



Monitor, Control and Distribute TVUPack, SDI and IP Video Transmissions



- Powers TVU Grid - TVU's IP based video switching, distribution and routing solution
- Decodes multiple types of feeds: TVUPack, SDI and web streams
- Monitor all aspects of a live transmission, including bit-rate and latency
- Provides complete control over TVUPack transmitters and modem cards
- Delivers the best picture quality even when there are extreme fluctuations in bandwidth

TVU Transceivers are powerful professional broadcast-quality servers that can accept multiple video feeds. TVU Transceivers can take live TVUPack transmitter feed onto the TVU Grid IP video distribution, routing and switching solution. TVU Transceivers are capable of receiving in-field transmission from TVUPack backpack and camera-mount transmitters. In addition, TVU Transceivers can ingest any SDI input to seamlessly feed the video to other locations via TVU Grid. Grid enabled Transceivers can output an IP stream for a variety of codecs and wrappers. All TVU Transceivers allow for easy control over every transmission.

Share Live Video Streams

TVU Grid Compatible - TVU Grid is a simple IP-video distribution, routing and switching solution with the ability to seamlessly switch live IP video content and share live video streams between multiple remote locations. TVU Grid enables the efficient switching and routing of video content from any location and to distribute it to any other location that has a TVU Transceiver.

Complete Control Over Every Transmission

User-friendly layout – Watch the live video transmission while also monitoring the bite-rate and latency throughout the entirety of the transmission. The transceiver interface allows the operations center to manage and monitor the end picture, in turn permitting the TVUPack transmitter operator in the field to focus on capturing the video. Easily view error rate, line quality and battery reserve in a simple but informative status bar. Survey the real-time status of multiple transmitters that are out in the field in order to easily switch between multiple live shots.

Web-based Receiver Interface – The Web-based receiver interface enables users to monitor and control the TVUPack Receiver interface from any Web-enabled browser. The Web-based receiver interface also enables users to control multiple transmissions from one single computer.

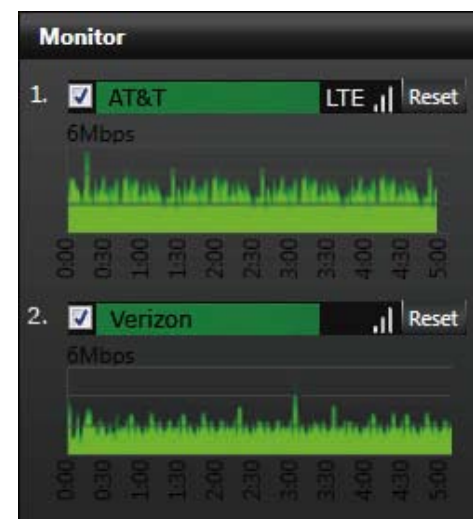
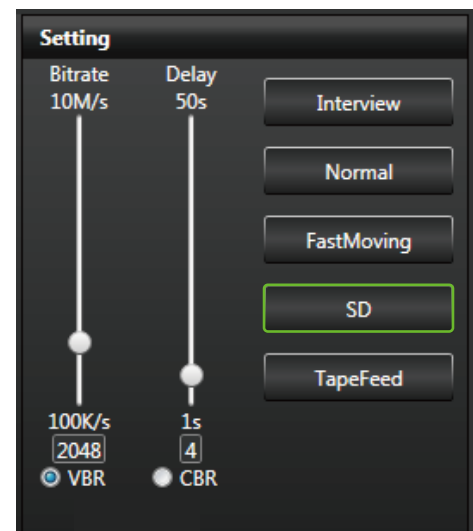
Control the Live Video Feed – Go live with just the click of a button or switch between transmissions on the fly during a live transmission. Easily change the bite-rate and latency for the optimal transmission quality. Quickly stop a live feed or replay a video segment. Add the optional IFB feature and speak directly to the TVUPack transmitter operators from the control center.

Smart VBR Technology – TVUPack’s Smart VBR functionality enables TVUPack to adapt quickly and efficiently to extreme fluctuations in bandwidth during live transmissions. The operator only has to set the desired latency for the live shot, and Smart VBR will automatically adjust picture quality based on the available bandwidth.

Adjustable Mode Selection – Switch with ease between five pre-set modes for bite-rate and latency, enabling you to choose the setting for each individual broadcast depending on the conditions of the transmission. Choose from Interview, Normal, Fast Moving, HD, and Tape Feed to set the most optimal bite-rate and latency.

Monitor Signal Strength for Each Connection – Monitor every connection in each of your TVUPack transmitters through an easy to read status panel. The transceiver interface provides all the necessary information about the current status of all connected 3G/4G/LTE modem cards, WiFi and Ethernet connections, or satellite or microwave links for each TVUPack transmitter including carrier name, connectivity strength and IP address.

Easily Manage the Configuration of Every Modem – Users can enable or disable each connection, remotely configure the modem cards through a web based interface, and complete a full reboot reset of individual modem cards all from the transceiver interface.



Go Live with External IP Video Sources – The TVU Transceiver supports the decoding of external IP video sources such as YouTube so that users can go live with these sources straight from the transceiver interface.

Communicate With Each TVUPack Transmitter

IFB – Add the optional IFB functionality to speak with a remote camera operator using the TVUPack transmitter. Users can provide audio instructions directly to the camera operator in the field before, during, and after live transmission. With one click of the mouse, switch between multiple IFB sources or talk to all of your in-field transmitter operators at once. The camera operator in the field is notified when the IFB function is live by a small status bar on the TVUPack transmitter screen.

GPS Locator – Pinpoint exactly where one or all of your TVUPack transmitters are located when you have multiple transmitters in the field. With one click of a button, the TVU Transceiver connects to an online map and pinpoints precisely where a TVUPack transmitter is located anywhere in the world. Use the optional IFB function to direct the TVUPack operator to a specific location.



Retrieve, View, And Archive Footage From Any TVUPack Transmitter

Automatic Download of Recorded Content – With the TVU LiveSync feature, the recorded video from a TVUPack backpack transmitter live shot is automatically uploaded to the TVU Transceiver, providing a pristine transfer of the captured video segment.

View and Retrieve Archived Footage Directly from the TVUPack Transmitter

TVU Transceivers provide extensive control for viewing, selecting and downloading video footage recorded on the TVUPack's solid state hard drive. With the transceiver interface, users can preview any archived video footage from a live TVUPack, precisely clip the desired video frames, and download them directly to the receiver's hard drive for editing purposes.



Upload Archived Video Content – TVU Transceivers allow for video content to be uploaded to the user-interface for playback or distribution. By using a regular file transfer protocol (FTP), media content can be directly uploaded from virtually any device in any location to the transceiver through the transceiver's IP address.

TX3200 Transceiver

The TX3200 is a 1RU rack-mountable server that is installed at the production facility and can be easily integrated into any station's workflow. The TX3200 transceiver is compatible with TVU Grid, TVU's award-winning IP video distribution, switching and routing solution, allowing broadcasters to not only receive transmissions from TVUPack transmitters in the field, but to also ingest any SDI input and seamlessly feed the video to other broadcast stations via TVU Grid.



Technical Specifications*

	TX3200 Specifications
Electrical	Line Voltage: 100-240V AC, 50/60 Hz 5.2-2.6A
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), ¼" & 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.

9/25/2014