

NSR® TNEW

Tactical Naval Electronic Warfare system

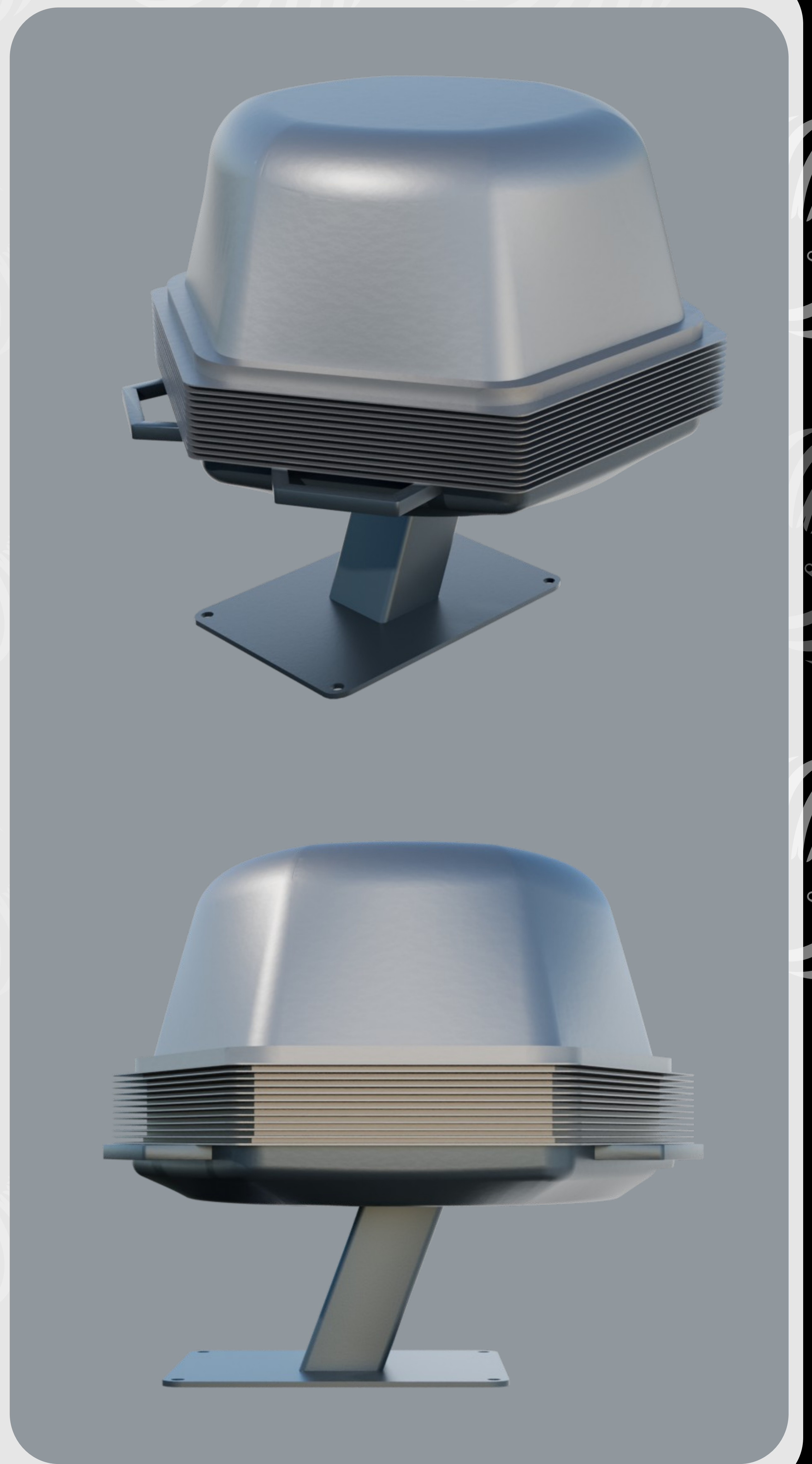
The NSR®TNEW (Tactical Naval Electronic Warfare) system represents the latest achievement in the field of synthesis of RF and digital signals.

