:	View

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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