



TVU Networks®

TVU One

The ultimate compact IP video transmitter: HD picture quality with half-second latency at 3Mbps

Multiple Transmission Types

Aggregates cellular, Microwave, Satellite, WiFi, BGAN, and Ethernet

Low Latency

Transmit with 0.5 second latency at 3Mbps in real-world conditions

Transmission Management with Smart Device

Wirelessly monitor and control the live transmission from a variety of wireless mobile smart devices

Touchscreen controls

Features an LCD touchscreen with live video preview and transmission controls

Supports Embedded Modems

Holds up to six embedded modems with the option of adding up to four external USB modems

Dependable Video

Uses proprietary IS+ technology with advanced FEC and H.264 or Enhanced H.265/HEVC

Model TM1000 V2.0

One Button Operation

Single-button start that boots up in less than 40 seconds

Smart VBR

Dynamically manages the bit-rate to adapt quickly to extreme fluctuations in bandwidth during live transmissions

Portable & Lightweight

Weighs just 2.2 lbs / 1 kg

IFB Enabled

Speak directly to a headphone equipped cameraman or talent out in the field



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 8-channel audio
Audio/Video Encoding and compression	Optional H.264 or optional Enhanced H.265/HEVC
Transmission	Inverse StatMux or optional 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; HDMI output or stream via HotSpot
Start-up Time	Less than 40 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 WiFi, 5GHz WiFi, WiMax, Ethernet, Microwave and KaBand, KuBand, BGAN Satellite connections
Glass-to-Glass Latency	0.5 seconds
Video Recording	Up to 7 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	90 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
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	TVU6

*Specifications are subject to change.

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