

# Mako

CAMERA  
SERIES



## The 4k programmable mini-camera

### Features

- ▶ 4K standalone camera
- ▶ UHD onboard recording to microSD card
- ▶ SD (NTSC/PAL) video monitor output
- ▶ Programmable intervalometer to create preset recording schedules
- ▶ Dual-band wifi frequency 5.8 G + 2.4 G
- ▶ Download video via USB, wifi or SD card removal
- ▶ 1,000-m- or 6,000-m-rated versions
- ▶ Wide input supply

Technical specifications on reverse.

Arctic Rays specializes in deep-sea lighting and imaging systems and other custom solutions specifically for use on AUVs, ROVs, manned submersibles and other offshore and underwater structures.

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**ARCTIC RAYS**  
SUBSEA TECHNOLOGIES

PARAMETER	SPECIFICATION
Model Number	AR 202
<b>OPTICAL</b>	
Camera Sensor	GitUp F1C; Sony IMX317, 1/2.5" Exmor R
Camera Lens	1.6 mm; f/1.8
Focus	Fixed
Exposure	Fixed iris; auto exposure
Supported Resolutions	3,840x2,160 (4K); 1,920x1,080 (FHD); 1,280x720 (HD)
Max Frame Rates	240 fps (HD); 120 fps (FHD); 30 fps (4K)
Angle of View in Water	Flat port: 80°D; Dome port: 120°D
Scaling Lasers	Optional: two 520 nm green dot lasers, parallel 35 mm spacing
<b>INTERFACE</b>	
Connector	Subconn MCBH8M
Video Outputs	Standard definition composite video (CVBS)
CVBS Format	NTSC or PAL; user-configurable
Onboard Recording	Yes
Onboard Storage	256 GB microSD card; remote file download via USB
Remote Control	RS232
Lighting Control	Remote lighting control available for autonomous units
Lighting Connector	Subconn MCBH8F standard
<b>ELECTRICAL</b>	
Voltage	12–40 VDC standard; 20 V charger for internal battery option
Power	8 W max; 120 W fast charger for internal battery option
<b>MECHANICAL</b>	
Weight	1,000 m: 900 g in air; 350 g in seawater 6,000 m: 1 kg in air; 450 g in seawater
Materials	6061-T6 aluminum housing (AHC black); acrylic (1,000 m) or sapphire (6,000 m) flat viewport
<b>ENVIRONMENTAL</b>	
Depth Rating	1,000 m (3,300 ft) or 6,000 m (19,700 ft)
Temperatures	-5°C to 45°C operating; -20°C to 50°C storage

