

Portable IP Audio Codec + Commentary Unit + Video Decoder

**The incredible box that combines
3 devices in 1!**

V-QUANTUM is a powerful box that includes all the technical resources necessary for a successful audio contribution.

V-QUANTUM offers two modes of operation:

1.-Commentary unit, sending its audio inputs to on-site infrastructure like OB-Vans or IBCs using audio-over-IP **Dante** or **AES67** protocols.

2.-Codec mode, acting as an audio mixer and transmitting two audio programs directly to studio using IP networks (up to 4 mono channels).

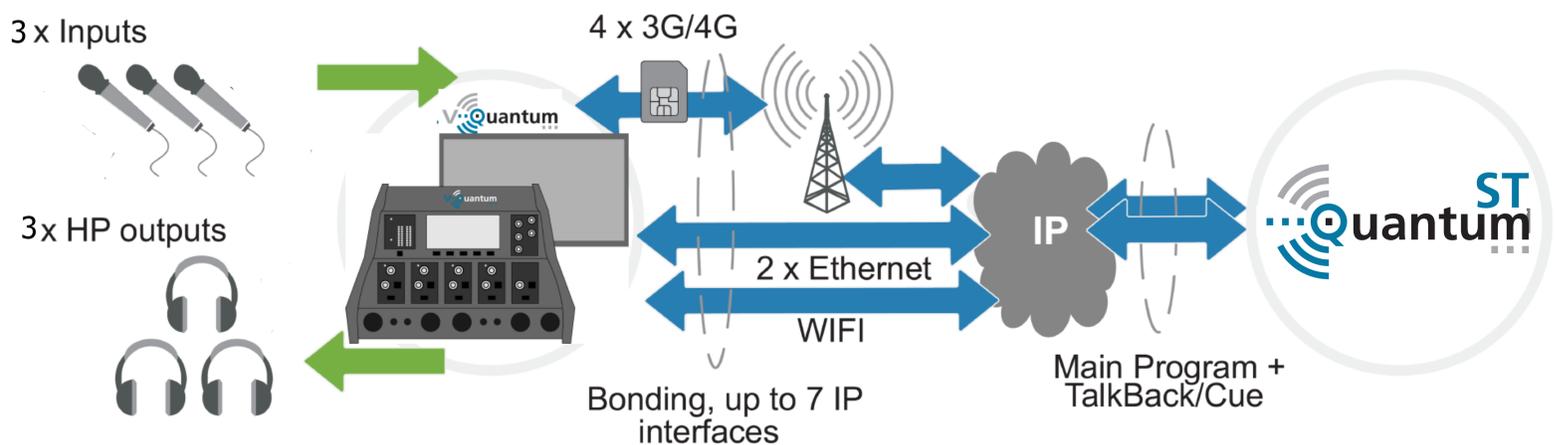
V-Quantum codec inherits world-class IP technology from the Prodys Ikusnet Video Codec Family: Automatic Jitter Buffer, Adaptive Bit rate, **Bonding of up to 7 IP links** (Ethernet, 3G/4G, Wi-Fi) for secure audio streaming with the best possible audio quality.

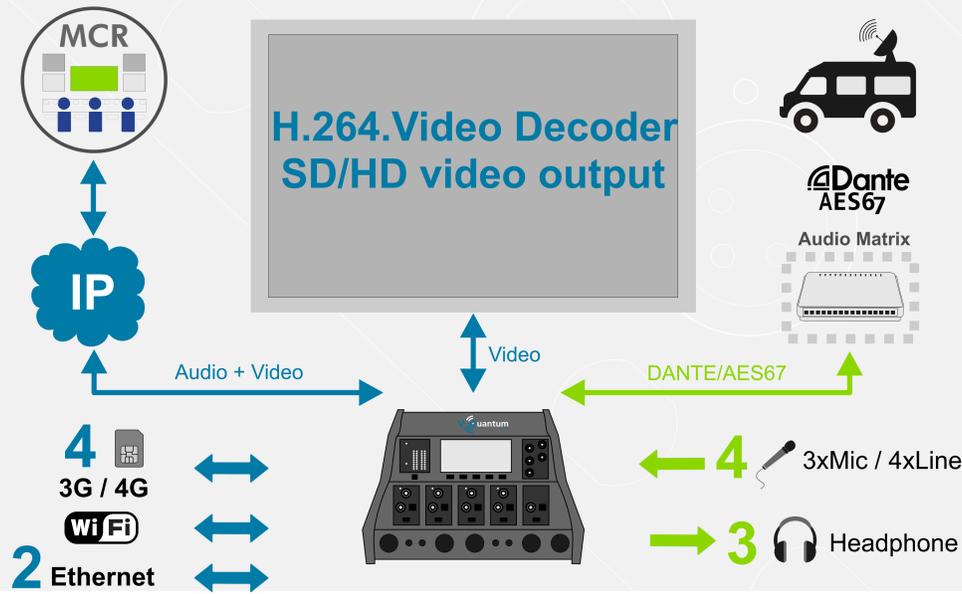
A **Wireless Communication Module** is available with up to four 3G/4G data links with bonding capabilities. This module is external for better reception and versatile installation options.



