



Real Time 3G/4G Wireless Video Solution For Enhanced Situational Awareness



TVU transmitters are portable live video transmission solutions that utilize multiple 3G/4G/WiFi/WiMax/Ethernet connections to capture and transmit live professional-quality HD video from practically any location. With TVU, law enforcement, security and military agencies around the world can transmit live real-time encrypted video that gives operational commanders unfettered access to events for improved field tactical decision making.

Easy to Use

TVU Transmitters are simple to use in the field. No manual in-field configuration is required. Simply plug in a camera and push the green button to begin transmitting live video from the field to the command center. TVU Transmitters start up in less than 20 seconds from a cold start and automatically establish all available wireless connections, giving field teams the ability to transmit live video on the fly.

Lightweight and Portable

TVU Transmitters come in all shapes and sizes ranging from a small backpack to a compact solution weighing in under 3 lbs. TVU also works in moving vehicles, giving security teams the flexibility to transmit live video on the move without requiring a complicated setup.

Reliable Real-time Encrypted Transmission

Inverse Statmux Plus, or IS+, is a proprietary TVU technology that is used for transmitting live HD video over IP. With IS+, a single source is reverse multiplexed across multiple channels for transmission. The transmission is then re-aggregated at the receiving end. Most importantly, IS+ uses an advanced FEC algorithm that produces superior transmission performance. IS+ is able to use minimal data overhead without latency introduced by packet retransmission. The result of transmitting over multiple channels simultaneously and better FEC is a dependable and stable HD quality transmission at sub-second latency.

On-Demand Video Retrieval

TVU transmitters offer store and forward functionality for on-demand video retrieval. TVUPack is capable of capturing 7 hours of continuous video footage in HD, ensuring that a full quality recording is available when you need it. If wireless network connectivity is lost, TVU's internal drive will store the captured footage and automatically begin forwarding stored footage once connection is restored.



TVUPack Specifications

	TM8200
Video Input Resolution	HD/SD-SDI or HDMI 1080i 59.94/50, 720p 59.94/50, 576i 50, 480i 59.94
Audio Input	Embedded 2 channel
Audio/Video Encoding	Enhanced H.264 encoder
Return Video Feed	Pack feed; SDI input at TX; Requires hotspot
Start-up Time	Less than 20 seconds
Supported Data Connections	Simultaneously aggregates up to 9 data connections including WiFi and Ethernet. System supports cellular 3G/4G/LTE, Wi-Fi, 802.11ac Wi-Fi, 5GHz Wi-Fi, WiMax, Microwave and KaBand, KuBand, BGAN Satellite connections.
Glass-to-Glass Latency	As low as sub-one second
Video Recording	7 hours of continuous recording
External Interface Connectors	SDI, HDMI, Ethernet, IFB
Power Source	Dual hot swappable Gold Mount Anton Bauer batteries or optional V Mount batteries External Power Adapter: 100V to 240V AC
Battery Run Time	Can run up to four hours in two battery configuration
Transmitter Controls	One button start On-pack monitoring and management Remote monitoring and management using mobile smart device or laptop
Backpack Dimensions	7 3/4" (D) x 11" (W) x 13.5" (H) 19.6 cm (D) x 27.9 cm (W) x 34.2 cm (H)
Weight	13.5 lb/6.12 kg without batteries
Operating Temperatures	0°C to 40°C (32°F to 104°F)

TVUPack Receiver Specifications

	TX3200
Electrical	Line Voltage: 100-240V AC, 50/60 Hz 5A
Configuration	1RU standard rack mount
Audio / Video Output	BNC – SD/HD – SDI (1080-50i/ 59.94i, 720-50p/59.94p, NTSC/ PAL) w/embedded audio (Optional analog output)
Genlock	BNC – Tri-Level or BB
Display	DVI or HDMI
IFB Input (optional)	External USB audio input with level control (mic/line), 1/4" & XLR
Network I/O	1 independent 10/100/1000 BASE-T RJ45 Ethernet Interfaces, 2 x USB 2.0, 2 USB 3.0
Dimensions	1.7" x 17.2" x 9.8" 43mm x 437mm x 249mm (HxWxD)
Operating Environment	10-35° C (50-95° F), Humidity 20%

*Specifications are subject to change without notice and all features may not be available with encryption option enabled.



The TVUPack Receiver is a compact 1U rack-mount server. It can store this content in its on-board storage, and output it over SDI audio/video connections. Its intuitive user interface provides complete control over the TVUPack, freeing the camera operator in the field from worries about configuration. With multiple Receivers, each one can act as a hot standby for all the others.