Integrated Media Solutions

Portable Video Server & DVR

Visuality™ T7712 Series Secure Store-and-Stream Media Appliance

The Patton® Visuality™ Model T7712 Portable Video Server & DVR provides feature-packed, affordable mobile video for security applications, VIP protection, and situational awareness improvement

Full Definition (704x480) and Full Frame Rate (30 fps) on All Inputs

Records video at D1 (704x480) size, 30 frames-per-second (fps) while simultaneously streaming at SIF (352x240) size, 15 fps. When recording is disabled, video content can be streamed at a max resolution of D1 (704x480) size, 25 fps.

Flexible Video Recoding Rates

H.264 encoder supports D1, VGA, SIF, QVGA, QSIF, & QQVGA video resolutions at 5~30 fps.

Real-Time Location & Tracking with Integrated GPS

Acquires, records, and transports NMEA 0183 GPS location sentences both locally and via streaming. All video is time-correlated and aligned to GPS time.

End-to-End Secure Communications

IPsec support for secure encrypted transmission of media content.

Mobile or Fixed Operation

Use in mobile applications and stream content in real-time over cellular networks, or configure for fixed surveillance and monitoring applications.

Standard Protocols

Supports a range of cellular technologies: 1xRTT, EVDO Rev. 0 and Rev. A, HSPA using internal Airlink cellular modems.

Ruggedized Case

Ready for instant deployment in covert operations. Optional weatherproof enclosure is available for outdoor installations.

Integrates with Patton's Visuality™ T7900 Series Head-End Content, Control and Management System

Secure data tunnel termination from remote DVRs, content file indexing & local archiving, stream playout & re-streaming/broadcasting.

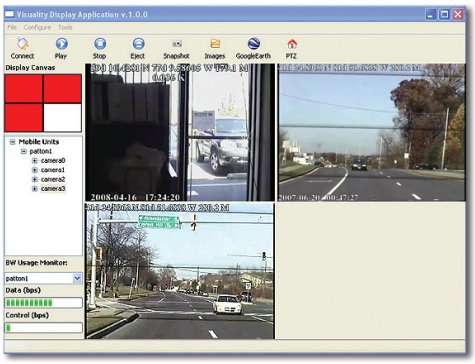
The Model T7712 Portable Video Server & DVR is ideal for use in portable surveillance applications and fixed (unmanned) installations. The lightweight unit fits easily into a backpack and is powered for up to four hours by an internal 10.8V rechargeable battery or an external AC/DC adaptor.

The T7712 compresses and stores video inputs from up to two cameras to a removable Secure Digital (SD) card. At the same time, the T7712 transmits up to two video streams wirelessly—via the public cellular network—to a remote operations center (the *headend* facility).

Due to the limited bandwidth capacity of the cellular network, the wireless video stream is transmitted in low resolution, but the same video stream is also recorded in high resolution to the SD card.

The view from either camera can be viewed through the T7712's local display output. The T7712 uses built-in global positioning system (GPS) capability to add time and location data to the recorded video.

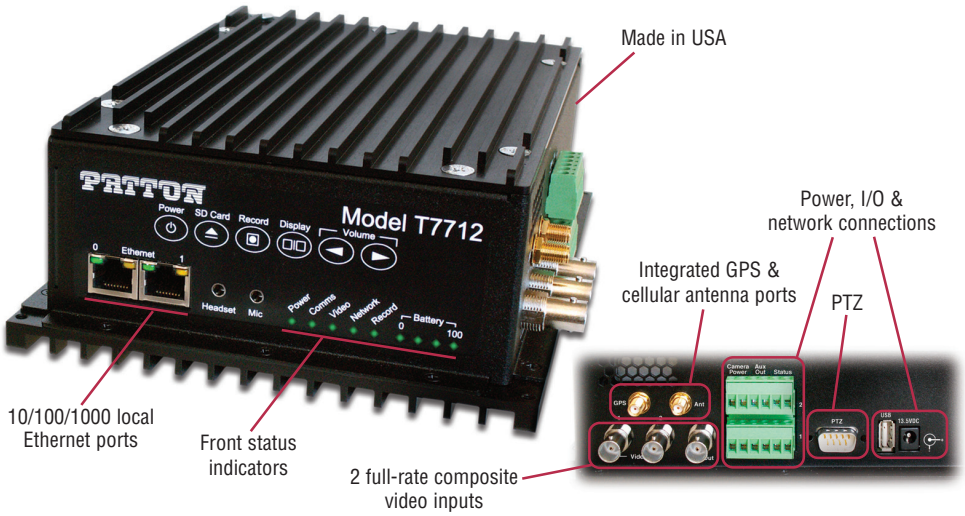
When used with Patton's Visuality™ T7910 Secure Command and Control Server (located in the headend facility), the T7712's audio/video streams frame rate, image resolution and size, along with pan, tilt, and zoom (PTZ) camera settings can be remotely controlled. A T7910 operator can ensure total and secure control of up to 24 remote units from a single point of management.



