

DIGITAL DATA LINK



General Info

The Integrated Data Link System (IDLS MK II) is designed for military, law enforcement and civilian applications. The system provides a complete solution for real time digital communication link, for manned and unmanned aircraft, marine vessels, and land vehicles. The IDLS MK II system includes advanced digital capabilities such as video over Ethernet, and it is fully supported by advanced HMI software applications.

System capabilities

- Available in different frequency bands
- Long range – up to 250 Km (LOS)
- Extended range beyond LOS via relay
- Downlink data consist of compressed video, telemetry and other data protocols (up to 20M bite/sec).
- Full duplex command uplink and video & telemetry downlink
- Video format - PAL/NTSC
- Telemetry data - RS-232/422, Ethernet
- Dual Automatic tracking capabilities (primary and back up)
- Remote frequency change capability
- Bandwidth use can be optimized for the specific data transmission
- High reliability, low life cycle costs
- COMSEC capability
- TRANSEC capability

The IDLS MK II consists of the following units:

- **Ground Data Terminal (GDT)**
- **Air Data Terminal (ADT)**

System specifications

GMSK\QPSK modulation
 FEC Forward Error Correction Technique
 Video Latency~120 msec
 Video sensitivity -96 dBm
 Telemetry sensitivity -106 dBm
 Frequency Tuning Step..... 1 MHz

Power requirements

Input voltage 16-32 VDC
 Input current forADT4 Amp max
 Input current for GDT4 Amp Avg

Mechanical

GDT weight.....45 Kg
 ADT weight~3.5 Kg
 GDT installation..... Tripod/Mast /Vehicle

*ADT dimensions are defined by customer requirements.

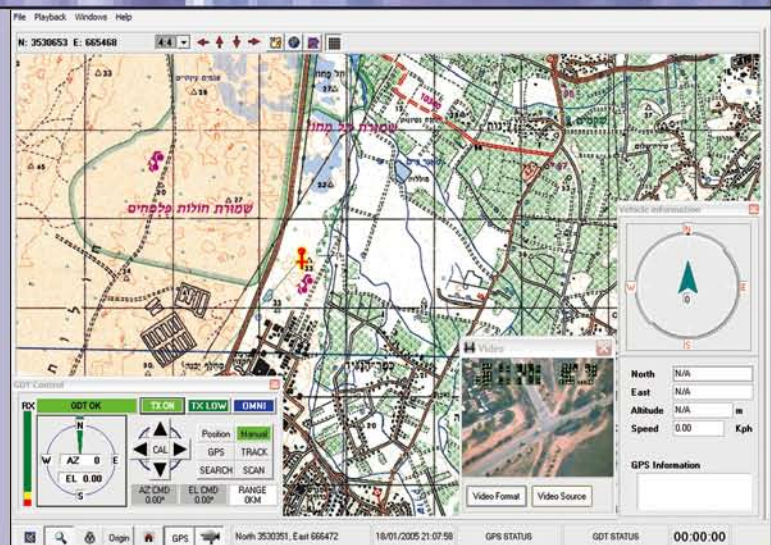
Environmental

Temperature..... -30°C to 70°C
 Humidity..... Up to 95%

Software Application

The IDLS MK II software is responsible for the system's operation, platform tracking and status display. The system displays vital tactical information such as:

- Digital map
- Real time presentation of the video as received from the payload mounted on the remote platform
- Status of the GDT antenna: alignment, tracking, signal strength, etc.



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* Designed to meet MIL-STD-810E and MIL-STD-461

**ICD for all products is available by request

Specifications subject to change without prior notice. Typical values shown.