ADPRO® iFT™

Remotely Programmable NVR+



Introducing the ADPRO iFT Series, the next generation of ADPRO NVR+ platforms, offering low total cost of ownership (TCO) for ADPRO multi-service features, quality, and reliability in a super IP-solution.

The ADPRO iFT is the series' entry model, offering up to 32 IP channels that scales up to 16 IP channels with 16 analytic channels. This IP video multi-service platform runs the powerful XO 5 Security+ Operating System*. It is the only NVR out there that offers full remote monitoring features such as arming/disarming, event quad pictures, and reliable transmission via a proprietary acknowledge protocol. The iFT optimises bandwidth use for high quality recording by multistream camera connections, adapting video transmission to the available bandwidth.

Designed for remote operation, ADPRO iFT supports the viewing of video and events through networked clients, including CMS and VMS software and the iTrace mobile application for 24/365 monitoring and control wherever you are. ADPRO Xchange2 also allows you to remotely manage the licensing of additional IP and analytics channels for ultimate flexibility.

FEATURES AND BENEFITS

- Deep Learning LoiterTrace™ for video verified loiter detection with reduced fault alarm and increased detection accuracy.
- P2P connection available for easy and flexible remote connection.
- End to end secure streaming where video is encrypted (HTTPS) from the camera right through to the viewer to avoid tampering (when connecting with 30s and 60s cameras) [3].
- Support self-encryption hard drive for security data at rest to avoid data tempering risk in case hard drive was removed from device [4].
- The Secure Boot feature helps detect tampering with the boot loaders, operating system files, and unauthorized option ROMs by validating their digital signatures.
- Integration with the Honeywell 30/60 Series IP cameras, iFT, iFT-E and iFT Gateway can be used as part of video systems which comply with NDAA (National Defense Authorization Act) 2019, Section 889.
- Offering up to 32 IP channels that scales up to 16 IP channels with 16 analytic channels (trade-off 1 IP channel for 1 analytics channel).
- Expandable: up to 168 inputs and 144 outputs (on the box : 8 in / 4 out or 20 in / 8 out depending on model)
- Video recording, video analytics, and transmission (all remote monitoring ready)
- Reliable data storage: up to 4 x 16 TB HDD, RAID 1 support (needs minimum 2 equal HDD).
- Support for all major camera brands: ACTI, Arecont, Avigilon, Axis, Bosch, Brickcom, Hikvision, Hikvision AVE, 30/60 Series [2]), JVC, Panasonic, Pelco, Samsung, Sanyo, Sony, Uniview [2], VISTA[2], and FLIR[2], and support ONVIF Profile S & T Compliant IP Cameras.
- Integrated xTrace video content analytics (VCA) in XO 5: IntrusionTrace, LoiterTrace and Deep Learning Loiter Trace.
- 2-way audio: enables instant remote communication to/from site.
- High-level integration with ADPRO PRO E-Passive Infrared (PIR) Detectors, including communication over IP, intelligent double knock, and creep zone alarm.
- Remote deployment: commissioning, set-up, configuration and management
- Xchange2 for adding video and VCA licenses and bulk firmware upgrade remotely and allowing to switch between LoiterTrace and IntrusionTrace.
- Mobile apps for remote monitoring, verification, and control.
- CMS command and control platforms: VideoCentral Platinum (VCP) and iOS/ Android iTrace App.
- Open platform: easy integration with third-party software (XO-SDK).
- Superior detection and low false alarm rate with low CapEx. Highest quality of protection at a low TCO.
- Highest site protection: powerful new XO 5 delivering intrusion and loitering analytics.
- Reliability: ADPRO proprietary transmission protocol is 100% reliable with guaranteed alarm reception by acknowledgment and redundant transmission; Site Pulse protocol life check.
- Efficiency: H.264/H.265 video compression and multistream for optimal bandwidth usage while providing the highest quality video for recording and viewing.
- Low TCO: 32 IP cameras scale up to 16+16 (video and analytics) by trade-off principle.
- Easy management of multiple remote sites improves efficiency and reduces personnel cost. Full remote site surveillance and control, extending human guard surveillance.
- Speed: rapid assessment of video alarm images allows to quickly identify the alarm cause, optimizing real-time intervention while reducing expensive nuisance alarm responses.
- Alarm reception in less than 7 seconds.
- Extremely fast, intelligent search on motion metadata after recording.
- VMD: 4 zones per camera.
- User-friendly: easy-to-use XO client for configuration and management.
- Xchange2 for adding video and VCA licenses.
- Bulk firmware upgrade remotely.
- Supporting new licensing type switchable between LoiterTrace and IntrusionTrace.
- 360° camera support + image de-warping: see everything, everywhere, always.

