



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

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

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 μ 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

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

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