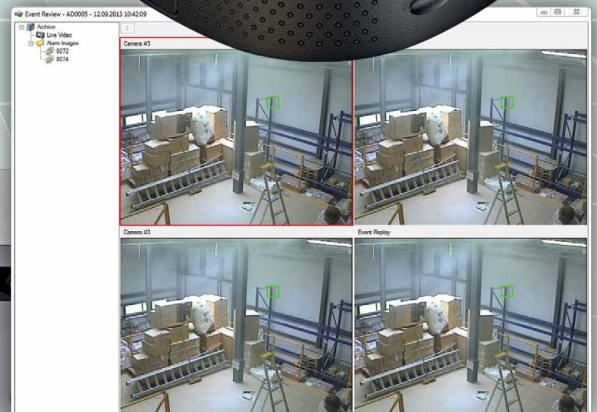
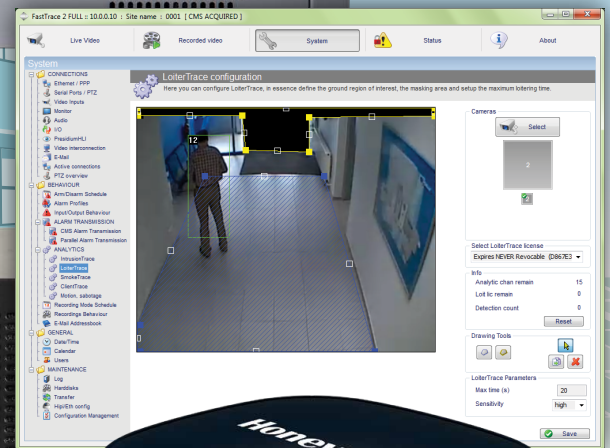
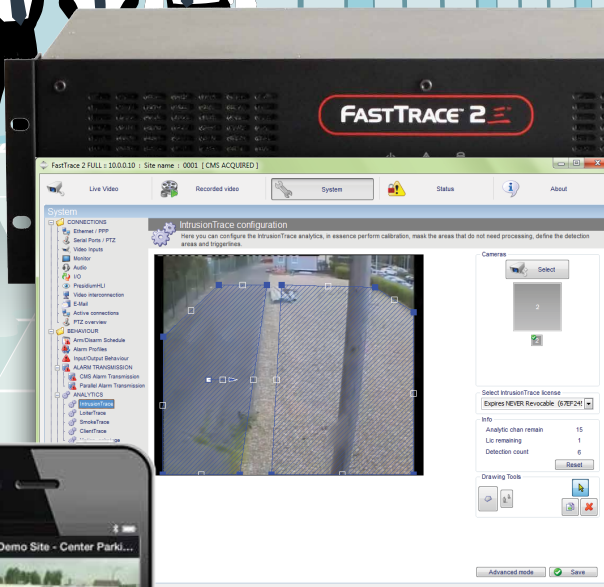


