

Ocean Presence Technologies



The AquariCam® OPT-12HD delivers HDTV performance in compliance with the SMPTE standard for installations that demand the highest resolution, perfect focus, good color representation and full frame rate. It delivers HDTV 1080p or 720p resolution, 16:9 aspect ratio and supports both H.264 and Motion JPEG in full frame rates. The 3 megapixel imager can deliver 2048 by 1535 video at 20 frames per second. Thousands of visitors can simultaneously view the full high-definition live video stream.

The OPT-12HD has 10x optical zoom, 12x digital zoom and autofocus and can provide the desired field of view immediately, in perfect focus. A built-in SDHC card slot enables local storage for several days of recordings, without any external equipment.

The AquariCam-HD can cover a wide 50-degrees of monitoring area with great efficiency. Electronic pan, tilt and zoom are available within the field of view. Cameras are connected using a single hPoE (High-Power-over-Ethernet, IEEE802.3at compliant) marine-rated cable.

Our unique Double-Bore™ sealing system employs two concentric o-rings for double protection. Pairs of sealing o-rings protect the housing from boring marine organisms.

It was designed for public aquariums, especially for use in small tanks. With a depth rating of 180 feet (55 meters), the OPT-12HD can be confidently deployed in the open ocean.

The OPT-12HD is our most affordable high-definition underwater camera system. For more information on this and our other HD-IP cameras, please visit www.oceanpresence.com or email: Robert.Aston@oceanpresence.com.

OPT-12HD AquariCam Features

- Housing: Double-Bore seals, acrylic flat port, 6.125" dia. by 10" long (not including bulkhead connector)
- Resolutions: 3 MP Mode 2048 x 1536
HDTV 1080p 1920 x 1080
HDTV 720p 1280 x 720
- Zoom ratio: 10x optical and 12x digital, total 120x
- Lens: Varifocal 4-10 mm: 61° - 29° view*, F1.8, P-Iris; auto day/night IR filter, auto focus w/near focus limit 10mm (wide) or 800mm (tele)
Angle of view, horizontal f5.1-51mm
- Max. operational depth: 180 feet (55 meters)
- Near focus limit: 10mm (wide) or 800mm (tele)
- Angle of view:, horizontal: 5.4° - 50° M37x0.
75 mounting thread for lens adaptor
- Image device: 1/3" Progressive scan CMOS 2 Megapixels
- Min. illumination: Color: 0.6 lux, B/W: 0.08 lux, F1.8
- Video streaming: Multi-stream H.264 & Motion JPEG: simultaneous
- Image settings: compression, brightness, sharpness, white balance, exposure control, backlight compensation, rotation, mirroring, text/image overlay
- Frame rate: 30/25 fps in all HDTV resolutions
20 fps @ 3 megapixels
- Audio : Two-way, half duplex, built-in microphone external microphone line input, line output
- Local storage: SD/SDHC memory card slot, 32 GB max.
- Underwater cables: max. 328 feet (100 meters)
PoE cable w/wet mating
- Power: 12 V DC max 4-5 W
Power over Ethernet (IEEE 802.3af Class 3)
- Operating temperature: 0-45 °C (32-113 °F)
- Weight: 9.5 lbs (4.3 kg) in air,
slightly negative buoyant in saltwater

AquariCam™ Specifications