

# In Service with Special Forces - Worldwide

## Features/Benefits of LVRS

- Transmit and receive tactical data and images
- Interoperable with existing communications systems
- Sensor independent, accepts inputs from existing fielded sensors
- Capture day/night video and images
- Image annotation, manipulation, and mark-up
- Platform independent

## Advantages of LVRS

- Fielded and in use in OEF and OIF
- Reduced sensor to shooter time
- Better targeting packages with real-time annotated images
- Shortened time critical targeting
- Increased target acquisition reliability
- Better target identification
- Immediate Battle Damage Assessments (BDA)
- Improved Command and Control (C2) and situational awareness
- Enhanced reconnaissance with images



## Lightweight Video Reconnaissance System (LVRS)



**PhotoTelesis**

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# Lightweight Video Reconnaissance System (LVRS)

PhotoTelesis provides the only fully integrated system giving our clients a joint air, ground and ocean based capability to capture, exploit, transmit, receive and distribute tactical imagery and data in near real time in the modern battle space.

Battlefield imagery and its associated data can be provided directly to reconnaissance, surveillance, target acquisition and intelligence assets in the battle space utilizing current and future tactical radio equipment. Sensor to shooter capabilities are greatly enhanced thus shortening the kill chain and providing for reduced fratricide of ground forces and noncombatants.

- Portable, Near Real-Time Image & Data Transmission System
- View, Capture, Exploit, Transmit & Receive Imagery
- Compatible with all PhotoTelesis imaging products: Fast Tactical Imagery (FTI), Photo Reconnaissance Strike Module (PRISM), Imagery & Communications Environment (ICE)

Supported Platforms: F-14, F-16, F/A-18, C-130, AH-64, AH-1, HH-60, P-3, AV-8, F-117, OH-58, U.K. Jaguar and others.

## LVRS Base Station

- Ruggedized laptop, PhotoTelesis ICE software and an SCC-100/A communications card
- Image compression/decompression, processing, transmission and receiving
- Software application allows image capture, compress, receive and transmit
- Protocols: PhotoTelesis Tactical Communications (PTAC) and MIL-STD 188-184 (ViaSat®) for high bit error rate communications channels
- TACO2 for interoperability with other NITFS platforms, Zmodem for Universal communications standard
- Tactical Radio Interfaces: KY-57/58, STU-III, KG-84, KY-99/99A and KIV-7, PSC-5, LST-5, PRC-117, SINCGARS, MSHR and PRC-148/MBITR MAPI protocol supported TCP/IP and CDPD connections.
- File formats: BMP, JPEG, TIFF, and PhotoTelesis Wavelet.



Ruggedized Base Station Laptop

## The PhotoTelesis Military MicroRIT (MMR)

- Third generation LightWeight handheld, image acquisition and transmission
- Image digitization, display, processing, storage, management, and annotation
- Supports PTAC protocol, MIL-STD188-184 (ViaSat®) SATCOM protocol.
- PhotoTelesis' wavelet or JPEG compression algorithm
- Sensor Link Protocol provides seamless interface to PLGR GPS and MELIOS Laser Rangefinder.
- Burst capture mode allows the unit to capture 4 images per second

## PhotoTelesis Keyboard (KBD-700)

- Small, rugged, lightweight, used with PhotoTelesis MMR
- Windows® style QWERTY layout with F1-F12 function keys.
- Keys backlit, positive feedback when depressed.
- Night Vision Goggle (NVG) compatible, submersible to 2 meters for 1 hour.
- Operating temperature is -20° to 60° C
- EMI/RFI shielded (MIL-STD-461D).
- Dimensions: 6.8" x 3.6" x 0.6" Weight: 10 ounces.
- Withstands shock of 3 x 11 ms pulses of 40g's.

## PhotoTelesis Modular Sensor Assembly (MSA)

- Control Module, Day Channel, and Night Channel.
- Day/Night ruggedized video sensor
- Control Module - User Interface, viewfinder, control buttons, battery and video framing
- Day Channel - 18X optical and 4X digital zoom provides vehicle recognition at 1500 meters.
- Night Channel - Gen III image intensifier that provides vehicle recognition out to 500 meters
- BA-5800 battery lasts 10-hours using a 50 percent duty cycle.
- Stand-alone device or can be attached to the Military MicroRIT™ to remotely capture images.



Military MicroRIT (MMR)



Modular Sensor Assembly (MSA)