ADPRO® FastVu™
Video Transmission System

Data Sheet

ADPRO® FastVu™ introduces the next generation of video transmission products. Developed to satisfy the most demanding requirements, ADPRO® FastVu™ encompasses years of technological leadership of the video transmission market for security and surveillance applications.

Setting new benchmarks for live transmission of outstanding quality picture and audio, ADPRO® FastVu™ utilises LAN/WAN network systems or data links to protect and monitor your sites, 24 hours a day, anywhere in the world.

Two models are available. Choose from a 20 channel transceiver or 10 channel transmitter only model.

All models have integrated high-speed pre-alarm capture, multiple levels of video resolution, superb quality bi-directional audio, high speed PTZ camera control and new generation AMK-300 external keyboard/joystick, making ADPRO® FastVu™ the product of choice.

Features

- 20 (or 10) video and alarm inputs.

- Exceptional colour or monochrome picture quality with full colour range and 256 grey levels. PAL or NTSC selectable.

- Live video over digital networks.

- RJ45 connection to Ethernet and V.24 interface to 230 kbps.

- User selectable image transmission rate provides efficient throttle control of overall network bandwidth.

- Simultaneous multiple pre and post alarm image capture and management.

- On board storage of six post-alarm sequences (three images each) and 180 pre-alarm images.

- Auto sequencing display.

- High quality audio transmission with automatic gain control and echo cancellation.

- Direct microphone input and loudspeaker output.

- A wide range of PTZ protocols support a variety of camera stations with variable speed joystick control.

Outstanding Picture Quality

Using state of the art digital video compression techniques, ADPRO® FastVu™ provides rapid initial image transmission and the fastest updates of all activity. Outstanding picture quality is maintained regardless of the link speed.

Comprehensive Remote Control

Industry standard serial interfaces allow easy integration with a wide variety of telemetry, matrix switcher, access control and image storage systems.

No Alarms Missed

Automatic transmission and storage of high quality snapshot image sequences from six concurrent alarm events eliminates the threat of decoy alarms.

Rapid and accurate assessment of site activity is provided by simultaneous display of high quality stored alarm and live images in a split screen format.

For complete analysis, the pre-alarm feature can be set to capture video images from any or all channels.

High Quality Audio

Integrated listening ability assists in the alarm verification process, while transmission of the operator's voice to the site provides instant intruder control. ADPRO® FastVu™ uses sophisticated audio compression techniques to ensure that high-quality, bi-directional audio uses the minimum possible bandwidth of the communications channel.

Specifications

Video Inputs
20 BNC video channel inputs (model 2020). 10 BNC video channel inputs (model 2010). 1V p/p video input, 75-ohm or high impedance (switchable). Colour or monochrome selection.

Video Outputs
1x BNC into a 75-ohm Output connection.
1x S-VIDEO (model 2020 only).

Alarm Inputs
20 external alarm inputs (10 on model 2010) that trigger an alarm and store images from the corresponding video channel. Programmable for contact opening or closure.

Control Outputs
Transmitter: 3 x open drain control outputs may be set via the Receiver using the AMK-300 External Keyboard. 1 x general alarm relay with contacts (N/O, N/C).

Pre-Alarm Video Capture
Up to 180 high quality pre-alarm images are captured. Time interval between images on the channel selectable from 0.5-9.0 seconds.

Post Alarm Video Capture
3 high quality images are captured for each of up to 6 concurrent alarms. Time interval between images are selectable from 0.5 to 9 seconds.

Image Transmission Rate
The first image transmission time and subsequent update rate is a function of the selected picture quality, scene complexity and communication interfaces. User selectable maximum trans-mission rate for efficient throttle control of network bandwidth.

Typical update rates with 10% scene changes.

Ethernet: = 25 images/second
ISDN: 128k = 25 images/second
PSTN: 33k6 = 12.5 images/second

Image Resolution
Colour or black and white.
Intensity - 256 grey levels; Maximum image resolution over 400 horizontal TV lines.
Resolutions available (PAL):
4 CIF   PAL: 704 x 576 pixels (NTSC: 704 x 480)
2 CIF   PAL: 704 x 288 pixels (NTSC: 704 x 240)
CIF   PAL: 352 x 288 pixels (NTSC: 352 x 240)
QCIF   PAL: 176 x 144 pixels (NTSC: 176 x 120)

Audio Input/Output
Bi-directional audio communication between Transmitter and Receiver on links greater than 14.4kbps, 300 Hz to 3.3 kHz band-width, 1V p/p (typ), 1.5V p/p (max). Separate inputs for microphone and line plus output for external speaker.
Connector for VM22A Multiple Audio Switcher.

Communication Links
Network
10BaseT Ethernet port supporting TCP/IP.

Serial
V.24 interface (8 data bits, no parity, max baud rate = 230 kbps) via a 25 pin D connector. Supports Hayes AT compatible PSTN or ISDN modems in a dial up or leased line configuration. Support for Multilink PPP or V.120 data protocol over ISDN.

Serial Data Port
External bi-directional RS232 data link. Programmable baud rate, data bits, stop bits, flow control, 57.6kbps (max.).

PTZ Telemetry Port
Differential balanced input/output RS485 serial port. (Used for control of PTZ telemetry stations).

Keyboard Port
Keyboard or Computer port for computer control via IEC Protocol support.

System Control & Setup
Operator control via AMK-300 External Keyboard.

Software Upgrades
New software upgrades are loaded via a PC.

Power Requirements
11 - 18VDC, 15 Watts (max) at 12VDC supplied via an external plugpack.

Construction and Dimensions
Standard 19" rack-mount, 2U high subrack to DIN4194.
482mm (19") W x 44.4mm (1.8") H x 210mm (8.25") L.

Weight
3 kilograms (6.5 pounds)

Operating Conditions
Operating temperature range 0°C-50°C (32°F-122°F).
Humidity less than 90% non-condensing.

EMC Compliance
Emissions: Class A compliance to EN55022, CISPR 22, FCC Part 15, AS3548.
Mains Harmonic Emissions to EN61000-3-2.
Immunity: EN50130-4 (Alarm Systems Product Family Immunity Standard).
Immunity to Digital Radio Telephones to EWV 50141.

Warranty
Twelve (12) months.

Accessories
- AMK-300 Keyboard
- VM87 Hand-held Programmer
- VM22A Audio Switcher
- VM23 Intercom Handset

Ordering Information
AFV-2020-TCVR   20 Channel Transceiver - rack-mount
AFV-2010-TCVR   10 Channel Transmitter - rack mount.

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