

2KSDI-MINI



3G-SDI POV CAMERAS

APPLICATIONS

Aircraft and Vehicle Recording

Test Range Instrumentation

Specialty Video Production

Security and Surveillance



FEATURES INCLUDE:

- High Quality Sony CMOS Sensors
- Dual 3G/HD-SDI Outputs
- 2K, 1080p, 1080i and 720p up to 60 fps
- C-mount or optional Active EF-mount
- 10-bit 4:2:2, 4:4:4, or RAW Output
- Compact One-Piece Rugged Design
- Synchronize Multiple Cameras via Tri-Level Sync
- Easy to Configure via on Screen Menu



SPECIFICATIONS

Camera Model	2KSDI-Mini	2KSDI-Mini RS
Sensor	Sony Pregius IMX265	Sony Exmor-R IMX183
Output Modes	2K, 1080p, 1080i, 720p, up to 60 fps	2K, 1080p, 1080i, up to 60 fps
Optical Format	1/2" (2K: 8.0mm diagonal, 720p/1080p/1080i: 7.6mm diagonal)	2/3" (2K: 11.1mm diagonal, 1080p: 10.6mm diagonal)
Sensor Type	CMOS w. global electronic shutter	CMOS w. rolling shutter
Sensor Options	Color (Bayer) or monochrome	
Dynamic Range	73.6 dB	72.0 dB
Output Interface	Single-Link 3G/HD-SDI (SMPTE ST 292/424); dual outputs with optional OSD overlay on SDI1	
Output Format	10-bit 4:2:2(Y'Cb'Cr'), 4:4:4 (RGB) 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, adjustable sharpening	
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	33.0 mm x 44.0 mm x 53.7 mm	
Lens Mount	C-mount; optionally supporting Active EF-mount or DC Auto Iris lenses (see Ordering)	
Camera Mounting Points	Top/Sides: 2x M3 x 0.5; Bottom: 4x M3 x 0.5; Tripod mounting plate available (P/N VICMOUNT)	
Weight	140g	
Power Requirements	3.7W, 7-19V DC	
Operating Temperature	-30°C to 65°C, 20-85% humidity (non-condensing)	
Storage Temperature	-40°C to 85°C, 10-90% humidity (non-condensing)	
Operational Shock/Vibration	Tested per MIL-STD-810G Method 516.6, 3-axis Shock 75G and Method 514.6, 3-axis Vibration Cat. 20	

OUTPUT MODES

Single-Link HD-SDI:

720p* 10-bit 4:2:2/RAW: 50, 59.94, 60
 1080i 10-bit 4:2:2/RAW: 50, 59.94, 60
 1080p 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30
 2K 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30

Single-Link 3G-SDI:

1080p 10-bit 4:2:2/RAW: 50, 59.94, 60
 1080p 10-bit 4:4:4: 23.98, 24, 25, 29.97, 30
 2K 10-bit 4:2:2/RAW: 47.95, 48, 50, 59.94, 60
 2K 10-bit 4:4:4: 23.98, 24, 25, 29.97, 30

*Not available for 2KSDIMINIRS or 2KSDIMINIRSD

ORDERING

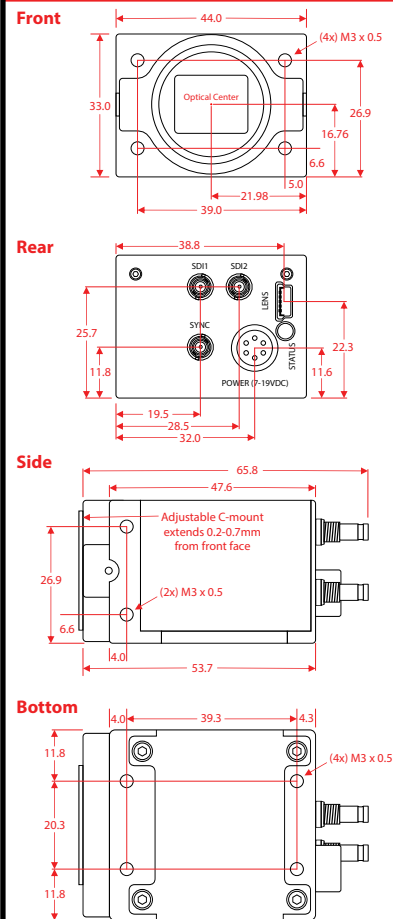
Part Number	Description
2KSDIMINI	Color camera, GS sensor, supports Active EF lens adapter
2KSDIMINIRS	Color camera, RS sensor, supports Active EF lens adapter
2KSDIMINID	Color camera, GS sensor, supports DC Auto Iris lens control
2KSDIMINIRSD	Color camera, RS sensor, supports DC Auto Iris lens control
2KMSDIMINI	Monochrome camera, GS sensor, supports Active EF lens adapter
2KMSDIMINID	Monochrome camera, GS sensor, supports DC Auto Iris lens control
2KMS5DIMINI	Monochrome camera, GS 5.1MP sensor w. adjustable crop position, supports Active EF lens adapter

For a complete camera kit with common accessories, add "KIT" to Part Number, ie. 2KSDIMINIKIT. Includes selected camera, CABVICBATT, ACPWRTAP, 485HRMT, CABUSB4852M, and VICMOUNT.

