

DTS-6 Deep Sea Telemetry



Deck unit

- ▶ Input power supply 85 – 265Vac
- ▶ Sea cable output 365Vdc up to 500W
optional adjustable up to 600 Vdc (1,2kW max)
- ▶ Network interface LAN/Ethernet RJ45



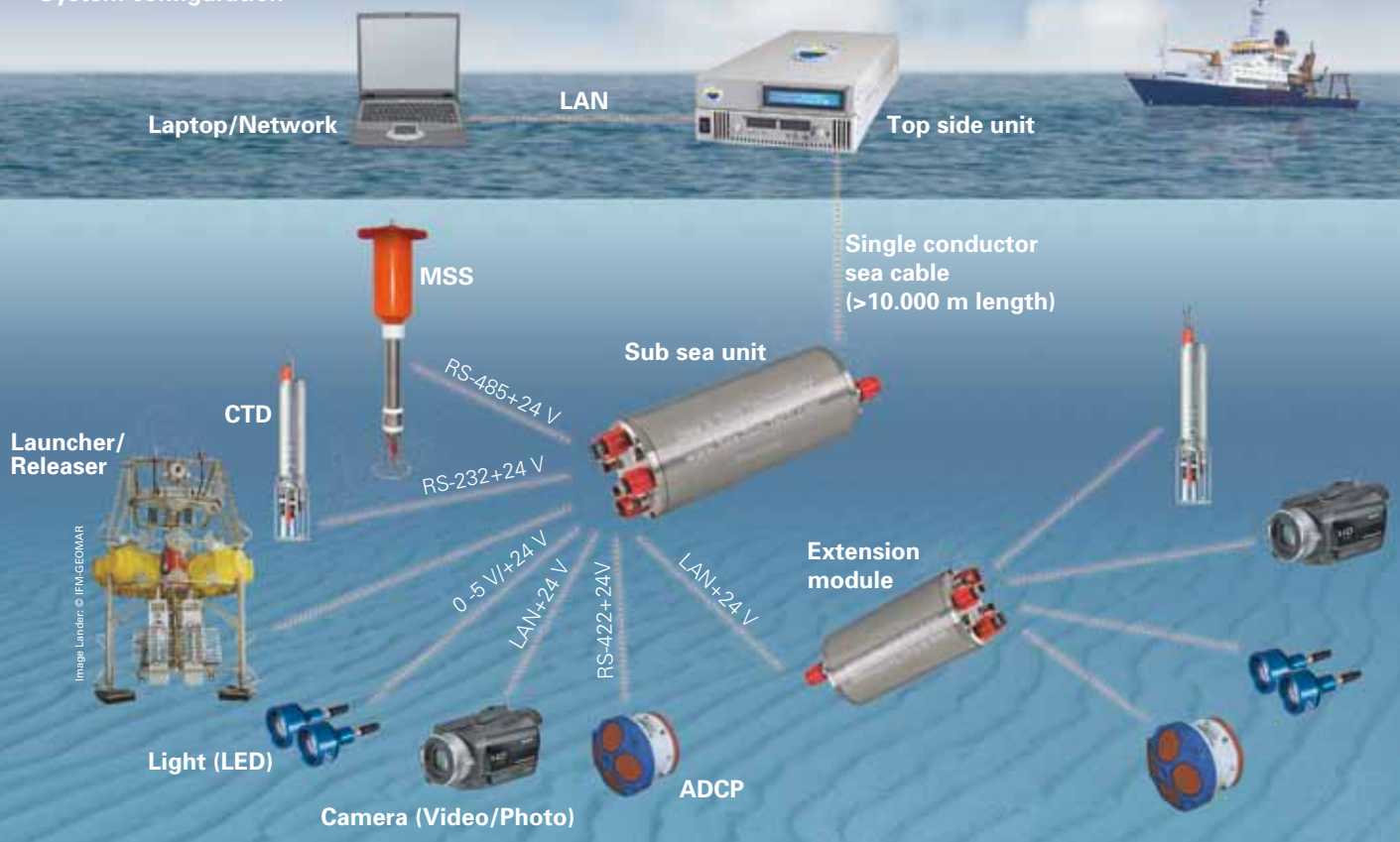
Underwater unit

- ▶ Input voltage range 180 – 375Vdc
 - ▶ Standard output voltage 24V
 - ▶ Output power max. 250W
- Interfaces:
- 6 bidirectional ports
 - 3*RS232, 3*RS422, max. baud rate 921,6k
 - LAN/Ethernet for video applications
 - e.g. IP cameras



DTS-6 Deep Sea Telemetry

System configuration



The DTS-6 was originally designed for specific military and scientific research, where high speed data transmission from a towed fish over long cables and ship winches was required. This system has effectively solved the problem with high speed serial data transmission of up to 921,6k and has proven its reliability in real-time data monitoring.

The next development step was the integration of video functionality into the system. Today the subsea unit allows the operation of IP cameras with Ethernet connection and the remote control of suitable camcorders with full HD recording. Simultaneous online monitoring with standard D1/DVPAL resolution of 720*576 pixels is possible with a speed up to 30 frames/sec. The quality of the

video transmission is absolutely superior to conventional analog systems. Additionally, the telemetry system supports the dimming of analogue controlled LED floodlights (provided the lamps are equipped with an analogue input 0 – 5 volt for power control).

As illustrated in the picture above the system's variability allows the expansion to more than six external devices by extender modules that can be connected to the central subsea unit. This facility allows the operation of extended subsea networks on the sea floor with a large number of sensors and instruments distributed over a wide area. The data of all these sub-units will be bundled and transmitted by the main telemetry unit via coaxial cable to the top deck unit.

System properties

- Operation on all coaxial deep sea cables
- Bit rates up to 25Mbit/s (100Mbit/s optional)
- Bit rate more than 8Mbit/s @ 10 km cable
- Remote controlled full HD recording with suitable camcorders and simultaneous online monitoring (Res.720*576 pixel @ 25 frames/sec)
- Support of analog dimmed LED lamps
- 3 trigger channels
- expandable to more than six connected devices

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