



## High Speed, High Quality Imaging

### Standard Set

<i>i-SPEED 2</i> camera	Pickle switch
Power supply	PC software - Control
Ethernet crossover cable	Getting started guide
Composite video cable	CF card adaptor
S-Video cable	Transport case
<i>i-SPEED 2</i> feature connector cable	
Mains cable x 3 (UK, USA/Japan, Europe)	

### Features

Resolution	800 x 600 @ 1,000 fps
Maximum Frame Rate	33,000 fps
Shutter	5 µs
Image Processing	Process images before saving via on board editing suite
Image Manipulation	Zoom/Pan/Select region of interest
Measurement	On board analysis function enabling measurement of distance, speed, acceleration, angle
Triggering	0-5V TTL, ROC, BROCC
Synchronisation	Phase lock enables multiple cameras to be synchronised
Image Storage Formats	AVI/MJPEG
Security Secure	Once powered down, the camera does not retain video images
Data	x 2 channels of analogue data synchronised with video images. Sample rate selectable to 100 KHz
GPS/IRIG Module	Synchronise cameras to IRIG/NASA generators or to Global Positioning Satellites

### Models

Each camera is available as a monochrome or colour unit and has a selectable internal memory size.

Memory size	Record time at full resolution
2 GB Monochrome	4.50 seconds
4 GB Monochrome/HG	9.00 seconds
2 GB Colour	4.50 seconds
4 GB Colour/HG	9.00 seconds

Memory upgrade is available between units

## Operation

Cameras may be operated as stand-alone units with the patented\* CDU or by PC via Ethernet connection (see software sheet)

Dimensions	115 mm (W) x 110 mm (H) x 233 mm (L)
Weight	2 kg
Input Voltage	12 V $\pm$ 10%
Power Consumption	36 W maximum
Mounting	5 x 1/4" Whitworth threads
Lens Mounting	C-Mount

## Image Sensor

Sensor Type	Custom CMOS
Resolution	800 x 600
Sensor Size	14 mm (diagonal) 8.4 mm x 11.2 mm
Pixel Size	14 micron
Aspect Ratio	4:3
Shutter	5 $\mu$ s
Bit depth	8 bit

## Regulatory Compliance

EMC	CISPR 22 (BS EN55022)
Safety	CISPR 24 (BS EN55024)
CE	BS EN61010-1
Lead Free	RoHS Directive
WEEE	Compliant
IP Rating	EN60529

## Operating Environment

Temperature	0 °C to +40 °C operation -20 °C to +60 °C storage
Pressure	71 kpa to 106 kpa
Relative Humidity	95% at 40 °C non-condensing

## G Rating

HG Cameras	100 G @ 11 milliseconds	IEC 68-2-27 Ea
	100 G @ 2 milliseconds	IEC 68-2-29 Eb

## Storage Case

Dimensions	535 mm (W) x 430 mm (H) x 210 mm (L)
Weight	4.70 kg without contents

## CDU

Dimensions	267 mm (W) x 210 mm (H) x 43 mm (L)
Weight	1.25 kg
Display	8.4" LCD Daylight viewing
Input Voltage	12 V $\pm$ 10%
Power Consumption	8 W maximum

## i-SPEED 2 - 4 GB Internal Memory

Frames per Second	Resolution	Frames in Memory	Record Time (s)
1	800 x 600	4473	2447.000
25	800 x 600	4473	97.880
100	800 x 600	4473	44.730
150	800 x 600	4473	29.820
200	800 x 600	4473	22.370
300	800 x 600	4473	14.910
400	800 x 600	4473	11.180
500	800 x 600	4473	8.950
1,000	800 x 600	4473	4.470
1,500	672 x 504	6340	4.230
2,000	576 x 432	8630	4.320
3,000	448 x 336	14266	4.760
4,000	384 x 288	19418	4.850
5,000	320 x 240	27962	5.590
10,000	224 x 168	57065	5.710
15,000	160 x 120	111848	7.460
20,000	128 x 96	174762	8.740
33,000	96 x 72	310689	9.410

Note: Record time is directly proportional to memory size

\*The CDU is patented in the UK, patents pending in other markets

[www.olympus-ims.com](http://www.olympus-ims.com)

**OLYMPUS**<sup>®</sup>

For enquiries contact  
[www.olympus-ims.com/contact-us](http://www.olympus-ims.com/contact-us)

**OLYMPUS CORPORATION**  
Shinjuku Monolith, 3-1 Nishi-Shinjuku2-chome, Shinjuku-ku, Tokyo 163-0914,  
Japan Tel: +81 3-6901-4039

**OLYMPUS INDUSTRIAL SYSTEMS EUROPA**  
Stock Road, Southend on Sea, Essex, SS2 5QH, United Kingdom  
Tel: +44 (0)1702 616333 E-mail: [info@olympusindustrial.eu](mailto:info@olympusindustrial.eu)

**OLYMPUS NDT INC.**  
48 Woerd Avenue, Waltham, MA 02453, USA  
Tel: +1 781-419-3900 E-mail: [info@olympusNDT.com](mailto:info@olympusNDT.com)  
12569 Gulf Freeway, Houston, TX 77034, USA  
Tel: +1 281-922-9300 E-mail: [info@olympusNDT.com](mailto:info@olympusNDT.com)

**OLYMPUS SINGAPORE PTE LTD.**  
491B River Valley Road, #12-01/04 Valley Point Office Tower, 248373,  
Singapore Tel: +65 68-34-00-10

**OLYMPUS AUSTRALIA PTY LTD.**  
31 Gilby Road, Mount Waverly, Victoria, 3149, Australia  
Tel: +61 130-013-2992

OLYMPUS CORPORATION is ISO9001/ISO14001 certified.

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer. All brands are trademarks or registered trademarks of their respective owners.