

ADPRO[®] FastVu[™]

Video Transmission System

Data Sheet

ADPRO introduces the next generation of video transmission products and sets new benchmarks for live transmission of outstanding quality picture and audio. Developed to satisfy the most demanding requirements, ADPRO FastVu encompasses years of technological leadership of the video transmission market for security and surveillance applications.

ADPRO FastVu utilises LAN/WAN network systems or data links to protect and monitor your sites, 24 hours a day, anywhere in the world.

Three models are available. Choose from a 20 channel rackmount Transceiver or 10 channel Transmitter only models in wall or rackmount cases.

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

- 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.
- Exceptional colour or monochrome picture quality with full colour range and 256 grey levels. PAL or NTSC selectable.
- 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.
- High quality audio transmission with automatic gain control and echo cancellation.
- Integration with ADPRO Amux Video Management system.
- On-screen setup in English, French, Italian, German, Spanish, Portuguese, simplified Chinese and Korean.
- Operates with ADPRO Video Central for sophisticated PC based central control and management.
- Direct microphone input and loudspeaker output.
- A wide range of PTZ protocols support a variety of camera stations with variable speed joystick control.
- Option available to support Down-the-Coax telemetry.
- 20 (or 10) video and alarm inputs.
- Auto sequencing and quad display.



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 (models 2010 and 3010). 1V p/p video input, 75-ohm or high impedance (switchable). Colour or monochrome selection, automatic or manual gain control per channel.

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 and 3010) 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 transmission 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).
'Down-the-Coax' telemetry supported via optional hardware module.

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 (model 2020 and 2010)

Standard 19" rackmount, 2U high subrack to DIN4194.
482mm (19") W x 44.4mm (1.8") H x 210mm (8.25") L.

Construction and Dimensions (model 3010)

Unsealed, wall mounted metal cabinet 380mm (15") H x 370mm (14.5") W x 130mm (5.1") D.

Weight

Rackmount - 3 kilograms (6.5 pounds)
Wallmount - 4.5 kilograms (9.9 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 EWW 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 - rackmount.

AFV-2010-TX

10 Channel Transmitter - rackmount.

AFV-3010-TX

10 Channel Transmitter - wallmount.

AM-DTCT-2

'Down-the-Coax' telemetry module option.

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Printed: September 2001 P/N 200691.06

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