



Your Vision, Our Future

i-SPEED TR

Features & Specifications



Standard Set

i-SPEED TR camera

Power supply
Pickle switch

Gigabit Ethernet crossover cable
PC software - Control

Composite video cable
Getting started guide

S-Video cable
CF card adaptor

Mains cable x 3 (UK, USA/Japan, Europe)
Transport case

Controller Display Unit (CDU) is a recommended accessory

Models

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

3125.	
Memory size	Record time at full resolution
4 GB Monochrome	1.2 seconds
8 GB Monochrome	2.4 seconds
16 GB Monochrome	4.9 seconds
4 GB Colour	1.2 seconds
8 GB Colour	2.4 seconds
16 GB Colour	4.9 seconds
Memory upgrade is available between units	

Features

i-FOCUS

Image Processing

Resolution 1280 x 1024 @ 2,000 fps

Maximum Frame Rate 10,000 fps

Shutter 2.16 μ s - automatic electronic individual FPN correction on power up

i-CHEQ Externally visible indicators to confirm camera record status. Positioned on rear of camera

point of focus. Ideal for ease of camera set up

Luminance Histogram For precise illumination and image set up

User Settings Five programmable user settings in camera

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, BROC

Synchronisation Phase lock enables multiple cameras to be

synchronised to one microsecond accuracy

Electronic function to confirm focal depth of lens and

Process images before saving via on board editing

Image Storage Formats Raw bayer/AVI/MJPEG

Security Secure Once powered down, the camera does not retain video

images

Operation

Cameras may be operated as stand-alone units with the patented* CDU or by PC via Gigabit

Ethernet connection (see software sheet)

112 mm (W) x 141 mm (H) x 341 mm (L) Dimensions

Weight 5 kg including battery Input Voltage 14 V -0% to 28 V +5%

Power Consumption Camera 70 W max/System 80 W max 5 x ½" Whitworth threads located on three sides Mounting Battery (optional) Li-lon, 10.8 V, 45 minutes continuous usage

Lens Mounting F-Mount

Image Sensor

Alignment Laser aligned at 90° Custom CMOS Sensor Type Resolution 1280 x 1024

34.423 (diagonal) 21.504 x 26.88 mm Sensor Size

Pixel Size 21 micron Aspect Ratio 5:4

Shutter 2.16 µs (HQ mode)

Bit depth 10 bit

Sensor Sealed unit, no dust ingress ISO Rating (ISO 12232) Mono 5,000/Mono 40,000† Colour 1,600/Colour 12,800[†]

†ISO sensitivity with sensor gains on maximum

Regulatory Compliance

EMC CISPR 22 (BS EN55022) Safety CISPR 24 (BS EN55024) BS EN61010-1 CE 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

Upgrade

Memory upgrade options available

Storage Case

560 mm (W) x 270 mm (H) x 450 mm (L) Dimensions

8.20 kg without contents Weight

CDU

267 mm (W) x 210 mm (H) x 43 mm (L) Dimensions

Weight

Display 8.4" LCD Daylight viewing

Input Voltage $12 V \pm 10\%$ 8 W maximum Power Consumption

i-SPEED TR (High Quality) HQ Mode - 4 GB Internal Memory			
Frames per Second	Resolution	Frames in Memory	Record Time (s)
1	1280 x 1024	2447	2447.000
25	1280 x 1024	2447	97.880
100	1280 x 1024	2447	24.470
150	1280 x 1024	2447	16.313
200	1280 x 1024	2447	12.235
300	1280 x 1024	2447	8.157
400	1280 x 1024	2447	6.118
500	1280 x 1024	2447	4.894
1,000	1280 x 1024	2447	2.447
1,500	1280 x 1024	2447	1.631
2,000	1280 x 1024	2447	1.224
3,000	1068 x 800	3767	1.256
4,000	912 x 684	5159	1.298
5,000	804 x 600	6672	1.334
7,500	636 x 476	10631	1.417
10,000	528 x 396	15390	1.539

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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