ADPRO® Fast Scan Series III

Video Transmission System

Data Sheet

Fast Scan Series III establishes a new benchmark in alarm verification standards with the fastest transmission of outstanding quality colour or black and white pictures. Send simultaneous bi-directional audio communication using standard or digital telephone lines, or plug directly with an Ethernet Network Adaptor. In addition the Fast Scan Series III CAP model provides pre-alarm storage, transmission and replay of up to 180 images for detailed alarm verification.

Features

- 10 video and alarm inputs, expandable up to 100
- Outstanding colour or black and white picture quality. Up to 928 x 576 pixel (PAL) and 752 x 480 pixel (NTSC) resolution, full colour range and 256 grey levels
- Up to 10.5 picture updates per second on PSTN and up to 12.5 on ISDN systems
- Direct Ethernet connection using optional VM53 Network Adaptor
- Simultaneous multiple post and pre-alarm image capture and management
- Automatic alarm generation for camera or cable failure
- Simultaneous video and bi-directional audio transmission over the same communication link
- Screen displays with full screen, 4-way or 10-way splits
- Unique fast auto-sequencing guard tour
- Flexible support of a wide range of camera PTZ telemetry systems
- 12VDC operation available
- Fast Scan Series III CA compatable with ADPRO® VM41 plug-in transmitter module
- Remote set-up of ADPRO Axiom multi-channel Video Intrusion Detector with VM41 module
- On screen set-up in English, French, German, Italian or Spanish
- Operates with ADPRO Video Central for sophisticated PC based central control and management

Quality Pictures, Fast!

Digitisation of the full range of colours and the maintenance of 256 intensity grey levels ensure no picture information is lost, even with poorly illuminated scenes.

State of the art digital image compression and proprietary conditional refreshment techniques provide rapid initial image transmission and the fastest updates of all activity.

No Alarms Missed

Automatic transmission and storage of 12 high quality snapshot images from 4 separate alarm events eliminates the threat of decoys, the downfall of less sophisticated systems. Automatic simultaneous displays of stored alarm and live images in a quad format, allow the most rapid and accurate assessment of site activity.

For complete analysis an optional pre-alarm feature can be set to capture video images from any selected channel(s) of the first chassis. 180 pre-alarm images are available to be divided equally between the selected channels.

Audio

Integrated listening ability assists the alarm verification process, while transmission of the operator's voice to the site provides instant intruder control.

Comprehensive Remote Control

Industry standard serial interfaces allow easy integration of a wide variety of telemetry, matrix switcher, access control and image storage systems. Separate control inputs enable direct operation of remote site equipment such as lights and gates.

Specifications

Video Inputs
10 video channel inputs, (expandable to100 on CA and CAP models). 1V p/p video input, 75-ohm or high impedance (switchable).

Video Output
1 video output into a 75-ohm load.

Alarm/Control Inputs
Transmitter: 10 external alarm inputs (expandable to 100 on CA and CAP models) which trigger an alarm and store images from the corresponding video channel. Programmable for contact opening or closure.
Receiver: 10 external control inputs set the state of the corresponding control outputs on the Transmitter.

Alarm/Control Outputs
Transmitter/Receiver: Form C, single pole, changeover, general alarm relay.
Transmitter: 10 open collector control outputs corresponding to the control inputs of the Receiver.
Receiver: 10 open collector alarm outputs.

Pre-Alarm Video Capture
Available on CAP models and any of the first 10 channels in a system. Up to 180 pre-alarm images divided equally between the selected channels. Time interval between images on the channel selectable from 1-9 seconds.

Image Transmission Time
The first image transmission time and subsequent update rate is a function at the selected picture quality, scene complexity and communication interfaces.
Typical figures for PSTN:
0.3 to 2.2 seconds - up to 10.5 images per second
Typical figures for ISDN:
0.2 to 0.6 seconds - up to 12.5 images per second.

Communication Link
Telephone line (PSTN), ISDN (Digital 56 kbps or greater), Cellular phone link, RF link, Ethernet Network Adaptor.

Serial Data Link
External bi-directional RS232 data link. Programmable baud rate, data bits, stop bits, flow control.