It's a really game change equipment. It changes the idea of protection and can be used in most military scenarios. Our TNEW system is one of the components of our latest complex active protection. It is not just a RF jammer, which you can easily find on the market, but a real complex of RF intelligence, with the analysis of signals using AI and a selective means of RF jamming. It can also be used with our last products with visual UAS detecting, such as FPV-drones and with Tactical Laser automatic activation Optical suppressor System (TLOS).

Constant monitoring and analysis of the ether allows you to maintain the secrecy of the protected object, until the moment of an immediate threat. This unique feature allows you to avoid possible detection ahead of time. The jamming mode is activated only in danger detection situation, after which the system switches back to monitoring and analysis mode, and can't be detected by the enemy intelligence systems.

This enhanced functionality is particularly effective in dealing with new threats, including unmanned aerial systems (UAS), interceptor drones and other RF-controlled threats.

The great advantage of the system is its ability to be installed on any type of naval vessels without making any changes, which does not require any coordination with the vessels manufacturers.



▼ Signal analysis using AI

▼ Ongoing either monitoring allows to detect all types of threats in short time

▼ Higher reliability for better performance in dense electromagnetic environments

▼ It can be installed on any type of vessels, including oil and gas tankers

▼ Suitable for operation in highly congested and contested signal environments

This document is not contractual.
Subject to change without notice.

All rights reserved. © 2024 NSR



Contact
T .+971547670500
E: info@nsr-defense.ae
W: www.nsr-defense.ae

NSR® TNEW

Tactical Naval Electronic Warfare system



Our naval electronic warfare (EW) system is a complex system designed to protect ships from electronic threats, including enemy radar and radio communication systems. Electronic warfare systems use active and passive methods of counteraction. Active methods include jamming aimed at suppressing enemy RF signals, which is achieved by generating powerful radio signals passive methods focus on detecting and analyzing radio signals, which avoids detection and effectively counter threats. The main components of electronic warfare systems operate in a wide frequency range, which requires the use of various types of receivers, transmitters and antenna systems.

- Radios: These devices are designed to intercept enemy radio signals. They operate in a wide frequency range and are equipped with multi-channel circuits, which allows you to process several signals simultaneously.
- Interference transmitters: Create interference that disrupts the operation of the enemy's radar and radio communication systems. They can operate in various modes — noise, frequency and time barriers.
- Antenna systems: Include omnidirectional antennas for wide coverage and directional antennas such as phased array antennas (headlights) that allow you to dynamically change the direction of radiation.
- Signal processing systems: Use digital signal processing (DSP) to analyze and classify radio signals. The use of algorithms such as the Fast Fourier Transform (FFT) allows you to accurately determine the characteristics of signals and optimally choose methods of counteraction.

MAIN SPECIFICATIONS

Frequencyrange	0 MHz-6 GHZ
RF PowerOutput	Up to 2k W total RF power
SignalGenerationTechnology	Direct Digital Synthesiser
JammingModes	Software configurable via system control panel
Antenna	1 omni-directional circularly polarized antennas unit
Mountig type	Portable/ installing the device on retractable legs
Programming/Data Interface	LAN/RS422
Power Supply	on-board vessel power supply network
Temperature range (Operating)	-30° C to +60° C
Environmental qualificatio	MIL-STD-810-F, IP67 rated
Weight	80kg

FEATURES

- Simultaneous jamming of multiple threats
- Advanced jamming algorithms for protection against all known drone threats, including GNSS
- Fanless cooling for silent operation and high reliability in extreme environment
- Can be programmed and controlled via LAN interface
- Possible to set the required frequency range
- User-friendly and simple threat-based mission programming interface
- Monitoring and protection against VSWR of the active antenna

CONFIGURATIONS

