

# ADPRO® FastTrace™

## Multi-site Video Security System

**ADPRO FastTrace is the definitive Multi-site Video Security System designed, developed and manufactured by the leaders in Video Security Technologies.**

**When used in conjunction with Video Central, the unique combination of video alarm verification, remote site monitoring and control, and long duration evidential quality recording - provides the most flexible Multi-site Video Security System available.**

### **Remote, multi-site management**

*Centralised management to improve efficiency and reduce personnel costs.*

Live video, two-way audio, remote camera control and flexible integration capabilities provide full remote site surveillance and control eliminating the need for on-site security staff.

Efficient and fast transmission technology, even over slow data links, provides complete surveillance capabilities.

Multiple network users can view live activity, search for events of interest or review recorded video without disruption to the recording.

### **Integrated Video Alarm Verification**

*Rapid assessment allows correct alarm response.*

Automatic transmission of images enables the cause of alarms to be viewed at a Central Monitoring Station (CMS). The ADPRO Video Central Multi-site Video Security Manager can be run stand alone or easily integrated with conventional CMS software systems. Comprehensive search options allow rapid retrieval of prior events, regardless of link speed.

### **Increased recording capacity**

*Never miss the images that count.*

Flexible recording options combined with optimum image compression technology allow images to be recorded without interruption at the lowest storage cost.

Over 200 million high-quality images – equivalent to 400 videotapes - can be stored within a single ADPRO FastTrace system.

### **Evidential quality recording**

*High image quality and proof that images have not been altered are essential to event investigation and resolution.*

ADPRO FastTrace delivers superior image resolution compared to traditional VCR recording. Watermarking guarantees changed or tampered images are automatically identified. Data from external sources such as ATM's can be recorded for retrieval with the associated video sequences.

### **Reliable, uninterrupted operation**

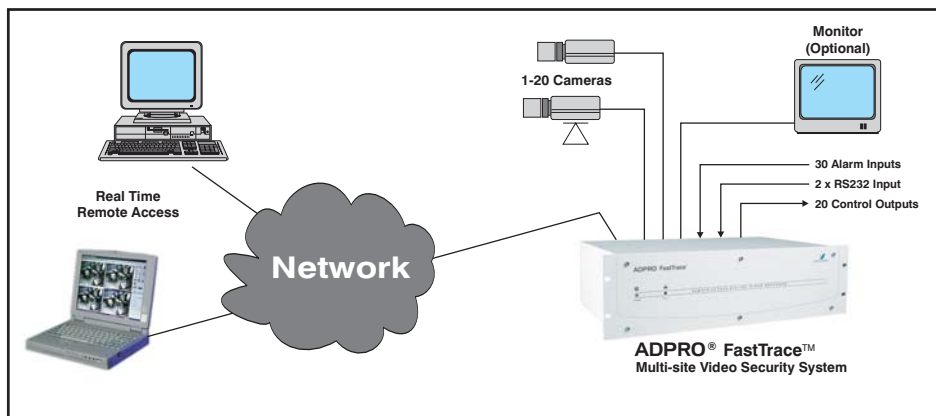
*Insist on reliability and reduce operational and resource costs.*

Sophisticated software development methods combined with a purpose built hardware platform ensure reliability and eliminate the need for human intervention.

## Features

- Multi-camera live and recorded views for rapid assessment of all site activity
- Simultaneous access by multiple remote users to stored or live video without interruption to recording.
- Integrated PTZ telemetry support and optional down-the-coax module
- Integrated audio recording/ transmission plus optional audio switcher.
- Efficient video compression enables fast access over limited bandwidth links.
- Three communication ports for maximum flexibility.
- Bandwidth throttle constrains data rate within user-selected or network based limits.
- Alarm verification activated by automatic call out from multiple input sources.
- Multiple alarm inputs with tamper detection and flexible mapping.
- Downloadable event log for standards compliant audit trails of site activity
- Intelligent search capability based on time, events, or activity in user definable areas.
- Continuous and event recording activated by image movement, external sensors or transactions.
- Fast multi-channel video recording at up to 120 images/sec for NTSC or 100 images/sec for PAL.
- Scalable image processing rates with plug-in compression modules.
- Internal disk storage capability greater than 200 million images
- Digitally watermarked recorded images uniquely linked to event data.
- Secure viewing software automatically linked to exported evidential images.
- Connection to data sources such as ATMs for recording transaction data along with the video.
- Purpose built hardware platform with Embedded Real Time Operating System for reliable, uninterrupted operation.





