



DEEPWALL

THE DEFINITIVE SOLUTION FOR
PERIMETER PROTECTION

PROVEN TECHNOLOGY
COMPLETE SOLUTIONS

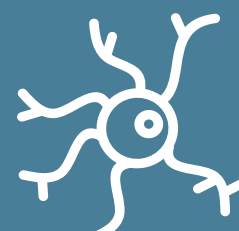
The definitive solution for perimeter protection, **DeepWall** offers maximum detection security along with advanced **Deep Learning technology to reduce false alarms**. The unique combination of the best image processing algorithms and deep neural networks, allows us to offer a system capable of adapting to any environment to reach levels of reliability unknown until now. A solution designed specifically for video surveillance, trained to differentiate hundreds of objects that may appear on the scene and at the same time prepared to react to unknown elements.

ARTIFICIAL INTELLIGENCE IN HD

Reliability and security

WallNet

Neural system specialized in perimeter protection.



SmartZone

Intelligently adapts video analytics behavior to the activity of the scene.



WaveCancel

Specially designed to avoid activations caused by vegetation.



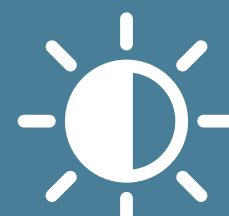
AutoScale

Application for adjustment of perspective in the far plane, differentiation of object sizes.



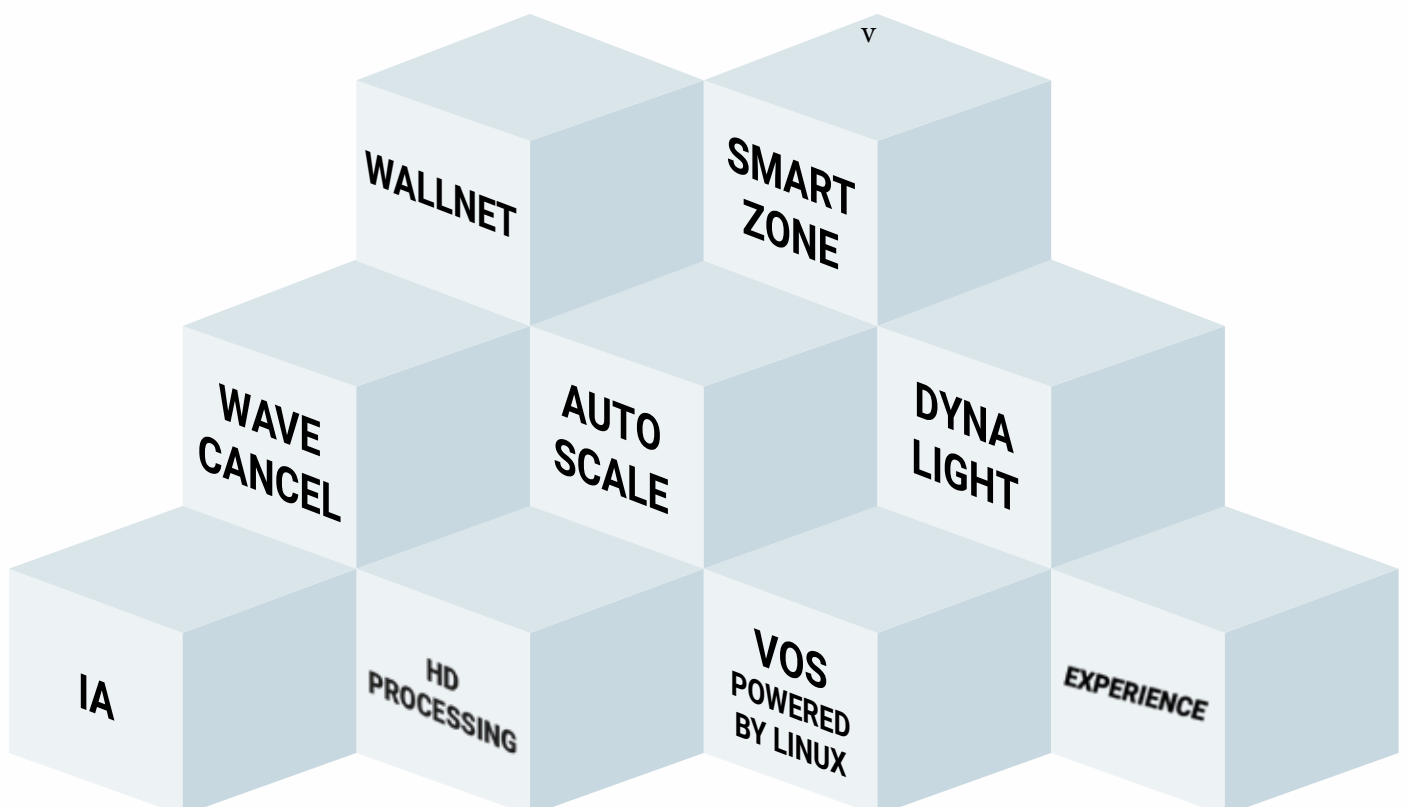
DynaLight

Patented technology to differentiate light changes and prevent false activations.

