



# **QUANTUM2 W Portable Audio and Video Codec**

Remote Commentary Unit with optional Video encoder/decoder function

## **OVERVIEW**

This unit 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 unit is built around two bidirectional stereo audio codecs and a video codec. The communication can follow either other BRAVE, SIP or RTP protocols. Video protocols available are BRAVE, SRT, RTMP/RTMPS and MPEG-TS.



## **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. Uplink video might be encoded.

Highly reliable transmissions are achieved using Diversity and Bonded streams over a group of network interfaces (2xEthernet, 8xLTE/5G, 1xWi-Fi).

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





phone: +34 91 6896880 email: sales@prodys.net fax: +34 91 6943777 web: www.prodys.net

## **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 Auxiliary Line (XLR connector)
  - 1 USB Stereo
  - 8 chan. Dante/AES67 or Ravenna/AES67 (optional)

AUDIO OUTPUTS

- 2 Auxiliary Outputs (XLR connectors)
- 1 USB Stereo
- 3 Headphone Outputs (jack 6,35mm)
- 8 chan. 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 ProdysControlPlus

#### **VIDEO FEATURES (optional)**

**VIDEO INPUT** 

- HDMI or SDI automatic detection, SD Formats: PAL/NTSC. HD Formats: 720p50/59/60, 1080i50/59/60 and 1080p50/59/60. Interlaced formats only supported by HEVC encoding.
- VIDEO OUTPUT HDMI

COMPRESSION

- AVC/H.264 or HEVC//H.265 video decoder and /or encoder.
- Simultaneous encoding and decoding operation for BRAVE and SRT.

STREAMING

- SRT, BRAVE, MPEG-TS and/or RTMP/RTMPS.
- PROTOCOLS
  Streaming forwarding with audio embedding.

### **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 adjustment.
- BRAVE & SIP Diversity with two IP interfaces

**OPERATION** 

- Dual stereo operation over IP: Program & Talkback
  - lines
- Bonding or diversity up to 10 links for secure audio streaming with proprietary BRAVE protocol

**ETHERNET** 

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

Wi-Fi

optional Wi-Fi 802.11 b/g/n/ac with external antenna

4G/5G

- 2 options for streaming (optional)
  - Two internal modems (local or worldwide coverage). 4G or 5G optional.
  - External Communications Module with 4 or 8 modems. 4G or 5G optional.
- 1 USB for connecting external LTE modems

#### **OPERATIONAL FEATURES**

CONTROL

- User friendly interface via touch panel, built-in Web Server or ProdysControlPlus application.
- Configurable user access control
- Powerful and flexible Presets, Profiles and Alarms
- 1 general purpose USB

POWER

Long life battery (Optional)

DIMENSIONS

L x W x H: 210 x 235 x 85 mm

& WEIGHT

Weight: 2.,5 Kg





phone: +34 91 6896880 fax: +34 91 6943777 email: sales@prodys.net web: www.prodys.net