T7910 Mobile Video Server Management console powered by Patton's TrinityAE™ software services.

The Visuality system's ability to use cellular networks for transmitting video streams and remotely controlling the T7712 makes it ideal for an almost limitless number of applications (where there's cellular coverage, you can use a T7712!). The T7712 provides the only scalable and integrated solution for video streaming, storage, and playout for mobile or fixed applications.

Visit www.patton.com for more information.



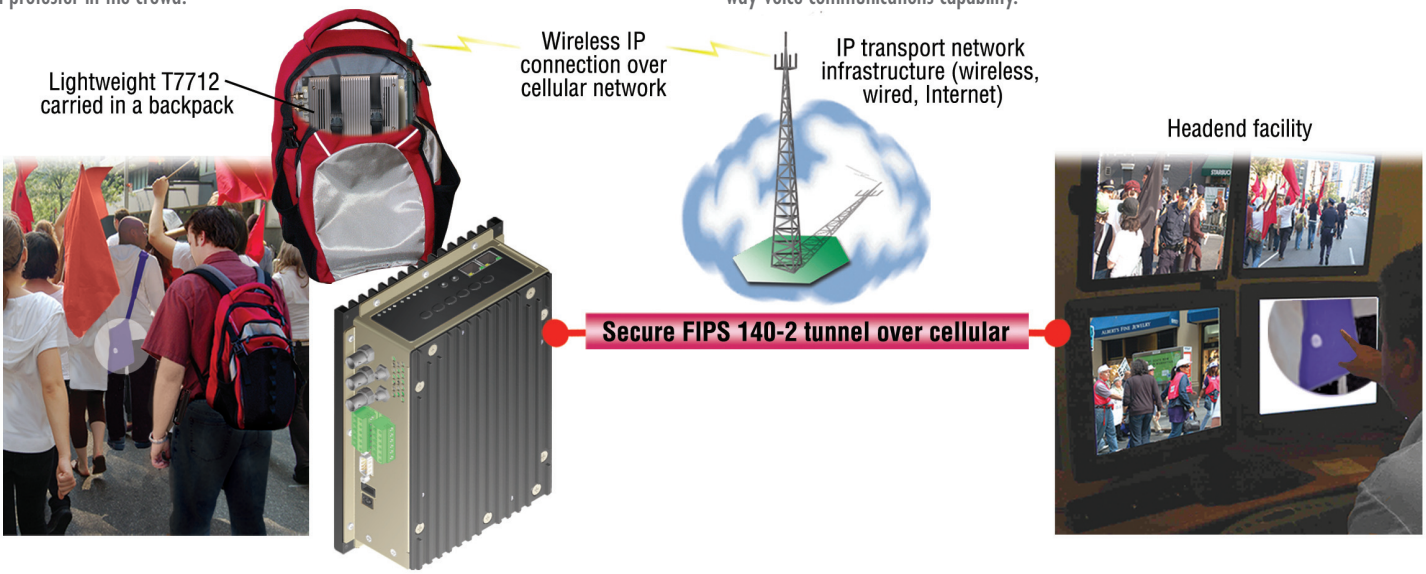
PATTON®

POWERED BY TRINITYAE®

Typical Mobile Application

The diagram below shows the Model T7712 being used in an event/crowd security application. The field agent, wearing the T7712 in a backpack that has a pinhole camera mounted in one of the straps, has observed a potential threat in the blue bag carried by a protester in the crowd.