Operation Features

- ✓ **User friendly interface via touch panel**, built-in Web Server or **ProdysControlPlus** application.
- ✓ **Bonding of up to 7 IP links** (1xWi-Fi, 2xEthernet, 4x3G/4G) for secure audio streaming.
- ✓ **2 x Ethernet** interfaces: Either to split streaming and control or for bonding 2 IP links.
- ✓ **4 x 3G/4G** data links with **bonding** capabilities. **External 3G/4G module** for better reception.
- ✓ **Widest range of audio compression algorithms**: OPUS, G711/G722, MPEG 1/2 Layer II, MPEG4 AAC LC/HE/ELD, Standard and Enhanced apt-X, Linear PCM 16/24bits.
- ✓ **Alarms**: Real Time alarms management through **SNMP traps** and **GPO**.
- ✓ **Portability**: Long duration battery; unit can be operated whilst in carry pack.
- ✓ **Usability**: Configurable User access control, powerful and flexible Presets, Alarms, Profiles.
- ✓ **Dante/AES67** support when the unit works in Commentary Unit mode.
- ✓ Optional **H264 video decoder** allowing the reception of a video IP stream (BRAVE protocol).
- ✓ **ProntoNet Family compatible** with V4 protocol (optional).





Portable IP Audio Codec + Commentary Unit + Video Decoder

Audio Features

- ✓ Inbuilt **channel mixer** for both input and output sources.
- ✓ All Mic Lines include 48V **phantom power**.
- ✓ XLR connectors in inputs (3 x Mic/Line + 1 Line) inputs and Aux Outputs.
- ✓ 6,35 mm jack connectors in Headphone Outputs.
- ✓ Local or Remote control of levels and signals (I/O matrix).
- ✓ 1xUSB Stereo Audio Input/output interface
- ✓ **Dante/AES67** optional. RJ45 and SFP socket.
- ✓ **Audio Compression Algorithms:** OPUS; G711 A/μ Law; G722; MPEG 1,2 Layer II; MPEG AAC LC, LD, HE & ELD (optional); Enhanced and Standard apt-X™; PCM (16,20 & 24 bits)

Video Features

- ✓ **H264 Video Decoder.**
- ✓ DVI Output connector.

Communications Features in codec mode: IP, Wi-Fi and 3G/4G

- ✓ **Dual stereo operation over IP:** Program and Talkback lines.
- ✓ **IP**
 - 2 Ethernet ports for bonding or splitting control and stream.
 - 10/100BaseTx Ethernet ports, 2xRJ45 connectors.
 - Fully **TCP/UDP/IP** connectivity.
 - **IP Multicast** and **Unicast** audio streaming transmission/reception.
 - **IP Compatibility:** SIP/SDP/RTP/STUN according to **N/ACIP EBU Tech 3326 & 3368**.
 - **SIP Diversity** with two IP interfaces.
 - **FEC** (Forward Error Correction) and **Error Concealment** to recover from packet losses.
 - Available for **Bonding or Diversity** with Wi-Fi and/or 3G/4G
 - **Automatic Jitter buffer** to avoid audio dropouts.
- ✓ **Wi-Fi**
 - **Wi-Fi** interface 802.11 b/g/n compatible.
 - Available for **Bonding or Diversity** with Ethernet and/or 3G/4G
- ✓ **3G/4G** (optional)
 - Streaming over 3G/4G networks with **2 options:**
 - 1 Internal modem and **2 USB modems.**
 - **External Communications Module** with up to 4 3G/4G SIM cards.



External Communications Module

Dimensions

	Width	Height	Depth	Weight
V-Quantum	270 mm	88 mm	235 mm	2.3 Kg