ADPRO® X0 4

Security+ Operating System

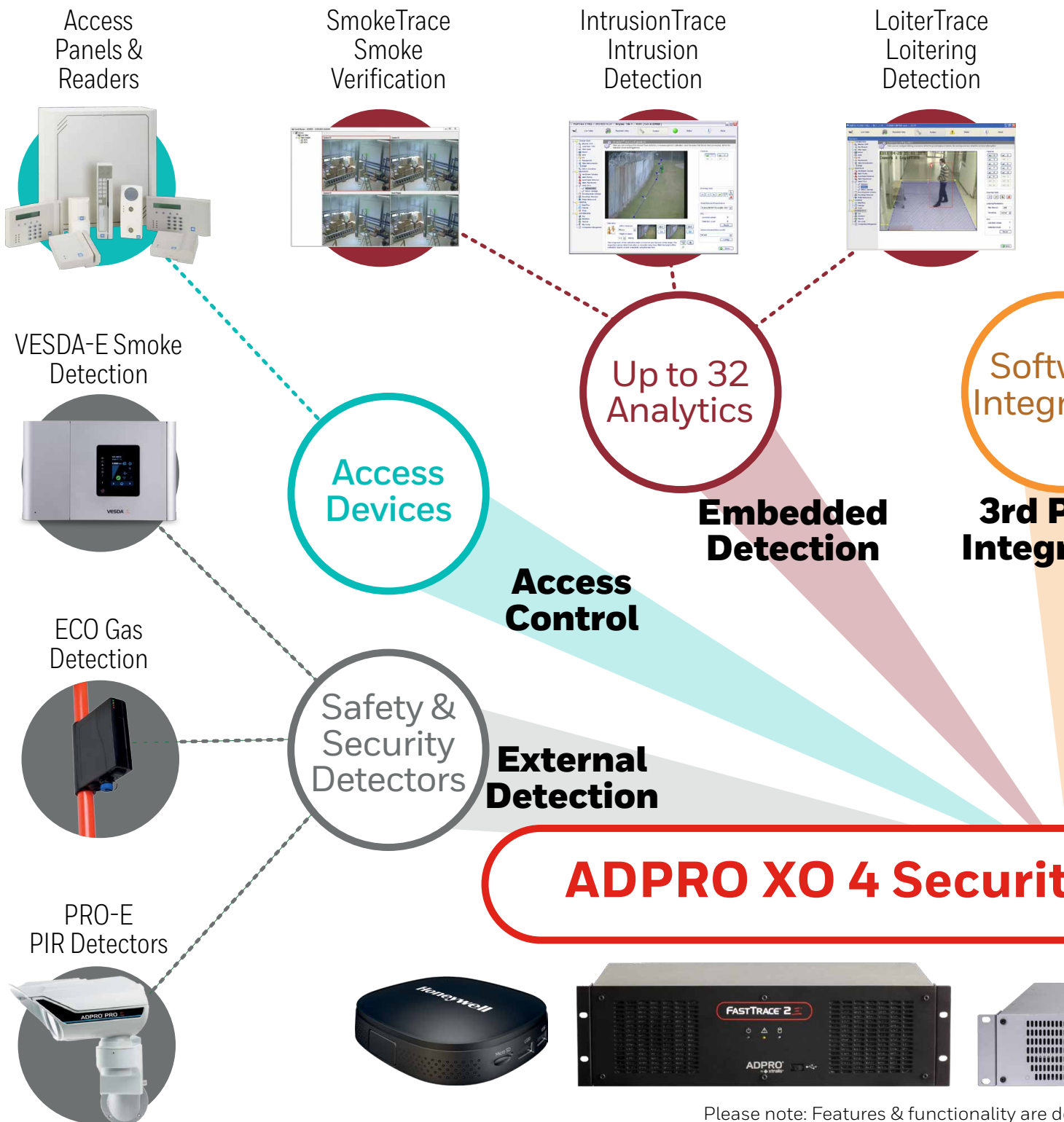


Connected. Detected. Protected.



