



VDU-100MRS

Video Distribution Unit

Video Transmission via Cellular, SATCOM, Tactical Radio, Mesh & LAN
Dual Ethernet I/O for Simultaneous Video/Sensor Data Transmission
(ANW2/SRW)
Dual NTSC/PAL Video Inputs
2 Way Audio

Embedded 8 GB Digital Video Recorder (>2 Hour Record Time)
Multiple Viewers (PC/Laptop, iPhone, Android, Tablets)
Remote Pan/Tilt/Zoom Camera Control
IP67 Design Military and other Ruggedized Applications
Uses PRC-148 Battery

GPS Metadata Transmission with a Google Earth Display

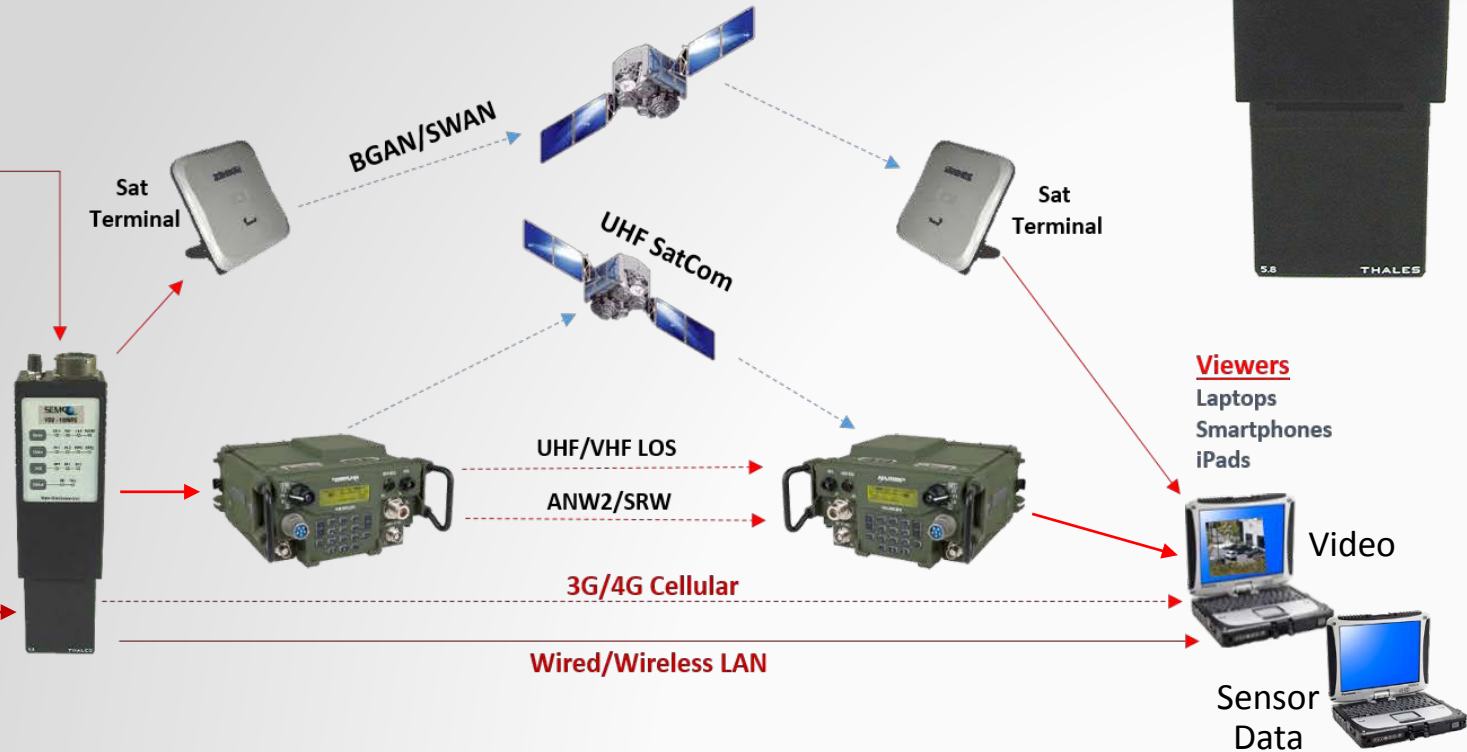


Video Sources

- UAS/UGV Ground Control Stations & RVTs & OSRVTs
- E/O Devices
- Video Recorders
- Handheld & Vehicle-Mounted Cameras
- Force Protection Video Systems
- Tactical Viewing Systems



RF Sensor



Viewers

Laptops
Smartphones
iPads

Video

Sensor Data



VDU-100MRS SPECIFICATIONS

Input Characteristics

Video Inputs	(2) BNC Composite Inputs; NTSC or PAL
Data Inputs	(1) RJ45 Ethernet
Audio Inputs	2-way Audio (1-way in Tactical Radio Mode)

Hardware Performance

Bandwidth	9 kbps to 2 Mbps
Encryption	AES 128/256 or Military Radio Encryption
Video Frame Rate	User-adjustable 0.1 to 30 Frames per Second
Video Frame Size	128 x 96 minimum; 704 x 576 (4CIF) maximum
Cellular Interface	Removable GPRS/3G/HSDPA SIM module
Satellite Communications Interface	10/100 RJ45 Ethernet for INMARSAT
LAN Interface	10/100 RJ45 Ethernet
Tactical Radio Interface	Synchronous Serial (Satcom mode)/LAN (ANW2/SRW modes)
GPS Receiver Interface	USB
Camera Pan, Tilt and Zoom Interface	RS-232/422/485
Operational Mode Selection	Cellular, LAN, SATCOM or Radio (Tactical)
Embedded Digital Video Recorder	Removable 8 GB SD module (>2 hours recording time)