(1) If a 12 MP IP camera is used with the XO enabled iFT Series, then a maximum of 12 cameras, with a maximum of 12 video analytics channels (IntrusionTrace and/or LoiterTrace) can be used.

(2) The Uniview, 30 Series, VISTA, and FLIR cameras are supported from version XO 4.5.

(3) When secure streaming is enabled. Audio back from XO Client/ CMS to cameras will be disabled.

(4) Encryption hard drive feature is only available when products ordered together with the SED hard drives.

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ADPRO® IFT

SPECIFICATIONS	
OPERATIONAL	
OPERATING SYSTEM	ADPRO® XO™ Security Operating System, Linux based
VIDEO INPUT	1–32* IP cameras
VIDEO OUTPUT	XGA – Multiple matrix type views
VIDEO COMPRESSION	H.264/H.265**
VIDEO RESOLUTION	Up to HD/MP resolution***
IMAGES/SECOND	Full HD @25/30 ips – MPixel: ips is camera dependent
BANDWIDTH CAPACITY	32 x 5 Mbps
BANDWIDTH MANAGEMENT	Configurable variable or constant bitrate / Configurable bandwidth limiter
AUDIO INPUT	Built-in audio input supported***
AUDIO OUTPUT	Standard 1 line level output. Optional: up to 1 per camera via audio switcher(s). Audio out on IP cameras*** with ONVIF Profile S/Profile T driver
COMMAND INPUTS	8 or 20 inputs on the box depending on model (monitored), + 20 inputs (monitored) via XO I/O Interface USB module, Via Network I/O module with PoE: up to 128***
RELAY OUTPUTS	4 or 8 outputs on the box (SPDT) depending on model, + 8 outputs (SPDT) via XO I/O Interface USB module Via Network I/O module with PoE: up to 128 (SPDT)
WEB SERVER	Xo Client - Integrated Web Client Application (Activex)
ETHERNET	2 x 100/1000BASE-T, autodetection, full duplex, RJ45
RECORDING TYPE	Schedule / Detection / Event
IP CAMERA INTEGRATION	Brand specific, Generic, support ONVIF Profile S & T*** compliant cameras
MANAGEMENT	Web client interface (XO client), ADPRO VideoCentral Platinum, third-party software (SDK available) and iOS/Android iTrace App.
POWER SUPPLY	100–240 VAC, 50/60 Hz
OPERATING TEMPERATURE	5–40 °C
HUMIDITY	20–93 % RH non-condensing
DISK CAPACITY	Max. 4 x 16 TB HDD. RAID 1 support (min.2 x equal HDD) Support Self-Encryption Hard Drive (SED)
WARRANTY	2 years
DIMENSIONS (W X H X D)	441 x 88 x 305 mm (17.36" x 3.46" x 12.00")
ANALYTICS	Basic motion detection (VMD), camera sabotage detection. Up to 16 analytic channels for IntrusionTrace™ and LoiterTrace™ and up to 3 channels of Deep Learning LoiterTrace™. Totally up to 16 Analytics channels supported (separate datasheets available)
MOBILE APPS	iTrace, iPIR

