

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 with a 16:9 aspect ratio and supports both H.264 and Motion JPEG in full frame rates.

The OPT-12HD offers outstanding light sensitivity, It optimizes the video for extreme levels of detail even in low-light and dark environments. Delivering HDTV 1080p video up to 50/60 fps with reduced noise and motion blur, the camera captures moving objects even in high-pace environments.

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 112-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 High-Power-over-Ethernet compliant (hPoE) 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 both public aquariums or open waters and can be deployed to a depth of 180 feet (55 meters).

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

OPT-12HD AquariCam Features

- Housing: Double-Bore seals, acrylic flat port, 6.125" dia. by 10" long (not including bulkhead connector)
- Resolutions: HDTV 1080p 1920 x 1080
- Frame rate: 50/60 fps (w/o WDR)
- Zoom ratio: 10x optical and 12x digital, total 120x
- Lens: IR corrected, P-Iris Varifocal 2.8-8 mm, F1.3, auto focus w/near focus limit 10mm (wide) or 800mm (tele)
- Max. operational depth: 180 feet (55 meters)
- Near focus limit: 10mm (wide) or 800mm (tele)
- Angle of view: Horizontal field of view: 112°-39°
Vertical field of view: 58°-21°
- Image device: Progressive scan RGB CMOS 1/2.8"
- Min. illumination: Color: 0.22 lux, B/W: 0.02 lux, F1.3
- 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
- Audio : Two-way, half duplex, built-in microphone external microphone line input, line output
- Local storage: SD/SDHC memory card slot, 64 GB max.
- Underwater cables: Max. 328 feet (100 meters) PoE cable w/wet mating
- Power: 8-28 V DC, max 7.3 W, typical 4.2 W Power over Ethernet (IEEE 802.3af Class 3)
- Operating temp: 0 °C to 55 °C (32 °F to 131 °F)
- Weight: 9.5 lbs (4.3 kg) in air, slightly negative buoyant in saltwater
- Warranty: 3-Year camera warranty

AquariCam™ Specifications