

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 **CamIR¹⁵⁵⁰** 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

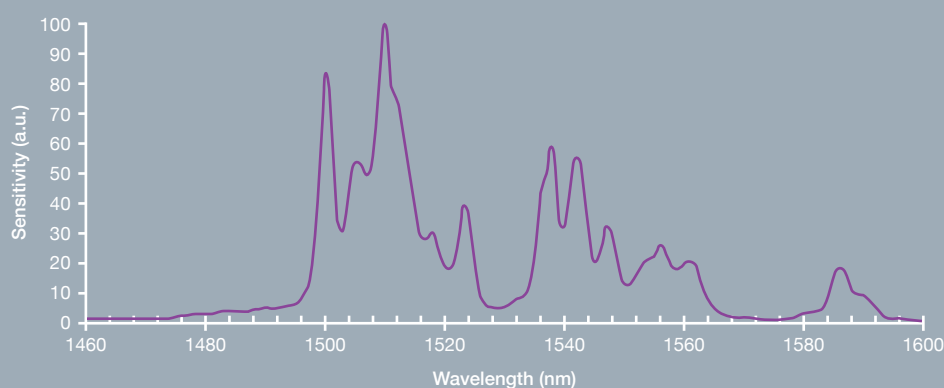
- Laser detection or direct imaging
- Lightweight design
- High sensitivity
- High performance
- Ideal for use in a laboratory environment or remote locations

The Digital CamIR kit includes:

- CamIR camera (CamIR¹⁵⁵⁰, 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 ¹⁵⁵⁰	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

125 Cowley Road, Cambridge Commercial Park,
Cambridge, CB4 0DL, United Kingdom

t +44 (0)1223 223060 e info@scintacor.com

www.scintacor.com

Part of Tibidabo Scientific Industries

DS / CAMIR-RANGE / rev03 / Aug2023