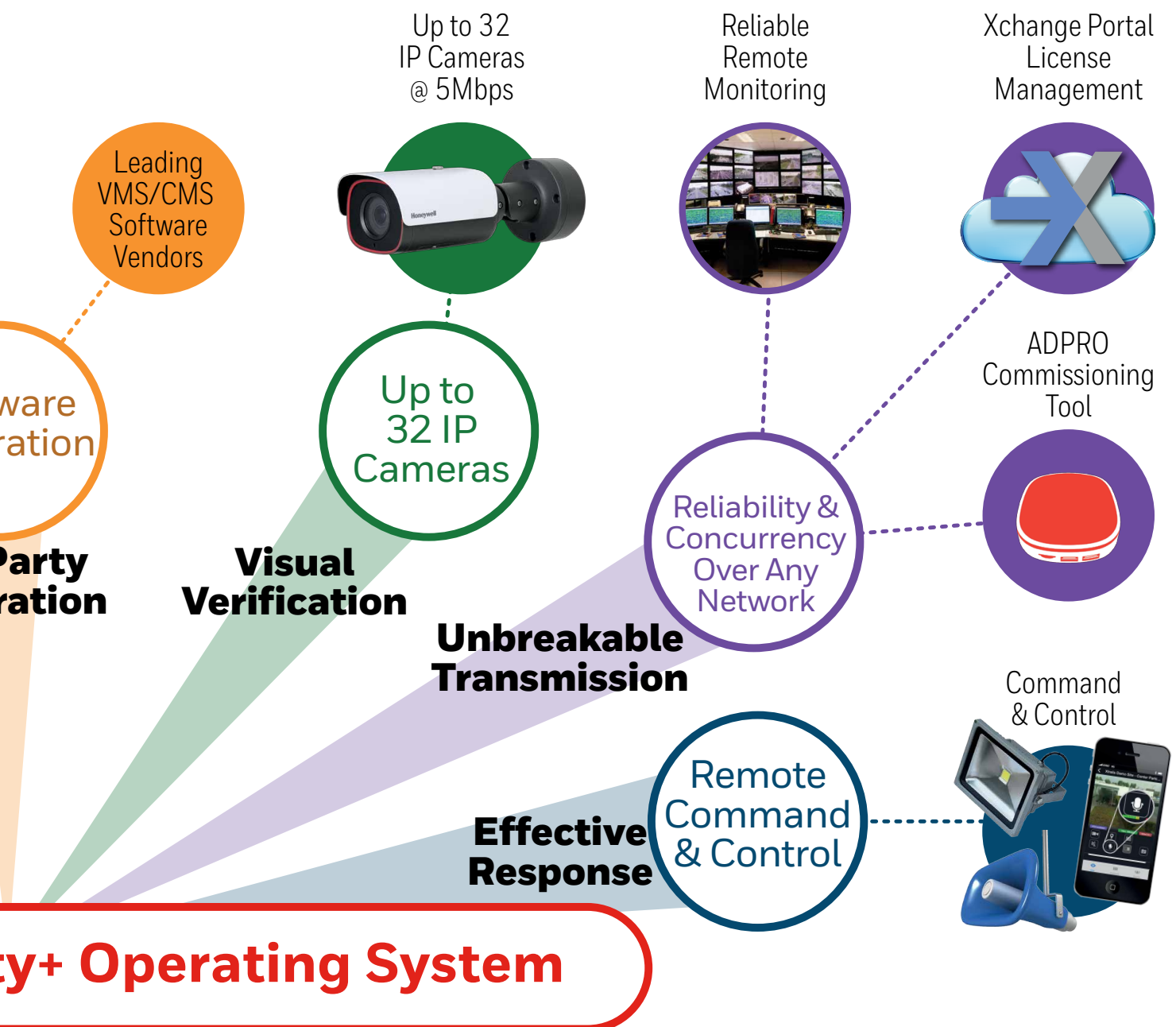
ADPRO XO 4 — Connect

ADPRO NVR+ systems running the XO 4 Security+ Operating System are the
Available for a variety of market applications, from small to medium sized
no other security software can deliver



ed. Detected. Protected.

security industry's most powerful solutions and threat prevention solutions. businesses (SMB), to Enterprise Retail Outlets, to Critical Infrastructure, over all the features of ADPRO XO 4.



dependent on the hardware model selected.

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.

XO 4 New Features (since v4.0.7)

- All camera drivers operate in a separate process
- Support for H.265 video compression standard on IP cameras using the Hikvision or generic driver
- Alarm repeat time is configurable (15–1440 minutes)
- IP camera discovery tool for easily adding supported IP cameras, and assigning IP addresses
- Assign custom data from third-party applications
- Filter search enabled on custom data from third-party applications
- Ethernet I/O Modules providing monitored inputs

*Support for Honeywell cameras started with version XOa 3.2.33 and support continues to be improved in all subsequent XO 4 updates.



Feature		iFT 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	—	—
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	✓	✓	✓	✓
	SmokeTrace	—	✓	✓	✓
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

* 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.

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:
 1. IntrusionTrace™ with advanced multi-zone parameters for video verified intrusion detection
 2. LoiterTrace™ extends field-of-view (FOV) by 30 metres for deeper area of video verified loitering detection
 3. SmokeTrace™ for visual verification of smoke threats***
- 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.

