



ELAC 
SONAR

A COHORT PLC COMPANY

LAZ 5200

NAVIGATION ECHO SOUNDER

The LAZ 5200 navigation echo sounder is available as a single or dual frequency system with a maximum measuring range of up to 6,000 m. It provides reliable seafloor detections from shallow to deep waters, both stand-alone and fully integrated into a bridge system.

SAFE NAVIGATION GUARANTEED BY RELIABLE DEPTH INFORMATION AND EASY BRIDGE INTEGRATION



The water depth below a vessel is one of the most important information for safe navigation. The LAZ 5200 navigation echo sounder guarantees reliable detection of the seafloor in shallow as well as in deep water and is designed for an automatic and smooth operation. It meets the requirements of IMO for navigation equipment and is type approved by DNV-GL. Based on the reliable and robust LAZ 5100, the new LAZ 5200 combines decades of experience in the area of echo sounders with the most modern requirements of commercial shipping. New features are an open control and data interface for complete IBS integration and the standardised support of BAM systems. LAZ 5200 is suitable for vessels of all sizes as a stand-alone or completely integrated system. It can operate a variety of transducers with 50 kHz, 100 kHz and 200 kHz as a standard.

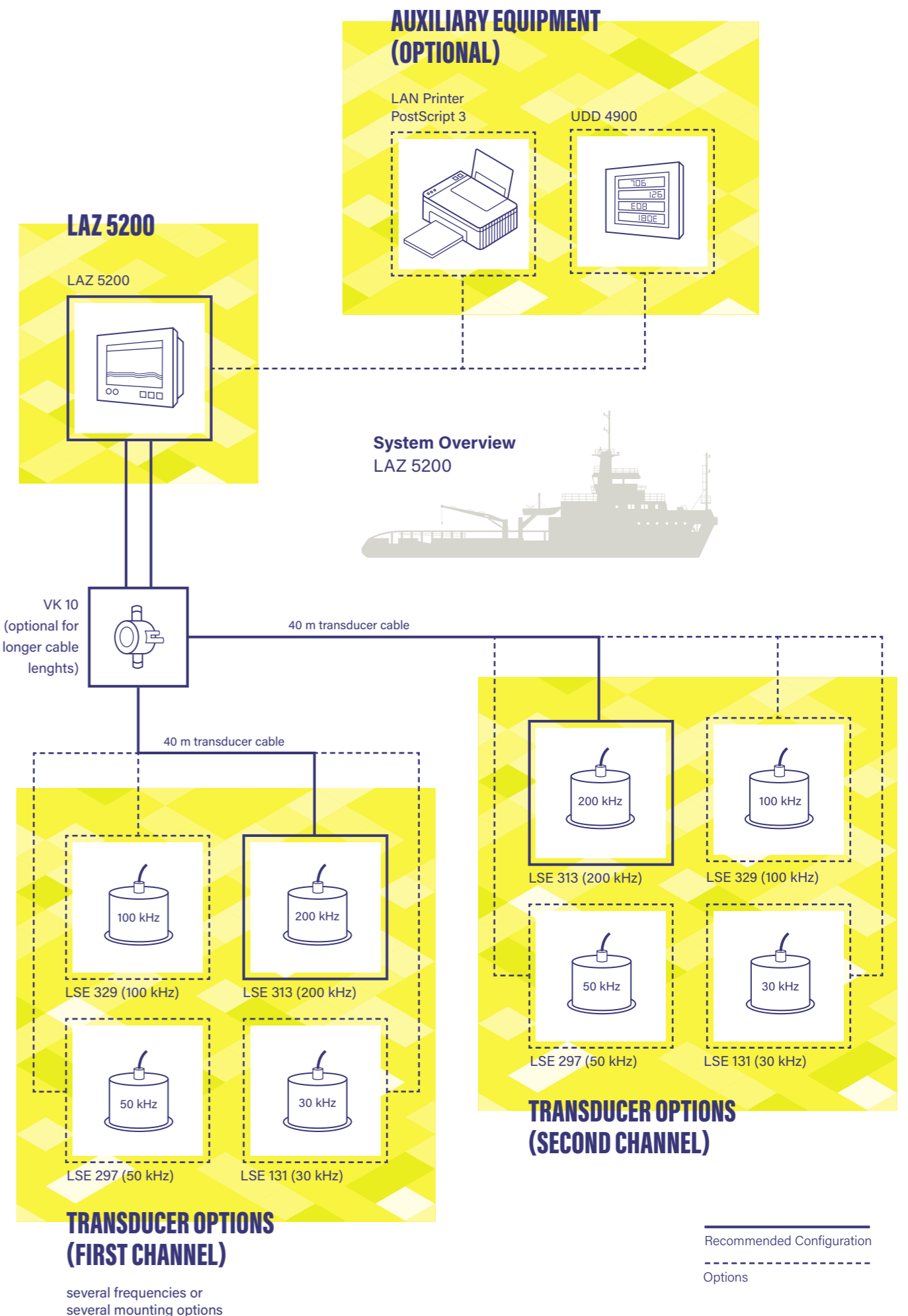
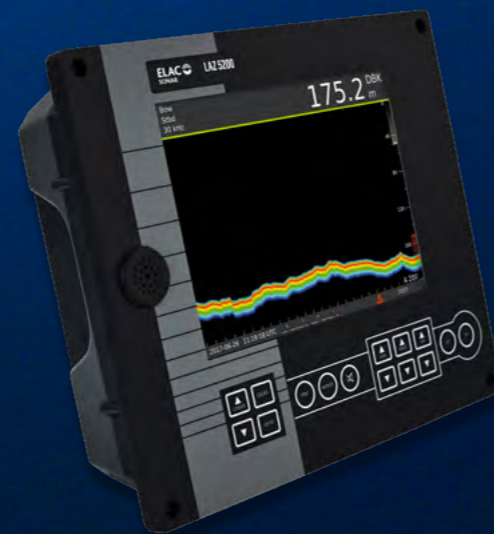
All electronics are of a completely new design and are based on modern microprocessor architecture. Likewise, the user interface has been redesigned in order to meet the requirements for convenient operation without altering it too much compared to the familiar LAZ 5100. All data are displayed on

