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THE CENTRE OF SCINTILLATION

CamIR

Digital USB cameras for affordable, real-time infrared imaging

The excellent sensitivity of the phosphor based scintillators within our CamIR range provides a cost effective alternative to InGaAs cameras for applications such as laser beam profiling.

CamIR range

Using our established technology we have developed the CamIR family, from the original CamIR[1550] 1.2MP camera, to offer a choice of 2 models: the **CamIR 1.6M** and **CamIR 2.8M**.

Optimised for highest sensitivity at 1550nm, they are ideally suited to beam location / alignment of communications band emitters, lasers, high-speed fibre optics, or direct imaging through an attached lens.

Scintacor also offer a CamIR Adapter for cost effective adaption of your camera for use at 1550nm - see separate datasheet for details.

application areas

- Laser beam profiling
- Telecommunications device manufacturing control
- Telecommunications testing and inspection
- Optical fibre checking and spectroscopy
- Product quality monitoring

features

- Laser detection or direct imaging
- Lightweight design
- High sensitivity
- High performance
- Ideal for use in a laboratory environment or remote locations

The Digital CamIR kit includes:

- CamIR 1.6M or 2.8M camera
- USB 3.1 cable
- USB Flashdrive containing software
- Getting Started Guide

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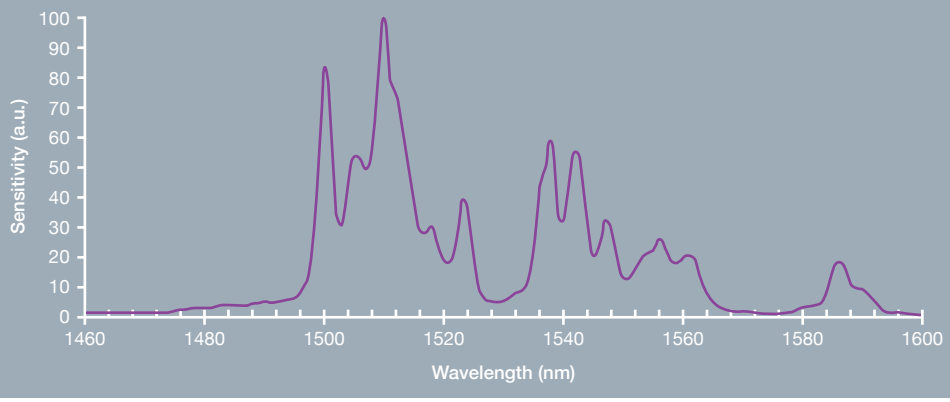
Camera specification	CamIR 1.6M	CamIR 2.8M
Image Sensor Model	Sony IMX296	Sony IMX429
Maximum Resolution	1440 x 1080	1936 x 1464
Pixel Size (µm)	3.45 x 3.45	4.5 x 4.5
ADC Converter	10 bit	12 bit
Dynamic Range	66.03 dB	70.77 dB
Digital Interface	USB 3.1	USB 3.1
Frame Rate (f/s)	60	95
Exposure Range	29 µs to 30 sec	12 µs to 30 sec

Sensitivity of the Camera Sensor Coating



Power Consumption	2.2W	4.2W
Lens Mount	CS-Mount *(5mm C-Mount adapter included)*	C-Mount
Dimensions (W x H x D)	27 x 27 x 14.5 mm	29 x 29 x 39 mm
Mass	20g	53g
Operating Temperature	0°C to 50°C	0°C to 50°C
Operating Humidity	20% to 80% non condensing	20% to 80% non condensing
Storage Temperature	-30°C to 60°C	-30°C to 60°C
Storage Humidity	20% to 95% non condensing	20% to 95% non condensing
Compliance	Both models: CE, FCC, KCC, RoHS. Product ECCN: EAR099.	
Spectral Sensitivity	See graph	See graph
Scene Illumination spectral sensitivity	1000 - 1100nm	1000 - 1100nm

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