Image Resolution
Colour or black and white.
Intensity - 256 grey levels; spatial resolution selectable between:
928 x 576, 928 x 288,
464 x 288, 304 x 288,
232 x 288 (PAL/CCIR).
752 x 480, 752 x 240, 376 x 240,
250 x 240 (NTSC/RS170).

Audio Input/Output
Available on CA and CAP models.
Bi-directional audio communication between the Transmitter to Receiver on links greater than 14.4kbps, 300 Hz to 3.3 KHz band-width, 1V p/p (typ), 1.5V p/p (max).
Three selectable audio compression qualities depending on available link speed.

Communications Interface
Asynchronous or synchronous (programmable). RS232 interface (8 data bits, no parity, max baud rate = 192 kbps). Hayes (AT protocol), or X.21 using VM52 Adaptor.

Printer/Computer/RS485 Port 1
Fully configurable RS232 asynchronous serial port (for computer control), or for CA and CAP models an RS485 serial port (for expansion beyond 10 cameras).

RS485 Port 2
Available on CA and CAP models. Differential balanced input/output RS485 serial port. (Used for control of PTZ telemetry stations).

System Control & Setup
Operator control on rack-mount via 12 keys on CAP (10 keys on CA) on the front panel. A separate programmer provides secure parameter entry and system programming. Optional VM86 Keyboard (for use with CA and CAP models only) for external equipment and/or PTZ control.

Power Requirements
Mains Operation -Transceiver
180-264VAC, 50 Hz 11 VA (max) at 230V.
90-130VAC, 60 Hz, 11VA (max) at 110V.

12VDC Operation - Transceiver/ Transmitter
10 - 15VDC, 11 watts (max) at 12VDC

Construction and Dimensions
Transceiver
Standard 19" rack-mount, 1U high subrack to DIN4194.
482mm (19") W x 44.4mm (1.8") H x 210mm (8.25") L.

Transmitter
Sealed cabinet for interior wall mounting. Cable entry through top, bottom or rear.
510mm (20") L x 310mm (5.1") W x 130mm (12.2") D.

Weight
2.5 kilograms (5.5 pounds) - Transceiver
4.8 kilograms (10.5 pounds) - Transmitter

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
Immunity: EN50082-1 (IEC 801-2,-3,-4 &-5). IEC 801-5 not applicable to Transmitter.

Electrical Safety (applicable to rack mount only)
EN60950, AS3260

Warranty
Twelve (12) months.

Accessories
- Programmer (19" rack-mount Programmer panel also available)
- VM86 Keyboard
- VM21 Relay Card, for the Alarm/Control Outputs of a Transmitter or Receiver
- VM53 Network Adaptor
- VM52 X.21 Adaptor
- VM22 Audio Switcher
- VM23 Intercom Handset

Ordering Information

Rack mount colour transceivers, with pre-alarm, audio, PTZ control, external control via VM86 and expandable to 100 channels.		
FS3-TCVR-CAP-PAL	PAL	240V AC 50Hz / 12V DC
FS3-TCVR-CAP-NTSC	NTSC	110V AC 60Hz / 12V DC
FS3-TCVR-CAP-NTSC-240	NTSC	240V AC 60Hz / 12V DC
Rack mount colour transceivers, with audio, PTZ control, external control via VM86 and expandable to 100 channels		
FS3-TCVR-CA-PAL	PAL	240V AC 50Hz / 12V DC
FS3-TCVR-CA-NTSC	NTSC	110V AC 60Hz / 12V DC
FS3-TCVR-CA-NTSC-240	NTSC	240V AC 60Hz / 12V DC
Colour transmitters, with pre-alarm, audio, PTZ colour, external control via VM86 and expandable to 100 channels		
FS3-TX-CAP-PAL	PAL	12V DC
FS3-TX-CAP-NTSC	NTSC	12V DC
Colour transmitters, with audio, PTZ colour, external control via VM86 and expandable to 100 channels		
FS3-TX-CA-PAL	PAL	12V DC
FS3-TX-CA-NTSC	NTSC	12V DC
Monochrome transmitters		
FS3-TX-M-CCIR	CCIR	12V DC
FS3-TX-M-RS170	RS170	12V DC

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