The video stream is securely transmitted via a cellular antenna mounted in the backpack to the headend facility where the video is analyzed to determine the likelihood of danger. Instructions can then be sent to the field agent via cell phone or the T7712's optional two-way voice communications capability.



Specifications

Video Inputs
Accepts up to two composite NTSC-M or PAL format • Standard definition 525 line, 29.97 fps/PAL definition 625 lines, 25 fps • Female BNC connectors, one per input

Local Video Output
1 female BNC jack supporting NTSC composite video for local display

Audio Input
1 microphone input and 1 headphone output on 2.5mm standard headset jack

Audio Output
Single mono line-level audio output on female BNC • Single headphone output no 3.5 mm jack

Video Ingest Resolution & Processing
Record or stream any channel at a maximum of 640x480 30fps • 4 GB/hour per stream at maximum resolution • Configurable rates from 48x32 to 640x480 via any rate evenly divisible by 16 • Selectable 1–30 fps • Recorded & streamed channels can be configured independently • MPEG4/H.264 processing, view recorded or stream files with standard client viewers

Digital Video Recorder (DVR)
Record any source • Sources independently recorded with unique time-stamped file names • Field removable & lockable media drive bay • Configurable alerts & management for media full & overwrite behavior.

Streaming
Stream & source • Sources independently streamed with unique source address • Different resolution than recorded.

Audio/Video Streams Storage
SD card slot accepts SD or SDHC cards • T7712 records at 4 GB an hour for 1 video stream, 8 GB/hour for 2 streams

Cellular/Wireless Uplink & GPS
Integrated wireless options with 1xRTT, EVDO Rev. 0 and Rev. A, and HSPA using internal Airlink cellular modems • Full GPS 12-channel support • Real-time clock sync. • NMEA 0183 data recorded & streamed automatically • Separate TNC for primary uplink, diversity, & GPS antenna inputs

Data Connections & Camera Control
Two 10/100/1000 local Ethernet ports • RS-232 Console port • Pan/Tilt/Zoom (PTZ) control supporting two-wire R485 • Supports Rvision and Pelco D PTZ protocols on DB-9 interface

Security and Encryption
Private and encrypted tunnel between unit & central site • All remote unit data via tunnel & encrypted with all data encapsulated within the tunnel • Standard AES encryption • FIPS 140-2 compliant • Remote device firewalled to prevent unauthorized access & denial-of-service attacks • Government-use and commercial-use versions

Networking
Patton's TrinityAE™ Service Set • full TCP/IP networking • Software upgrades • Import/Export Config • CLI Framework • WMI Framework • Telnet/SSH • HTTP Server • System Monitor • Platform Manager • QoS • SSL • ACL/Firewall • Data & networking encryption

Management
Web-based GUI • CLI • Telnet & HTTP access • TFTP configuration up- & download • TFTP firmware upgrade • SNMPv1 agent, MIB II & enterprise MIB • Built-in diagnostic tools • Auto-provisioning—configuration & firmware • System status with 4 LEDs • Patton's Trinity™ CORBA IDL set

Dimensions
8.5L x 6.5W x 2.9H in.
(21.6L x 16.5W x 7.4D cm)

Weight
5.0 lbs (2.3 kg)

Power
Rechargeable Lithium-ion battery provides up to 4 hours of continuous operation • AC/DC adaptor for charging and operation

Environment
Operating Temp: 0–50°C • Humidity: 5 to 95%, non-condensing • Vibration: 1G sine sweep; 10–500–10Hz, 1 octave per minute 3 axis • Shock: 5G-half-sine 11ms, 3 axis

Compliance
FCC Part 15 Class A (US EMC) • CE per RTTE 99/5/EC (EMC and LVD) • Safety - EN60950

Capabilities when paired with T79XX series headend server
Over-the-air remote control and configuration of T7712 • GPS location of T7712 can be mapped on Google™ Earth application • Support for two-way voice communication

T79XX Series Headend Server

07MT7712-DS3

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