ACCESSORIES

Part Number	Description
VICPWRLIO	AC Power Adapter (Universal) with LEMO for RS485
CABVICBATT	Battery Power Cable with PowerTap connector and LEMO for RS485
ACPWRTAP	AC Power Adapter (Universal) with PowerTap connector
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
VICLENSMOUNT-A	Lens Mount Adapter, C-mount to Active EF-mount, requires CAB2KMINIAEF
CAB2KMINIAEF	Adapter cable, connects 2KSDI-Mini to VICLENSMOUNT-A
CAB2KMINIDCI	Adapter cable, connects 2KSDI-Mini to DC Auto Iris Lens
VICMOUNT	Tripod Mounting Plate, can be installed on all sides of camera

MECHANICAL DIAGRAMS



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 Specifications subject to change without notice

4KSDI-MINI



12G-SDI POV CAMERAS

APPLICATIONS

Aircraft and Vehicle Recording

Test Range Instrumentation

Specialty Video Production

Security and Surveillance



FEATURES INCLUDE:

- High-quality Sony CMOS Sensors
- 12G / 6G / 3G / HD-SDI Output Formats
- 4K/UHD output or scaled 2K/HD output
- C-mount, Passive MFT-mount or Active EF-mount
- 10-bit 4:2:2, 4:4:4, or RAW Output
- Compact One-Piece Rugged Design
- Synchronize Multiple Cameras via Tri-Level Sync
- Easy to Configure via On Screen Menu



SPECIFICATIONS

Camera Model	4KSDI-Mini	4KSDI-Mini RS
Sensor	Sony Pregius IMX305	Sony Exmor-R IMX183
Output Modes	4K, UHD, 2K, 1080p, up to 60 fps	
Optical Format	4K/2K: 1" (16.0mm diagonal) UHD/1080p: approx. 1" (15.2mm diagonal)	4K/2K: Approx. 2/3" (11.1mm diagonal) UHD/1080p: 2/3" (10.6mm diagonal)
Sensor Type	CMOS w. global electronic shutter	CMOS w. rolling shutter
Sensor Options	Color (Bayer) or Monochrome	
Dynamic Range	73.6 dB	72.0 dB
Output Interface	Single-Link 12G/6G/3G/HD-SDI, Dual-Link 3G-SDI, Quad-Link 3G-SDI (SMPTE ST 292/424/2081/2082)	
Output Format	10-bit 4:2:2(Y'Cb'Cr'), 4:4:4 (RGB) 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, adjustable sharpening	
Color Control	Auto white balance or calibrated presets, 3D LUTs, 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 42.1 mm	
Lens Mount	C-mount (optionally supporting Active EF-Mount or DC Auto Iris lenses) or passive MFT-mount	
Camera Mounting Points	All 4 sides: 1/4"-20 with 2x M4 x 0.7; Front Surface: 4x M4 x 0.7	
Weight	325g (C-mount), 315g (MFT-mount), 550g (C-mount w. Active EF lens adapter attached)	
Power Requirements	7.5W, 7-19V DC	6.5W, 7-19V DC
Operating Temperature	-30°C to 65°C, 20-85% humidity (non-condensing)	
Storage Temperature	-40°C to 85°C, 10-90% humidity (non-condensing)	
Operational Shock/Vibration	Tested per MIL-STD-810G Method 516.6, 3-axis Shock 75G and Method 514.6, 3-axis Vibration Cat. 20	

OUTPUT MODES

Single-Link HD-SDI: 1080p 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30 2K 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30	Single-Link 6G-SDI or Dual-Link 3G-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
Single-Link 3G-SDI: 1080p 10-bit 4:2:2/RAW: 50, 59.94, 60 1080p 10-bit 4:4:4: 23.98, 24, 25, 29.97, 30 2K 10-bit 4:2:2/RAW: 47.95, 48, 50, 59.94, 60 2K 10-bit 4:4:4: 23.98, 24, 25, 29.97, 30	Single-Link 12G-SDI or Quad-Link 3G-SDI: UHD 10-bit 4:2:2/RAW: 50, 59.94, 60 UHD 10-bit 4:4:4: 23.98, 24, 25, 29.97, 30 4K 10-bit 4:2:2/RAW: 47.95, 48, 50, 59.94, 60 4K 10-bit 4:4:4/RAW: 23.98, 24, 25, 29.97, 30

