scintacor
THE CENTRE OF SCINTILLATION

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

- o Laser beam profiling
- o Machine vision and general IR detection
- o Telecommunications device manufacturing control
- o Telecommunications testing and inspection
- o Optical fibre checking and spectroscopy
- o Product quality monitoring

features

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

## The Digital CamIR[1550] kit includes:

- o Digital CamIR[1550] USB 2.0 camera
- o 2 metre USB 2.0 cable (Type A to Mini-B 5-Pin)
- o Fly-Capture USB Flashdrive containing software
- o Getting Started Guide

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Camera specification   Digital CamIR^{1550} 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
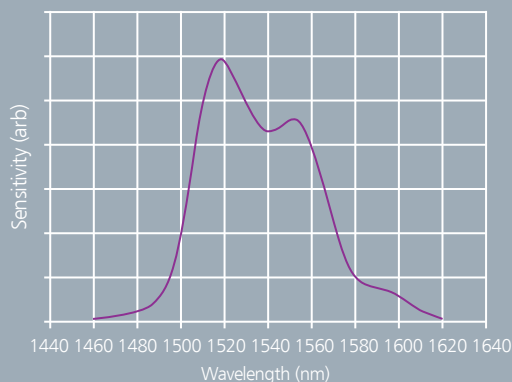
Gain Control	auto/manual/one-push modes, programmable via software, 0 dB to 24 dB in 0.04 increments
Shutter Speed	auto/manual/one-push modes, programmable via software, 0.01 ms to greater than 10 s
Voltage Requirements	4.745 to 5.25 V via the Mini B USB 2.0 Interface or JST 7-pin GPIO connector
Power Consumption	2 W (max) at 5V
Dimensions	25.5mm x 41mm 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