



PTU™ Portable Test Unit

The JDA Systems portable test unit (PTU) is a complete telemetry ground station in a box. The PTU leverages the capabilities off many JDA Systems components, the RF antennas, receivers, bit syncs, decoms and the VuSoft™ software program .

The PTU can receive dual channels of L, Upper L, S and NATO bands RF, dual channel PCM telemetry in accordance with IRIG106 Chapter 4, IRIG106 Chapter 8 and packet formats.

The recovered data may be recorded on the single removable 512GB solid state disk in IRIG106 Chapter 10 compliant files.



Portable Test Unit



Ready For Transport



Rear Panel Connectors

Features

- Dual Integrated 3db wide band antennas
- Dual multiple Band L, Upper L, S and NATO band FM single receiver
- External Antenna Inputs
- Dual high performance Bit Synchronizers
- Dual channel soft decomp
- IRIG A, B and G Decoder with time seed and free-wheel feature
- Integrated GPS sixteen channel receiver
- Advanced decoder, archival, display and analysis software
- Full IRIG 106 Chapter 10 support
- 8.5 inch TFT touch screen display
- Rugged fold down keyboard
- 70MHz IF Output and Input
- Integrated BNC Break Out panel
- Bit Sync Data Output suitable for external decryption
- Single removable 512GB SSD
- IRIG106 Chapter 10 Recorder/Regenerator
- Serial .DOT user equipment interfaces
- Windows 7 Based Software

For more details contact your local agent or contact JDA Systems directly:

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The uniqueness of VuSoft is derived from flexibility and performance resulting from a highly efficient architecture. A micro messaging kernel abstracts the main system operation from the source and destination of the internal data stream. Optional libraries enable the attachment of this kernel to data from multiple sources, which can then be simultaneously acquired, displayed and processed.

Through the use of the library concept VuSoft itself is modular and virtually independent of the data source. This ensures an evolutionary path so that VuSoft can maintain compatibility with new PC hardware and software technology and new data formats. Import and export functions provide direct access to most popular databases including TMATS, Access, dBase and Oracle. A "Basic-like" Math Engine is included to generate derived parameters that may be used just like measured parameters even as inputs to other derived parameters.

VuSoft can also distribute encrypted and compressed real-time and played back data to multiple, networked PC workstations.

General Specifications

<i>Temperature</i>	<i>-20° C to 60° C</i>
<i>Storage Temp</i>	<i>Better than -20 to 80 deg C</i>
<i>Relative Humidity</i>	<i>0 to 100% non condensing</i>
<i>RMM Type</i>	<i>Removable RMM Disk</i>
<i>Weight Approximate</i>	<i>14 Kg</i>
<i>Power Requirement</i>	<i>220 W</i>
<i>Voltage/Frequency</i>	<i>96 to 260 VAC, 50 or 60 Hz</i>
<i>Size</i>	<i>205 x 390 x 490 mm (WxHxD)</i>

Receiver Specifications

<i>NATO and S-band</i>	<i>2185-2480 MHz</i>
<i>Upper L-band</i>	<i>1700-1850 MHz</i>
<i>L-band</i>	<i>1435.5-1540.5 MHz</i>
<i>Output Frequency</i>	<i>70 MHz</i>
<i>Input Sensitivity</i>	<i>-130 dbm</i>
<i>Total Noise Figure</i>	<i>Less than 7 dB</i>
<i>Gain</i>	<i>Max 25 dB with programmable attenuation</i>
<i>Signal Bandwidth</i>	<i>Greater than +/- 20 MHz</i>
<i>SFDR</i>	<i>Approx 50 @ 20 MHz BW dB</i>
<i>Tuner resolution</i>	<i>Programmable down to 50 kHz</i>
<i>Frequency accuracy</i>	<i>Better than 0.002%</i>
<i>IF Input</i>	<i>SMA for RF at 70MHz</i>
<i>Demodulation Type</i>	<i>FM</i>
<i>IF Bandwidths</i>	<i>4 User Defined Video Filters</i>
<i>Data Output</i>	<i>Level Bi-Polar (variable up to +/-5 V) 75 Ohm output</i>
<i>AGC Time Constant</i>	<i>Software variable time constants</i>
<i>Post-Detection BW</i>	<i>Fully programmable to 3MHz and 4 presets at 3.5, 4, 6, 8, 10, 12, 16 or 20 MHz</i>
<i>Post-Detect Combiner</i>	<i>Bandwidth 20 Mbps</i>

Recorder Specifications

<i>File Type</i>	<i>IRIG106 Chapter 10</i>
<i>Data Handling</i>	<i>Record, Analysis and Regeneration</i>
<i>RMM Type</i>	<i>SSD Removable</i>
<i>Transfer Speed</i>	<i>Maximum 1.5 gigabits per second</i>
<i>Record Capacity</i>	<i>512 Gigabyte internal up to 3 Terabyte external</i>
<i>Remote Control</i>	<i>RS232 or Ethernet .DOT interface</i>
<i>Network Distribution</i>	<i>IRIG106 Chapter 10 compatible Broadcast or Multicast</i>

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