** For optimal performance, disable monitor output when using more than 16 IP cameras*
*** H.265 supported with Honeywell, Hikvision, ONVIF and generic drivers.*
**** Camera dependent. List of supported IP cameras is available on www.security.honeywell.com*
***** Monitored or unmonitored inputs depending on Net I/O unit V2 hardware and V2 firmware.*

ORDERING INFORMATION	
60021310	ADPRO iFT 8IP-2TB-8 inputs/4 outputs (4HDD Ready)
60041610	ADPRO iFT 16IP-6TB-8 inputs/4 outputs (4HDD Ready)
60040020	ADPRO iFT 16IP-No HDD-20 inputs/8 outputs (4HDD Ready)
60041520	ADPRO iFT 16IP-4TB-20 inputs/8 outputs (4HDD Ready)
60041810	ADPRO iFT 16IP-10TB-8 inputs/4 outputs (4HDD Ready)
60045410	ADPRO IFT 16 IP-4TB-SED-8 inputs/4 outputs
60045520	ADPRO IFT 16 IP-4TB-SED-20 inputs / 8 outputs
60045710	ADPRO iFT 16IP-1x8TB-HDD-SED 8 inputs/4 outputs (4HDD Ready)
60045720	ADPRO iFT 16IP-1x8TB-HDD-SED 20 inputs/8 outputs (4HDD Ready)
60081020	ADPRO iFT 32IP-No HDD -20 inputs/8 outputs (4HDD Ready)
60081620	ADPRO iFT 32IP-6TB-20 inputs/8 outputs (4HDD Ready)
60081820	ADPRO iFT 32IP-10TB-20 inputs/8 outputs (4HDD Ready)
60086720	ADPRO iFT 32IP-2x8TB-HDD-SED 20 inputs/8 outputs (4HDD Ready)

Mobile Apps

- iTrace: remote monitoring, verification, and control (iOS and Android).
- iPIR: allows one person to commission ADPRO PRO E-PIRs: wireless walk testing and parameter adjustment (iOS).
- iCommission: allows one person to vertically align ADPRO PRO E-PIRs (iOS).

XO 5

The XO Security Operating System expands the feature-rich, multi-service capability of the ADPRO NVRs. XO enables an iFT to support up to 32 IP camera channels without analytics with the ability to scale with a 1:1 trade-off (1 IP channel for 1 analytics channel) up to 16 IP channels with 16 analytics channels simultaneously. This allows a customer to leverage xTrace analytics for intrusion & loitering detection and building management capabilities while providing immediate remote response. It provides live 24/365 unbreakable transmission of very high quality video events to remote monitoring stations; providing deterrence through multi-level response, including audio, lighting/door controls, HVAC, as well as first responder dispatch. XO provides the first technology solution to effectively augment human guards security with intelligent and accurate detection more cost effectively with higher reliability. Customers deploying XO can employ a "pay as you grow" security approach, using analytics where and when they are needed.

xTrace Analytics

Add-on video analytics:

- IntrusionTrace: outdoor video verified perimeter detection for sterile zone monitoring (car dealerships, solar parks, power generation facilities, and warehouses) ; i-LIDS certification
- LoiterTrace: video verified loitering detection for indoor & outdoor applications (graffiti, parks, carparks, school grounds and construction areas).

The New Analytics Feature for ADPRO allows the customer to order a VCA License with the ability to switch each channel individually between LoiterTrace and IntrusionTrace at any time, saving the need to purchase separate licenses.

Deep learning LoiterTrace

Add-on video analytics:

- AI Enabled Loiter Detection
- Leveraging the latest tech break through in artificial intelligence, deep learning enabled LoiterTrace improves detection and reduce fault alarm by tracking individual instead of group, improved accuracy of classification for people/ object. Efficiently prevents damage & reduces risk: Vandalism, graffiti, substance abuse, arson attacks, harassment, identity theft

For More Information
www.security.honeywell.com/uk
buildings.honeywell.com/security

Honeywell Commercial Security
Building 5 Carlton Park
King Edward Avenue
Narborough, Leicester LE19 0LF U.K.
Tel: +44 (0) 1163 500714

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