

## **BALLISTIC COMPUTER FOR MLRS 122MM**

### **DESCRIPTION**

The Ballistics Computer provides automated firing elements computation, and display capabilities for the 122mm rockets. It is a tablet (or notebook), lightweight, battery powered unit capable of rapidly computing ballistic trajectories and firing elements for rockets.

### **BASIC HARDWARE SPECIFICATION**

The hardware is ruggedized tablet or notebook, depending on customer requirements. It is equipped with GPS, altimeter, electronic compass, blue tooth and Wi-Fi.

Display screen is transfective sunlight readable pressure sensitive touchscreen. Objects displayed on the screen may be selected, opened, launched, or depressed by tapping directly on the screen with the stylus.

Computer operates in environmental extreme conditions and in the electromagnetic environment.

### **SOFTWARE CHARACTERISTICS**

- Calculate firing data (brake ring, deflection, elevation) for the 122 mm rocket launchers based on five DoF and modified point mass model. Simplicity of operation – a little training is needed.
- Support both NATO (6400mils) and former Warsaw Pact (6000mils) sight units.
- Accept grid coordinates (Geodetic, UTM, MGRS), local coordinates (polar, cylindrical shift).
- Capability of storing data for 6 weapons, three observers, one commander, 99 targets, known points, protected areas and crests.
- Capability of storing and/or changing stored data in files.
- Computation time in the most complex situation is less than 2 sec.
- Own position determination by built in GPS.
- Firing data accurate to within 10m in both range and lateral direction.
- Graphical presentation of combat deployment on plain map, on Google map or user supplied map (optional).
- Accepting different types of meteorological data – standard, and real – ground and altitude data.
- Supporting of various mission types and various sheaves.
- Corrections (adjustment) of fire (up to 10).
- Calculation of maximal ordinate and impact point characteristics.
- Checking violation of crest and protected areas and mechanical limitations.
- Program can be upgraded easily with any known mortar data.
- Menus are written in English, but other languages are possible.