



ELAC 
SONAR

A COHORT PLC COMPANY

UT 3000 2G

DIGITAL AND ANALOGUE UNDERWATER COMMUNICATION SYSTEM

The UT 3000 2G is the latest version of underwater communication systems designed and built by ELAC SONAR. It combines analogue and digital underwater communication according to the latest STANAG specifications in one compact 19" unit.

elac-sonar.de



A ROBUST DIGITAL UNDERWATER COMMUNICATION FOR AN INFINITE NUMBER OF NEW APPLICATIONS

The UT 3000 2G is the latest version of underwater communication systems designed and built by ELAC SONAR. It combines analogue and digital underwater communication according to the latest STANAG specifications in one compact 19" unit.

The UT 3000 2G is compatible in form, fit and function with the first generation of UT 3000 systems and provides enhanced flexibility, improved functionality and easier operational handling due to modern and intuitive touchscreen operation and simple menu-based control.

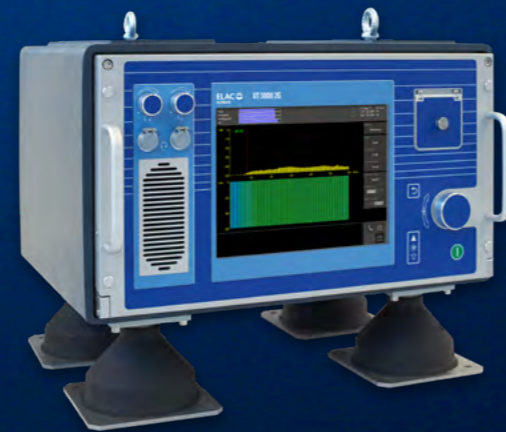
Installed on numerous submarines and surface ships worldwide the UT 3000 2G is designed, built and certified to meet all relevant military specifications. This ensures safe and reliable communication even under harsh conditions. A robust digital underwater communication is the basis for an infinite number of

new applications for submarines at speed and depth. The implementation of state of the art digital communication standards like JANUS (STANAG 4748) and IFS (STANAG 1481) will play an important role for safety at sea in the future.

