

Manta Network's MantaCam™ is the world's first underwater camera that is able to be controlled at depths of up to 90 feet from anywhere on the globe over the Internet. The IP camera and underwater housing has been specially designed for the Continuous Video Monitoring Program.

MantaCams with fiber-optic cables as long as 20 kilometers can be connected to the Internet on shore or attached to a research vessel. The fiber and power cables are wet-mateable, making underwater connections and camera removal possible. With on-board motion detection, the camera will automatically wake up when a manta ray or other marine creature swims by.

The UWIP MantaCam uses a Sony Pan-Zoom-Tilt camera that was originally designed for professional video surveillance and security applications. The camera produces high resolution, low-light, color video and has a high-precision pan-tilt mounting with an 18x optical zoom lens. Low-light sensitivity makes night recording possible. Multiple viewers can access a single MantaCam.

MantaCams produce real-time video using an embedded MPEG4 encoder. Individual images can also be captured from the real-time video stream.

The MantaCam has an Internet server built in which is connected to a high-speed Ethernet network using a fiber-optic cable. It uses standard Internet protocols for command, control and video delivery and is addressable from anywhere that Internet is available.

When motion is detected, an image is captured and an alert can be sent via email to announce the presence of underwater activity. The MantaCam can be programmed to record selected time intervals and with various camera recording paths. Bi-directional audio is fully supported making possible an optional real-time DSP hydrophone array that can be used to record sound and indicate direction.

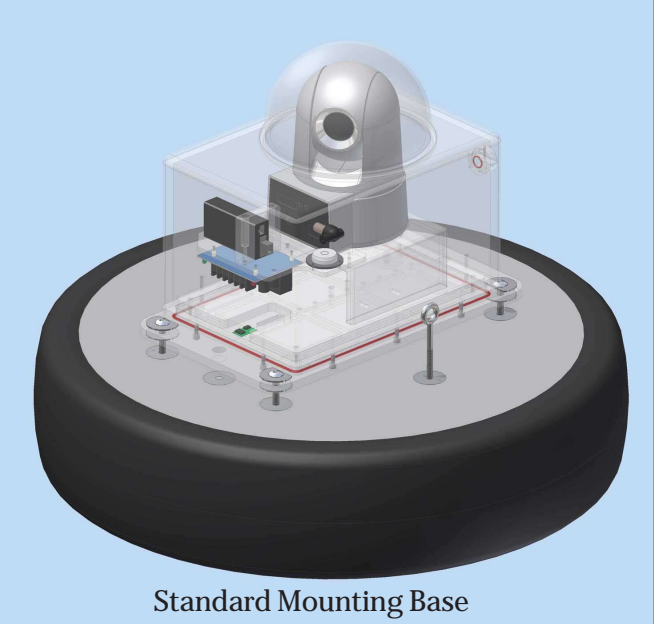
In addition to research on manta rays, the UWIP MantaCam can monitor other marine and freshwater species and can be used in a variety of security/monitoring applications in almost any situation including high-humidity or harsh environments.

UWIP MantaCam Systems can be purchased or leased. Custom housings, multi-camera systems, installation and maintenance contacts are also available. Please contact Robert Aston at robert@mantas.org for more information and pricing.

The UWIP MantaCam is the world's most advanced underwater IP camera. The specially designed housing can be attached to a variety of ocean floor mountings using a tamper-resistant locking system.

Features

- 60% spherical acrylic dome specially designed to maximize the camera's optics (glass domes are also available)
- Maximum operational depth is 90 feet
- Fiber-optic cable lengths up to 3 kilometers can be deployed
- Built-in Web server connects via 10--100Tbase
- The housing uses underwater-mateable fiber-optic and power connectors
- Internal moisture detection system to alert the first sign of leakage
- Special anti-theft, tamper-resistant locking system with leveling device



Standard Mounting Base

Features

- Internet Protocol connection with secure network connectivity
 - Pan, Tilt, Zoom point and click control, software controlled motorized camera
 - Zoom up to 18X optical and 10x digital zoom
 - High quality MPEG4 video compression for network transmission.
- Operating temperature 5-40°C, 5-95% humidity

Camera Specifications



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Custom Underwater Housings for Cameras and Instruments

MANTACAM™ Specifications