



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

Because details matter.

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



TVU One® 4K - TM1000 V3 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 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), embedded 2.4/5GHz WiFi, Ethernet, and 4 USB connections for external modem connections

Modem Support

6 embedded 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 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 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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