

# Ocean Presence Technologies



The OceanCam® OPT-12UHD delivers 4K performance with 30 frames per second for installations that demand the highest resolution, perfect focus, good color representation and full frame rate. It delivers UHDTV with a 16:9 aspect ratio and supports both H.264 and Motion JPEG in full frame rates.

The OPT-12UHD also offers outstanding light sensitivity. It optimizes the video for extreme levels of detail even in low-light and dark environments. Additional models can deliver HDTV 1080p video up to 50/60 fps and 720p video with an impressive 120 frames per second. The camera captures sharp moving objects with reduced noise and motion blur even in high-pace environments.

The OPT-12UHD 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 OceanCam 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 include a 100-foot Power-over-Ethernet compliant (hPoE) marine-rated cable. Rugged underwater cables up to 300 feet are also available.

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).

For more information on this and our other HD-IP cameras, please visit our website: [www.oceanpresence.com](http://www.oceanpresence.com) or Email: [oceanpresence@gmail.com](mailto:oceanpresence@gmail.com).

## OPT-12UHD OceanCam Features

- Housing: Double-Bore seals, acrylic flat port, 6.125" dia. by 10" long (not including bulkhead connector)
- Resolutions: 4K UHDTV 3840 x 2160 (8.4 MP)  
HDTV 1080p 1920 x 1080
- Frame rates: 25/30 fps @ 4K UHD  
50/60 fps @ 1080p (w/o WDR)  
120 fps @ 720p
- 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 (optional): Omnidirectional hydrophone 0.020-45 kHz
- 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

**OceanCam™ Specifications**