## Specifications

### Model 5005, 5010 and 5020

#### Video inputs

Selectable CCIR (PAL) or RS170 (NTSC) standard  
5x(5005), 10x(5010) & 20x(5020) – 75 ohm BNC

#### Video output

Auto-sequencing output – 75 ohm BNC

#### Recording

- Recording image resolution (colour or mono)  
2 CIF, PAL: 704 x 288 pixel (NTSC: 704 x 240)  
CIF, PAL: 352 x 288 pixel (NTSC: 352 x 240)
- Maximum recording rate, aggregate across all  
Channels (CIF resolution, 4 VCE-1 fitted)  
100/120 images per second PAL/NTSC
- Image compression  
Customised H.263 compression with average of 3  
Kilobytes per image at CIF resolution
- Disk capacity  
Up to 4 internally mounted Hard Disk Drives

#### Audio

Local recording and live audio transmission  
Microphone, line and audio switcher inputs  
Line, speaker and audio switcher outputs

#### PTZ

RS-485 telemetry support for over 30 protocols  
Optional down the coax telemetry.

#### Alarm Inputs

20x (5005, 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

10x (5005, 5010) or 20x (5020) open collector control  
outputs for remote control or local alarm indication.

- 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

Maximum 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.
- Serial  
Two 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.

#### Transaction Interfaces

Up to 2 RS232 ATM/POS inputs and/or 8 ethernet ATM inputs  
are supported. Please contact your local sales office for  
currently supported ATM devices or information on providing a  
customised interface for your application.

#### Transparent Data Port

1x serial data port. RS232, 9-pin D-type, max data rate of 57.6  
Kbps. Supports transparent RS232 data transmission to/from  
Video Central V8.04 or greater.

#### System Control & Setup

Operator access via ADPRO® Video Central Lite or ADPRO®  
Video Central Gold Version 8 (or later).

#### Power Requirements

115-230 volts, AC, 47 - 63Hz. Maximum power dissipation 100W.

#### Construction and Dimensions

Standard 19" rackmount, 3U high subrack to DIN4194.  
482mm (19") W x 132mm (5.2") H x 281mm (11") L.

#### Weight

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

#### Temperature Range

Operating range 0°C-40°C (32°F-104°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 (CB Report including national  
deviations for AU, CA, CN, JP, KR, SG, US and EU Group).  
UL Listed to US and Canadian Safety Standards, UL File  
Number E219750.

#### Warranty

Twenty four (24) months on all components except Hard Disk  
Drives (HDD) which are covered by the manufacturer's  
warranty.

## ADPRO Video Central Lite

#### Operating System Requirements

Recommend Windows 2000 (SP3) or XP for new installations  
although NT4.0 (SP6) is supported for legacy installations.  
Internet Explorer V4 or greater.

#### PC Hardware Requirements

Intel Pentium III or Celeron - Processor speed 800MHz min.  
256MB memory  
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 / 1024 x 768 pixel resolution, 16 million  
colours.

## Ordering Information

#### AFT50aa-b-c-D

- aa** 05, 10 or 20 for 05, 10 or 20 channel variants
- b** number of hard disk drives, 1,2,3 or 4
- c** number of video compression engines, 1,2,3 or 4
- D** down-the-coax telemetry module fitted

e.g. AFT5020-4-2 is a 20 channel ADPRO FastTrace with 4  
installed hard disk drives and 2 installed video compression  
engines.

- AFT-50HDD-160** Hard Disk Drive Upgrade
- AFT-50VCE-1** Video Compression Engine

#### Note:

- For supported configurations, consult your supplier.
- Minimum disk size provided is 160GByte.
- The AFT5005, AFT5010 and AFT5020 include a copy of the  
ADPRO Video Central Lite software (without dongle).

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It is the sole responsibility of the purchaser (and  
not the manufacturer or distributor) to ascertain  
and comply with all laws (including surveillance  
and privacy laws) which are applicable to the  
possession and use of the ADPRO FastTrace  
product, in the jurisdiction(s) in which the  
FastTrace product will be used by the purchaser.

By placing an order, the purchaser represents that  
the FastTrace product will only be used in a lawful  
manner. The purchaser agrees to indemnify the  
manufacturer and its distributors for any claims,  
actions, and legal and/or court fees brought  
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**Vision Systems**

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