Software Video Viewers

Server	Windows OS/Linux (Java Required)
Viewer	Windows OS
Mobile Viewing Devices	Applications for Android, Windows Mobile & IOS (iPhone/iPad)
Number of Viewers	Unlimited number of Viewers
Image Enhancement Feature	Enhances photo resolution and creates .jpg photos
Remote and Local Recording	Records HD video at the VDU and (.avi) video at Control Center app

Environmental and Physical Characteristics

Dimensions	6.84" L x 3.0" W x 2.01" D (w/o MBITR Battery)
Environmental Design	IP67 Environmental Design for military use
Weight	<2 lbs
Voltage Input	9-36 VDC Battery/External Power
Battery Power	5.8 AH PRC-148 MBITR Battery (approx. 8 hours)
Power Consumption	8 watts (nominal); 12 watts (maximum)
Operating Temperature	0 to 50? C
Storage Temperature	0 to 70? C

Description

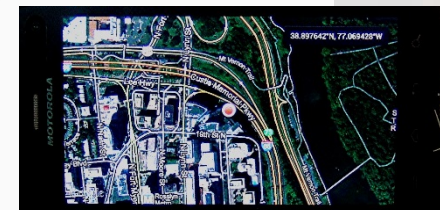
The VDU-100MRS encodes and transmits video using several transmission modes, in bandwidths from 9 Kbps to 2 Mbps, from the video source to a Server/Viewer and then to multiple Viewers worldwide. This transmission is virtually real time, with up to 30 fps at 125 kbps. User bandwidth and resolution controls optimize video quality based on available bandwidth and mission requirements. The Viewer(s) can control camera pan/tilt/zoom, perform video enhancement, adjust frame rate and resolution, record video (.avi) and create photos (.jpg). The embedded DVR can be down-loaded remotely or at the VDU-100MRS. A simultaneous Sensor Data Transmission feature is available when using the Tactical Radio's ANW2 or SRW mode.



PC/Laptop Viewer



Android Viewer



Android Maps