



One

Advantages

- △ Switch from single channel to 4-channel fully frame-synchronized REMI wireless transmission at any time.
- △ Boasts a weight of just 1.79kg with internal battery and stands at only 20mm tall.
- △ Transmits a stable and reliable glass-to-glass latency in as low as 0.3 seconds on cellular only.
- △ Aggregates up to 12 connections simultaneously with support for up to 6 embedded 5G modems.
- △ Features the most advanced antenna array supporting multiple antennas per modem available and uses the latest generation Sub 6GHz, 3GPP Release 16, 5G embedded modems.
- △ Utilizes patented next generation ISX technology for the most reliable and efficient transmission even under the most challenging network conditions.
- △ Offers optional 4K 50/60P HDR picture quality (12G-SDI ready hardware).
- △ Includes on-board, removable Li-Ion battery for unlimited runtime.

The Most Compact, Lightweight
Combination 5G Cellular
Transmission and Multi-Camera
Remote Production Portable
Transmitter



One Technical Specifications*

Form Factor

Portable backpack

OS

TVU 8

Video Resolutions

UHD 2160p

23.98/24/25/29.97/30/47.94/48/50/59.94/60

HD 1080p

23.98/24/25/29.97/30/47.94/48/50/59.94/60

HD 1080psf23.98/24/25/29.97/30

HD 1080i 50/59.94/60

HD 720p 50/59.94/60

SD PAL 625i/50

SD NTSC 525i/59.94

Video Inputs

Up to 4

Audio Inputs

Up to 8 channels embedded SDI,

8 channels embedded HDMI

Supported Data Connections

Simultaneously aggregates up to 12 data connections including internal/external cellular, WiFi, Ethernet, IP Microwave, Satellite (Starlink/Ka/Ku/BGAN). System includes up to 6 embedded 5G modems (w/ LTE/3G fallback), embedded 2.4/5GHz WiFi, Ethernet, and 4 USB connections for external modem connections

Modem Support

6 embedded 3GPP Release 16 5G/LTE/3G

Encoding and Compression Standard

H.264 or H.265/HEVC

Transmission Protocol

Inverse Statmux X

Variable Bit-Rate Encoding

TVU Smart VBR hardware encoder

Bit Rate

100K-125Mbps

Return Video Feed

TVU Producer or SDI input at Server

HotSpot stream on the same server

Recording

Supported, Dual Encoder

Glass-to-Glass Latency

0.3 seconds (via cellular)

WiFi

Onboard and external 2.4/5GHz

Battery Run Times

Internal - 2 hours; External (PowerPac) - 4 hours

Transmitter Controls

One button power-on, onboard monitoring and management, remote monitoring and management using mobile smart device or Command Center web servic

Storage

Up to 18 hours with 128 SD card

SD Card Slot (up to 256G)

1 card slot

Voice Communications

TVU RTIL, VoIP or IFB

Color Space & Bit Depth

4:2:0 or 4:2:2 (Up to 1080p), 8bit or 10bit

Start Up Time

Less than 30 seconds

External Interface Connections

SDI, HDMI, USB, Ethernet, IFB

Control Screen Specifications

3.5 inch, 16:10 LCD Touchscreen

Power Source

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

DC Input

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

Dimensions

(210 x 120 x 70mm)

Weight

3.1 lbs (1.4 kg) without battery,
3.9 lbs (1.79 kg) with battery

Operating Temperature

0°C to 40°C (32°F to 104°F)

Certifications and Compliance

FCC and CE Compliant
Anatel Certified

One Software Packages

Features	Standard	Pro	Enterprise	RPS-ONE-SW
One Button Operation	Yes	Yes	Yes	Yes
30 Second Start Up	Yes	Yes	Yes	Yes
Encoding: H.265/HEVC or H.264	Yes	Yes	Yes	Yes
Hotspot Monitoring and Control	Yes	Yes	Yes	Yes
Inverse StatMux Plus (IS+)	Yes	Yes	Yes	Yes
Live Video Transmission	Yes	Yes	Yes	Yes
Live Record Hours	0.5	3.5	7	7
Smart VBR	Yes	Yes	Yes	Yes
Web Interface Control	Yes	Yes	Yes	Yes
Satellite/Cellular Hybrid Connectivity	Yes	Yes	Yes	Yes
Economy Preview	No	Yes	Yes	Yes
4-Channel Audio	No	Yes	Yes	Yes
TVU Voice (VoIP/IFB)	No	Yes	Yes	Yes
Accelerated File Transfer	No	Yes	Yes	Yes
Time Code Marking	No	Yes	Yes	Yes
External USB Modem Support	No	Yes	Yes	Yes
Encoding Switching: H265 & H264/H265	No	Yes	Yes	Yes
Progressive Download	No	No	Yes	Yes
Hotspot Aggregated High Speed Internet Access	No	No	Yes	Yes
Metadata Marking	No	No	Yes	Yes
Video Clipping and Download	No	No	Yes	Yes
Return Video Feed	No	No	Yes	Yes
Dual Encoding	No	No	Yes	Yes
GPS Tracking	No	No	Yes	Yes
Data Prioritization Control	No	No	Yes	Yes
TVU Router: High speed wireless connectivity anywhere	No	No	Yes	Yes
TVU Timelock: Untethered multiple synchronized remote transmission	No	No	Yes	Yes
Number of Enabled USB External Modem/Dongle Ports	0	2	4	4
Support up to 4 Full HD inputs	No	No	No	Yes
TVU Application Compatibility				
TVU Alert: Instant alert messaging across all TVU devices	Yes	Yes	Yes	Yes
TVU Analytics: Dashboard monitoring of all data usage	Yes	Yes	Yes	Yes
TVU Grid: IP video switching, routing and distribution	Yes	Yes	Yes	Yes
TVU MediaMind: AI & cloud based story centric workflow platform	Yes	Yes	Yes	Yes
TVU Producer: Cloud based feature rich multicamera production	Yes	Yes	Yes	Yes
TVU Booking: Automated management of all TVU transmissions	No	No	Yes	Yes



www.tvunetworks.com
 857 Maude Avenue, Mountain View, CA, 94043
 + 1.650.969.6732