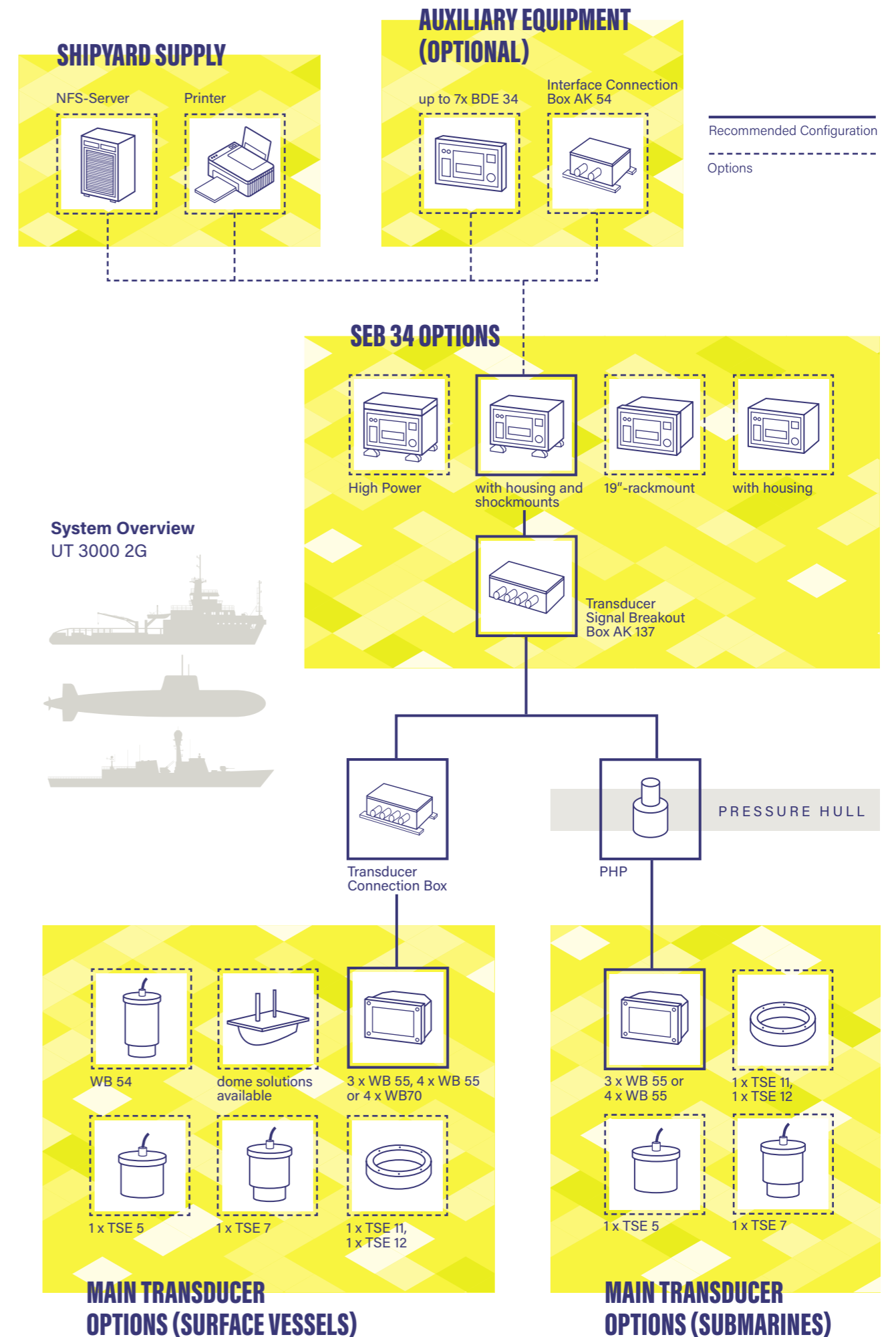
The large touch-sensitive display provides unbeaten intuitive operation and a variety of features such as telephony, telegraphy, digital data transmission and reception, noise measurement, distance measurement and emergency mode. The online and offline built-in test (BITE) supports the system's uninterrupted availability. Up to four transducer groups are supported for directional or omni-directional transmission within the widest frequency range available on the market. On surface ships, an optional outboard transducer enables communication even under adverse conditions.

Key features

- ✓ proven design, in use by more than 20 navies around the globe
- ✓ analogue communication acc. to STANAG 1475
- ✓ digital data communication via text messages and data files using digital coding algorithms like MFSK
- ✓ capable of data transfer acc. to JANUS standard (STANAG 4748) for absolute interoperability (including applications for automated data exchange in DISSUB scenarios and SMS communication)
- ✓ supports up to four transducer groups with up to 1400 W transmission power



UT 3000 2G Transmit-Receive-Control Unit



TECHNICAL DATA

Performance Data

Frequency range	1 – 60 kHz(*), tuneable in steps of 50 Hz for analogue and digital communication, NATO standard carrier frequency
Power output	up to 320 W at 4 transducer groups, reducible in steps of 12/24/36 dB High Power Version with 1400 W available
Telephony signal	300 Hz to 3 kHz (audio band)
Telegraphy signal	800 Hz (reduced bandwidth of 1 kHz)
Audio output	2.6 W at 4 Ω
Headphone	26 mW at 2 x 600 Ω in parallel (L/ R)
Interfaces	audio in/ out for ICS keying captain's key NMEA input USB, RJ-45 (Ethernet) Data Link Interface
Environmental conditions	according to military standards, details on request
Dimensions	Transmit-, Receive and Control Unit SEB 34: 456 x 512 x 334 mm (without shock mounts), approx. 43 kg

(*) depending on selected transducer configuration

Power supply

Mains	115 V AC or 230 V AC 50 / 60 Hz
Anti-condensation heating	115 V AC or 230 V AC 50 / 60 Hz or 160 – 330 V DC

Power consumption

Mains	max. 990 VA (at 320 W transmitting power); max. 550 VA (receiving mode)
Anti-condensation heating	approx. 30 VA (depending on ambient temperature)

High-Power version (option)

Power output	up to 1400 W at 4 transducer groups
--------------	-------------------------------------