Honeywell
THE POWER OF **CONNECTED** | Security

ADPRO® XO 4

XO 4 Security+ Operating System
Connected. Detected. Protected.

ADPRO XO 4: Connected. Detected. Protected.

ADPRO NVR+ systems running the XO 4 Security+ Operating System are the security industry's most powerful solutions and threat prevention solutions.

Available for a variety of market applications, from small to medium sized businesses (SMB), to Enterprise Retail Outlets, to Critical Infrastructure, no other security software can deliver all the features of ADPRO XO 4.

IntrusionTrace
Intrusion
Detection

LoiterTrace
Loitering
Detection

MAXPRO® VMS

3rd Party

Up to 4
IP Cameras
@ 2Mbps

Reliable
Remote
Monitoring

ADPRO
Commissioning
Tool

Leading
VMS/CMS
Software
Vendors

VESDA-E Smoke
Detection

4
Analytics

Software
Integration

Up to
4 IP
Cameras

Reliability &
Concurrency
Over Any
Network

Integration

Visual
Verification

Unbreakable
Transmission

ECO Gas
Detection

Embedded
Detection

Command
& Control

Safety &
Security
Detectors*

Remote
Command
& Control

External
Detection

Effective
Response

PRO-E
PIR Detectors

ADPRO XO 4 Security+ Operating System

***Connect via I/O Modules or camera inputs.**

Security+ Operating System

Overview

ADPRO XO 4 is a 4th generation Security+ Operating System designed for ADPRO NVR+ systems, including the iFT Gateway, FastTrace 2E, iFT, & iFT-E. XO 4 provides live 24/7 unbreakable transmission of very high quality video events to remote monitoring stations; providing deterrence through multi-level response, including audio, lighting/door controls, as well as first responder dispatch. Facilities deploying XO on an ADPRO NVR+ can realize greater protection and significant cost savings versus human guards.

XO 4 is downloadable and supports all ADPRO NVR+ systems. XO 4 enables an ADPRO system to support up to 32 camera channels and up to 32 analytics channels simultaneously depending on the hardware model selected. XO 4 enables the ADPRO NVR+ Portfolio to support all major camera brands (American Dynamics, Axis, Bosch, Concept Pro, Dahua, Genie, Hikvision, LG, Moog, Pelco and many more); and Honeywell Performance, equIP, and HDZ series IP cameras*. All iFT Gateway, FastTrace 2E, iFT, & iFT-E systems will ship with XO 4 installed. Your cost per channel for security, safety and building management services decrease significantly while your service opportunities expand.

New Features in XO 4.3 (for upgrades from XO 4.2)

- Support of up to 32 high-definition analogue cameras over IP using the Honeywell Performance Series HQA NVRs, bringing analogue video to all XO devices (FastTrace 2E, iFT, iFT-E, and iFT Gateway).
- Multiple live streaming allows multiple clients to independently view one of the available camera streams without impacting other clients. Possibility to view the same camera stream in different resolutions on different clients.
- Hardware decoding on the client PC to enhance the rendering performance.
- Support for ONVIF Profile S and ONVIF Profile T for H.265 decoding (with suitable cameras using the Hikvision, Honeywell, ONVIF, or generic driver).
- Remote formatting of recording HDDs.

Supported NVR+ Systems

FEATURE		FT Gateway	FastTrace 2E	iFT	iFT-E
IP Camera Channels	4	✅	✅	—	—
	8	—		✅	
	10	—	✅	✅	✅
	12	—	✅	✅	✅
	16	—	✅	✅	✅
	20	—	✅	✅	✅
	32	—	✅	✅ (no VCA)	✅
Analogue Cameras (Hybrid)		—	Up to 20 Channels	—	—
Analogue Cameras over IP		Up to 4	Up to 32†	Up to 32†	Up to 32†
IP Channels Configuration		4 IP with option to add 4 Analytics	Up to 32 IP with up to 32 Analytics	Up to 32 IP or 16 IP with 16 Analytics	Up to 32 IP with up to 32 Analytics
Embedded Video Content Analytics	IntrusionTrace	✅	✅	✅	✅
	LoiterTrace	✅	✅	✅	✅
Max Storage Capacity		32 GB SD Card (Minimum Required)	40 TB (4 HDD)	30 TB (3 HDD)	40 TB (4 HDD)
I/O on the Box		20 In / 8 Out*	40 In / 16 Out	8 In / 4 Out***	8 In / 4 Out***
Network I/O **		128 In / 128 Out	128 In / 128 Out	128 In / 128 Out	128 In / 128 Out

† Up to 32 high-definition analogue cameras over IP via Honeywell Performance Series HQA DVRs.
* Via XO I/O Interface USB module.
** Monitored or unmonitored inputs depending on Net I/O unit V2 hardware and V2 firmware combined with minimum XO 4.2 firmware on the controlling ADPRO device.
*** An additional 20 In and 8 out if you are using an XO I/O USB interface module.

