

# 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 grown the CamIR family. Now, as well as the original **CamIR<sup>1550</sup>** 1.2MP camera, we are offering 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

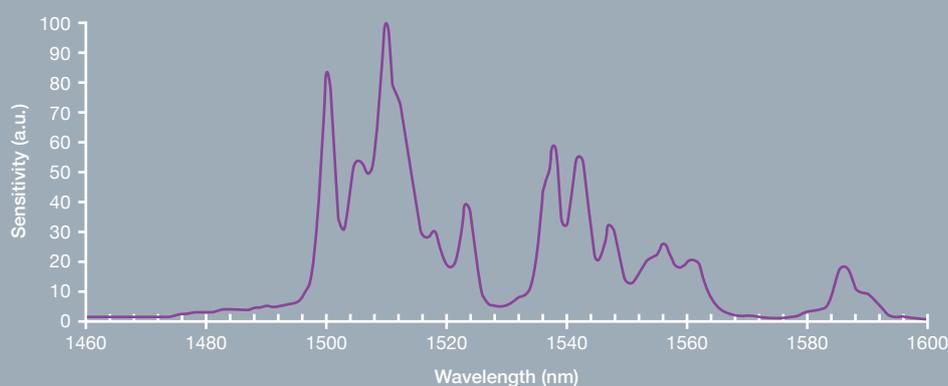
- Laser detection or direct imaging
- Lightweight design
- High sensitivity
- High performance
- Ideal for use in a laboratory environment or remote locations

### The Digital CamIR kit includes:

- CamIR camera (CamIR<sup>1550</sup>, CamIR 1.6M or CamIR 2.8M)
- USB 2.0 or 3.1 cable (camera dependant)
- USB Flashdrive containing software
- Getting Started Guide

Camera specification	CamIR <sup>1550</sup>	CamIR 1.6M	CamIR 2.8M
Image Sensor Model	Sony ICX445	Sony IMX296	Sony IMX429
Maximum Resolution	1296 x 964	1440 x 1080	1944 x 1472
Pixel Size (µm)	3.75 x 3.75	3.45 x 3.45	4.5 x 4.5
ADC Converter	12 bit	10 bit	12 bit
Dynamic Range	66.03dB	66.03 dB	70.77 dB
Digital Interface	USB 2.0	USB 3.1	USB 3.1
Frame Rate (f/s)	18	60	95
Exposure Range	10 µs to 10 sec	29 µs to 30 sec	12 µs to 30 sec

## Sensitivity of the Camera Sensor Coating



Power Consumption	2W	2.2W	4.2W
Lens Mount	CS-Mount	CS-Mount	C-Mount
	<i>(5mm C-Mount adapter included with CS-Mount models)</i>		
Dimensions (W x H x D)	41 x 44 x 25.5 mm	27 x 27 x 14.5 mm	29 x 29 x 39 mm
Mass	37g	20g	53g
Operating Temperature	0°C to 45°C	0°C to 50°C	0°C to 50°C
Operating Humidity	For all models: 20% to 80% non condensing		
Storage Temperature	For all models: -30°C to 60°C		
Storage Humidity	For all models: 20% to 95% non condensing		
Compliance	For all models: CE, FCC, KCC, RoHS. Product ECCN: EAR099.		
Spectral Sensitivity	For all models: See graph		
Scene Illumination spectral sensitivity	1000 - 1185nm	1000 - 1100nm	1000 - 1100nm

### Scintacor

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