

AI BOX[®]



UPGRADE YOUR MONITORING WITH **SECOND-GENERATION AI**



NEW MODEL

AI BOX4-PRO



MORE ALGORITHMS AND AI FEATURES
in the basic package



GSM LTE MODEM

as a primary or backup video
transmission channel

⊗ optional, not applicable to the 4-channel
AI BOX4-PRO version



SSD

continuous video recording and/or
photos from AI pre/post-alarms

⊗ optional



GPS RECEIVER

location of the device or system
(e.g. mobile tower)

⊗ optional, not applicable to the 4-channel
AI BOX4-PRO version

◆ **Intelligent video alarm
transmitter**

- ✓ A key tool for modern video monitoring services
- ✓ Effective false alarm reduction based on AI
- ✓ A complete solution for facilities and mobile surveillance towers

APPLICATION

Top-level facility protection

AI BOX Pro is an autonomous transmitter equipped with advanced video analysis algorithms supported by artificial intelligence (AI). In second generation device, all AI algorithms have been improved and the pattern database has been expanded, which has significantly increased its performance and precision in eliminating false alarms. The device is installed in monitored facility as a video alarm transmitter connected to existing monitoring system. AI BOX Pro automatically initiates a connection with the monitoring centre upon detection of alarm events, ensuring a quick and effective response to potential incidents.



Monitoring towers

AI BOX Pro has been designed for mobile towers, which are becoming increasingly popular all over the world. The device is optionally equipped with an LTE modem and GPS receiver with external antennas, as well as SSD hard drive for video recording. Thus, **AI BOX Pro** is a stand-alone central unit, eliminating the need for additional devices such as routers or recorders.

Its low power consumption is ideal for towers, most of which have no mains power supply and rely on energy from battery, photovoltaic panels or fuel cells.



INTEGRATION

AI BOX Pro communicates with the monitoring station via secure HTTPS encrypted connection. It also offers other communication methods such as: EMAIL| HTTP| TCP| FTP| ONVIF.

The **AI BOX Pro** device is natively integrated with software platforms designed for monitoring centres, providing the following functionalities:

- ✓ Receiving video alarm notifications containing pre- and post-alarm image sets
- ✓ Immediate playback of alarm image sequences for alarm verification
- ✓ Monitoring of device and connection status based on test signal (heartbeat)
- ✓ Remote zone or global arming/disarming of the video AI-alarms transmitter
- ✓ LIVE connection to the device for viewing the current video footage

Platforms integrated with **AI BOX PRO**:



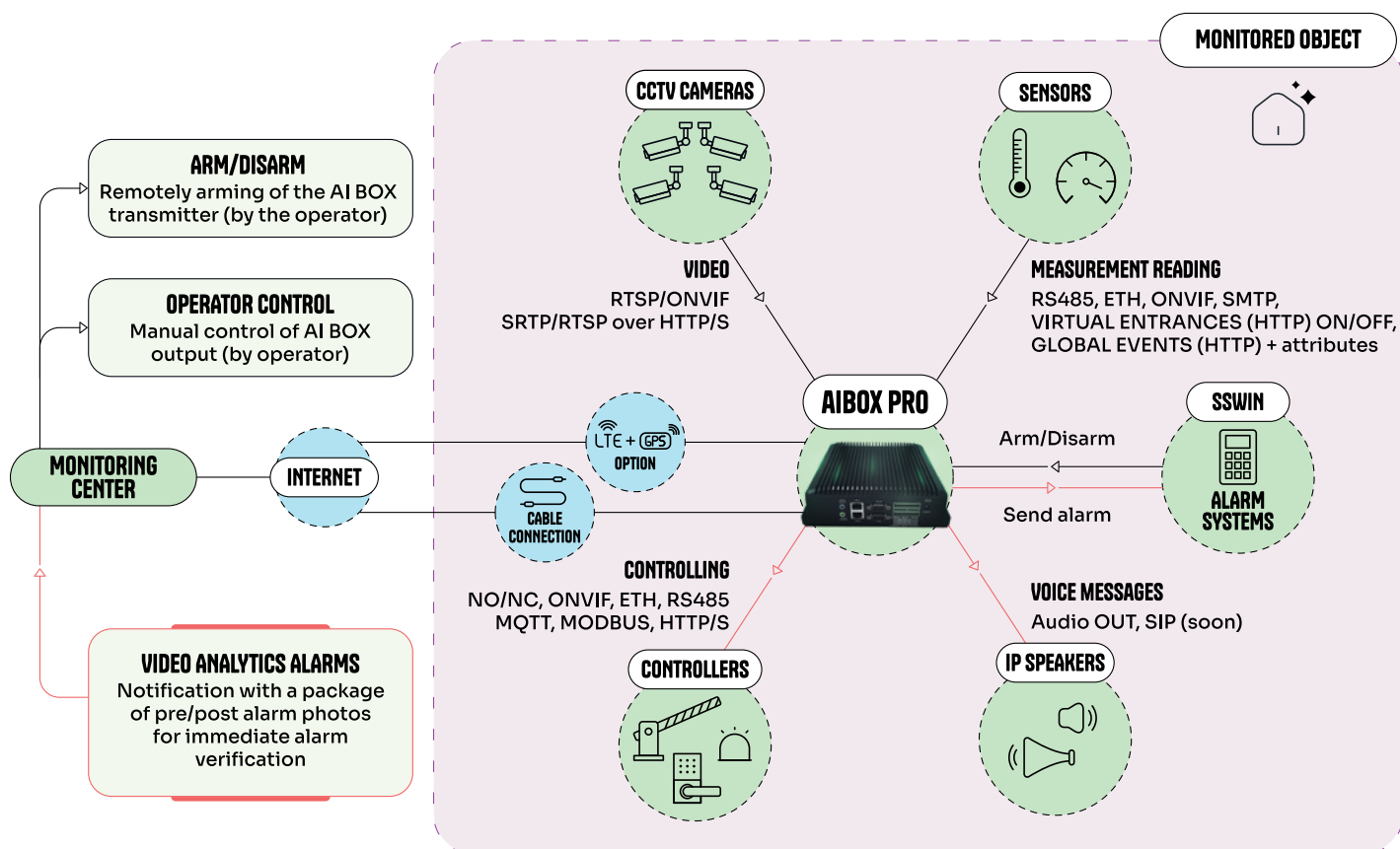
VMS software compatible with **AI BOX PRO** transmitters:



SYSTEM ARCHITECTURE WITH AI BOX PRO TRANSMITTER

The AI BOX transmitter is **connected locally** to the on-site based video monitoring system. It avoids network traffic by video streaming via Internet and ensures **optimal and secure analysis of video streams**.

Until now, AI BOX communicated directly with IP cameras or downloaded video streams from a recorder. Thanks to its built-in SSD, AI BOX PRO is able to record streams from cameras, eliminating the need to install an additional NVR recorder on site.





CYBERSECURITY

The latest AI BOX PRO is equipped with a range of features to protect against external cyber threats. You can be sure that your data is protected against unauthorised access and minimise the risk of vulnerability to cyber attacks, which is extremely important in line with latest security standards being introduced.



1. HTTPS for WEB GUI

The WEB GUI interface is based on static page + HTTPS API. This means that when logging into the device, user data is encrypted and maximally secured with an SSL certificate, confirming identity of the website and protecting against fake websites. In addition, the AIBOX PRO device allows you to upload your own certificate.

2. Login Block

This feature blocks an IP address after multiple failed login attempts. It is a personal guard that protects your account on the device from unauthorised persons or attempts to break your password by bots.

3. Password strength

Configurable password strength enforcement ensures that the device is not vulnerable to unauthorised access by breaking a simple/default user password.

4. IP FILTER

Allows you to create a list of authorised IP addresses from which you can connect to the AIBOX PRO device, as well as a list of prohibited IP addresses. This provides an additional level of control and security against unauthorized connection attempts.

5. RTSP over HTTPS (video stream encrypted with SSL)

Video data is under highest protection. Thanks to encryption of video stream, it is impossible to intercept the image downloaded by AIBOX from the cameras. Video encryption also covers AIBOX – VMS communication.

6. TPM/ATF module

A built-in specialised microchip as a ATF (Arm Trusted Firmware) forms the foundation of hardware trust. It securely stores cryptographic keys and protects critical data from unauthorised access and physical tampering.

7. Encrypted Firmware

The entire firmware file is encrypted by using keys, which completely eliminates the possibility of “reading” the contents or uploading modified (infected) firmware to the device.

National Defense Authorisation

The CBC Group, also present in the USA, makes every effort to ensure that GANZ products comply with the requirements of the NDAA (National Defense Authorization Act) and ready for the challenges of the new NIS2 directive, supporting customers in building compliance and cybersecurity.



NEW QUALITY IN SECURITY SYSTEMS

AI BOX is an intelligent extension for any camera system, enabling deep learning to reduce false-positive alarms without lowering detection sensitivity. Easy and quick setup, as well as compatibility with Onvif and RTSP ensure a hassle-free start.

AI BOX enables an existing monitoring system to continuously and accurately analyse video images without the need to replace or reposition cameras. Intelligent AI BOX transmitters eliminate operator errors while ensuring continuous and highly effective detection of alarm events, guaranteeing a high level of security.

The AI video analytics available in AI BOX device has a wide range of functions, offering many implementation possibilities, not only for security applications.

