TVU One®

Advantages

△ **Reliably transmits high picture quality video even in congested**
△ **or challenging environments**
△ **Uses patented IS+ transmission algorithm**
△ **Support for HDR and 1080P60 encoding at as little as 800kbps**
△ **Long internal battery life**
△ **HEVC/H.265 video compression**
△ **CNCed from high-density aluminum**

Unlike any transmitter.

HD picture quality with half-second latency at 3Mbps.

TVU One® - TM1000 V3 Technical Specifications*

Video Input
3G-SDI and HDMI 2.0 video inputs

Audio Input
Up to 8 channel embedded SDI/HDMI audio

Supported Data Connections
Simultaneously aggregate up to 12 data connections including internal/external cellular, WiFi, Ethernet, IP Microwave or Satellite (Ka/Ku/BGAN). System includes up to 6 embedded CAT12 3G/4G/LTE modems (WCDMA B1,2,4,5,6,8,9,19 LTE B1,2,3,4,5,7,8,9,12,13, 18,19,20,26,28,29,30,32,41,42,43,48,66) and optional 5G modems, embedded 2.4/5GHz WiFi, Ethernet, and 4 USB connections for external modem connections

Modem Support
6 embedded
4 USB

Power Source
A single removable, rechargeable internal battery with an optional external Gold or V-Mount battery

Transmitter Controls
One button power-on, on board monitoring and management, remote monitoring and management using mobile smart device or Command Center web service

Power Consumption
Max 30W

Storage
Up to 18 hours with 128 SD card

Video Input Resolution
SDI Input
HD 1080p 25/29.97/30/50/59.94/60, 1080i 50/59.94/60, 720p 50/59.94/60
SD PAL 625i/50
SD NTSC 525i/59.94
HDMI Input
HD 1080p 25/29.97/30/50/59.94/60, 1080i 50/59.94/60, 720p 50/59.94/60
SD PAL 625i/50
SD NTSC 525i/59.94

Encoding and Compression Standard
H.265/HEVC or H.264

Variable Bit-Rate Encoding
TVU Smart VBR hardware encoder

Bit-Rate
100K-30Mbps

Return Video Feed
TVU One feed or SDI input at Server HotSpot stream on the same server

Recording
Supported, Dual Encoder

Glass-to-Glass Latency
0.5 seconds

Battery Run Times
Internal - 4.5 hours
External (PowerPac) - 8 hours

SD Card Slot (up to 256G)
1 card slot

Operating Temperatures
0°C to 40°C (32°F to 104°F)

Unit Dimensions & Weight
7.48 x 4.72 x 2.76in (190 x 120 x 70mm)
2.2lbs (1kg)

Voice Communication
Bidirectional IFB

Color Space & Bit-depth
8bit/10-bit, 4:2:0

Patented Transmission Algorithm
Inverse Statmux Plus (IS+)

Start-Up Time
Less than 30 seconds

External Interface Connections
SDI, HDMI, USB, Ethernet, IFB

Store and Forward Supported

DC Input
Right angle Mini Jack DC input that connects to external battery or supplied AC adapter. External power adapter: 11-19V DC

Control Screen Specifications
3.5 inch, 16:10 LCD touchscreen

FCC and CE Compliant

Anatel Certified

TVU One® Software Packages

Features	Standard	Pro	Enterprise
One Button Operation	Yes	Yes	Yes
30 Second Start Up	Yes	Yes	Yes
Encoding: H.265/HEVC or H.264	Yes	Yes	Yes
Hotspot Monitoring and Control	Yes	Yes	Yes
Inverse StatMux Plus (IS+)	Yes	Yes	Yes
Live Video Transmission	Yes	Yes	Yes
Live Record Hours	0.5	3.5	7
Smart VBR	Yes	Yes	Yes
Web Interface Control	Yes	Yes	Yes
Satellite/Cellular Hybrid Connectivity	Yes	Yes	Yes
Economy Preview	No	Yes	Yes
4-Channel Audio	No	Yes	Yes
TVU Voice (VoIP/IFB)	No	Yes	Yes
Accelerated File Transfer	No	Yes	Yes
Time Code Marking	No	Yes	Yes
External USB Modem Support	No	Yes	Yes
Encoding Switching: H265 & H264/H265	No	Yes	Yes
Progressive Download	No	No	Yes
Hotspot Aggregated High Speed Internet Access	No	No	Yes
Metadata Marking	No	No	Yes
Video Clipping and Download	No	No	Yes
Return Video Feed	No	No	Yes
Dual Encoding	No	No	Yes
GPS Tracking	No	No	Yes
Data Priortization Control	No	No	Yes
TVU Router: High speed wireless connectivity anywhere	No	No	Yes
TVU Timelock: Untethered multiple synchronized remote transmission	No	No	Yes
Number of Enabled USB External Modem/Dongle Ports	0	2	4

TVU Application Compatibility

Feature	Standard	Pro	Enterprise
TVU Alert: Instant alert messaging across all TVU devices	Yes	Yes	Yes
TVU Analytics: Dashboard monitoring of all data usage	Yes	Yes	Yes
TVU Grid: IP video switching, routing and distribution	Yes	Yes	Yes
TVU MediaMind: AI & cloud based story centric workflow platform	Yes	Yes	Yes
TVU Producer: Cloud based feature rich multicamera production	Yes	Yes	Yes
TVU Booking: Automated management of all TVU transmissions	No	No	Yes

www.tvunetworks.com

857 Maude Avenue, Mountain View, CA, 94043

+ 1.650.969.6732