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## Full High-Definition Underwater Camera

July 28, 2010, Ocean Presence Technologies (OPT), Santa Cruz, California is proud to announce a new addition to its line-up of high-definition underwater cameras. The AquariCam® OPT-12HD complements the OceanCam-HD and the AquariCam-HD pan-tilt-zoom models. This new Full HD fixed lens camera provides the highest resolution available with a wide fixed lens and up to 120x optical/digital zoom. The OPT-12HD transmits H.264 compressed 1080i video with bi-directional audio. Thousands of visitors can simultaneously view the full high-definition live video stream.



Building on the proven reliability of our other underwater cameras, the OPT-12HD delivers Full HD video with an excellent 16:9 picture quality at 30 fps. The Internet-ready HD camera supports H.264 and Motion-JPEG compression. The imaging system uses a HD-CMOS with approximately 2 million effective pixels.

The AquariCam-HD can cover a wide 50-degrees of monitoring area with great efficiency. It features a 10x optical with an additional 12x digital zoom. Using digital zoom with standard definition video cameras generally degrades image quality.

High-definition image sensors now make digital zooming practical without significant image quality loss.

The OPT-12HD was designed for public aquariums, especially for use in small tanks. 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. Although initially designed for shallow water applications, the OPT-12HD can be confidently deployed in the ocean and has a depth rating of 180 feet (55 meters). Solar-powered wireless networks enable remote deployments with up to a ten-mile range. Underwater lighting, floating battery packs and wave generator power systems are also available.

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](http://www.oceanpresence.com) or email: [Robert.Aston@oceanpresence.com](mailto:Robert.Aston@oceanpresence.com).

## Ocean Presence Technologies

OPT designs and manufactures a full product line of high and standard definition underwater IP video equipment. Both fixed lens and pan-tilt-zoom models are available. Products include: SD/HD fixed and pan-tilt-zoom IP cameras, underwater lighting, remote power systems, data recorders and wireless network components. Originally designed for research with manta rays, the OceanCam is now being employed in research, education, security and other commercial oceanographic applications. Its products are sold through international distributors and through direct sales staff at the Santa Cruz, California facility.