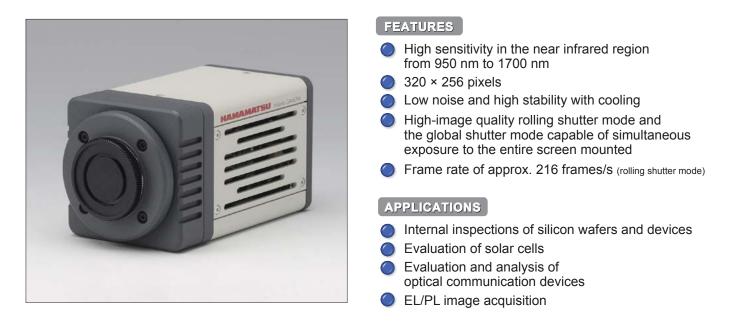
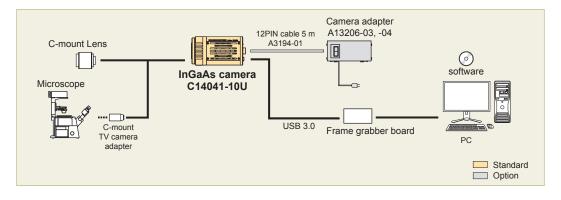
InGaAs camera C14041-10U



The C14041-10U is an InGaAs camera with high sensitivity in the near infrared region from 950 nm to 1700 nm. It has a USB 3.0 interface port which supports 14 bit image acquisition and exposure time adjustment. This makes the C14041-10U ideal for use in a wide range of applications including internal inspection of silicon wafers and devices, laser beam alignment and evaluation of solar cells.

SYSTEM CONFIGURATION



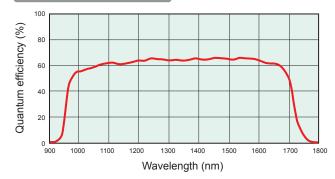


SPECIFICATIONS

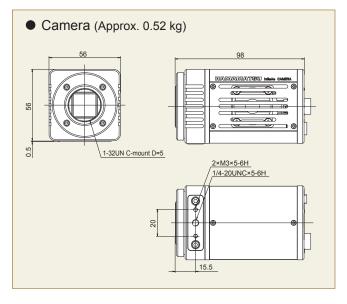
Type number		C14041-10U
Imaging device		InGaAs sensor
Effective number of pixels		320 (H) × 256 (V)
Pixel size		20 μm (H) × 20 μm (V)
Effective area		6.4 mm (H) × 5.12 mm (V)
Cooling method		Peltier cooling
Cooling temperature	Forced-air cooled (Ambient temperature: +25 °C)	+10 °C
Frame rate	Rolling shutter	216.6 frames/s
	Global shutter	214.3 frames/s
Digital output		14 bit
Exposure time *1	Rolling shutter	4.6 ms to 1 s
	Global shutter	100 µs to 1 s
External trigger input mode		Edge trigger, Level trigger, Start trigger
Trigger delay function		0 s to 1 s in 10 µs steps
Trigger input connector		SMA
Interface		USB 3.0
Image processing functions		Background subtraction,
		Shading correction
Lens mount		C-mount
Connector		USB 3.0 microB type
Power supply		DC +12 V
Power consumption		Approx. 16 W
Ambient operating temperature *1		0 °C to +40 °C
Ambient operating humidity		30 % to 80 %
		(with no condensation)
Ambient storage temperature		-10 °C to +50 °C
Ambient storage humidity		90 % max.
		(with no condensation)

*1: Depend on the exposure time or ambient temperature, brighter or darker pixels than surrounding area or uneven pattern may appear in the image. It comes from the characteristics of InGaAs sensor and not the defects or failure of the camera.

SPECTRAL RESPONSE



DIMENSIONAL OUTLINES (Unit : mm)



OPTIONS

 Camera adapter: A13206-03 (for US) : A13206-04 (for EU)

12PIN cable 5 m: A3194-01

* Product and software package names noted in this documentation are trademarks or registered trademarks of their respective manufacturers.

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- appearance are subject to change without notice.

• The spectral response specified in this catalog is typical value, it is not guaranteed.

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