

▶ HD Cameras

Rugged Video High Definition Cameras

Cameras designed to meet the rigors of aviation, marine, and military applications

Waterproof Cameras

HD19 3G-SDI 19mm Bullet

HDX 3G-SDI 25mm Bullet

HDZ 3G-SDI Optical Zoom

HD21E Ethernet 21mm Bullet

Interior Cameras

HD29 3G-SDI 29mm Square

HD30 3G-SDI 30mm Low-Profile

OEM Cameras

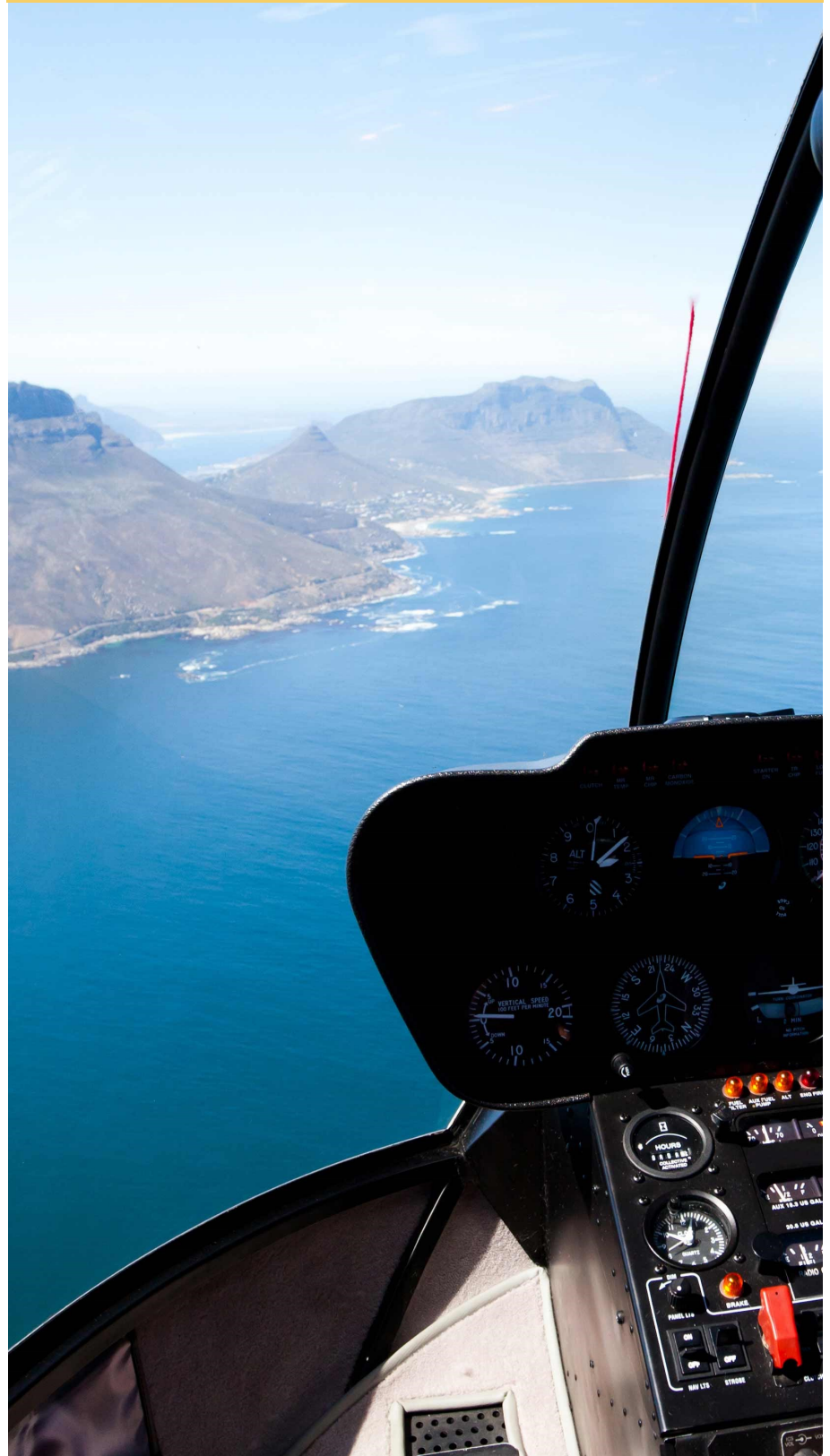
Custom-engineered features, form factor, enclosures, mounting, and environmental testing available

