

Kirana

924 x 768px / 180 frames
10,000,000 fps



The ultimate High-Speed video camera that combines the flexibility of video technology with the resolution of the ultra high speed framing camera.

Unique hybrid sensor design enables a new breed of camera combining high resolution and high speed in a no compromise design. Full resolution maintained at all speeds.

Up to 11 consecutive events can be captured at a rate of 250ms per event. 2s of video can be stored when operating at 1,000fps.

Kirana-01M

Up to 1 Mfps

Kirana-05M

Up to 5 Mfps

Kirana-10M

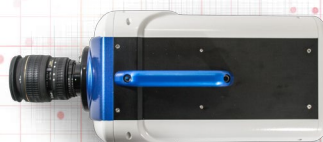
Up to 10 Mfps

Kirana FEATURES

- Up to 10M fps
- Shuttering 100ns
- 924(W) x 768(H)
- 10bits
- 180 frames at all speeds
- 11 consecutive events at a cyclic rate of 250ms per event
- Compact, rugged design
- Gigabit Ethernet

Kirana APPLICATIONS

- Combustion research
- Biological/Microscopy
- Ballistics
- Mechanics
- Cavitation
- Materials research
- Aerospace
- Digital Image Correlation
- PIV



Detailed Specifications

Kirana



MODEL SPEC

	<u>Kirana-01M</u>	<u>Kirana-05M</u>	<u>Kirana-10M</u>
Frame Rate (Frames per Second)	Up to 1 Mfps	Up to 5 Mfps	Up to 10 Mfps
Exposure Time (minimum)	1µs 10ns step	100ns 10ns step	100ns 10ns step

SENSOR

Architecture	µCMOS
Number of Active Pixels	924 (W) x 768 (H)
Pixel Size	30µm
Digitisation	10bits Monochrome
Number of Frames	180 (Continuous 2s at 1,000fps)

OPTICAL

Front Lens mount	Ruggedised Nikon F-mount
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MECHANICAL

Mounting	3/8 BSW (3/8-16) standard tripod mount in base
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OPERATION

Trigger Mode	Start, End, and Center
Saved Image Format	TIFF, JPEG, AVI or RAW

INPUT/OUTPUT SIGNALS

Trigger (2 off)	Electrical signal (BNC connector) Threshold variable from $\pm 25V$ Maximum Input level 50V Positive or Negative polarity, Make/Break 50Ω or 1KΩ termination
Video Out	XVGA
Aux Out	FSync or user programmable pulse width and position TTL into 50Ω
Sync In	Input to allow the synchronisation of multiple cameras.
Camera Interface	Remote control via Standard 1Gbps Ethernet
Software	Custom control software compatible with Microsoft Windows 7
Power Requirements	100-240V AC 2A, 50-60Hz

ENVIRONMENTAL

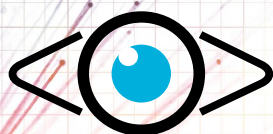
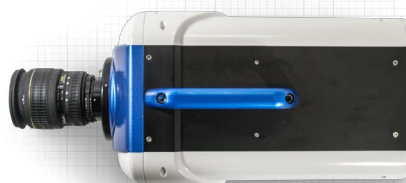
Dimensions	228mm (W) x 192mm (H) x 416mm (D)
Weight	10.5Kg
Storage temperature	-10°C to +50°C
Operating temperature	-5°C to +40°C
Humidity	10—90% RH non condensing
Vibration shock	10—40 Hz Max. 10g in any direction
EMC	Meets all EC harmonised standards



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Specifications subject to change without notice

International Sales +44 (0) 1442 827728 USA & Canada +1 951-296-6406 Web www.specialised-imaging.com