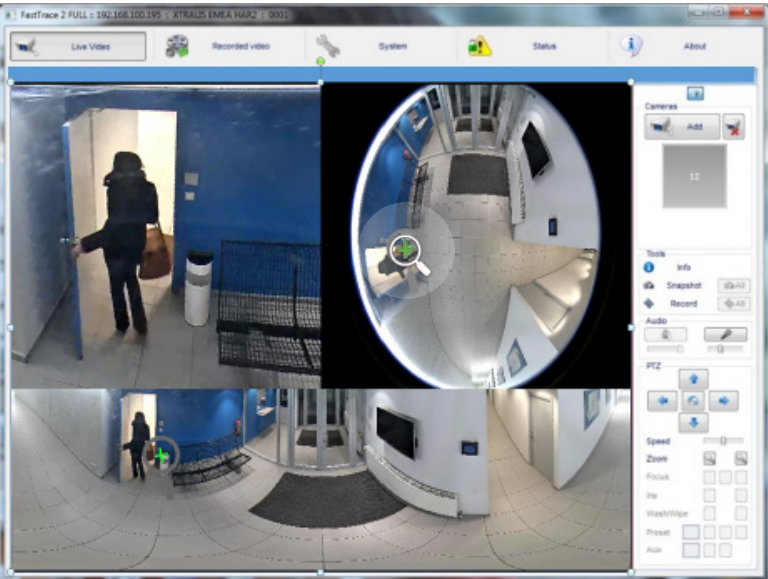# Remotely Programmable up to 32 High Definition IP Cameras

XO 4 Capabilities

- Up to 32 IP cameras at 5Mbps on the FastTrace 2E, iFT, & iFT-E and 4 IP cameras at 2 Mbps on the iFT Gateway
- Up to 32 channels of video content analytics (VCA) running simultaneously — 32/32 vision! **
- Multi-service video content analytics:
  - IntrusionTrace™ with advanced multi-zone parameters for video verified intrusion detection
  - LoiterTrace™ extends field-of-view (FOV) by 30 metres for deeper area of video verified loitering detection
- Expanded IP camera compatibility list with brand-specific/generic/ONVIF S drivers
- IP audio out for remote talk-down to deter threats
- 360° panoramic camera integration with de-warping
- Storage optimization yields greater database performance and video data protection
- Disk check remotely available (no on-site intervention) for self-healing repair process
- Proprietary life check ensures system operation without unreliable ping
- Latest LINUX operating system for best performance and security
- Easy deployment of VCA: use Xchange for the ADPRO FastTrace 2E, iFT, & iFT-E; use ADPRO iFT Gateway Commissioning Tool for the iFT Gateway

** Dependent on hardware model selected.

360° Panoramic Camera De-warp

With XO 4 you can visually inspect images from a 360° camera with ease. With just a simple mouse click drag-and-drop you can de-warp a fish-eye view to make intelligent security decisions.

Simple click and drag to de-warp image

XO 4 IP Camera Support

- ACTI
- Arecont
- Avigilon
- Axis
- Bosch
- Brickcom
- Hikvision
- Hikvision AVE
- Honeywell equIP
- Honeywell Performance
- Honeywell HDZ
- JVC
- Panasonic
- Pelco
- Samsung
- Sanyo
- Sony

ONVIF Driver Support

With XO 4, ONVIF S, ONVIF T camera integration allows efficient interoperability and interfacing:

- Including specific features such as pan, tilt, zoom control, I/O control, and audio streaming
- Enabling end users to easily identify features supported by a profile without determining the compatibility between versions of the ONVIF specification
- IP audio out for talk-down to eliminate threats

ONVIF S support for:

- American Dynamics
- Avigilon
- Canon
- Concept Pro
- Dahua
- Eneo
- Genie CCTV
- Geovision
- Grundig
- IC Realtime
- IndigoVision
- LG
- Moog
- Redvision
- Santec
- Scati
- Sony
- Tyco
- Vista
- Vivotek
- Xeno