▶ HIGH DEFINITION CAMERAS



- Full 1080p HD
- OSD Menu Control
- RS-485 Configuration API
- Wide Dynamic Range
- Multiple Lens & Cable Options
- SDI, NTSC/PAL, & Ethernet
- Multiple Cable Options
- Compact & Light Weight

▶ FEATURES



RUGGED
VIDEO

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Cedarburg, WI, USA

Specifications

HD19



HD29



HD30



HDX



HDZ



HD21E



CAMERA	HD19	HD29	HD30	HDX	HDZ	HD21E	
Image Sensor	1/3" Sony IMX Starvis	1/2.8" Sony Exmor CMOS	1/3" Sony IMX Starvis	1/3" Panasonic CMOS	1/3" Sony IMX Starvis	1/3" Sony IMX Starvis	
Pixels	1,945 x 1,109 2.16 Megapixel	1,952 x 1,116 2.18 Megapixel	1,945 x 1,109 2.16 Megapixel	1,956 x 1,266 2.48 Megapixel	1,945 x 1,109 2.16 Megapixel	1,945 x 1,109 2.16 Megapixel	
Video Output	3G-SDI HD-SDI NTSC/PAL	3G-SDI HD-SDI	3G-SDI HD-SDI NTSC/PAL	3G-SDI HD-SDI NTSC/PAL	3G-SDI HD-SDI NTSC/PAL	TCP/IP, UDP/IP, DHCP, AUTO IP, JGMP, ICMP, HTTP, UPnP, FTP, SMTP, SNMP, DNX, RTSP, RTMP 128kb to 20Mb/sec	
Output Resolution	1080p60/50 1080i60 1080p30/25 720p60/50 720p30/25	1080p60/50 1080i60/50 1080p30/25 720p60/50 720p30/25	1080p60/50 1080i60 1080p30/25 720p60/50 720p30/25	1080p60/50 1080p30/25 720p60/50 720p30/25	1080p60/50 1080i60 1080p30/25 720p60/50 720p30/25	1080p, 720p, 800x600 704x480, 704x400 640x480, 640x360 320x240 FPS:30,15,10,6.5,3,2,1	
Recording	-	-	-	-	-	Built-In Backup Recording to MicroSD Card	
Min. Illumination	0.01 Lux Color 0.005 Lux B&W (F1.2)	0.2 Lux Color 0.01 Lux B&W (F1.2)	0.01 Lux Color 0.005 Lux B&W (F1.2)	0.5 Lux Color 0.1 Lux B&W 0.02 Lux Sens-up	0.01 Lux Color 0.005 Lux B&W (F1.2)	0.01 Lux Color 0.005 Lux B&W (F1.2)	
Shutter Speed	AUTO/MANUAL 1/30 - 1/50,000	AUTO/MANUAL 1/30 - 1/50,000	AUTO/MANUAL 1/30 - 1/50,000	AUTO 1/60 - 1/50,000	AUTO/MANUAL 1/30 - 1/50,000	AUTO/MANUAL 1/30 - 1/30,000	
Control / Menu Access	Control-in-Cable On-Screen Menu RS485 API	Control-on-Camera On-Screen Menu RS485 API	Control-in-Cable On-Screen Menu RS485 API	Control Plug On-Screen Menu	Zoom/Focus Controller, RS-485 & PELCO-D, Control-in-Cable On-Screen Menu	Built-In Web Server	
Menu Features	White Balance Backlight Wide Dynamic Range Flip, Rotate, Mirror Automatic Gain Day/Night Mode Coloration 2DNR, 3DNR, Defog, Privacy Masking, Sens-Up, Image Enhancements, DIS, cam title	White Balance Backlight Wide Dynamic Range Flip, Rotate, Mirror Automatic Gain Adaptive Color & Contrast Enhancement Day/Night Mode Coloration 2DNR, 3DNR	White Balance Backlight Wide Dynamic Range Flip, Rotate, Mirror