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 ready

Because details matter.

The first cellular Pack solution 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 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 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
REC 601, REC 709, REC 2020.

Color Precision
8, 10-bit YUV 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