ONVIF T support for:

- Hikvision
- Honeywell

Remotely Programmable Up to 32 Analytics

With XO 4, ADPRO NVR+ customers can easily deploy multiple security and safety analytics channels — up to 32 channels on the FastTrace 2E, iFT, & iFT-E*, and 4 channels on the iFT Gateway. With 32 cameras examined by 32 channels of analytics, nothing will go undetected in your security domain. An ADPRO FastTrace 2E, iFT, & iFT-E NVR+ can sustain 160Mbps video streaming while processing up to 32 video content analytics (VCA), including IntrusionTrace and LoiterTrace. We call this 32/32 Vision, a security approach that goes far beyond standard approaches. An ADPRO iFT Gateway supports 8 Mbps video streaming while processing 4 VCA, including IntrusionTrace and LoiterTrace.

With 32 IP cameras at 5Mbps combined with 32 analytics, XO 4 provides unprecedented security threat protection in a single box*. Further, analytics channels can be easily procured and downloaded from Xchange, a web portal for managing ADPRO analytics software and licenses for the FastTrace 2E, iFT, & iFT-E. For the iFT Gateway, you can easily add analytics using the ADPRO Commissioning Tool. Customers can employ a "pay as you grow" security approach, using analytics where and when they are needed.

ADPRO NVR+ systems are renowned for their multi-service capabilities. On a single box, customers can deploy safety and security analytics services with a few mouse clicks. Competitive solutions require multiple devices, troublesome interoperability, and field visits or box returns to deliver the same capabilities. The ADPRO analytics suite includes:

* Dependent on hardware model selected.
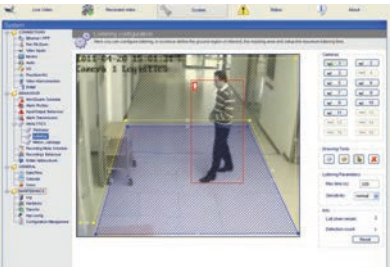
IntrusionTrace — Intrusion Detection

IntrusionTrace is i-LIDS® approved as primary detection system for operational alert used in sterile zone monitoring applications. (Please note: i-LIDS certification has been superseded by CPNI Classification – Approved for UK Government Use, for details contact CPNI.)

- Reduce false alarms by up to 90% with real-time visual verification of threat
- Intelligent, high-performance video analytic for real-time intrusion detection
- Designed for 24/365 outdoor monitoring of sterile perimeters
- Optimized using thousands of hours of video covering a range of environmental, seasonal and time of day variations
- Fast and easy commissioning with simple region of interest detection
- Up to 16 directional & non-directional zones
- Red bounding boxes and trails for all alarms for live & recorded video
- Supports thermal and visible light cameras

LoiterTrace — Presence Awareness

LoiterTrace enables real-time, reliable detection of unauthorized loitering in a defined area to prevent security breaches, theft and vandalism:

- Optimized using thousands of hours of video covering a range of environmental, seasonal and time of day variations
- Fast and easy commissioning with simple region of interest detection
- User defined detection areas
- Unique static time setting to detect objects and people that remain still for extended periods of time
- 3D calibration extends field-of-view by 30m to provide increased detection at greater distances
- For indoor and outdoor applications

Comprehensive Connectivity to External Devices

An ADPRO NVR+ running XO 4 can seamlessly connect to a wide variety of external detectors, from access control to PIR detectors to smoke, fire, and gas detectors. XO 4 can easily process all of these detector alarms and warnings in real-time to allow for comprehensive integration of all physical threats in a single box.

CONNECTION TYPE WITH ADPRO XO 4	IFT GATEWAY	FASTTRACE 2E	IFT	IFT-E
IP Cameras	4 @ 2 Mbps	Up to 32 @ 5 Mbps	Up to 32 @ 5 Mbps*	Up to 32 @ 5 Mbps
Video Analytics Channels	4	Up to 32	Up to 16*	Up to 32
External Detectors (Alarm) via Relay Inputs	148	168	136	136
External Devices via Relay Output for Control	136	144	132	132
ADPRO PRO E-PIR Detectors	N/A	34 with integrated HLI over IP	34 with integrated HLI over IP	34 with integrated HLI over IP

* Trade 1 IP camera channel for a channel of analytics for a total of 32; configurations can scale up to 32 IP without analytics or up to 16 IP with up to 16 analytics.