a 10.4" monitor as digital information and coloured echograms including deep range scale diagrams. The water depth is presented as a colored echogram to show the trend of the water depth below the vessel. In addition, the current water depth is displayed digitally together with information about the ship's position, date and time. Due to the 10.4" size of the display, all requirements for the representation according to IMO resolution A.224 are fulfilled even for two-frequency operation.

ELAC SONAR has developed special transducers for the operation with our echo sounders. Together with the transducers LSE 297 (50 kHz), LSE 329 (100 kHz) and LSE 313 (200 kHz), the echo sounder system provides an excellent performance and combines long ranges with high resolution. All LAZ 5200 navigation echo sounders and the related transducers are developed and manufactured at ELAC SONAR's factory in Germany and pass an extensive quality control process. A 100 % quality control ensures that the delivered components are without any defects, providing maximum performance for many years.

Key features

- ✓ meets IMO requirements (Wheelmark)
- ✓ designed according to MED 2014/90/EU
- ✓ single or dual frequency version available
- ✓ interface to bridge alert management (BAM) according to IMO Resolution MSC.302(87) / IEC 61924-2
- ✓ interfaces to ship navigation system according to IEC 61161-1 and IEC 61162-450 (LWE)
- ✓ 10.4" high contrast LCD display



TECHNICAL DATA

Performance Data

Frequencies	200 kHz / 100 kHz / 50 kHz / 30 kHz / 15 kHz ¹
Display	10.4" graphic colour display
Scale ranges	0-10, 20, 50, 200, 500, 1000, 2000 and 6000 m ¹
Units	meter, fathom, feet (selectable)
Measuring accuracy	± 0.5% of scale range
Trim correction	up to 9.9 m
Draft correction	up to 99.9 m
Output power	adjustable, max. 1,000 W RMS ²
Interfaces	according to IEC 61162-450 and IEC 61162-1
Input protocols	NMEA 0183 GGA, VTG, DDC, ACK
Output protocols	NMEA 0183 DPT, DBT, ELAC, ALR

BAM sentences	ALC, ALF, ACN, HBT
Remote control and display	open-architecture-based DDS middleware
Environmental conditions	according to EN 60945
Operating temperature	-15° to +55° C
Degree of protection	IP 23
Power supply	95-240 V AC, 50-60 Hz
Power consumption	approx. 35 W (average)

Physical Data

Dimensions	288 (H) x 336 (W) x 99 (D) mm
Weight	5.5 kg

¹ Non IMO conforming

² depending on installed transducer and selected range