



HI DEFINITION UNDERSEA POE IP CAMERA ... ENABLED

This OEM setup allows a PoE IP Camera to operate up to 1.13 Miles / 1.83km via a submersible tether and seafloor crawling robot. Ideal for deep ocean exploration and precise visibility for sensitive operations.

The challenge was to take an off the shelf Ethernet Extender and redesign the CPE to fit into a specified cored aluminum cylinder to support a High Definition PoE IP camera. LAN data and Power Over Ethernet needed to be delivered inside the sealed tube to a cylindrical CPE that had ample cooling for

the closed ventilation environment. Connectivity was engineered to be provided through a thick pressure sealed tether to the robot and to the surface vessel. This particular design leveraged power from the robot for the PoE locally to increase depth from the surface to 1.13 miles or 1.83km.



Robotic Seafloor Crawler
HiDef PoE IP Camera powered from within the robot umbilical and Ethernet driven from the surface vessel.



ROV ENABLED



ROV Applications are increasingly being expanded for a variety of purposes such as security (waterways, ports, and ships), offshore exploration (drilling, mining, research), and aquatic farming/ fisheries.



865 PoE+ Extender Kit

Ideal Application for Underwater ROV systems

Weather tethered ROV (Remotely Operated Vehicle) or fully robotic ROV that needs tethered LAN / LAN PoE devices, the Enable-IT team of Ethernet Extension Experts has delivered cost effective alternative solutions that exceed current deployment capabilities for exploration, recovery or rescue missions.

Our engineering team has focused on key principals in innovation, ruggedizing, miniaturizing and delivering affordable value in these challenging endeavors for our customers. Enable-IT is the world's leading resource for PoE and Ethernet Extension and has

developed unique undersea and waterproof solutions for a range of aquatic suited solutions for deep ranging tethered sonar, ROV and submersibles.

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Sealed,
Secure Subsea
connections



Key Features:

- * Extended Ethernet over 1-pair copper wiring (Twisted Pair CAT rated, Telephone wire or Coax).
- * Rapid LAN style installation - Plug and Go
No programming required.
- * Engineered for tight spaces, no ventilation and low power.
- * Sustained full-duplex service delivery end to end.
- * Power over Ethernet (PoE) native support built in and kits available for High Power PoE capabilities up to 2,500ft.

For your custom application needs - Contact Kelly Alexander

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