

TVU Aerial Newsgathering Pack

Live Aerial HD Video Transmission to Any Location



Technology leader TVU Networks partnered with the leading drone manufacturer, DJI to provide the world's first Aerial Newsgathering Pack, giving news organizations and professional video production crews the ability to transmit live full HD video midair to any broadcast facility as TVU integrated proprietary wireless IP video transmission technology with DJI's unmanned aircraft systems (UAS) for mobile control and operation of camera-equipped drones to provide the highest quality of HD video transmission to leading broadcasters across the country.

The TVU Aerial Newsgathering Pack combines DJI's Inspire 1 drone with a TVU One ultra-compact IP video transmitter in a single complete package. Designed for fast anywhere deployment, the Aerial Newsgathering Pack is capable of transmitting live full HD video with sub-second latency while the Inspire 1 drone is flying – more than 20 minutes of flight time. The live video can be received at any broadcast facility or CDN and then shared with a TV, social media or other web audience. With TVU and DJI, broadcasters can quickly deploy drone technology into their existing production.

TVU's Aerial Newsgathering Pack delivers a fully integrated live transmission solution capable of delivering live video from practically any location. Both the TVU One transmitter and DJI Inspire 1 drone fit in a portable pack for fast and easy deployment.

TVU One Technical Specifications*

Video Input Resolution	HD/SD-SDI or HDMI 1 x HD/SD-SDI (BNC) input – 720-59.94P/50P, 1080-59.94i/50i, 480-59.94i/480-29.97P, 576-50i/576-50p 1 x HDMI (Type A) - 720-59.94P/50P, 1080-59.94i/50i, 480-59.94i/480-29.97P, 576-50i/576-50p
Audio Input	Embedded up to 4-channel audio
Audio/Video Encoding and compression	Enhanced H.265 encoder / HEVC compression
Transmission	Inverse StatMux Plus (IS+)
Dual Encoders	Simultaneously live stream a transmission over IP while also encoding a completely separate recording to the internal SSD that can be retrieved for future use
Return Video Feed	TVU One feed or SDI input at TX; Requires hotspot
Start-up Time	Less than 20 seconds
Supported Data Connections	Simultaneously aggregates up to 12 data connections including WiFi and Ethernet. System supports cellular 3G/4G/LTE modems, 2.4 GHz Wi-Fi, 5GHz Wi-Fi, WiMax, Ethernet, Microwave and KaBand, KuBand, BGAN Satellite connections.
Glass-to-Glass Latency	0.5 seconds
Video Recording	Up to 20 hours of live recording time
External Interface Connectors	SDI, HDMI, USB, Ethernet, IFB
Power Source	A single removable, rechargeable internal battery
Internal Battery Run Time	120 minutes
DC Input	Right angle Mini Jack DC input that connects to external battery or supplied AC adapter. External power adapter: 11-18V DC.
Transmitter Controls	One button start On-unit monitoring and management Remote monitoring and management using mobile smart device or laptop
TVU Social Support	Supports live streaming to Facebook Live. Also capable of capturing and posting still images of TVU One's live stream to social media platforms
Encoder Hardware Dimensions	19cm x 12cm x 7cm (7.48" x 4.72" x 2.76")
Weight	2.2 lbs / 1 kg
Carrying Case	Belt-mount or shoulder bag carrying case options with hot swappable battery mount
Operating Temperatures	0°C to 40°C (32°F to 104°F)
TVU Software Version	OS 5

*Specifications and features are subject to change.

3/29/17

TVU One Software Packages*

Feature	Standard	Pro	Enterprise
One Button Operation	✓	✓	✓
20 Second Start Up	✓	✓	✓
Smart VBR	✓	✓	✓
Live Video Transmission	✓	✓	✓
Wireless Control Using Web Interface	✓	✓	✓
TVU Social	✓	✓	✓
Compatibility with TVU Grid	✓	✓	✓
Compatibility with TVU Booking	✓	✓	✓
Live Recording	✓	✓	✓
Live Record Hours	0.5	3.5	7
IFB	✗	✓	✓
Autosync	✗	✓	✓
Time Code Marking	✗	✓	✓
Hotspot Internet Access	✗	✗	✓
Metadata Marking	✗	✗	✓
Video Clipping and Download	✗	✗	✓
Return Video Feed	✗	✗	✓
Dual Encoder	✗	✗	✓
GPS Tracking	✗	✗	✓
Number of Enabled USB External Modem/Dongle Ports	0	2	4

Designed for use with TVU One hardware transmitters

*Features are subject to change.