

QUANTUM W Portable Audio Codec

Remote Commentary Unit with optional Video decoder function

OVERVIEW

This CU includes 3 mic /line inputs and 3 headphone outputs. Additional sources to its embedded mixers are USB Audio, AES/EBU or AoIP/AES67 (DANTE or Ravenna optional) inputs.

The CU is built around two bidirectional audio codecs and a video decoder. The communication can follow either other BRAVE, SIP or RTP protocols. The device is stereo capable.



APPLICATIONS

All-in-one box solution for remote commentaries linking two bidirectional audio streams with four independent voices /sounds /or mixed audios to the studio or Host Broadcast Center.

Additionally a video downlink stream can be decoded internally and shown on a general purpose monitor, enriching the information supplied to the talents.

Highly reliable jobs are achieved using Diversity and Bonded streams over a group of network interfaces (2x Ethernet, 2x LTE and Wifi).

Perfect sounds are encoded using a choice of advanced and low delay compression algorithms for sport and concerts.



SPECIFICATIONS

Specifications and designs are subject to change without notice.

AUDIO FEATURES

- AUDIO INPUTS**
- 3 Mic/Line with 48V phantom power (XLR connectors)
 - 1 AES/EBU (XLR connector)
 - 1 International Sound (XLR connector)
 - 1 USB Stereo
 - Dante/AES67 or Ravenna/AES67 (optional)

- AUDIO OUTPUTS**
- 2 Auxiliary Outputs (XLR connectors)
 - 1 USB Stereo
 - 3 Headphone Outputs (jack 6,35mm)
 - Dante/AES67 or Ravenna/AES67 (optional)

- COMPRESSION ALGORITHMS**
- PCM (16, 20 & 24 bits)
 - Enhanced apt-X
 - OPUS
 - G722
 - G711
 - MPEG Layer 2
 - MPEG AAC LC, LD, HE & ELD (optional).

- AUDIO MIXING**
- In-built channel mixer for both input and output sources
 - Two different mixing matrixes for audio inputs

- CONTROL**
- Local control via touchscreen or web browser
 - Remote control of levels and signals via ProdisControlPlus

VIDEO FEATURES

- VIDEO OUTPUT COMPRESSION**
- H.264 video decoder and encoder (2021)
 - Simultaneous encoding and decoding operation

- PROTOCOLS**
- MPEG-TS, SRT and BRAVE transmission protocols

COMMUNICATIONS FEATURES

- IP PROTOCOL**
- Fully TCP/UDP/IP connectivity
 - IP Unicast, Multicast and Multi-Unicast audio streaming transmission/reception
 - Independent channels for transmission and reception
 - SIP/SDP/RTP/STUN according to N/ACIP EBU Tech 3326 & 3368
 - FEC (Forward Error Correction) and Active Packet Recovery to recover from packet losses
 - Automatic Jitter Buffer to avoid audio dropouts
 - SIP Diversity with two IP interfaces

- OPERATION**
- Dual stereo operation over IP: Program & Talkback lines
 - Bonding or diversity upto 7 links for secure audio streaming with proprietary BRAVE protocol

- ETHERNET**
- 2 Ethernet ports for redundancy or splitting control and stream
 - 10/100/1000 BaseTx Ethernet ports (RJ45 connectors)

- Wi-Fi**
- Wi-Fi interface 802.11 b/g/n with USB module (optional)

- 3G/4G**
- 2 options for streaming (optional)
 - Two internal modems (local or worldwide coverage)
 - External Communications Module with 4 SIM cards

- ISDN**
- Optional

OPERATIONAL FEATURES

- CONTROL**
- User friendly interface via touch panel, built-in Web Server or ProdisControlPlus application.
 - Configurable user access control
 - Powerful and flexible Presets, Profiles and Alarms

- DIMENSIONS & WEIGHT**
- L x W x H: 210 x 235 x 85 mm
 - Approximate weight: 1.9 Kg

