



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

Centralized 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.

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 FastTrace system.

Evidential quality recording

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

FastTrace delivers superior image resolution compared to traditional VCR recording. Watermarking of images verifies the images have not been altered. Data from external sources such as ATM's can be recorded for retrieval with the associated video sequences.

Standards-compliant performance

New features enhance compatibility with BS8418

FastTrace can be installed to be fully compliant with British Standard, BS8418. This standard specifies superior quality equipment, best practice installation and monitoring requirements that will ensure long term, high performance operation for the end user.

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 PTZ preset on alarm plus optional down-the-coax module.
- Integrated audio recording and transmission plus optional audio switcher for multi-channel operation.
- 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.
- Multiple alarm inputs with tamper detection, flexible mapping and zone isolation.
- 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.
- Digitally watermarked recorded images uniquely linked to event and site 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.
- Automatic checking of FastTrace operation using SitePulse feature.
- Local indication of Arm/Disarm and Detector status.
- High communications integrity includes communications path diagnostics and back-up.
- Purpose built hardware platform with Embedded Real Time Operating System for reliable, uninterrupted operation.



ADPRO® FastTrace

Specifications

Model 5005, 5010 and 5020

Video inputs

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

Video output

Auto-sequencing output – 75 ohm BNC

Recording

- *Recording image resolution (color or mono)*
2 CIF, PAL: 704 x 288 pixel (NTSC: 704 x 240)
QCIF, PAL: 176 x 144 pixel (NTSC: 176 x 120)
- *Maximum recording rate, aggregate across all Channels (CIF resolution, 4 VCE-1 fitted)* 100/120 images per second PAL/NTSC
- *Image compression*
Customized 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

- 20 x (5005, 5010) or 30 x (5020) external alarm inputs. Flexible mapping between alarm and video inputs. Programmable for contact opening or closure.
- Screw terminal connectors
 - Normally Open (NO), Normally Closed (NC), Single End of Line (SEOL) or Dual End of Line (DEOL) tamper detection on each input using supplied resistors
 - Voltage input <0.8 V - logic low, 7 ma (max); between 3.5 V and 5.0 V - logic high

Control Outputs

- 10 x (5005, 5010) or 20 x (5020) open collector control outputs for remote control or local alarm indication.
- Screw terminal connectors
 - 12 VDC (max), 100 mA (max)
 - On state output voltage less than 1.1 V @100 mA.
- 1 x general alarm relay with contacts (N/O, N/C).

Live Image Transmission Rate

Maximum update rates with 10% scene changes at VHS quality.
Ethernet: = 25 images/second
ISDN: 128 k = 12.5 images/second
PSTN: 33 k6 = 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 customized interface for your application.

Transparent Data Port

1 x 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

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

Construction and Dimensions

Standard 19" rackmount, 3U high subrack to DIN4194.
482 mm (19") W x 132 mm (5.2") H x 281 mm (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 Microsoft® Windows® 2000 Professional (SP4) or Windows® XP Professional (SP1) for new installations although Windows® NT4.0 (SP6) is supported for legacy installations. Internet Explorer V6 or greater.

PC Hardware Requirements

- Intel Pentium III or Celeron - Processor speed 800 MHz min.
- 512 MB memory.
- Hard disk capacity 10 GB or greater.
- CD-ROM.
- Windows compatible PS-2 keyboard and mouse.
- LAN card Ethernet 10BaseT or 100BaseTX compatible.
- Video card / Monitor 128 bit PCI or AGP video card recommended.
- 1024 x 768 pixel resolution, 16 million colors.
- Parallel or USB port for dongle.

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 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:

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

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