

# CamIR

## Camera for affordable, real-time infrared imaging applications

The excellent sensitivity of the phosphor based scintillators within our CamIR product allow for reliable detection of laser beam profiles.



### products

#### CamIR

Using our established technology we have developed the CamIR. Optimised for highest sensitivity at 1550nm, it is ideally suited to beam location / alignment of communications band emitters, lasers, high-speed fibre optics, or direct imaging through an attached lens.

#### CamIR Adapter

Easy and cost effective adaption of your camera for use at 1550nm.

### application areas

- Laser beam profiling
- Machine vision and general IR detection
- 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<sup>1550</sup> kit includes:

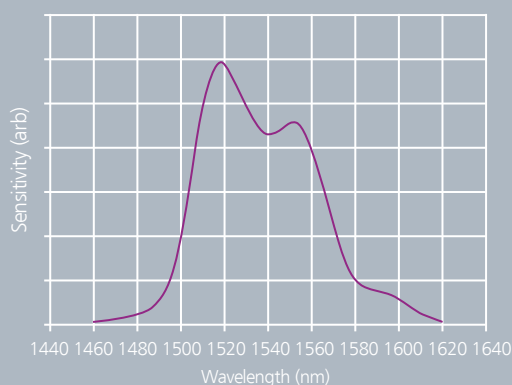
- Digital CamIR<sup>1550</sup> USB 2.0 camera
- 2 metre USB 2.0 cable (Type A to Mini-B 5-Pin)
- Fly-Capture USB Flashdrive containing software
- Getting Started Guide

## Camera specification

## Digital CamIR<sup>1550</sup> 463125

Image Sensor Model	Sony progressive scan interface interline transfer ICX445 1/3" Exview HAD CCD™
Maximum Resolution	1296 (H) x 964 (V)
Pixel Size	3.75µm x 3.75µm
Analogue-to-Digital Converter	Analogue Devices 12-bit ADC
Video Data Output	8, and 16-bit digital data
Digital Interface	5-pin Mini-B USB 2.0 digital interface for camera control, video data transmission, & power
Transfer Rates	480 Mbit/s
Partial Image Modes	Pixel binning and region of interest modes via Format_7
Dynamic Range	56.77dB
Dynamic Range	9.43 Bits

### Absorption Sensitivity of the Camera Sensor Coating



Gain Control	auto/manual/one-push modes, programmable via software, 0 dB to 24 dB in 0.04 increments
Shutter Speed	auto/manual/one-push modes, programmable via software, 0.01 ms to greater than 10 s
Voltage Requirements	4.745 to 5.25 V via the Mini B USB 2.0 Interface or JST 7-pin GPIO connector
Power Consumption	2 W (max) at 5V
Dimensions	25.5mm x 41 mm x 44mm (excluding optics)
Mass	37 grams (including tripod mounting bracket)
Memory Storage	3 memory channels for custom camera settings
Lens Mount	CS-Mount (5mm C-Mount adapter included)
Emissions Compliance	Complies with CE rules and Part 15 Class B of FCC rules
Operating Temperature	0°C to 45°C
Storage Temperature	-30°C to 60°C
Warranty	1 year
Spectral Sensitivity	See graph
Peak Sensitivity	See graph
Scene Illumination spectral sensitivity	1000-1185nm

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