OLYMPUS®

Your Vision, Our Future

High Speed, High Quality Imaging

Standard Set

i-SPEED LT camera

Controller Display Unit (CDU)	PC software - Viewer
Power supply	Getting started guide
Composite video cable	CF card adaptor
S-Video cable	Transport case
Mains cable x 3 (UK, USA/Japan, Europe)	Pickle switch

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
1 GB Monochrome	2.24 seconds
2 GB Monochrome	4.50 seconds
4 GB Monochrome	9.00 seconds
1 GB Colour	2.24 seconds
2 GB Colour	4.50 seconds
4 GB Colour	9.00 seconds

Memory upgrade is available between units

Features

Resolution	800 x 600 @ 1,000 fps
Maximum Frame Rate	2,000 fps
Shutter	5 µs
Image Processing	Process images before saving via on board editing suite
Image Manipulation	Zoom/Pan/Select region of interest
Triggering	0-5V TTL, ROC, BROC
Image Storage Formats	AVI/MJPEG
Economy Modes	3 preset, wide, tall, square
Image Storage to CF Card	Uncompressed, compressed
CDU Operation	Supplied as part of standard set
Multiple Memory Options	1 GB, 2 GB, 4GB

Operation

Cameras may be operated as stand-alone units with the patented* CDU

Dimensions	115 mm (W) x 110 mm (H) x 233 mm (L)
Weight	2 kg
Input Voltage	12 V ±10%
Power Consumption	36 W maximum
Mounting	5 x ¼" 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 µs
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

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 ± 10%
Power Consumption	8 W maximum

i-SPEED LT (High Quality) HQ Mode - 1 GB Internal Memory

Frames per Second	Resolution	Frames in Memory	Record Time (s)
60	800 x 600	2236	37.275
100	800 x 600	2236	22.365
150	800 x 600	2236	14.910
200	800 x 600	2236	11.185
300	800 x 600	2236	7.455
400	800 x 600	2236	5.590
500	800 x 600	2236	4.475
1,000	800 x 600	2236	2.235
1,500	672 x 504	3170	2.115
2,000	576 x 432	4315	2.160

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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