TELEDYNE Raymarine

CAM400

HD mini day / night IP marine camera

The CAM400 is a rugged fixed-mount marine IP camera for above-deck and below-deck monitoring applications, designed for seamless integration with Raymarine Axiom or Axiom 2 chartplotters. It can be deployed as a standalone camera or as part of a multi-camera system, supporting flexible monitoring and viewing across connected displays and networked devices.

Use CAM400 to assist with close-quarters maneuvering, monitor blind spots, check on crew and passengers, or enhance onboard security. With integrated infrared illumination, CAM400 provides dependable image performance in daylight, low light and nighttime.

CAM400 KEY FEATURES

- High-definition marine IP camera for Raymarine Axiom systems.
- Optimized for docking, onboard monitoring and security applications.
- Enhanced situational awareness;* pair with a Raymarine AR200 sensor to unlock augmented reality on your Axiom display.
- Overlay AIS targets, waypoints and chart details directly onto the live video image.
- Integrated infrared illumination for low-light and night-time awareness.
- Flexible installation options with Power over Ethernet (PoE) or 12 V DC.
- Multi-stream video support for integration with onboard systems.
- Image flip and invert functions for ball-up and ball-down mounting.
- Compact, low-profile design for discreet installation.
- Rugged, marine-grade construction for above-deck environments.

* Availability of AR features requires a CAM400 and Axiom display on the same RayNet (Ethernet) network, an AR200 connected to the same SeaTalk NG network as the Axiom, and LightHouse 4 or LightHouse 5 software version 4.11.133 or later running on the Axiom display.

TECHNICAL SPECIFICATIONS

PHYSICAL	CAM400	AR200
Height:	80.80 mm (3.18 in.) (incl. base)	26.61 mm (1.05 in.)
Width:	64.50 mm (2.54 in.)	108.48 mm (4.27 in.)
Depth:	70.48 mm (2.77 in.) (incl. lens)	N/A
Weight:	420 g (0.926 lbs.)	129 g (4.55 oz.)
POWER		
Nominal supply voltage:	12 V DC	12 V dc (supplied by the SeaTalk NG network)
Power over Ethernet standard:	IEEE 802.af (Type 1) Class 2.	N/A
Power consumption:	2.1 W Nominal @ 12 V DC 5 W Maximum (LEDs on)	50 mA maximum
Current:	<420 mA (Maximum) @ 12 V DC	<420 mA (Maximum) @ 12 V DC
IMAGE SENSOR		
Sensor size:	1/2.8” CMOS	N/A
Total pixels:	2.07 Million pixels	N/A
Field of View:	129.4° HFOV / 69.9°VFOV / 153.6° DFOV	N/A
LED illumination:	850 nm Infrared: 10 meter (33 ft.) range	N/A
VIDEO		
Resolution:	1920 (Horizontal) x 1080 (Vertical)	N/A
Video streaming:	Stream 1: H.264 / MJPEG, Stream 2: H.264 / MJPEG, Stream 3: MJPEG	N/A
Frame Rate:	Adjustable, 1-30 FPS	N/A
Bit Rate:	VBR: 256Kbps to 12.3Mbps / CBR: 32Kbps to 12.3Mbps	N/A
ONVIF:	Profile S	N/A
AHRS		
AHRS sensors:	N/A	3-Axis digital accelerometer 3-Axis digital compass 3-Axis MEMS Gyro digital angular rate sensor
Magnetic compass accuracy:	N/A	Static = ≤1° RMS; Dynamic = ≤3° RMS
Pitch, Roll, and Yaw accuracy:	N/A	≤1°
Heading, Pitch, Roll, and Rate-of-Turn update rate:	N/A	10 Hz
ENVIRONMENTAL		
Operating temperature range:	-20 °C to +60 °C (-4 °F to 140 °F)	-25 °C to +55 °C (-13 °F to 131 °F)
Storage temperature range:	-30 °C to +70 °C (-22 °F to 158 °F)	-25 °C to +70 °C (-13 °F to 158 °F)
Relative humidity:	Up to 95% @ 60 °C (140 °F)	93%
Water ingress protection:	IPx6, IPx7	IPx6, IPx7

For further information go to our website: **www.raymarine.com**

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