

8KSDI



12G-SDI POV CAMERAS

APPLICATIONS

Sports and Event Broadcasting

Virtual Reality and Visual Effects

Specialty Video Production

Wide Area Surveillance



FEATURES INCLUDE:

- Super 35 Global Shutter CMOS Sensor
- 12G / 6G-SDI Low-Latency Output
- 8K/UHDTV2 Output or Scaled 4K/UHD Output
- Interchangeable F-mount or Active EF-mount
- 10-bit 4:2:2 or RAW Output
- Compact One-Piece Rugged Design
- Synchronize Multiple Cameras via Tri-Level Sync
- Easy to Configure via On Screen Menu

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SPECIFICATIONS

Camera Model	8KSDI
Sensor	ON Semiconductor XGS45000
Output Modes	8K, UHDTV2, 4K, UHD, up to 60 fps
Optical Format	Super 35 (8K/4K: 29.6mm diagonal; UHDTV2/UHD: 28.2mm diagonal)
Sensor Type	CMOS w. global electronic shutter
Sensor Options	Color (Bayer) or Monochrome
Dynamic Range	67.5 dB
Output Interface	Quad-Link 12G/6G-SDI, Single-Link 12G/6G-SDI (HD-BNC connectors)
Output Format	10-bit 4:2:2 (Y'Cb'Cr) or RAW (Bayer)
Exposure Control	Automatic (adjusts exposure, gain and/or iris if available) or manual exposure
Image Enhancement	Gamma (1D LUTs), master pedestal control, denoise filter, detail enhancement filter
Color Control	Auto white balance or calibrated presets, color correction matrix, RGB offsets, saturation control
Synchronization	Tri-level sync input
Camera Configuration	RS-485; use handheld remote for OSD, USB adapter for PC software or direct ASCII protocol
Mechanical/Electrical	
Dimensions	62.0 mm x 62.0 mm x 154.7 mm (WxHxD, with F-mount)
Lens Mount	F-mount or Active Canon EF-mount
Camera Mounting Points	Top/Bottom: 1/4"-20; All sides: 2x M4 x 0.7
Weight	715 g (with F-mount, no lens)
Power Requirements	Approx. 14W @ 12V DC
Operating Temperature	-10°C to 50°C, 20-85% humidity (non-condensing)
Storage Temperature	-40°C to 85°C, 10-90% humidity (non-condensing)

OUTPUT MODES

Quad-Link 12G-SDI:

UHDTV2 10-bit 4:2:2/RAW: 50, 59.94, 60
8K 10-bit 4:2:2/RAW: 50, 59.94, 60

Dual-Link 12G-SDI or Quad-Link 6G-SDI:

UHDTV2 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30
8K 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30

Single-Link 12G-SDI

UHD 10-bit 4:2:2/RAW: 50, 59.94, 60
4K 10-bit 4:2:2/RAW: 50, 59.94, 60

Single-Link 6G-SDI:

UHD 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30
4K 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30

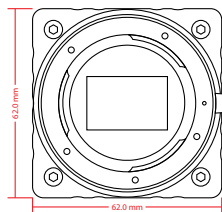
ORDERING

Part Number	Description
8KSDI	Color camera w. OLPF/IR-Cut filter, F-mount
8KSDI-A	Color camera w. OLPF/IR-Cut filter, Active EF-mount
8KMSDI	Monochrome camera, F-mount
VICPWRLIO	AC Power Adapter (Universal) with LEMO for RS485
485HRMT	Handheld remote control w. RS485 interface, for camera control from on-screen display
CABUSB4852M	USB to RS485 adapter cable, 2m, for camera control from PC software
CABLEMO3M	RS485 extension cable (LEMO to LEMO), 3m

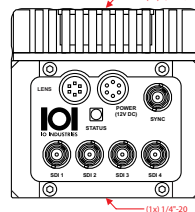
Camera and accessory kits available, ie. 8KSDIKIT-F or 8KSDIKIT-A. Includes camera with selected mount option, VICPWRLIO, 485HRMT and CABUSB4852M.

MECHANICAL DIAGRAMS

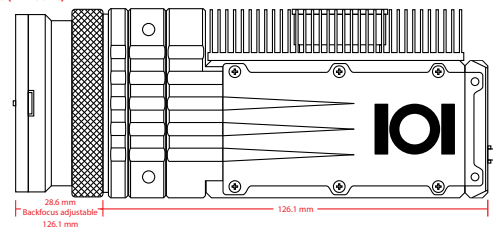
Front (F-Mount)



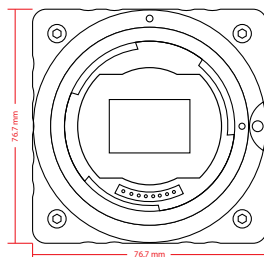
Rear (F-Mount)



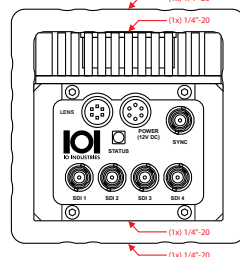
Side (F-Mount)



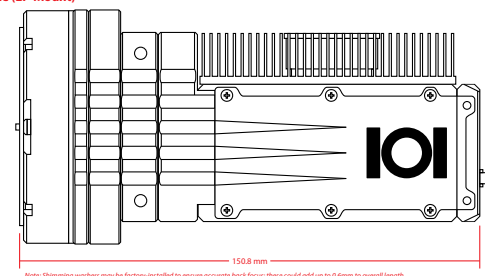
Front (EF-Mount)



Rear (EF-Mount)



Side (EF-Mount)



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