

ADPRO® FastTrace™

Remote Access DVR

ADPRO® FastTrace™ provides remotely accessible evidential quality digital video recording. Manufactured by the world leaders in remote video alarm verification, FastTrace delivers rapid and reliable retrieval of watermarked images or live video over the widest range of communication networks.

Features

- Increased image quality compared to VCR recording.
- Digitally watermarked recorded images uniquely linked to encrypted event data.
- Secure viewing software automatically linked to exported evidential images.
- Purpose built hardware platform with Embedded Real Time Operating System for reliable, uninterrupted operation.
- Continuous and event driven recording with pre-alarm capabilities.
- Automatic event recording activated by image movement, external sensors or transactions.
- Internal disk storage capability greater than 100 million images (1 image/second/ camera for 120 days).
- Multi-channel video recording up to 30 images/second/camera, 60 for the system (PAL 25 and 50).
- Intelligent search capability based on time, events, transactions or scene activity.
- Efficient video compression enables fast access over limited bandwidth links.
- Three (3) communication ports for ultimate flexibility.

- Bandwidth throttle to contain maximum data rate within user-selected or network based limits.
- Simultaneous access by multiple users to stored or live video with uninterrupted recording.
- Integrated PTZ telemetry support and audio recording/transmission, plus optional audio switcher
- Multiple alarm inputs with tamper detection and flexible mapping.
- Alarm verification activated by automatic call out and programmable inputs (e.g. panic, duress and intrusion alarms, ATM transactions or scene activity).

Evidential quality recording

Proof that images have not been altered and high image quality are essential to event investigation and resolution. Watermarking and encryption guarantees accurate validation of untampered images and associated data. FastTrace delivers superior image resolution compared to traditional VCR recording.

Reliable, uninterrupted operation

Insist on reliability and reduce operational and resource costs. Sophisticated software development methods combined with a purpose built hardware platform ensure reliability and eliminate the need for human intervention.

Data Sheet

Rapid remote access

Eliminate the need for on-site investigation. Comprehensive search options combined with fast transmission technology allow rapid remote search and retrieval of events over the widest range of networks, even via a standard telephone line.

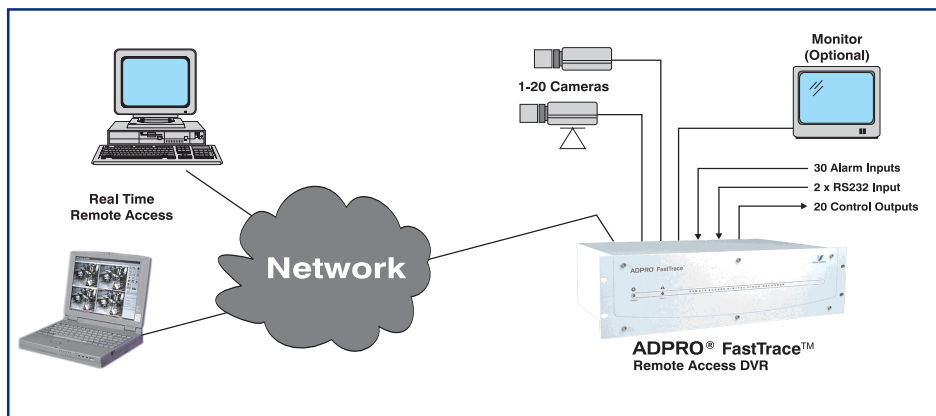
Increased recording capacity

Store the images that count. Flexible recording options combined with optimum image compression technology allow additional images to be recorded at a lower storage cost. Over 100 million high quality images – as many as on 200 videotapes (1 image/ second from each of 10 cameras for 120 days) - can be stored within a single FastTrace recorder.

Remote, multiple site management

Remote alarm notification and site control. Automatic transmission of images enables the cause of alarms to be seen at a centralised monitoring facility. Two-way audio, remote camera Pan/Tilt/Zoom control and other integrated control capabilities provide flexible remote site interaction and control.





Specifications Model 5010 and Model 5020

Video Inputs

CCIR (PAL) or RS170 (NTSC) standard selectable as a complete set
10x (5010) & 20x (5020) - BNC connectors, 75ohm

Video Output

1x BNC 75ohm composite video
Output auto-sequences, standard matches video input standard selected

Recording

The following specifications are applicable to Model 5010 and Model 5020.