ORDERING

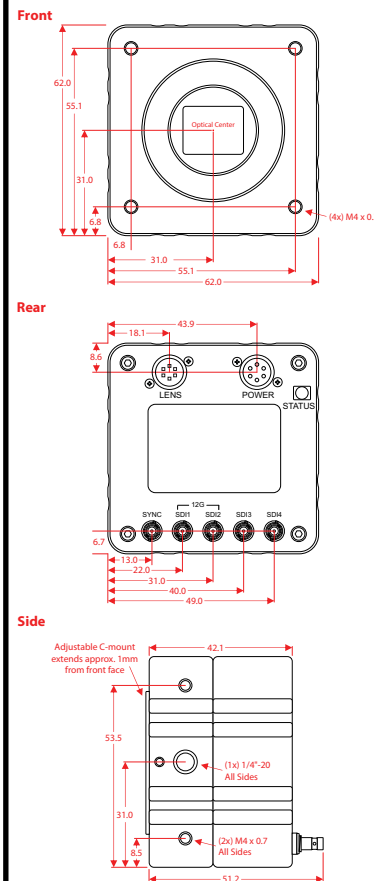
Part Number	Description
4KSDIMINI	Color camera, GS sensor, supports Active EF lens adapter
4KMSDIMINI	Monochrome camera, GS sensor, C-mount, supports Active EF lens adapter
4KSDIMINID	Color camera, GS sensor, supports DC Auto Iris lens control
4KSDIMINI-M	Color camera, GS sensor, MFT-mount
4KSDIMINIRS	Color camera, RS sensor, supports Active EF lens adapter
4KSDIMINIRSD	Color camera, RS sensor, supports DC Auto Iris lens control
4KSDIMINIRS-M	Color camera, RS sensor, MFT-mount

Camera kits available with common accessories included, ie. 4KSDIMINIKIT or 4KSDIMINIKIT-M. Includes selected camera, CABVICBATT, ACPWRTPAP, 485HRMT, 4KMINIHSFAN and CABUSB4852M.

ACCESSORIES

Part Number	Description
VICPWRLIO	AC Power Adapter (Universal) with LEMO for RS485
CABVICBATT	Battery Power Cable with PowerTap connector and LEMO for RS485
ACPWRTPAP	AC Power Adapter (Universal) with PowerTap connector
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
VICLENSMOUNT-A	Lens Mount Adapter, C-mount to Active EF-mount
CAB4KMINIDCI	Adapter cable, connects 4KSDI-Mini to DC Auto Iris Lens
4KMINIHSFAN	Heatsink and Fan Assembly, attaches to back side of camera

MECHANICAL DIAGRAMS



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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

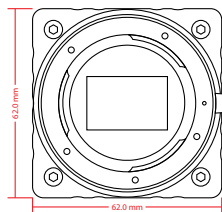
ORDERING

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

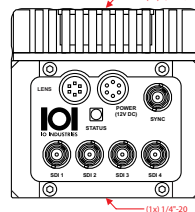
Camera and accessory kits available, ie. 8KSDIKIT-F or 8KSDIKIT-A. Includes camera with selected mount option, VICPWRLIO, 485HRMT and CABUSB4852M.

MECHANICAL DIAGRAMS

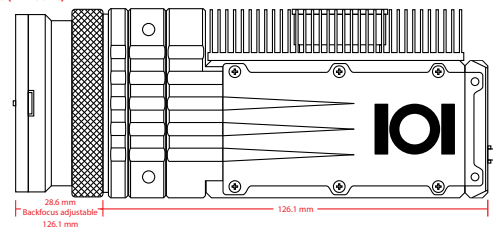
Front (F-Mount)



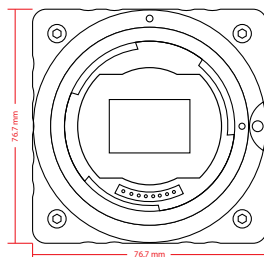
Rear (F-Mount)



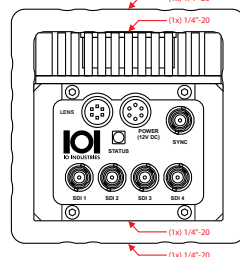
Side (F-Mount)



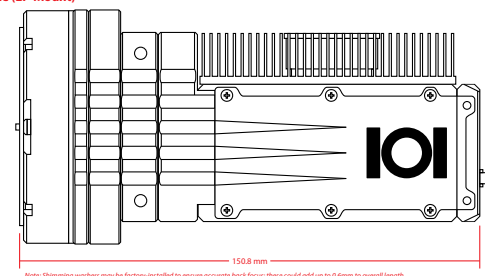
Front (EF-Mount)



Rear (EF-Mount)



Side (EF-Mount)



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