

# datasheet



# **Quantum Receiver**

# **IP-Native Wireless Camera Receiver**

The Vislink Quantum wireless camera receiver provides high reliability reception from wireless camera transmitters and takes live video production into new and more efficient workflows by putting IP connectivity at its heart.

Through multi-input diversity capability, delivering high quality LMS-T and DVB-T demodulation the Quantum receiver delivers reliable RF reception and coverage for wide area wireless production – allowing complete freedom to roam for camera operators. Through ultra-efficient HEVC video decoding support the Vislink Quantum receiver provides highest quality UHD 4k video decoding as well as multi-service HD decode support – Including HDR capability.

Vislink's Quantum receiver is designed with IP connectivity at its heart - Enabling production teams to fully implement remote production systems over IP fibre networks or the unmanaged internet thereby increasing production efficiencies, allowing event operations teams to make better use of their staff and resources.



# **Key Features**

- Diversity LMS-T and DVB-T reception with up to 16x RF inputs
- 4K UHD and HD decoding with HDR support
- HEVC and MPEG-4 video decode compression technology
- Dual service HEVC HD Decode
- IP transport stream input and output with SMPTE 2022-2 and SRT support

# **Typical Applications**

- Live Event on-site coverage
- Remote production Event coverage



E: sales@vislink.com T: 44 1442 431300 / + 1 908 852 3700



# datasheet



at the heart of the action



# **RF Parameters**

#### RF Inputs

- · 4x RF inputs implementing MRC Diversity reception per demod
- Up to 4x demod cards per unit
- Packet switching diversity between demod cards

#### Frequency Band

• 100MHz -1000MHz\*\*Use in conjunction with the L3025series down converters.

#### FEC

- 1/2, 2/3, 3/4, 5/6, 7/8 Guard Interval
- 1/32, 1/16, 1/8, 1/4

#### Frequency Selection

• Up to 16 pre-set channels, or tuning in 1MHz steps via front panel control

#### Demodulation

- DVB-T • LMS-T

#### **Demodulation Modes**

• QPSK, 16QAM, 64QAM

## Bandwidth

- DVB-T bandwidths of 6/7/8 MHz
  LMS-T bandwidths of 3/4/5/6/7/8/10/12/14/16/20 or 24 MHz with dual pedestal Receiver Threshold
- Receiver threshold: -92dBm to BER 10-5 (nom. QPSK)

### IP Transport Stream **Processing**

### IP Inputs

- RTP/UDP IP input
- Up to 100Mbit/s
- SMPTE2022-2 ProMPEG FEC

#### IP Outputs

- RTP/UDP IP input
- Up to 100Mbit/sSMPTE2022-2 ProMPEG FEC
- SRT

#### Video & Audio Parameters Video Encoder Profiles

- HEVC (H.265) UHD & HD:
  Profile: Main 4:2:2 10 @ L5.1
  Sampling: 8bit & 10bit
  Video rate: 1.0-40Mbps

- Video format: up to 2160p 60
- MPEG-4 AVC (H.264) HD:
  Profile: 422HP @ L4.2

- Sampling: 8bit & 10bitVideo rate: 1.0-40Mbps
- Video format: up to 1080p 60

#### **Video Outputs**

- 3G-SDI SMPTE-424M (UHD)
- HD-SDI SMPTE-424M (HD)
- 6G-SDI SMPTE-2081 12G-SDI SMPTE-2082

#### Video Formats

- · 480i @ 29.97
- 576i @ 25

- 720p @ 50, 59.94 & 60 1080i @ 50, 59.94 & 60 1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94 & 60 2160p @ 23.98, 24, 25, 29.97,
- 30, 50, 59.94 & 60

#### **Audio Decoder Profiles**

- AAC\*\* (AAC-LC & HE-AAC)
- MPEG-1 (Layer 1 & Layer 2) • Linear PCM Passthrough

#### **Audio Outputs**

- · Digital:
- Up to 4x stereo pair Embedded audio over SDI
- · Analogue:
- 2x stereo pair Framelock :
- CVBS Black & Burst
- · Tri-level sync

#### Latency

- · Single frame latency
- \*In combination with Vislink HCAM transmitter in HEVC mode and in combination with Vislink L1700 & Clip On-4 transmitters

### De-scrambling

- Biss-1, Biss-E, AES-128, AES-256, Bcrypt-128, Bcrypt-256 Dual Decode (HEVC Only)
- · BISS-E Injected
- BISS-E Buried ID

#### Connectors

- Main Video Output
- 2x SFP cages supporting: 4x 3G SDI out
- 2x 6G SDI out
- 1x 12G SDI out • Monitor Video Output
- 2x SFP cages supporting:4x 3G SDI out2x 6G SDI out

- 1x 12G SDI out
- 1x ASI Input Connector:
- 75 Ω BNC (F)

- GenLock Connector: 75  $\Omega$  Micro BNC (F)
- 1x ASI Output Connector:
- 75 Ω Micro BNC (F) Audio Connectors:
- 2x 5-Pin Lemo
- 1x Stereo pair per connector
  FocalPoint ODU Tx Head\*\*: 6-Pin LEMO Socket
- 2x 15-way HD D-Type
- Return data

- RS232/RS485/TTL OCP\*\*
- Sony/Grass Valley/OCP5 Tally\*\*
- Red/Green Wet/Dry
- Ethernet Transport Stream & Control Connectors:
- 1 x WAN port RJ45 10/100/1000
- 3 x LAN port (2 with 802.3at Type 2 "PoE+")\*\*
- RJ45 10/100/1000

#### Flexibility & Power Supply Power

• 100 – 240VAC; Up to 230W (approximate, depending on configuration)

- Physical & Environmental · Size & Weight:
- 44 mm (H) x 430 mm (W) x
- 368 mm (L)
- (1.7" (H) × 17" (W) × 14.5" (L))
- \*\*Check Availability

#### User Interface

• Touchscreen and push-wheel controlled front panel control and monitoring

### **Environmental**

- Operating Temperature:O°C to 50°C(32°F to 122°F)
- · Humidity: 95% long term

# Remote Control

 Comprehensive remote control and monitoring via Ethernet web browser interface

Software Upgrade · Unit upgrades via web interface

© Copyright 2021 Vislink Technologies, Inc. All rights reserved. All other products or services referenced herein are identified by the trademarks or service marks of their respective companies or organizations. We reserve the right to change specifications without notice. Where applicable, versions of this device may not have been approved by the Federal Communications Commission (FCC). Where applicable, these versions are not offered for sale or lease until approval of the FCC has been obtained.