HIGH RESOLUTION CMOS DETECTOR ISA071 / ISA071GL

High resolution & high performance, USB 3.0 interface CMOS detector for 400nm~1100nm spectral range

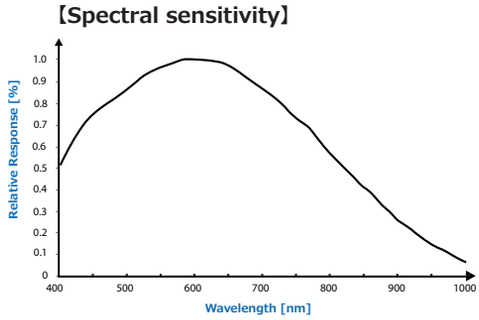
ISA071/ISA071GL is high resolution & high performance CMOS detectors for 400nm~1100nm spectral range. It is suitable for optical beam profile analysis of various optical device and module such as laser diodes, optical fiber, etc. in 400~1100nm wavelength range. In combination with Synos' optical measurement optics **M-Scope** series and optical beam analysis module **AD013**, it has wide application field in optical beam observation and beam profile analysis.

【Summary of specification】

	High resolution CMOS detector **ISA071**	High resolution CMOS detector for laser **ISA071GL**
Specification outline of image sensor		
Imaging device	1/1.8" CMOS (with cover glass)	1/1.8" CMOS (cover glassless)
Spectral range	400nm~1100nm	
Total pixels	2048×1536 pixels (approx. 3.2 megapixels)	
Pixels pitch	3.45×3.45 (μm)	
Specification outline of detector hardware		
Interface	USB 3.0	
Frame rate	60fps (at full resolution)	
Shutter	Global shutter	
Exporsure control	25μsec~4sec	
Gradation	12bit ADC	
Camera mount	C/CS mount	
Power supply	USB bus power (4.5~5.5 VDC supply voltage)	
Operation environment	+5℃~+45℃	

(CAUTION) High Resolution CMOS Detector For Laser *ISA071GL* is using cover glassless type CMOS image sensor. For this reason, free warranty after delivery does not apply. When selecting *ISA071GL*, please be aware of this in advance and handle with care.

【Spectral sensitivity】



【Standard component】

○Detector head: 1

1" HIGH RESOLUTION CMOS DETECTOR ISA061

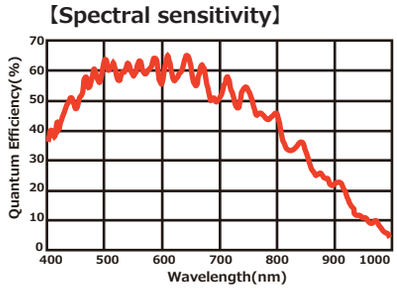
1 inch format high resolution & high performance digital CMOS detector for 400nm~1100nm spectral range

ISA061 is a CMOS detector using 2048×2048 pixels, NIR enhanced 1" progressive scan CMOS imaging device. ISA061 is the dedicated detector of wide area type FFP measurement optics **M-Scope type FW**, and high power laser FFP measurement optics **M-Scope type HF**.

【Summary of specification】

Summary of specification / Imaging device	
Imaging device	1 inch progressive scan CMOS (NIR enhanced)
Spectral range	400nm - 1100nm
Pixels number	2048 × 2048 pixels / 4M pixels
Sensor pitch	5.5 x 5.5μm
Summary of specification / Detector	
Detector control I/F	Gigabit Ethernet (GigE Vision)
Frame rate	25fps
Shutter	Global
Exposure control	Programable mode
Gradation	8/12bit
Camera mount	C mount
Power supply	12VDC

【Spectral sensitivity】



【Standard component】

○Detector head: 1
○AC adapter: 1

USB CMOS DETECTOR ISA003-01

General purpose USB CMOS detector, mainly used for image observation and image processing

USB CMOS detector **ISA003-01** is a monochrome USB CMOS detector, mainly used for image observation and image processing in general purpose.

【Summary of specification】

○Image sensor: 1/1.8" progressive scan monochrome CMOS
○Shutter: Global/rolling shutter
○Effective total pixels: 1280×1024 pixels (approx. 1.3M pixels)
○Pixels pitch: 5.3×5.3μm
○Frame rate: 60fps
○Camera interface: USB3.0 Super speed (USB3.0 microB)
○Gradation: 8bit /10bit
○Minimum subject illuminance: 0.26Lux at F1.2
○Exposure time: 15.72μsec~10.3sec
○Power supply/power consumption: +5V (typ.)(USB standard compliant)/2.0W or less