



# TVU One® 4K

## Advantages

- △ Compatible with a wide variety of devices and video formats
- △ Reliable low-latency, high-quality transmission
- △ Support for HLG and 10-bitHDR
- △ Encodes up to 10 bit. 4K 50/60P
- △ Portable and easy to use
- △ Max bit-rate 100Mb/s
- △ 5G supported

Because details matter.

The first cellular 5G Pack  
with true 4K 50/60P 10-bit  
transmission.



## TVU One® 4K Technical Specifications\*

**Video Input**

12G-SDI and HDMI 2.0 video inputs

**Audio Input**

Embedded Audio, up to 8 channels

**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/5G modems, embedded 2.4/5GHz WiFi, Ethernet, and 4 USB connections for external modem connections

**Modem Support**

6 embedded 5G/LTE  
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

4K 2160p60/59.94/50/30/29.97/25

HD 1080p25/29.97/30/50/59.94/60, 1080i 50/59.94/60, 720p 50/59.94/60

HDMI Input

4K 2160p60/59.94/50/30/29.97/25

HD 1080p59.94/60, 1080i 50/59.94/60, 720p 50/59.94/60

**Encoding and Compression Standard**

H.265/HEVC or H.264 (HD Only)

**Variable Bit-Rate Encoding**

TVU Smart VBR hardware encoder

**Bit-Rate**

100K-100 Mb/s

**Return Video Feed**

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

**Recording**

HD Only

**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 45°C (32°F to 113°F)

**Unit Dimensions & Weight**

7.48 x 4.72 x 2.76in (190 x 120 x 70mm)  
2.2lbs (1kg)

**Voice Communication**

Bidirectional TVU Voice(VoIP)

**Color Space & Bit-depth**

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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