

UKART-2

Universal Artillery Calculator for Rocket Forces and Field Artillery



**DESIGNED FOR ROCKET FORCES
AND FIELD ARTILLERY**



**ENABLES PRECISE AND EFFECTIVE
BALLISTIC CALCULATIONS**



**SECURES THE IMPLEMENTATION OF FIRING
TABLES FOR VARIOUS TYPES OF AMMUNITION**



**FIELDIED IN THE POLISH ARMED FORCES
SINCE 2018**

The UKART-2 design ensures operation in various power configurations:

BFC-210 Primary Power Supply using PA-U2 Battery Pack. This configuration enables working time for approximately 5h. In addition, the battery packs are being charged while operating. It is also possible to remove one of the packages without interrupting the computer and replacing it with another.

Power supply using vehicle network 12 ÷ 32 V DC. The CH9600U2 Battery Pack Charger can also be connected in a similar way.

Power supply using AC 230V through dedicated AC230V / DC24V / 100W AC Adapter. The CH9600U2 Battery Pack Charger can also be connected in similar way.

The key element of **UKART-2** system is a **specialised software standardized with Fire Control System TOPAZ system fielded in the Polish Armed Forces**. Main features and functions of the software are:

- Preparation of firing and fire control with use of ammunition implemented in the form of firing tables electronic versions;
- Receiving and saving coordinates of any artillery subdivision combat group, meteorological data, ammunition data according to firing tables, fire effectors data, elements of coordination of fire support means data;
- Receiving and recalculating targets and impacts coordinates;
- Ballistic calculations of target settings of each gun/mortar/launcher firing positions;
- Displaying settings of time fuzes;
- Calculating of settings corrected during Adjust Fire and Fire for Effect;
- Mapping out the outcome of creating the subsidiary target;
- Using of control gun data;
- Using of various types of digital maps (for example CADRG, GeoTIFF, MrSID, CIB, VPF/SHP, DTED);
- Visualizing tactical situations in accordance with APP-6A standard symbols.

The software enables **dynamic linking of firing tables' electronic versions**. This applies to already implemented tables as well as to those that may appear in the future. All ballistic calculations are carried out taking into account the **actual firing conditions**, such as type of ammunition, propellant lot, as well as meteorological conditions, handled according to the following message standards:

- Meteo11 (also Meteo-Approximate);
- METB3;
- METCM.

UKART-2 meets mechanical and climatic requirements for equipment classified as N.14-O-II-A and EMC requirements NO-06A-200 (emission limit and electromagnetic emission limits as required in KCS-01, KCS-06, KCS-08, KRE-02, KCE-02, KRS-02).

The current version of UKART-2 supports the following fire effectors:

Mortars	Guns	Launchers
M98	D44	BM21
M120 wz 43	2S1	RM70
M120 2S12	DANA	WR40
RAK	KRAB	
	KRYL	

The Universal Artillery Calculator UKART-2 for Rocket Forces and Field Artillery is available in the following set:

Portable BFC-210 terminal with specialised software

Power Supply AC230V/DC24V/100W

Battery charger CH9600U2

Carrying case and transport packaging

www.wbgroup.pl

WB ELECTRONICS 
WB GROUP

WB Electronics S.A.
ul. Poznańska 129/133
05-850 Ożarów Mazowiecki, Poland
t: +48 22 731 25 00 | f: +48 22 731 25 01
info@wb.com.pl