

Manta

CAMERA
SERIES



The FHD IP camera with 360x zoom

Features

- ▶ 1080p-FHD-IP or HD-SDI camera
- ▶ 30x optical zoom and 12x digital zoom
- ▶ Local recording to SD card
- ▶ ONVIF profile S compliant
- ▶ External pan/tilt/light connection
- ▶ 1,000m rated
- ▶ Durable, anodized aluminum housing

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

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Technical Specifications

PARAMETER	SPECIFICATION
Model Number	AR 205
OPTICAL	
Camera Sensor	Sony FCB-EV7520A, 1/2.8" Exmor R, back-illuminated CMOS
Camera Lens	4.3 mm (wide) to 129.0mm (tele); f/1.6 to f/4.7
Focus	Auto, manual, one-push AF, interval AF, zoom trigger AF
Exposure	Auto, manual, shutter priority, iris priority, bright, EV compensation, slow AE
Zoom	30x optical, 12x digital (360x combined)
SNR	>50 dB
Supported Resolutions	1,920x1,080 (FHD); 1,280x720 (HD)
Max Frame Rates	30 fps (NTSC), 25 fps (PAL), progressive scan
Angle of View in Water	Flat port: 53°D, 47°H, 28°V; Dome port: 73°D, 64°H, 40°V
Minimum Illumination	0.0015 lux
INTERFACE	
Connector	Subconn DBH13M (Ethernet IP) or Subconn CX75BH6M (HD-SDI)
Video Outputs	Ethernet IP streaming or HD-SDI (coax)
IP Network	10/100 Base-T ethernet
IP Video Latency	<200 ms (glass to glass)
Supported Protocols	TCP/IP, UDP/IP, IPv4/6, RTSP, RTP, RTCP, HTTP, HTTPS, FTP, DHCP, ARP, ONVIF Profile S, Bonjour, Zeroconf, UpnP, built-in configuration webpage
Onboard Recording	Optional: MPEG4 (H.264), MJPEG
Onboard Storage	Optional: 128GB microSD card; remote file download via FTP
Remote Control	Sony VISCA via ethernet TCP/IP or RS232
PTL Control	Optional: external pan/tilt/lighting control via passthru serial port over TCP/IP
PTL Connector	Subconn MCBH4F standard
PTL Standard Pinout	1:GND; 2: +V out; 3: RS232 RX; 4: RS232 TX
ELECTRICAL	
Voltage	10–36 VDC standard; other ranges optional
Power	8 W @ 24 VDC
MECHANICAL	
Weight	1.2 kg (2.7 lbs) in air; 340 g (0.75 lbs) in seawater
Materials	6061-T6 aluminum housing (AHC black) with Delrin bezel; acrylic (flat) or BK7 glass (dome) viewport; other materials optional
ENVIRONMENTAL	
Depth Rating	1,000 m (3,300 ft) standard; other depths optional
Temperatures	-5°C to 50°C operating; -10°C to 60°C storage

