

BES Systems Ltd.

TPQ-36/37 Radar DMK Shelter Improvements

FireFinder Radar Digital Map Kit System (DMK), modernization suit for the TPQ-36 and TPQ-37 radar systems, combines operational and maintenance capabilities.

Operational Improvements

- ◆ In-radar capability to building a Firefinder Elevation Data (FFED) Map around radar location.
- ◆ High speed Radar Programs loading (including radar constants) from Flash Disk.
- ◆ FFED area size is selected by User from 40Km x 40Km up to 100km x 100Km.
- ◆ Three FFED Resolution cells to be selected by User:
 - ⇒ 100m x100m
 - ⇒ 125 x 125m
 - ⇒ 250 x250m
- Converts WGS-84 or ED-50 Digital Terrain Elevation Data database (DTED) or any format of database to TPQ-36 and TPQ-37 FFED radar format.
- ◆ Storage area of up to 20 Grid Zones.
- ◆ Efficient utilization of radar built-in Automatic Height Correction (AHC) and ATF functions.

- ◆ Enhanced Target positioning :
 - ⇒ More Targets per unit of time.
 - ⇒ Better Accuracy
 - ⇒ Shorter Time Response
 - ⇒ Fully Automated Process
- ◆ Substitutes radar printer. Printer data is displayed on 12.1" LCD Display with scroll (no need to use the printer).
- ◆ Printer data logging for later debriefing.
- ◆ Radar Constants Libraries for fast Shelter adaptation.
- ◆ "On the fly" Coordinate conversions.

DMK Work Station

- ◆ User Friendly Operation
 - ⇒ Windows 2000 based operation using menus and Graphic User's Interface (GUI).
 - ⇒ Minimum learning process.
- ◆ Optional display of topographic map, detected targets, Friendly and Enemy zones.



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Recording and Debriefing

- ◆ Recording: Radar targets, and Operator's Actions for offline debriefing & training.
- ◆ Playback of the recorded printer raw data and database of detected Artillery and Mortar targets for CEP calculation.

Integration to Shelter-Maintenance Improvements

Shelter modernization by Replacing obsolete Units :

- ◆ Radar Printer by paperless display and PCMCIA logging.
- ◆ Low reliability and High Cost Raymond cassette by Solid State Disk and CD-ROM.



DMK Computer

Open Architecture

- ◆ BES provides API and software hooks for customer own use.
- ◆ Optional adaptation to customer future requirements.
- ◆ Optional C2 interface Recording & Debriefing capability

Simple Installation

DMK system is easily and quickly installed in the shelter in less than two hours. Installation is done without any mechanical or electrical change in the radar system.



DMK Display Installation

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