



Mobile Video System

Visuality™ T7714 Multichannel Streaming DVR

The Patton® Visuality™ Model T7714 Multichannel Store and Stream DVR provides a complete and secure video, audio, and GPS surveillance solution with integrated capture, DVR storage, and streaming.

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.

Vehicular, Mobile or Fixed Operation

Use in mobile applications and stream content in real-time, 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.

Field-Swappable Hard Drive Media

Locked drive bay for locally stored high-resolution video can easily be removed and viewed, copied, or archived.

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.

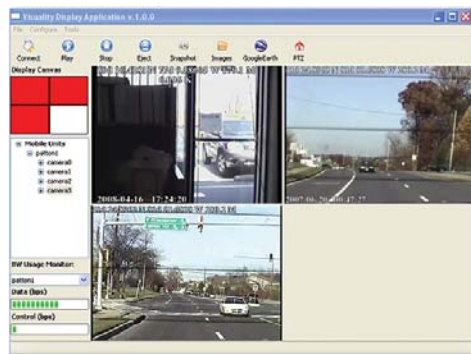
The Patton® Visuality™ Model T7714 Series Secure Store-and-Stream Media Appliances offers a complete mobile and fixed remote surveillance solution. The Model T7714 Series is specifically for applications requiring local capture, storage, and simultaneous streaming of all video sources.

Ideal for public safety, transportation, industrial and government monitoring and surveillance requirements, the T7714 supports full-resolution quality on all inputs. Along with local audio input and user I/O, the T7714 provides GPS location information with real-time and synchronized geospatial capabilities.

Wired or wireless uplink options permit easy streaming of all channels over virtually any cellular provider network while permitting over-the-air recall of any DVR recording. Now mobile systems can deliver live motion video in real-time for the ultimate in remote command and control.

Incorporating Patton's TrinityAET™ software service set, the Visuality™ solution provides standards based IP multi-service transport and interfacing with coordinated remote communications. The T7714 also adds system-wide network security and encryption options with secure end-to-end communications and multi-unit management.

When used with the Visuality™ T7910 Secure Command and Control Server an operator can ensure total and secure control of all remote units from a single point of management. Providing tunnel termination, user credentials, and complete remote unit control, the T7910 manages the simultaneous recording and re-streaming playout of up to 24 unique sources.



Mobile Video Server Management console powered by TrinityAE™.

For the most demanding surveillance applications, Patton's Visuality T7714 provides the only scalable and integrated solution video streaming, storage, and playout for mobile or fixed applications.

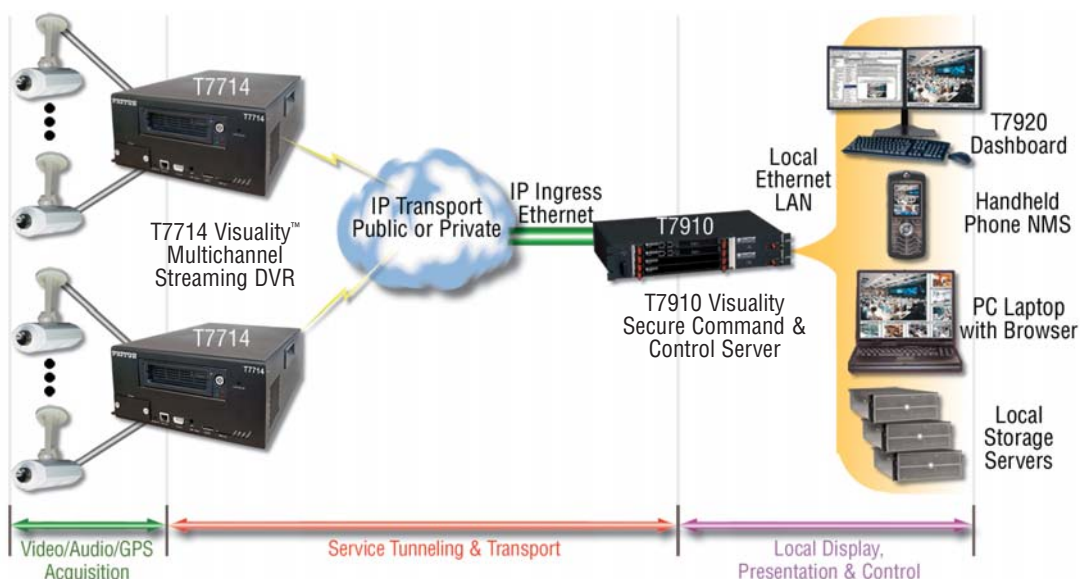
Visit www.patton.com for more information.



Typical Deployment

The Visuality T7714 Series functions as an intelligent networked media aggregator and provides the simultaneous recording and streaming playout of up to four video sources with full resolution on all channels. Including coordinated GPS location data, all data and information is provided over a secure end-to-end tunnel with user defined encryption options.

Uplink options include integrated cellular wireless support for 1xRTT, EVDO Rev. 0 and Rev. A, and HSPA using internal Airlink cellular modems. Or use the Integrated Ethernet port for connection and transport over any public or private IP network or even the Internet.



For end-to-end management and control the Visuality Model T7910 offers a secure headend command server permitting security, con-

trol, configuration, and location management for up to 24 remote T7714 streams.

Specifications

Video Inputs

Accepts up to 4 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

Audio Input

Four mono line level audio inputs • Female 75-ohm BNC • Sampling from 8 to 96 kHz • Single electret microphone input on 3.5 mm jack

Audio Output

Single mono line level audio output on female BNC • Single headphone output on 3.5 mm jack

Video Ingest Resolution & Processing

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 • H.264 encoder supports D1 (720x480 or 704x480), VGA (640x480), SIF (352x240), QVGA (320x240), QSIF (172x128), & QQVGA (160x128) video resolutions at 5~30 fps.

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.

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

T7714 Unit
11.4L x 10.0W x 5.9D in.
(29.0L x 25.4W x 15.0D cm)

T7714 Unit in Dock

17.3L x 12.3W x 5.9D in.
(43.9L x 31.2W x 15.0D cm)

Weight

T7714 Unit: 7.6 lbs (3.4 kg)
T7714 Dock: 15.4 lbs (7.0 kg)
T7714 Unit in Dock: 23 lbs (10.4 kg)

Power

Input: 13.1VDC nominal Negative ground system • Consumption: 120W • Integrated ignition/accessory sense and activation with sleep/wake mode • Graceful shutdown on power-loss

Environment

Operating Temp: 0–85°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

Mounting Options

Mobile: flange ears for trunk or in vehicle mounting • Fixed mount standard

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