



# 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® Technical Specifications\*

**Video Input**

3G-SDI and HDMI 2.0 video inputs

**Audio Input**

Upto 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, 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, onboard 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



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