



The Captioning Solutions Company

HD VIDEO FOR UNDERWATER RESEARCH BY ROPOS SUBMERSIBLE FACILITY RELIES ON EEG HD480 SMART ENCODER V

*EEG Encoder Helps Provide Valuable Mission Information to Scientists
Using Remotely Operated Vehicle for Ocean Science Study*

FARMINGDALE, NY: For research missions that take place down to 5,000 meters below the water's surface, every component is a critical part of the chain. Every time they dive, the high-stakes journeys of ROPOS (Remotely Operated Platform for Ocean Sciences) are supported by the extreme expertise of its crew and the equipment they specify.

When scientists view the groundbreaking HD video they gather from each dive, they depend on the HD480 Smart Encoder V from EEG to help provide them with data invaluable to their academic and scientific research. Overseen by the Canadian Scientific Submersible Facility (CSSF), the ROPOS and its ROV (Remotely Operated Vehicle) notched 7 expeditions, 114 days offshore, and 106 dives in 2010 alone, performing critical maintenance on underwater observatories, helping with environmental protection, studying biodiversity, coral gardens, geothermal vents, and much more.

With HD video capturing every second of the underwater views, a dependable method for embedding navigation data and UTC time information onto the recorded video was needed. The solution: ROPOS turned to the EEG HD 480 to display that data on the closed captioning field of the HD-SDI stream, without hindering the quality of the video.

“The EEG HD480 was the ideal fit for our offshore recording system, which we use to produce high quality HD video for ROPOS users,” says Vincent Auger, Assistant Manager, Information Technologies for ROPOS. “The navigation information we place in the CC field allows scientists to know immediately where the sub was located at any point during the dive.”

On each mission, a redundant pair of EEG HD480s is part of a mobile lab that operates on the ship that is deploying ROPOS. For the ROPOS team, the extreme reliability of the HD480 has made it a welcome addition to the team. “We rely on every piece of equipment when going offshore,” Auger says. “Like everything else in our lab, the HD480 simply has to work every time. It would be a lot of work to figure out where you were in a mission without the data – including latitude, longitude, depth, date/time, and dive number – that it embeds into the CC field.”

The HD480 Smart Encoder V is EEG's next-generation digital closed captioning solution, providing real-time HD encoding and including a built-in monitoring decoder. In addition to local input of caption data, the HD480 supports remote data input through a dial-up modem or iCap IP-based Realtime Captioning software.

As ROPOS uncovers essential new information about the world's oceans, the EEG HD480 Smart Encoder V is one part of a deployment that always maintains a pioneering spirit. "There's no comparison for what we experience when we get out on the water," Vincent Auger says. "Scientists are extremely passionate people. To be right there with them when they make a discovery is an amazing feeling."

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About EEG:

EEG is an industry leader in HD workflow. Based in Farmingdale, NY, EEG's reputation for innovation in closed captioning has led to a host of advanced new tools for broadcasters, content providers, and post production. Today EEG's hardware and software drives closed captioning, quality control, affiliate communications, VANC monitoring, AFD, and more. The company is also striving to lead the way in efficient Eco Friendly designs. With over 25 years of experience, EEG's customer base includes an overwhelming majority of the cable and terrestrial networks, local broadcast stations and post facilities in North America. As the distribution of video and information becomes increasingly complex, the solution for streamlining is EEG.

For more information, please visit www.eegent.com.

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