- **Recording Image Resolution**
Colour or black and white.
2 CIF, PAL: 704 x 288 pixel (NTSC: 704 x 240)
CIF, PAL: 352 x 288 pixel (NTSC: 352 x 240)
- **Recording Rate, aggregate across all Channels**
With one Compression Engine
25 images per second (PAL)
30 images per second (NTSC)
Maximum (with 2 compression engines)
50 images per second (PAL)
60 images per second (NTSC)
These recording rates are for CIF resolution and are halved for 2CIF resolution
- **Image Compression**
Customised H.263 compression algorithm resulting in an average of 3Kilobytes per image at CIF resolution and 6 Kilobytes per image at 2CIF.
- **Disk Capacity**
Up to 4x internally mounted IDE hard disk drives (HDD).

Alarm Inputs

20x (5010) or 30x (5020) external alarm inputs. Flexible mapping between alarm and video inputs. Programmable for contact opening or closure.

- Screw terminal connectors
- Single End of Line (SEOL) or Dual End of Line (DEOL) tamper detection on each input using supplied resistors
- Voltage input <0.8V - logic low, 7 ma (max); between 3.5V and 5.0V - logic high

Control Outputs

10 or 20 open collector control outputs active when channel in alarm

- Screw terminal connectors
 - 12VDC (max), 100mA (max)
 - On state output voltage less than 1.1V @100mA.
- 1x general alarm relay with contacts (N/O, N/C).

Live Image Transmission Rate

Typical update rates with 10% scene changes.

Ethernet: = 25 images/second
ISDN: 128k = 12.5 images/second
PSTN: 33k6 = 3 images/second

Communication Links

- **Network**
10BaseT / 100BaseT Ethernet port supporting TCP/IP.
- **SerialTwo V.24** interfaces (8 bits, no parity, max data rate = 230 kbps), one via a 9 pin and the other a 25 pin D connector. Both Support 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.

Data Ports

2x serial data ports for POS/ATM connection. RS232, 9-pin D-type, max data rate of 19.2 Kbps. For information on supported protocols contact the sales office.

System Control & Setup

Operator access via FastTrace Viewer software on external PC or ADPRO Video Central Version 7 (or later).

Power Requirements

100-240 volts, AC, 50 - 60Hz. Maximum power dissipation 100 watts.

Construction and Dimensions

Standard 19" rackmount, 3U high subrack to DIN4194. 482mm (19") W x 88mm (2.7") H x 210mm (8.25") L.

Weight

Rackmount - Fully configured system 11 kilograms (22 pounds).

Temperature Range

Operating 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 Current Emissions to EN61000-3-2.

Voltage Fluctuations & Flicker to EN61000-3-3.

Immunity: EN50130-4 (Alarm Systems Product Family Immunity Standard).

Safety Compliance

IEC 60950 : 1991 +A1,A2,A3 & A4.

Warranty

Twenty four (24) months.

FastTrace Viewer Software

Operating System Requirements

Windows 2000 (Professional Edition) or Windows NT4.0 (Service Pack 6 minimum).

PC Hardware Requirements

Intel Pentium III or Celeron - Processor speed 900MHz minimum.

128MB memory - NT4

256MB memory - Windows 2000

Hard disk capacity 10 GB or greater

CD-ROM

Windows compatible PS-2 keyboard and mouse recommended. LAN card Ethernet 10BaseT or 100BaseTX compatible

Video card / VGA driver 128 bit video card recommended
PCI or AGP slot usage / 800 x 600 pixel resolution, 16 million colours.

Ordering Information

AFT50aa-bxxx-c

- aa** 10 or 20 for 10 or 20 channel variants
- b** number of hard disk drives, 1,2,3 or 4
- xxx** individual hard drive capacity in GBytes
- c** number of compression engines

e.g. AFT5020-4060-2025 is a 20 channel FastTrace with 4 installed 60GByte hard disk drives and 2 installed 25 image per second compression engines

Note:

1. Both the AFT5010 and AFT5020 include a copy of the ADPRO FastTrace Viewer software

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