Unbreakable Transmission over Any Network

An XO 4 enabled NVR+ provides superior transmission of alarms and events compared to DVR/NVR solutions. This reliable transmission is essential for effective remote monitoring, and provides end-customers and Central Monitoring Stations (CMS) a value-add that will differentiate their security protection.

ADPRO NVR+ WITH XO 4	CONVENTIONAL DVR / NVR
• Alarm reception within < 7 seconds • Guaranteed alarm reception by acknowledgement • Redundant transmission by 3G/4G modem • ADPRO Site Pulse protocol for life check • Proprietary protocol providing 100% reliability	• No guaranteed alarm reception • No alarm acknowledgement • No transmission redundancy • Unreliable ping used for life check • Inadequate for remote monitoring solutions

Remote Command & Control for Effective Response

The ADPRO iTrace mobile app for XO 4 is a VMS in the palm of your hand! Designed for business owners and site managers, iTrace enables the user to review alarm events, display live and recorded footage from any camera, talk with the site over bi-directional audio, and remotely control lights, gates, and arm/disarm functions from anywhere at anytime. Emailed alarm events contain a user friendly link for rapidly connecting to the right cameras at the right site for fast response.

iTrace Talk-Down

Protection for Car Dealers

5 Cameras for Video Motion Detection in Showroom & Repair Shop

iTrace provides mobile monitoring with remote control over lights, gates, doors, and ventilation

8 Cameras & IntrusionTrace Analytics for Perimeter Fence Line Protection

3 Cameras & LoiterTrace Analytics for Loitering Prevention

Auto Dealers have unique security needs. With large properties and expensive assets, perimeter protection is essential. Loitering detection and video motion detection are all essential, especially after hours with no personnel present. All of this is possible on a single ADPRO NVR+, with room for expansion.

20 cameras & 20 analytics can protect a medium-sized auto dealer property remotely and cost-effectively with high reliability
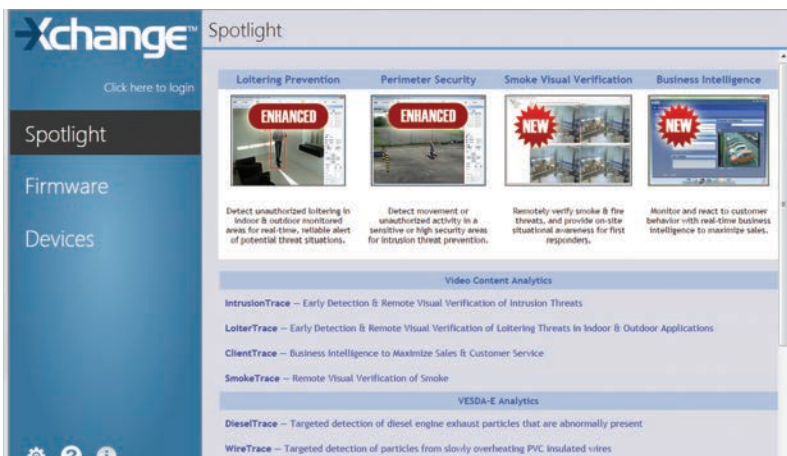
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Xchange Licensing Tool

XO 4 is available from Xchange, the downloadable PC application with the online licensing portal, that enables you to quickly deploy applications to remotely manage, configure and exchange licenses to ADPRO FastTrace 2E, iFT, and iFT-E. This tool enables 1-step, hassle free, deployment of applications and services to your field-deployed platform and reduces installation time. Download and register today to access licenses and so much more.

ADPRO iFT Gateway Commissioning Tool

The ADPRO iFT Gateway Commissioning Tool commissions the ADPRO iFT Gateway device quickly and conveniently. Specify the IP address for the device, register and activate its system and IP licenses, and (optionally) add 4 channels of ADPRO Analytics, in a single process and without rebooting. Once the ADPRO iFT Gateway is commissioned, launch the XO Client and start full configuration of the device from this tool.

Other Applications

ADPRO XO 4 provides remote monitoring, intrusion detection, perimeter security, loitering prevention and building management ideal for:

- Warehouses
- Schools
- Recycling Sites
- Train/Metro Stations
- Power Plant
- Post Offices
- Parking Areas
- Industrial Plants
- Hotels
- Retail Shopping Centres
- Museums/Galleries
- Bus Stations
- Jewellers/Pawnshops
- Solar Farms
- Casinos/Gambling Halls
- Construction Area Observation
- Small/Local Retail
- Residential
- Remote Site Applications
- and many more applications

For additional information,
please visit www.security.honeywell.com

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