

ROMANIAN NAVY'S COSAR CLASS MINELAYER, VICE ADMIRAL CONSTANTIN BALESCU 274

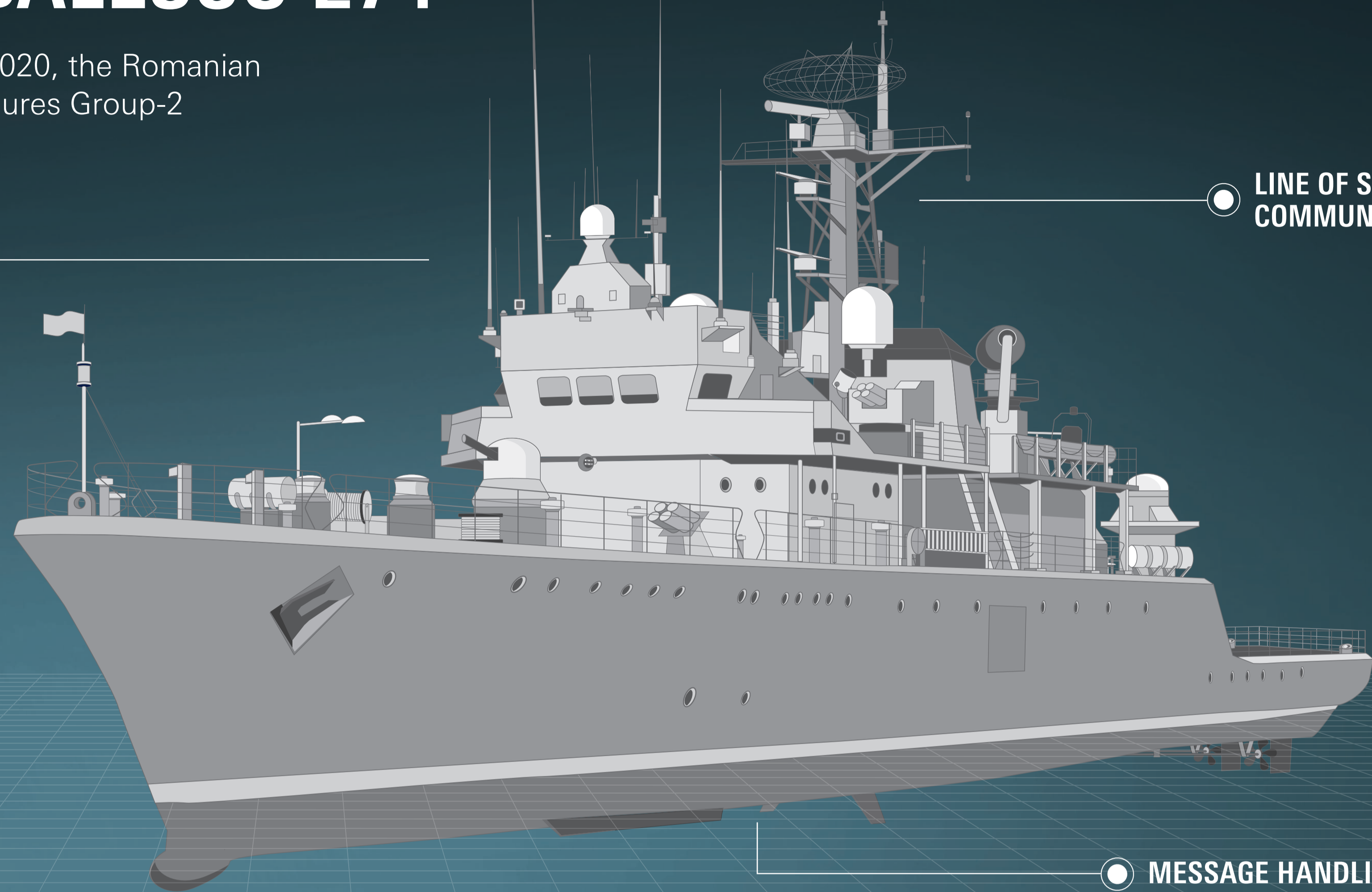
The Black Sea is a sensitive region and strategically vital to NATO. In June 2020, the Romanian Navy's minelayer was flagship of the alliance's Standing Mine Countermeasures Group-2 (SNMCMG-2) that provided NATO with an immediate reaction force.

KEY FACTS

- ▶ Displacement: 1451t
- ▶ Length: 78m
- ▶ Beam: 10,4m
- ▶ Speed: 20 knots (top speed)
- ▶ Crew: 76

BEYOND LINE OF SIGHT
RADIO COMMUNICATIONS

LINE OF SIGHT RADIO
COMMUNICATIONS



MESSAGE HANDLING SYSTEM



"Cooperating with the Romanian Navy and a local integrator, we managed to upgrade and enable the vessel (built in the 1980ies) to lead NATO missions by providing NATO compatible line-of-sight and beyond-line-of-sight communications for voice and data transmission."

Andrey Obolensky, Rohde & Schwarz

STATE-OF-THE-ART NAVAL RADIOS HELP NATO MEMBERS SECURE AND PROTECT A STRATEGICALLY IMPORTANT AREA.

Rohde & Schwarz was selected to provide its mission-proven R&S®M3SR software defined radio (SDR) family to enable the ship's Beyond Line-of-Sight (BLOS) and LOS communications respectively. The installation of these radios aboard the Vice-Constantin Bălescu took less than a few months. Once installed, the ship could communicate directly with other ships in SNMCMG-2 using the R&S®Series4400 VHF/UHF SDR. Shore bases hundreds of kilometers could be contacted using the R&S®Series4100 HF SDR.

BEYOND LINE-OF-SIGHT COMMUNICATIONS: ROHDE & SCHWARZ HF RADIOS

The R&S®Series4100 from Rohde & Schwarz performs BLOS communications. In standard shipborne configurations medium output power of 150 W, 500 W and 1,000 W are available. For ship-shore communications the transmitters are also available in high power classes of 5,000 W and 10,000 Watts. The radios supports all major naval tactical datalink traffic including LINK11 and LINK22. The radios meet the US Department of Defense's MIL-STD-188-110D and NATO's STANAG-5069 standards. This means they can handle data rates comparable to some satellite communications wavebands.

LINE-OF-SIGHT COMMUNICATIONS: ROHDE & SCHWARZ VHF/UHF RADIOS

Rohde & Schwarz R&S®Series4400 VHF/UHF radios perform LOS communications, also support LINK11 and LINK22 datalinks, as well as NATO's electronic protective measure (EPM) SATURN. For non-NATO customers proprietary TRANSEC and COMSEC versions are available under the R&S®SECOS brand name. The radios has been widely embraced by civilian and military authorities for ground-to-air/air-to-ground and ship-to-air/air-to-ship communications.

ROHDE & SCHWARZ

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