*** Not available for iFT Gateway models.

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

XO 4 supports a broad range of IP cameras, including:

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



ONVIF S Driver Support

With XO 4, ONVIF S 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 | — Redvision |
| — Avigilon | — Santec |
| — Canon | — Scati |
| — Concept Pro | — Sony |
| — Dahua | — Tyco |
| — Eneo | — Vista |
| — Genie CCTV | — Vivotek |
| — Geovision | — Xeno |
| — Grundig | |
| — IC Realtime | |
| — IndigoVision | |
| — LG | |
| — Moog | |



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, LoiterTrace, and SmokeTrace. 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:

IntrusionTrace — Intrusion Detection

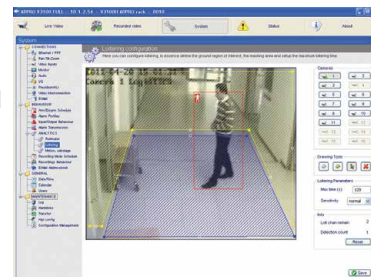
IntrusionTrace is i-LIDS® approved as primary detection system for operational alert used in sterile zone monitoring applications. (Please note: i-LIDS certification has been superseded by CPNI Classification – Approved for UK Government Use, for details contact CPNI.)



- 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

SmokeTrace — Visual Verification of Smoke**

SmokeTrace is a video content analytic that provides automatic, remote visual verification of smoke so that First Responders might intervene to prevent disaster.



- Remote visual verification of smoke inside a building
- Triggered by a smoke alarm of an existing traditional smoke detection system, it analyses the images from strategically placed cameras, fixed and PTZ, to confirm the presence of smoke
- Early warning and notification of developing smoke when the premises are occupied
- Quad images include a bounding box highlighting the smoke
- Reduce unnecessary interventions by Fire & Rescue Services (F&R S) with real-time visual verification of threat
- Reduce unnecessary intervention at sites with many false alarms
- Provides forensic evidence before, during and after an event
- Management can use iTrace to get more specific details on where the fire is located and what merchandise is at risk

* Dependent on hardware model selected.

** Not available for iFT Gateway models.

XO

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.

XO

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
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> No guaranteed alarm reception No alarm acknowledgement No transmission redundancy Unreliable PING used for life check Inadequate for remote monitoring solutions

XO

Remote Command & Control for Effective Response

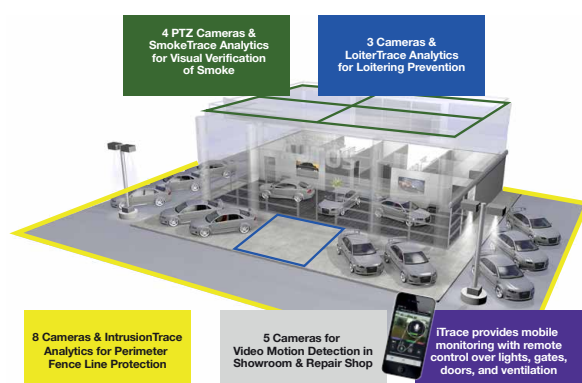
The ADPRO iTrace mobile app for XO 4 is a VMS in the palm of your hand! Designed for business owners and site managers, iTrace enables the user to review alarm events, display live and recorded footage from any camera, talk with the site over bi-directional audio, and remotely control lights, gates, 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

XO

Protection for Car Dealers



Auto Dealers have unique security needs. With large properties and expensive assets, perimeter protection is essential. Loitering detection, video motion detection, and smoke verification 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

ADPRO XO 4

Connected. Detected. Protected.

Xchange License Portal



XO 4 is available at the Xtralis Xchange, an online licensing portal to remotely manage, configure, and exchange licenses for ADPRO FastTrace 2E, iFT, & iFT-E. This tool enables

1-step, hassle free, deployment of applications and services to your field-deployed platform and reduces installation time. Register or log-on today to access licenses & so much more.

Please visit <https://license.xtralissecurity.com>

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.

Please visit www.MyiFTGateway.com.

Other Applications

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

- Warehouses
- Logistics Facilities
- 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



Learn more: www.xtralis.com/XO4

www.xtralis.com

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