



WB GROUP 

UPGRADE KIT

for 23 mm Anti-Aircraft
Twin-Barreled Autocannon ZU-23-2

Electromechanical Equipment ARM-28

is designed to upgrade the licensed anti-aircraft twin-barrelled autocannon ZU-23-2. The autocannon after modernization gains new features. Thanks to controlled digitally electric drives (with emergency manual drive) it is possible to achieve both precise guidance and high-speed gun movement. Guidance can be carried out by operator using a joystick or automatically from the external fire control system (FCS). Electromechanical Equipment ARM-28 cooperates with modern optoelectronic sights that allow shooting with both traditional ammunition (OFZ, OFZT) and modern sub-calibre ammunition APDS-T. The control panel enables programming of no-shooting zones in azimuth and elevation. Electromechanical equipment has a modular construction that offers significant advantage by allowing both easy and rapid integration of new hardware functional blocks and quick field repair.

The upgrade kit consists of the following components manufactured by AREX Sp. z o.o.:

Electronic Control Unit

Electric & manual drives in azimuth and elevation

Control Panel

Manipulator

Slip Ring

Battery Unit

Cable Harnesses



1.

2.

3.

4.

5.

6.



Control Panel



Manipulator



Electronic
Control Unit



Electric
Drive in Azimuth



Battery Unit



Sight



Scope of modernization

installation of electric drives in azimuth and elevation with emergency mode

installation of the operator panel and manipulator

installation of sensors for rotation speed measurement

replacement of sight 2C27 for the electronic sight that enables shooting using ammunition type: OFZ, OFZT, APDS-T

installation of Electrical Control Unit

installation of autonomous power supply unit

installation of voice communication

cannon modes: manual
semi-automatic
automatic

handling crew reduction from 5 to 4 members (commander, operator, 2 loaders)

7.



Slip Ring

8.



Electric Drive in Elevation



Electric Drives Technical Data

	elevation	azimuth
shooting angle	-10° up to +90°	n x 360°
min angular velocity	1 mrad/s	1 mrad/s
max angular velocity	0,7 rad/s	1,2 rad/s
max acceleration	1 rad/s²	1 rad/s²
power supply	24V DC	
operating temperature	-30°C up to +50°C	
continuous operating time (battery unit)	17 h	

Sight Tactical-Technical Data

THERMAL IMAGING PARAMETERS

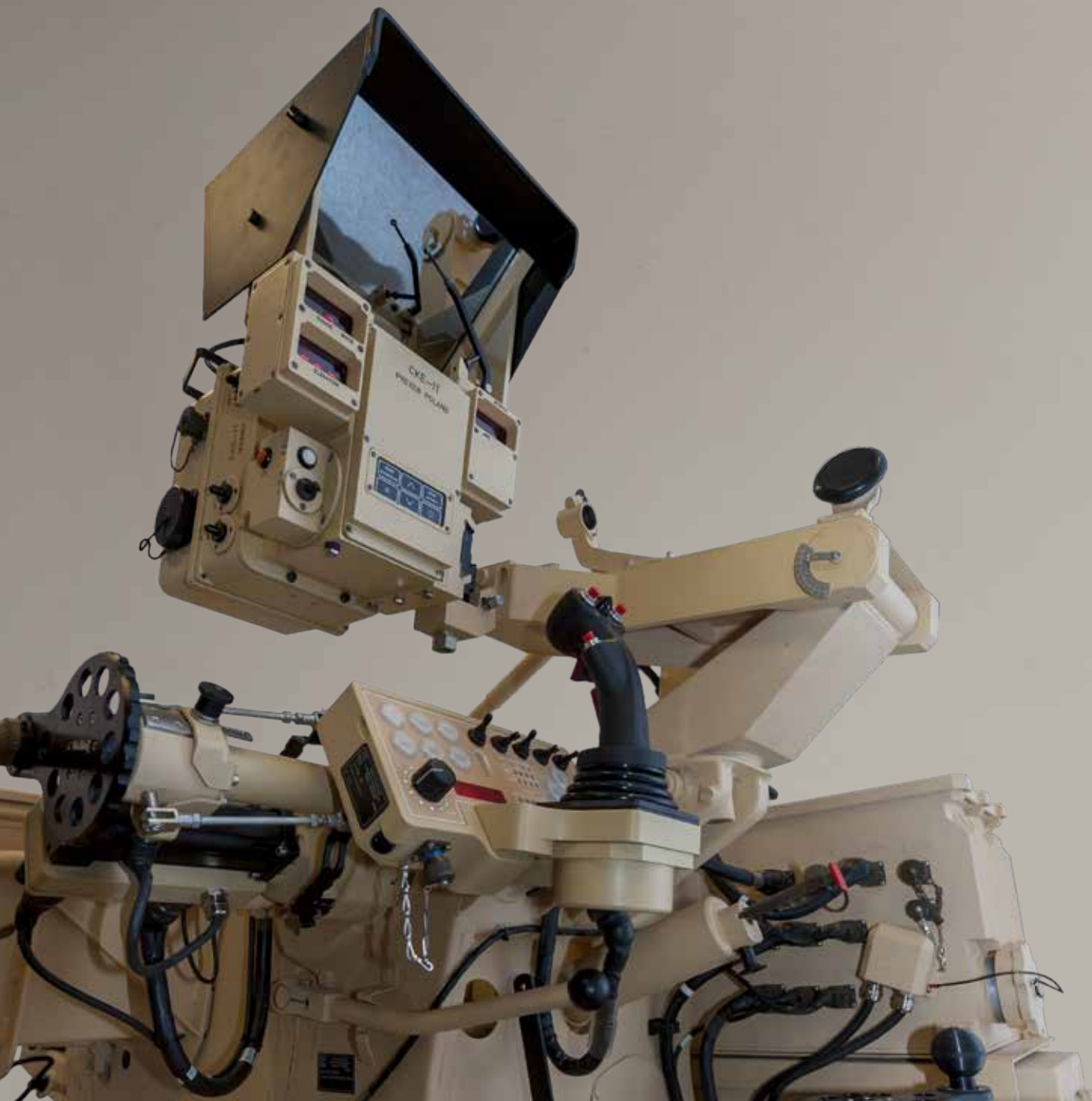
spectral range	8÷14 μm
thermal sensitivity	£ 80 mK
optical zoom	2x, 4x
resolution	640 x 480
horizontal view angle	18°
vertical view angle	13°

DISTANCE INPUT RANGE

by means of manual switch	2÷30hm
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DETECTION OF TARGETS IN INSUFFICIENT VISIBILITY CONDITIONS

soldier	700 m
jeep	2000 m
helicopter	4000 m



www.wbgroup.pl



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