



VISLINK

At the heart of the action.



Q-Link Datasheet

Q-Link Airborne TS Control System

Aerial Downlink Solution

Live Sports

ENG



The Vislink Q-Link is an integral component of the Airborne Video Downlink Systems (AVDS). The Q-Link controls, aggregates, and distributes video captured from airborne platforms to multiple observers over secure IP networks, including wired Ethernet, Wi-Fi, IP Satellite, and IP cellular networks. The Q-Link extends critical situational video to an unlimited number of observers.

The Q-Link accepts video streams from Vislink's family of IP diversity receivers, adaptively transcodes the received video into various standard streaming formats and distributes the video, audio and metadata to multiple IP-based viewing terminals. Viewing terminals can range from a single PC running VLC, smartphones connected over a cellular network, to an HD video wall.

The Q-Link Aggregation is an ecosystem allowing coordination of receive systems components and transmitters. When using Ethernet/IP interconnects, it takes advantage of eLink technology, coordinating all the remote receivers. Statistics are consolidated and displayed on the web page, and frequency synchronization is preformed through a single interface.

The Q-Link features a four service HD decoder with dual channel capabilities.

Features

- Local Multi-Service HD Decoder
- Dual Channel Option
- IP Aggregation
- Multi-user streaming
- ABR—Adaptive Bitrate Transcoding
- Central control of remote receive sites
- Share video over secure networks
- Encrypted video
- Distribute over public internet
- Intuitive web page control
- 1RU Server
- Unlimited users

Typical Applications

- Law Enforcement
- Event Coverage
- Newsgathering
- Sports Coverage
- Ship-to-Shore
- ISR (Military and LE)



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Airborne Video Down Link System Overview



Webpage Control

The screenshot shows the IP Aggregator web control interface. Key elements are highlighted with red boxes and numbered 1 through 4:

- 1. Video Display:** A live streaming video window showing an aerial view of a residential area.
- 2. Active Antenna:** Two circular antenna status gauges for 'Coast Guard' and 'CRX2 RX 2', both showing 100% activity.
- 3. Settings:** A configuration panel with tabs for Network, RF, Streaming, Decoder, eLinks, and Admin. It includes a table for managing eLinks.
- 4. Status:** A detailed status panel showing modulation settings (Frequency: Direct 2,200,000 Hz, Encryption: Mode - Off, Key # 1), receiver status (Coast Guard and CRX2 RX 2 both Connected), and stream out options (Automatic RTSP Streaming and Manual Streaming).

Vislink Control

1. Video Display
2. Active Antenna
3. Settings
4. Status

Q-Link

System

Control

Webpage, Local Interface

Receivers Supported

CIRAS, CRX6, CRX2, MobilCMDR

Channels Supported

Up to 2 Channels (Dual Channel Optional)

IP Aggregation

- Scaled Geography with Meta Data
- Down Select to 2 Receivers
- MPEG TS

Internal Decoder

Decoder Architecture

GPU Based

Services Supported

- 4 1080p Services
- 1 4K

Decoder

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

Output

- SDI
- HDMI with extension

Decryption

- BCRYPT AES 128 and 256
- Vislink Legacy AES

Stream Engine

IP Inputs Aggregation

MPEG TS

IP Stream Outputs

- UDP/RTP
- RTSP (unicast and Multicast)
 - RTMP
 - SRT

Power

Power Requirements

90-240VDC

Power Consumption

120W

Physical and Environmental

Size

RU (19 inches)

Weight

2.1kG or 4.6lbs

Weight

-10 to +50°C