Automatic Gain Day/Night Mode Coloration 2DNR, 3DNR, Defog, Privacy Masking, Sens-Up, Image Enhancements, DIS, cam title	White Balance Backlight Wide Dynamic Range Flip, Rotate, Mirror Automatic Gain Adaptive Color & Contrast Enhancement Day/Night Mode Coloration 2DNR, 3DNR	White Balance Backlight Wide Dynamic Range Flip, Rotate, Mirror Automatic Gain Day/Night Mode Coloration 2DNR, 3DNR, Defog, Privacy Masking, Sens-Up, Image Enhancements, DIS, cam title	White Balance Backlight Wide Dynamic Range Flip, Rotate, Mirror Automatic Gain Day/Night Mode Coloration 2DNR, 3DNR, Defog, Privacy Masking, Sens-Up, Image Enhancements, DIS, cam title	White Balance Backlight Wide Dynamic Range Flip, Rotate, Mirror Automatic Gain Day/Night Mode Coloration 2DNR, 3DNR, Defog, Privacy Masking, Sens-Up, Image Enhancements, DIS, cam title
Connectors	SDI - BNC CVBS - BNC POWER - 2.1x5.5 BARREL or HRS-LF OR—All signals thru single Hirose LF	SDI - BNC POWER - MULTI-PIN or HRS-LF	SDI - MMCX / BNC CVBS - BNC POWER - 2.1x5.5 BARREL or HRS-LF OR—All signals thru single Hirose LF	SDI - BNC CVBS - BNC Control - DIN POWER - 2.1x5.5 BARREL or HRS-LF	SDI - TNC CVBS - TNC Control/Pwr-HRS-LF OR—All signals thru single Hirose LF	WATERPROOF RJ45 w/BUILT-IN POE. POWER - 2.1x5.5 BARREL OR HRS-LF	
Power	DC12V +/- 10% Max. 1.6W	DC 12V - 24V Max. 3.3W	DC12V +/- 10% Max. 1.6W	DC12V +/- 10% Max. 1.8W	DC 10 - 32V Max. 1.8W	DC12V or POE Max. 1.6W	
Dimensions/Weight	19mm x 56mm 1.0oz IP67 Rated	29mm x 29mm x 29mm 1.4oz IP67 Rated	29.8mm x 29.8mm x 18.6mm (26.7mm w/ lens) 1.2oz IP61 Rated	25.6mm x 117mm 4.6oz IP67 Rated	47.8mm x 49.5mm x 88mm IP67 Rated	21.5mm x 96.7mm 3.1oz IP67 Rated	
Lens Options (note—some lenses may not fit under waterproof cover)	M12/S-Mount 2.8mm - 128FOV 3.6mm - 105FOV 4.0mm - 95FOV 6.0mm - 60FOV 8.0mm - 40FOV 12mm - 30FOV 16mm - 20FOV 25mm *OTHERS AVAIL.	C/CS-Mount 2.8mm - 123FOV 4.0mm - 86FOV 6.0mm - 60FOV 8.0mm - 45FOV 12mm - 29FOV 16mm - 21FOV *OTHERS AVAIL.	M12/S-Mount 2.8mm - 128FOV 3.6mm - 105FOV 4.0mm - 95FOV 6.0mm - 60FOV 8.0mm - 40FOV 12mm - 30FOV 16mm - 20FOV 25mm *OTHERS AVAIL.	M12/S-Mount 2.8mm - 130FOV 3.6mm - 105FOV 4.0mm - 95FOV 6.0mm - 60FOV 8.0mm - 40FOV 12mm - 30FOV 16mm - 20FOV 25mm *OTHERS AVAIL.	Powered Optical Zoom & Autofocus 2.7mm to 12mm 140FOV to 30FOV	M12/S-Mount 2.8mm - 128FOV 3.6mm - 105FOV 4.0mm - 95FOV 6.0mm - 60FOV 8.0mm - 40FOV 12mm - 30FOV 16mm - 20FOV 25mm *OTHERS AVAIL.	



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