scintacor
THE CENTRE OF SCINTILLATION

Digital CamIR^{1550} USB 2.0 Camera

The camera sensor is coated with infra-red sensitive phosphor and filtered for visible light.

The Digital CamIR^{1550} kit includes:

- Digital CamIR^{1550} USB 2.0 camera
- 2 meter USB 2.0 cable (Type A to Mini-B 5-Pin)
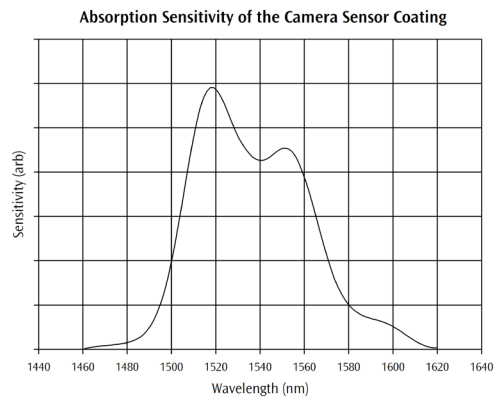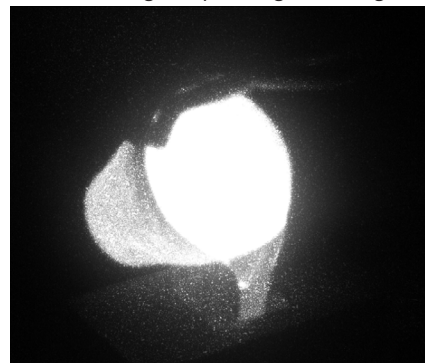- FlyCapture USB Flashdrive containing software
- Getting Started Guide

A cost effective alternative to InGaAs cameras for mass market applications.

Application Areas:

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

Specification	Digital CamIR^{1550} 463125
Image Sensor Model	Sony progressive scan 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, and power
Transfer Rates	480 Mbit/s
Partial Image Modes	pixel binning and region of interest modes via Format_7
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° to 45°C
Storage Temperature	-30° to 60°C
Warranty	1 Year
Spectral Sensitivity	See graph
Peak Sensitivity	See graph
Scene Illumination spectral sensitivity	1000-1185nm

Absorption Sensitivity of the Camera Sensor Coating

Infrared image of pouring molten glass.

7.2.3V

Digital **CamIR**[1550] Getting Started Guide

Introduction

Digital CamIR[1550] is a USB 2.0 camera modified for near infrared imaging.

Thank you for choosing the Digital CamIR1550 CCD camera. Scintacor Ltd hopes that both the quality and design satisfy your requirements. Before proceeding to install or operate the Digital CamIR1550, please read and understand thoroughly the contents of these operation notes.

For future reference we also advise the safe keeping of this manual.

Serial Number and Web Access Code:

Troubleshooting

For troubleshooting help please refer to the Point Grey guides and manuals by visiting:

www.ptgrey.com/support/downloads/.

For any issues with software please visit Point Grey Research:

www.ptgrey.com/support/

For issues regarding the spectral sensitivity or response of your Digital CamIR1550 please contact Scintacor Ltd.

Mailing Address:

Scintacor Ltd
125 Cowley Road
Cambridge Commercial Park
Cambridge
CB4 0DL
United Kingdom

Website: www.scintacor.com/contact-us
Email: sales@scintacor.com
Tel: +44 (0) 1223 223060

For Detailed Instructions on Installation please refer to the Point Grey Getting Started guide or manuals by visiting www.ptgrey.com/support/downloads/.

To Install USB Drivers/SDK and Demo Viewer please follow the instructions below.

Installation Summary

1. Insert FlyCapture USB Flashdrive
2. Install Drivers by following on-screen instructions
3. Connect the Camera to the USB 2.0 port
4. Run Fly Capture software

1. Insert the FlyCapture USB Flashdrive provided with your camera into a USB 2.0 port on your computer.

2. Locate the USB drive and open the file folder.
Select operating system and run Fly Capture.XXX.exe to install the driver software.
Follow the installation instructions.
At Interface Driver selection, select USB Cameras.
Deselect USB3 Interface.

3. Once the driver has been installed follow any on screen instructions.
You will be asked to restart your system.
Then insert the 2-meter USB 2.0 cable (Type A to Mini-B 5-pin) into the port on the back of the camera and a USB 2.0 port on your computer.

4. Run the Fly Capture software by locating the Point Grey Research program folder and selecting FlyCap2.

ISO 9001 Registered

UKAS QUALITY MANAGEMENT 015