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## 3G-SDI HDR 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



Camera Model	2KSDI-Mini	2KSDI-Mini RS
<b>Sensor</b>	Sony Pregius IMX265	Sony Exmor-R IMX183
<b>Output Modes</b>	2K, 1080p, 1080i, 720p, up to 60 fps	2K, 1080p, 1080i, up to 60 fps
<b>Optical Format</b>	1/2" (2K: 8.0mm diagonal, 720p/1080p/1080i: 7.6mm diagonal)	2/3" (2K: 11.1mm diagonal, 1080p: 10.6mm diagonal)
<b>Sensor Type</b>	CMOS w. global electronic shutter	CMOS w. rolling shutter
<b>Sensor Options</b>	Color (Bayer) or monochrome	
<b>Dynamic Range</b>	73.6 dB	72.0 dB
<b>Output Interface</b>	Single-Link 3G/HD-SDI (SMPTE ST 292/424); dual outputs with optional OSD overlay on SDI1	
<b>Output Format</b>	10-bit 4:2:2(Y'Cb'Cr'), 4:4:4 (RGB) or RAW (Bayer)	
<b>Exposure Control</b>	Automatic (adjusts exposure, gain and/or iris if available) or manual exposure	
<b>Image Enhancement</b>	Gamma (1D LUTs), master pedestal control, adjustable sharpening	
<b>Color Control</b>	Auto white balance or calibrated presets, color correction matrix, RGB offsets, saturation control	
<b>Synchronization</b>	Tri-level sync input	
<b>Camera Configuration</b>	RS-485; use handheld remote for OSD, USB adapter for PC software or direct ASCII protocol	
Mechanical/Electrical		
<b>Dimensions</b>	33.0 mm x 44.0 mm x 53.7 mm	
<b>Lens Mount</b>	C-mount; optionally supporting Active EF-mount or DC Auto Iris lenses (see Ordering)	
<b>Camera Mounting Points</b>	Top/Sides: 2x M3 x 0.5; Bottom: 4x M3 x 0.5; Tripod mounting plate available (P/N VICMOUNT)	
<b>Weight</b>	140g	
<b>Power Requirements</b>	3.7W, 7-19V DC	
<b>Operating Temperature</b>	-30°C to 65°C, 20-85% humidity (non-condensing)	
<b>Storage Temperature</b>	-40°C to 85°C, 10-90% humidity (non-condensing)	
<b>Operational Shock/Vibration</b>	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
2KM5DIMINI	Monochrome camera, GS sensor, supports Active EF lens adapter
2KM5DIMINID	Monochrome camera, GS sensor, supports DC Auto Iris lens control
2KM5SDIMINI	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
CAB2KMINDICI	Adapter cable, connects 2KSDI-Mini to DC Auto Iris Lens
VICMOUNT	Tripod Mounting Plate, can be installed on all sides of camera

## MECHANICAL DIAGRAMS

