



Video Technology

Video System Design

Effectively delivering video across town or around the world requires digitization and compression of analog video feeds. UAV Comm designs completely new and upgrade solutions around the variables that dictate the best architecture for these complex video distribution systems such as:

End-user Requirements

Available Bandwidth (Terrestrial and/or Satellite)

Operational Support (Manpower, Funding, etc.)

Existing Network Infrastructure

Existing and Planned Video Requirements

Video & Network Standards

Video Technology Expertise

Our expertise in the field of current and emerging video standards is used to provide and maintain a system that best balances all the variables. This expertise includes:

Analog NTSC video (6MHz)

Uncompressed Digitized NTSC video (270Mbps)

MPEG-1 "VHS quality" video (1-1.5Mbps)

MPEG-2 "DVD quality" video (2-5Mbps)

MPEG-4 Part 10, Advanced Video Coding "next generation" video (<56Kbps-10Mbps)

MPEG4 Part 10 allows higher quality video across existing bandwidths or alternatively provide the same quality video across a smaller bandwidth.

Metadata Processing

To correlate location, time/date stamps, and other situational awareness data with video, metadata is often incorporated with the video feeds. Such metadata is important for those seeking to efficiently view, analyze, store, retrieve, or otherwise exploit the video footage. We offer insight and expertise in:

Closed Captioning Line 21 data (Analog video)

Key-Length-Value (KLV) format

National Geospatial Intelligence Agency (NGA) Motion Imagery Standards Profile (MISP) format

UAV Comm specializes in designing and implementing standards-based distribution methods for video. By developing, implementing, and managing solutions that incorporate video compression with standard network architectures, we achieve and maintain bandwidth efficient, cost-effective, scalable solutions for delivering video to end points around the world.

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