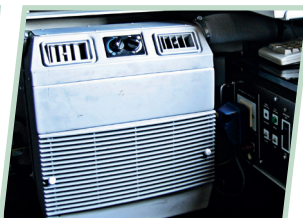


UPGRADE OF 2K12 KUB (SA-6) ANTI-AIRCRAFT MISSILE SYSTEM



THE UNITED STATES DEPARTMENT OF DEFENSE AIMS CERTIFICATION of interoperability with NATO MARK XII identification system for the upgraded anti-aircraft missile system 2K12 KUB (SA-6) integrated with IFF (SIC-11) system manufactured by Wojskowe Zakłady Uzbrojenia S.A.

Certification No CL 0621405RC – confirmed the accomplishment of the implementation of the latest cryptographic technologies intended for the combat operations and presently in use within NATO on post-soviet missile systems, as well as joint operations of the Wojskowe Zakłady Uzbrojenia S.A. upgraded anti-aircraft missile system 2K12 KUB within defense systems of the Alliance.

EFFECTS OF UPGRADE

- » increased resistance to passive and active interference,
- » increased detection of low RCS targets,
- » passive day and night target acquisition with long range thermovisual and television cameras,
- » application of IFF target identification system in the Mark XII Mode 4 standard,
- » use of advanced spareparts allowing the supply of replacement spareparts necessary for normal operations,
- » introduction of advanced methods and algorithms for digital data processing,
- » enhanced radio electronic camouflage ECCM by application of radar sector blanking system,
- » application of digital scaler for 2P25M Launcher,
- » elimination of adjustments and tuning for upgraded systems,
- » 2P25M Launcher growth capability to launch state-of-the-art missiles,
- » integration of Dehumidification System,
- » air conditioned crew cabin,

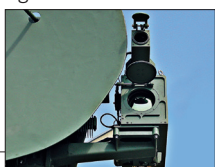
SCOPE OF UPGRADE

- » upgrade of The 1S91M2 Reconnaissance and Missile Guiding Station,
- » upgrade of The 2P25M Mobile Launcher.

UPGRADE OF 2K12 KUB (SA-6) ANTI-AIRCRAFT MISSILE SYSTEM

UPGRADE OF THE 1S91M2 RECONNAISSANCE AND MISSILE GUIDING STATION

Long-range thermovision
and day/night TV cameras



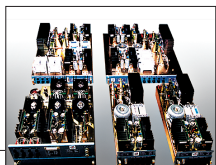
Highly sensitive CCD camera



Digital indicator
On-board computer



Modern semiconductor
power supplies

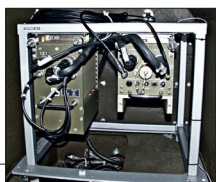


IFF Antenna

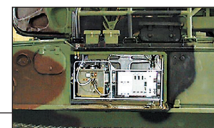
Target acquisition
digital indicator



Interrogator and Crypto-
graphic Computer Mark XII
mod 4, NSM, UPGRADE mod
5 i mod S



Dehumidification system

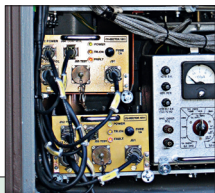


Interface unit

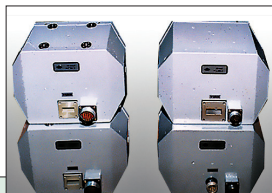
Air conditioned crew cabin



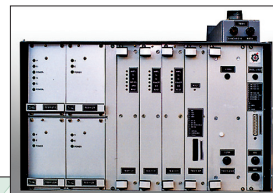
Sector control
of radar radiation



Semiconductor microwaves
amplifiers



Digital moving target
indicator system



UPGRADE OF 2K12 KUB (SA-6) ANTI-AIRCRAFT MISSILE SYSTEM

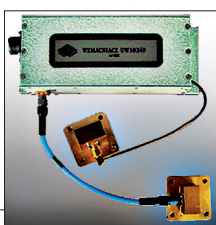
UPGRADE OF THE 2P25M MOBILE LAUNCHER

INTEGRATION OF NEXT GENERATION MISSILES
INTEGRATION WITH SA-6

Digital scaler with synchro-
nus communication system



Semiconductor
microwaves amplifiers



Semiconductor
radio line power supplier



Semiconductor
amplidyne amplifier



AWARDS

- » DEFENDER Award granted at the 7th International Defence Industry Exhibition for upgrade of The 1S91M2 Reconnaissance and Missile Guiding Station of the 2K12 KUB (SA-6) Anti-Aircraft Missile System.
- » The Kossuth Award by the Commandant of the Hungarian Army Logistics Command for the upgrade of the 1S91M2 Station of the 2K12 KUB Anti-Aircraft Missile System which has enabled the Hungarian Army to perform duties of an ally to adopt the armament to the obligatory NATO standards.
- » Thanks conveyed by the Deputy Secretary of State for Defence Economy, Hungarian Ministry of National Defence, for the upgrade of the SA-6 (KUB) Surface Anti-Aircraft Defence System in accordance with current international and NATO requirements.