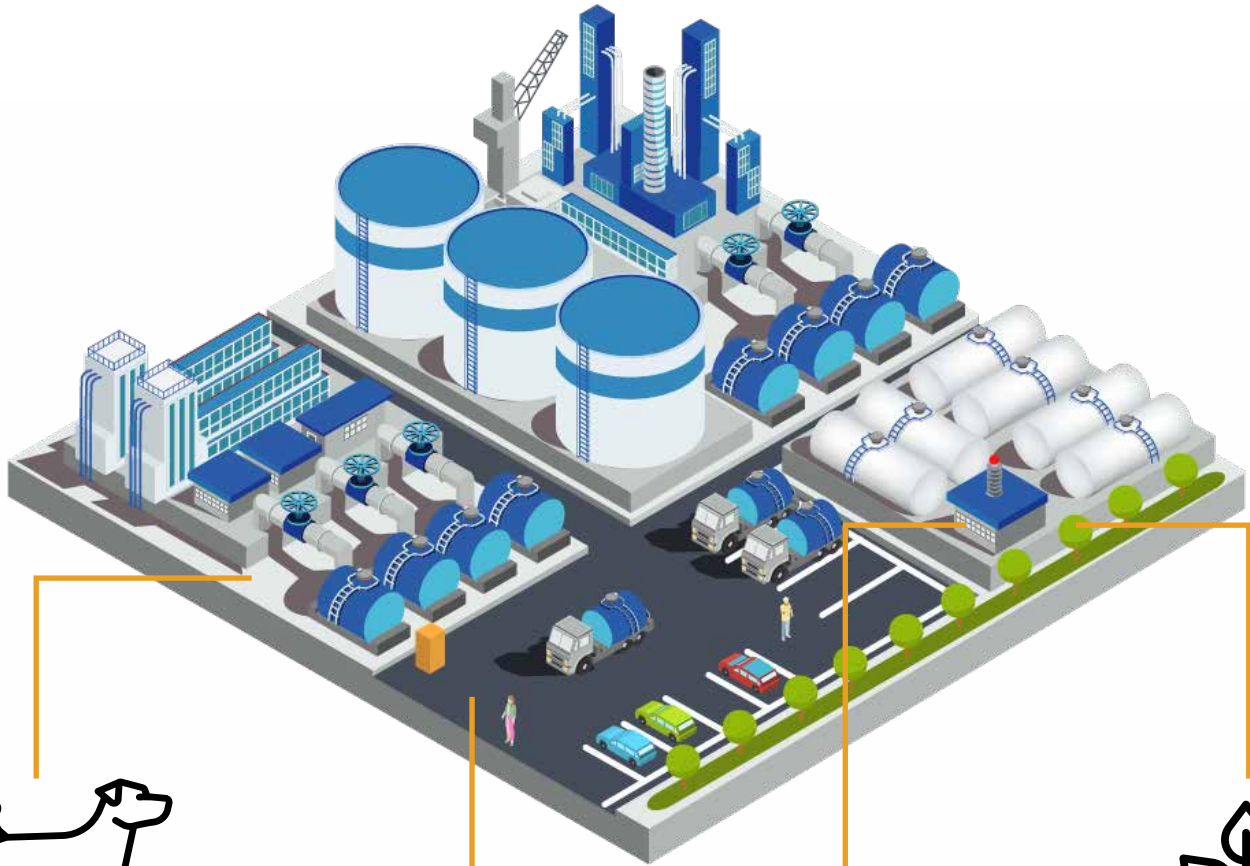


The level of detail offered by high definition cameras, represent the ideal material for artificial intelligence systems. Processing video in HD allows us to maximize detection possibilities and reduce false alarms generated by known objects.

DeepWall is based on more than 15 years of experience developing video analytics systems, along with a platform based on a secure operating system to offer comprehensive security and maximum guarantees.



REAL ALARMS IN REAL TIME...



System adaptable to the environment



Reliable detection: Impassable AI



Efficiency for control center





SECURITY: Linux 64-bit operating system. It offers maximum stability and security by minimizing the impact of computer viruses or spyware. Protection of our system: Integrated firewall, blocking of IP's, users with permissions, tunnel to encrypted support and registration of all the operations in the system with a detailed log.



DRASTIC REDUCTION OF FALSE ALARMS: The unique combination of the best image processing algorithms and artificial intelligence allow us to offer a system capable of adapting to any environment to reach levels of reliability unknown until now. Drastically reducing false alarms.



