

# IDLS MK-II

Integrated Data  
Link System



## For Mission Aircrafts, Helicopters and MALE/HALE Unmanned Platforms

The Integrated Data Link System Mk-II (IDLS Mk-II) is an advanced single unit digital data link system specifically designed for manned and unmanned platforms.

As a cost-effective solution for most requirements known today, this state-of-the-art system uses open architecture and enables full duplex wideband, digital link, error correction techniques, resistance to jamming techniques, and high-rate communication in the Uplink (UPL) and Downlink (DNL) channels.

The IDLS Mk-II can downlink real-time video images, serial data and information from most sensors operating today. The IDLS Mk-II is a modular, light-weight, reliable, relatively small in size and affordable system. It combines the commercially proven technology and standards with advanced algorithms, to provide high performance. The system is full duplex and has one Uplink for the command to UAV and one Downlink that transmits sensor information and related data from the UAV to the ground control.



Max Range 250Km



2.5 Kg



TRANSEC/COMSEC  
Capabilities



Relay Capabilities



SD/HD Video



Full Duplex  
(UPL & DNL)

CONNECTING: **ANY** PLATFORM, **ANYTIME**, **ANYWHERE**.



[www.commtact.co.il](http://www.commtact.co.il)



972.8.9433602



[info@commtact.co.il](mailto:info@commtact.co.il)



972.8.9433603

## Advantages

- Long range
- Multi Antenna support
- Low power consumption
- Variable data rates
- Remote frequency change capability
- High reliability and low cycle cost
- Beyond line of sight via relay
- Embedded encryption
- Embedded Video compression

## Interfaces

- RS-422
- RS-232
- Ethernet 10/100 Base-T for IP-based data sources
- Video in: NTSC, PAL, CCIR & RS-170 monochrome input
- Digital video interface - SDI

## System Parameters

Parameter	Value/Description
Primary Link Frequency Band	S/C Band
Forward Error Correction	Convolution & Reed Solomon
End to End Video Latency	<120 msec
Video Compression	H.264
COMSEC	AES: 256 bit
TRANSEC	FH or DSSS
Environmental Conditions	MIL-STD-810F / MIL-STD-461E
Optional Data Rates	2/4/6/8/10 Mbps

## Airborne Data Terminal

ADT Parameter	Value/Description
Mechanical Dimensions	238x222x42 mm
Weight	~2.5Kg
Power Consumption	160W

## Ground Data Terminal (GDT) / Remote Video Terminal (RVT)

	Short Range RVT	Medium Range RVT	Long Range GDT
			
Range	15Km	75Km	250Km
Weight	1Kg	3.5Kg	70Kg
Accessories	Tablets/Laptops, Control SW, Batteries, Battery Chargers, Tripods, etc.		

\* Ground Support Test Equipment (GSTE) Available