

HD Diver Cameras and Dive Monitoring

For safer diving and high definition underwater video inspection



COMMERCIAL DIVE SYSTEM PRODUCTS

Key Features and Benefits:

- **Enhancing Diver Safety**
- **Superior imaging in challenging conditions with low light colour performance and wide dynamic range**
- **Transmits signals over one standard twisted pair in the umbilical up to 600m+**
- **Integral 9W dimmable LED main light**
- **Emergency battery operated LED light**
- **Integral Depth Sensor 90msw or 350msw**
- **Connect Bailout Bottle Pressure Sensor**
- **Wet-connect second hand-held camera with light to the same umbilical**



Product Overview

Fathom Systems HD Diver Video Camera brilliantly solves the problem of sending digital HD video, interference free, over long umbilicals without using fibre or special cable types. Needing only two umbilical wires for power and data, fNETp delivers live video pictures with the diver's voice comms over standard Ethernet networks. Video can then be recorded anywhere on the network but is also continuously recorded locally in the camera.

Integral sensors measure diver's depth plus a Fathom bailout bottle pressure sensor may be added so the supervisor can also be alerted to any unexpected change in pressure of the diver's emergency breathing gas cylinder.

For added diver safety, an independent battery powered emergency LED light automatically activates should power be lost to the HD camera and high intensity dimmable main LED.

Safer Diving:

Diver's depth is monitored by an integral sensor with data transmitted continuously to the surface over the same 2-wire link as the HD video.

A high intensity, dimmable LED light is integrated in the diver's camera and an independent battery - powered emergency light activates automatically upon loss of main power to the camera.

A Fathom bailout bottle pressure sensor interface is provided to enable the supervisors' monitoring of the diver's emergency breathing gas cylinder.

Control & Display Software:

The cameras are supplied with a software suite that runs on standard Windows PCs.

This software allows any cameras in your system to be controlled for light intensity or overlay settings and allows you to display multiple cameras in separate windows up to full HD size.

The software also supports video recording of camera streams and by using an Audio Bridge module, diver communications are recorded alongside the camera video.

Multiple PCs can view camera pictures at the same time with only the Dive Supervisor controlling each camera.

Close Inspection:

Wet-connect a second hand-held camera and light, sharing the same fNETp umbilical.



Run Fathom applications on PC:

- Control cameras, View & Record HD Video and Audio
- Optional Diver Monitoring System (DMS) add-on option available that complies with NORSOK requirements to record and display the diver exposure data continuously for all divers and includes black box recording.



Camera Control Unit (CCU) hosts sensors for complete Diver Monitoring System:

Each CCU includes the capability to support two umbilicals with two cameras per umbilical and has further topside signal inputs for Fathom DMS expansion:



- 2x fNETp umbilical connections for two cameras each
- 5 x analogue inputs for additional DMS monitoring:
- Primary and backup gas banks
- Diver's breathing gas supply pressures
- Pnemo Depth pressure sensing
- Diver hot water temperature
- iNET connected Fathom O2 and CO2 analysers