

EagleRay

CAMERA
SERIES



The 4K UHD cinema mini-camera

Features

- ▶ Industry-leading 4K UHD image quality based on Blackmagic Design's 4K MFT sensor
- ▶ Superior versatility with the 12–50 mm Olympus zoom lens
- ▶ Short minimum focusing distance allows close-up macro filming
- ▶ Smallest 4K deep-sea cinema camera on the market, allowing cinema-quality footage from compact ROVs and HOVs
- ▶ Coax or fiber-optic output
- ▶ Full lens and camera remote control via RS232 using Windows GUI or EagleRay handbox controller
- ▶ Complete package includes professional Atomos DVR/monitor
- ▶ 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 201
OPTICAL	
Camera Sensor	Blackmagic Design 4K micro-four-thirds (MFT) format
Camera Lens	Olympus 12–50 mm ED, f/3.5–6.3 (wide-tele) standard; other lenses optional
Focus	Manual, one-time AF; 200 mm minimum focus distance
Exposure	Manual, auto iris, auto-shutter, iris priority, shutter priority
Zoom	4.2x optical (12–50 mm MFT, 24–100 mm equivalent)
Dynamic Range	11 stops
Supported Resolutions	3,840x2,160 (4K); 1,920x1,080 (FHD); 1,280x720 (HD)
Max Frame Rates	60 fps (FHD, HD); 30 fps (4K)
Angle of View in Water	Flat port: 60°D; Dome port: 84°D
INTERFACE	
Connector	Subconn 75CXBH6M (6G-SDI output); or OptoLink single + Subconn MCBH6M (fiber optic output)
Video Outputs	6G-SDI coax or single-mode fiber optic with optional converter
Onboard Recording	None
Onboard Storage	None
Remote Control	RS232
PTL Control	Optional: external pan/tilt/lighting control via passthru serial port
PTL Connector	Subconn MCBH4F standard
PTL Standard Pinout	1:GND; 2: +V out; 3: RS232 RX; 4: RS232 TX
ELECTRICAL	
Voltage	10–40 VDC standard; other ranges optional
Power	30 W max
MECHANICAL	
Weight	1,000 m camera: 2.6 kg in air; 600 g in seawater 1,000 m fiber converter: 2.4 kg in air; 430 kg in seawater
Materials	6061-T6 aluminum housing (AHC black) (1,000 m) or grade 5 titanium (6,000 m); acrylic (1,000 m) or sapphire (6,000 m) flat viewport or BK-7 glass dome
ENVIRONMENTAL	
Depth Rating	1,000 m (3,300 ft) standard; 6,000 m (19,700 ft) optional
Temperatures	-5°C to 45°C operating; -20°C to 50°C storage

