

# Thresher

CAMERA  
SERIES



## The 4k IP camera with onboard recording

### Features

- ▶ High resolution IP camera
- ▶ Up to 4k resolution at 30 fps
- ▶ Ultra-wide-angle, low-distortion lens
- ▶ 8x digital zoom
- ▶ HTTP API control
- ▶ Onvif profile S compliant
- ▶ Onboard recording and remote download
- ▶ Optional scaling lasers
- ▶ 1,000m rated

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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SUBSEA TECHNOLOGIES

# Thresher

## Technical Specifications

PARAMETER	SPECIFICATION
Model Number	AR 208
<b>OPTICAL</b>	
Camera Sensor	Sony IMX226CQJ, 1/1.7" back-illuminated CMOS
Camera Optics	Flat port: 2.7 mm, f/2.8, low-distortion, wide-angle rectilinear (<2%TV) Dome port: 3.6 mm, f/2.8, rectilinear
Supported Resolutions	4,000x3,000 (12 MP); 3,840x2,160 (4K); 1,920x1,080 (FHD); 1,280x1,024 (SXGA); 1,280x720 (HD); 704x480 (4CIF); 640x480 (SD); 352x288 (CIF)
Zoom	8x digital
Max Frame Rate	30 fps (NTSC), 25 fps (PAL), 20 fps (12M); progressive scan
Angle of View	Flat port: 77°D, 73°H, 53°; Dome port: 97°D, 89°H, 58°V
Video Formats	H.264, H265, MJPEG
Minimum Illumination	0.01 lux (color)
Scaling Lasers	Four 520 nm green dot lasers, class II (<1mW each) at 45 mm spacing; optional on flat-port models only
<b>INTERFACE</b>	
Storage	128GB microSD card; remote download via FTP
Standard Pinout	Main: MCBH8M                      3: Video GND                      6: Eth TX+ 1: GND                                      4: Video out                      7: Eth RX- 2: + Vin                                      5: Eth TX-                      8: Eth RX+
Connector	MCBH8M; other connectors optional
IP Video Latency	<200 ms glass-to-glass
CVBS Output	Standard definition composite video, NTSC or PAL format, no latency
Network	10/100 base-T ethernet
Supported Protocols	TCP/IP, UDP/IP, IPv4/6, RTSP, RTP, RTCP, HTTP, HTTPS, FTP, DHCP, ARP, ONVIF Profile S, Bonjour, Zeroconf, UpnP, built-in webpage
<b>ELECTRICAL</b>	
Voltage	9–36 VDC standard; 18–75 VDC optional
Power	4–8W, depending on settings
<b>ENVIRONMENTAL</b>	
Depth Rating	1,000 m (3,300 ft); other depths optional
Temperatures	0°C to 45°C operating; -10°C to 60°C storage
<b>MECHANICAL</b>	
Dimensions	Flat port: 2.5 in (63 mm) diameter x 3.6 in (90 mm) length Dome port: 2.5 in (63 mm) diameter x 3.9 in (100 mm) length
Weight	Flat port with lasers: 470 g in air; 170 g in seawater Dome port: 480 g in air; 180 g in seawater
Housing Materials	6061-T6 AHC black hard-anodized aluminum, acrylic flat viewport or BK7 glass dome viewport, black Delrin bezel; other materials optional