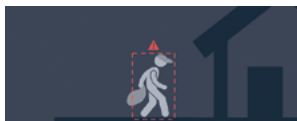
AI ALGORITHMS AVAILABLE IN AIBOX PRO

Security

Protection of objects and people



Intrusion detection



Thermal Intrusion Detection



Enter/Exit Detection



Loitering detection



Bullying Detection



Imminent Threat



Aggressive Detection



Virtual Fence



Animal detection



Covered Face Detection

Safety

Health and life safety



No PPE



Fire & Smoke Detection



Forklift Non-Driver Detection



Road Pedestrian Detection



Forklift No Helmet



Work Vehicle Hazard Detection



Forklift Detection



Unsafe Lifting



Fallen Person Detection



Phone-Walking Detection



Crowd Detection



Zone Counting

Retail

Retail management



People Counting



Advanced Visitor Analysis



Queue Management



Customer counting
excluding employees



Occupancy Counting



Detection of
temporary stops



Heatmap
(people traffic activity)



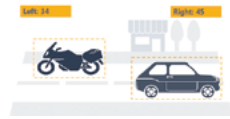
Advanced heatmap
(interest in product
range)

Cities, car parks, roads

Road and parking infrastructure management



Vehicle counting in car
parks



Vehicle counting



Vehicle type counting



Vehicle type detection



Vehicle Zone Presence



Stopping detection



Reverse movement
detection



Speed Anomaly Detection



LP Masking



LPR - Europe



Vehicle Queue
Management



COMPLETELY NEW AI FEATURES

over 30 possible scenarios with licences
available separately or in the ADVANCED
package



„ALL IN ONE“

Tested, perfectly matched modules in
industrial housing. Meets strict quality,
energy efficiency and NDAA standards



ENERGY EFFICIENCY

Power consumption 16W at full load for
AIBOX-PRO and 6W for AIBOX4-PRO



CYBERSECURITY

A range of security measures including
encrypted protocols, lists and passwords

Special features



Auto-tracking
(PTZ tracking)



Basic Attribute



Advanced Attribute



No Mask



Stay&Go Detection



Intentional Body Gaze
Detector



Hand & Foot Intrusion



Under-Age Detection



Dynamic Privacy Masking



Dynamic Face Masking

MOBILE APPLICATION

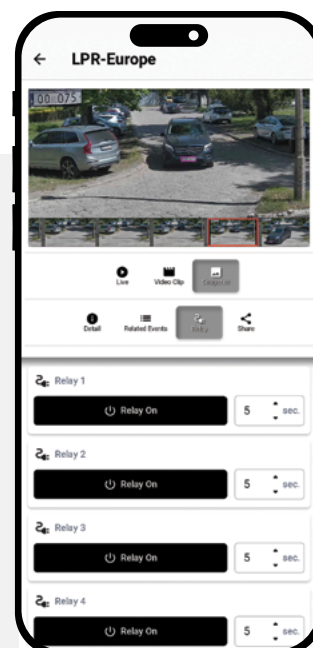
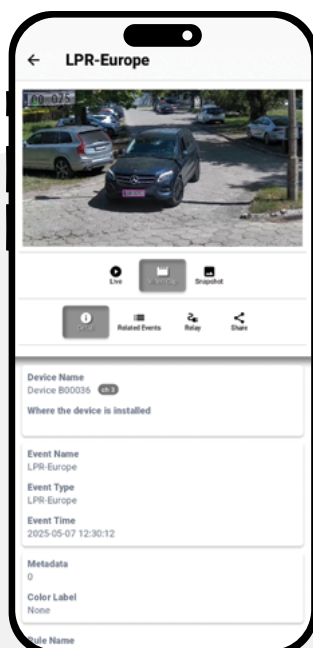
AI BOX Mobile Viewer is a tool for receiving alarm notifications with video verification. If AI BOX PRO is equipped with a hard drive, the mobile application receives alarms along with alarm photos. Clicking on a given alarm immediately plays the video from AI BOX drive.

The mobile app also allows you to control the NO/NC outputs available on the device and view live video from cameras connected to AI BOX.

The AI BOX Mobile Viewer mobile app is available for ANDROID and iOS.

Functional capabilities:

- ✓ LIVE video preview
- ✓ alarm reception
- ✓ video verification with video playback
- ✓ NO/NC output control



CBC Group Co. Ltd. – Technology with tradition

CBC Group is a Japanese company founded in 1925 in Tokyo. It has been operating globally for over 100 years, combining **technological innovation** with experience in industries such as electronics and automotive, IT and robotics, environmental protection, biotechnology (BIOGARD), optics (COMPUTAR) and pharmaceutical manufacturing. For almost 50 years, CBC has been promoting modern **security** solutions under the **GANZ SECURITY** brand.

The group employs over **3,000** specialists in more than 40 branches worldwide, providing solutions tailored to local needs.

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