

VE Infrared Camera

VELOX 65k SM



High speed infrared camera (885 Hz fullframe rate) with very high resolution and extended spectral range, particularly suitable for applications in research and development.

- Mercury cadmium telluride (MCT) FPA detector
- 65 536 (256 × 256) pixels
- Extended spectral range: 1.5 μm to 5 μm (SM)
- 110.6 Mbyte/s data rate (58 Mpixel/s pixel rate)
- 885 Hz fullframe rate
- NETD \leq 10 mK
- Variable windowing with frame rate > 25 kHz
- Camera Link interface
- Filter wheel (optional)
- Gigabit Ethernet interface (optional)
- Motor focus (optional)



IRCAM VELOX[®] 65k SM

Technical Data (Camera)	
Detector type	Mercury cadmium telluride (MCT) FPA
Extended spectral range	1.5 µm to 5 µm (SWIR / MWIR)
Detector size	65 536 (256 x 256) pixels
Pixel pitch	40 µm
Cold stop (F-number)	F/2.0
Data rate	110.6 Mbyte/s (typ.)
Pixel rate	58.0 Mpixel/s (typ.)
Fullframe rate	885 Hz
Integration time range	1 µs – 2.15 ms
NETD	10 mK
Integration mode	snapshot (IWR)
A/D resolution	14 bit
Windowing	Variable (8 x 8 pixel steps)
Frame rate (windowing)	26 kHz (8 x 8); 2,7 kHz (128 x 128), etc.
Stirling cooler lifetime	> 4 000 h guaranteed (> 10 000 h typ.)
Detector temperature	80 K
Dimensions (w/o lens)	240 mm x 120 mm x 150 mm (L x W x H)
Mass (w/o lens)	5 kg
Housing material	Aluminium
Power supply voltage	24 VDC
Power consumption	< 80 W
Operating temperature	0°C to 45°C ambient
Degree of protection	IP 50 (higher on request)
Data Interface	Camera Link (base config., 80 MHz)

Technical Data (Power Supply)	
Input voltage	198 – 264 VAC (115 VAC on request)
Dimensions	192 mm x 109 mm x 54 mm (L x W x H)
Mass	850 g
Cable length	5 m

Options	
Option –F	Filter wheel (4 - 6 positions)
Option –G	Gigabit Ethernet interface (additional)
Option –M	Motor focus

Accessories (optional)	
Infrared lenses: IR M25, IR M50, IR MI00, IR SM25, IR SM50, ...	
Software: IRCAM Works, Genius for Works, Lock-in for Works	
Control unit: IRControl <i>plus</i> , IRControl <i>mobile</i>	
OEM configurations on request	
Transport cases	

Technical Drawings	
front	
rear	
side	
bottom	

Specifications are subject to changes without prior notice.
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