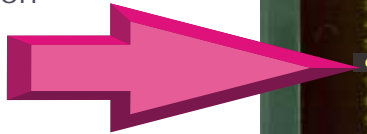


# Digital Underwater Communication Functionality for UT 2000

- Keeps all the analogue features of UT 2000
- Sector and Omnidirectional Operation
- Standard : MDR 2400 bit/sec
- Optional: HDR with max 9600 bit/sec



## APPLICATION

Enhancing the capabilities of already installed and operational underwater communication systems UT 2000, this upgrade kit provides digital data transmission via the acoustic underwater channel. It offers an easy and low cost opportunity to test and evaluate the integration of submarines in automatic command and control chains of LINK - systems.

## HIGHLIGHTS

- Medium Data Rate (MDR)
- High Data Rate (HDR) in option
- Selection of data rate
- Easy integration into UT 2000 communication systems
- Integration into LINK - systems
- High flexibility



# Digital Underwater Communication Functionality for UT 2000

## Upgrade Kit for UT 2000 D

The UT 2000 is a compact microprocessor controlled multifunction underwater acoustic system that can be enhanced with a digital communication functionality. L-3 Communications ELAC-Nautik offers a modification kit, which will be installed into the display and control unit SEE 11 of the UT 2000.

At low cost, the UT 2000 D upgrade kit allows users of the UT 2000 underwater communication system to test digital underwater communication links without giving up the safety of the common way to communicate underwater.

The modification kit consists of:

- An overhaul of the SEE 11
- Installation of a newly designed PCB for digital communication
- Installation of the interface to connect the SEE 11 to a computer
- System check and delivery back to the Customer.

The standard mode for digital communication is MDR (Medium Data Rate) which allows to transmit and receive data via the acoustic underwater communication channel with a data rate of 2400 bit/sec using MFSK (Multi Frequency Shift Keying) methods.

Optionally a HDR (High Data Rate) communication using QPSK (Quadrant Phase Shift Keying) method can be implemented which allows for data rates of up to 9600 bit/sec. Other methods or a stealth mode can be implemented on request.

## TECHNICAL DATA

For technical data see UT 2000 data sheet

Additional mode :	Digital communication
	<input type="checkbox"/> MDR
	<input type="checkbox"/> MDR
	<input type="checkbox"/> IFF

## AVAILABILITY

July 2005

Technical modifications are subject to change without notice    Version 2004 / 06