WEB INTERFACE: Our applications can be used remotely without installing any additional software, simply using a web browser.



OPEN SOLUTION: Compatible with the main camera and recorder manufacturers on the market, it also incorporates elements for integration with different management and control software stations.



OPERATIONAL IMPROVEMENT OF THE CONTROL CENTER: By drastically reducing the false alarms generated by the system, it favors efficient operation in the control center, thus avoiding the saturation of the operators.



RELIABLE DETECTION: Our unique combination of technology reduces the number of false alarms without sacrificing the highest safety standards. Our solutions are capable of detecting suspicious elements, avoiding deception and sabotage.

HIGH RELIABILITY

- > Maximum detection security together with advanced **Deep Learning** technology to reduce false alarms.
- > System trained to **differentiate hundreds of objects** that may appear on the scene and at the same time **prepared to react on unknown elements**.
- > Patented **Dynalight** technology for adaptation to different types of light changes (natural or artificial).
- > **Wave-Cancel** Technology: Prevents activations produced by vegetation.
- > **AutoScale**: Application for adjustment of perspective in the far plane, differentiation of object sizes.
- > **SmartZone**: Intelligently adapts video analytics behavior to the activity of the scene.
- > Tamper Detection: Camera Clogged or Moved.
- > Object Displacement detection to reduce false alarms.
- > Compatible with thermal and visible cameras.
- > Video clip generation with pre and post alarm time with visual identification of the element that generates the event.
- > Corridor format with panoramic resolutions.
- > **High resolution analysis: greater detection reliability**

ADVANCED LOGIC

- > Unlimited detection rules
- > Zone Entry
- > Directionality: passage from one area to another
- > Definition of relative sizes of people and vehicles for effective detection
- > Definition of minimum and maximum sizes in perspective
- > Minimum time to detect marauders, abandoned / stolen object

ACTION PROTOCOLS

Event historic list with associated video.

- > Search by filters:
 - Date and time
 - Camera
 - Type of event

Advanced system of actions associated with events:

- > Move PTZ for tracking
- > Event notification:
 - Digital outputs (Relay activation)
 - HTTP calls
 - Messages: FTP, SMS, XML, email, CRA, ...
 - Sound reproduction

OPEN SYSTEM

Open system.

Compatible with most manufacturers in the market.

> Protocols:

- MJPEG
- MPEG4
- H264
- Onvif
- RTSP, ...

IP Cameras - Analog cameras (HDCVI, HDTVI) via encoder, DVR or NVR

Compatible with all ARC alarm management software

ZONE MANAGEMENT

> Management of "Alert Mode" by zone

· Red Alert: Any item in displacement is suspicious

· Yellow alert: Any element unknown to the system is suspicious. It allows to define intruder as a person and / or vehicle

· Green alert: Only people and / or vehicles are suspicious > Ilimitadas zonas de intrusión

> Unlimited intrusion zones

> Vertical and horizontal areas

> Individually configurable zones: pre-alarm zones, intrusion zones.

> Virtual zones on real-time image.

SECURITY

> **VOS operating system based on Linux 64-bit kernel: stable and secure.**

> User Profiles

> Full activity log

> Encrypted remote access for support

SIMPLE INTERFACE

> Configuration Assistant: Commissioning in 2 + 2 steps

> Web technology: Remote access with full functionality

> Smart installer, no need to install activex or desktop application



DEEPWALL

EXPECTED PERFORMANCE ***



Operator Load Reduction

99.97%



False alarm reduction

90-99%



Probability of detection

>99%

	Visible	Thermal
Max Detection Distance (Theoretical) Person 1.8m *	145 m	529 m
Max Detection Distance Person 1.5m	110 m	281 m
Max Detection Distance Person 0.45m	73 m	93 m

Max resolution from Recognition	
Visible	Thermal
HD	Up to 640x512

* Maximum distances obtained for the following conditions: camera placed at a height of 3.5m from the ground and a non-occluded person passing through the furthest area for 2 seconds. Visible camera: 720p (1/3 ") sensor. Thermal camera: 384x288 (17µm) sensor. Thermal difference greater than 2°C.

** Optics for visible cameras: 12 mm.

*** An operator's load reduction is calculated by measuring the time that an operator should take to monitor a camera with and without the solution. The reduction of false alarms is calculated against a system with "Motion Detection" technology. A range is shown because depending on the environment the reduction changes significantly. The probability of detection is calculated for people standing within a security range (10% lower than the maximum distance) under optimal visibility conditions, both with visible cameras, as with thermal cameras and with the system set to allow maximum detection



Second to second, companies and organizations produce huge amounts of data in the form of video-image. In more than 90% of cases, the Data is wasted.

“Image Intelligence” technology allows to automate and intelligently interpretate the data in real-time in order to take better decisions.

All merged into one through artificial intelligence.

Image · Intelligence · Information · Integration





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