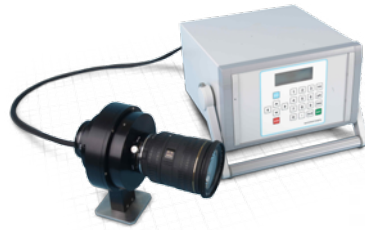


Detailed Specifications

SIL2



INTENSIFIER	SIL40HG50	SIL40NG50	SIL25HG50	SIL25NG50	SIL25HG50-X	SIL25HG50-D
Front Window	Fused Silica	Fused Silica	Fused Silica	Fused Silica	Fused Silica	Quartz
Output Window	Glass	Glass	Glass	Glass	Glass	Glass
Photocathode	S20	S20	S20	S20	S20	UV Enhanced S20
Output Phosphor	FS/10µs decay	FS/10µs decay	FS/10µs decay	FS/10µs decay	P46/300ns	P46/300ns
Input Area (diameter)	40mm	40mm	25mm	25mm	25mm	25mm
Spectral response (minimum)	15mA/W @ 214nm 55mA/W @ 450 nm 17mA/W @ 800 nm	17mA/W @ 214nm 55mA/W @ 450 nm 10mA/W @ 800 nm	15mA/W @ 214nm 48mA/W @ 450 nm 17mA/W @ 800 nm	20mA/W @ 214nm 53mA/W @ 450 nm 17mA/W @ 800 nm	20mA/W @ 214nm 53mA/W @ 450 nm 17mA/W @ 800 nm	20mA/W @ 220nm 53mA/W @ 450 nm 17mA/W @ 800 nm
Radiant Gain (W/W @ 500nm)	100,000	10,000	100,000	10,000	100,000	500,000
Limiting resolution (Typical)	22 lp/mm	30 lp/mm	27 lp/mm	40 lp/mm	27 lp/mm	28 lp/mm
Frame Rate (Max. Fps)	100,000	100,000	100,000	100,000	1,000,000	1,000,000

OPTICAL

Front Lens mount	F-mount
Optical Coupling	F-mount lens fitting

MECHANICAL

Mounting Support	1/4 BSW standard Tripod mount in base Adjustable lens/camera support bars
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TIMING PARAMETERS

System Clock	200MHz, quartz crystal controlled.
Inherent Delay (5ns jitter)	60ns
Exposure Time	50ns—DC in 5ns steps independently variable
Inter Exposure Time	50ns—25ms in 5ns steps independently variable
Number of exposures	Up to 64 in pulsed mode. Unlimited in REP (synchronous) mode

INPUT/OUTPUT SIGNALS

Triggers (2 off)	Electrical signal (BNC connector) Maximum Input level 50V Threshold variable from ± 25V Positive or Negative polarity, Make/Break 50Ω or 1KΩ termination
Local Control Aux Outputs	Local keypad with LCD display Pulse width and position user programmable (min. 5ns) TTL into 50Ω
Control Interface Software	Remote control via Standard 100Mbps Ethernet Custom control software compatible with Microsoft Windows XP and Vista.

ENVIRONMENTAL

Storage temperature	-10°C to +50°C
Operating temperature	-5° to +40°C
Humidity	10 - 90% RH non condensing
Vibration shock	10 - 40Hz Max. 10g in any direction
EMC	Meets all EC harmonized standards



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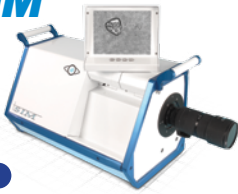
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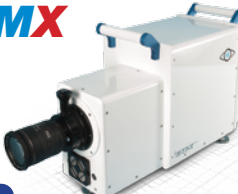
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SIM02



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SIMD



Capable of up to 1 Billion Frames Per Second.

Using ultra high-resolution image intensifiers and no-compromise optical design, takes image quality to the next level.

The ULTIMATE High-Speed Video Camera

Kirana

924 x 768

180 frames

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

Flight Follower System

Tracker²



- Large lightweight SiC mirror
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- Ultra High Precision controls
- Multiple operation modes
- Custom control and analysis software

HR Still Camera / 11mp

SIR3



SIR cameras are designed to withstand the harsh outdoor environment and to provide high reliability and superior image quality.

Scientific CCD Camera

T-Cam



- Up to 4008(H) x 2688(V) 12 bit images
- Shuttering speed down to 1µs
- Comprehensive triggering controls
- Ethernet control

Image Intensifier System

SIL2



- High gain & high resolution image intensifier
- Up to 1,000,000 fps / shuttering down to 50ns
- Suitable for most type of high speed video camera.

Camera Trigger

SI-OT3



- Detection of projectiles >0.7mm diameter
- Interchangeable objective lens to ensure at least 1/20 obscuration of the field of view.

Velocity Trigger System

SI-VT-SYS



- Store 15,000 time intervals
- Capable of capturing 200,000 rounds per minute
- 4 Independent output channels

Laser Illumination System

SI-LUX 640



- Variable Pulse width
- Suitable for Shadowgraph & Schlieren imaging
- Minimises speckle & fringe effects

Multi Head Framing Camera

Cerberus

WORLD FIRST



- 1360 x 1040px
- upto 128 frames
- upto 64 camera heads
- upto 200 Million fps
- 3D Stereo Imaging

High Power Flashes

SI-IF 300



SI-AD 500



UK (Head Office / Factory)

Unit 32, Silk Mill Industrial Estate
Brook Street, Tring, Herts
HP23 5EF England

Tel +44 (0) 1442 827728
Fax +44 (0) 1442 827830

USA

41690 Enterprise Circle North,
Suite 104, Temecula,
California 92590 USA

Tel +1 951-296-6406

Germany

Hauptstr. 10,
82275 Emmering
Germany

Tel +49 8141 666 89 50
Fax +49 8141 666 89 33



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