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DFUSION**PRO**



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DAVANTIS

DFUSION is revolutionising video analytics for perimeter security.

More than 15 years of research to create a new generation of video analytics.

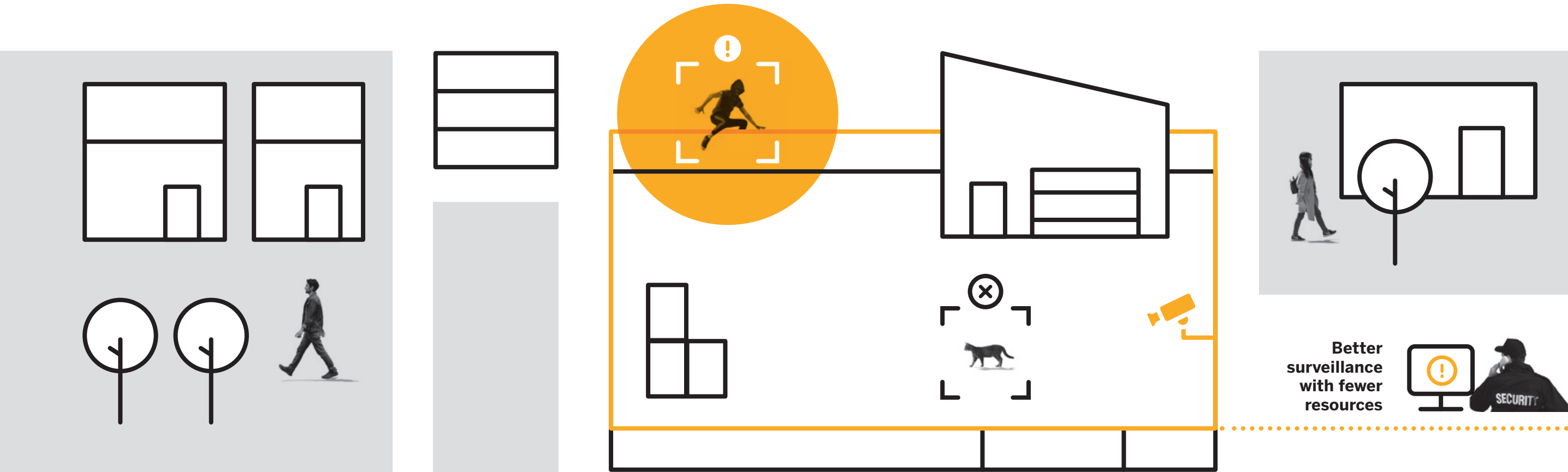
Upgrade your devices with our latest generation technology.

A new generation of video analytics

An unprecedented reduction in false alarms in the sector



Always know what triggered the alarm


Beyond Deep Learning





Why DAVANTIS video analytics?

The smart solution for excellent protection

-  **Best choice for long distances**
Perimeter surveillance solutions for safer spaces.
-  **Verification process**
Quick, easy alarm verification to act within seconds.

-  **Committed to each project**
We advise you on the best solution, guiding you through every phase of the project, starting with the sales visit, through system design, planning and commissioning.
-  **We share knowledge**
Seamless technical service with full commitment and remote support. We are always there for you.

-  **Internationally renowned quality**
Over 10,000 km / 6,300 mi of perimeter under surveillance with channels installed in more than 40 countries worldwide.
-  **Comprehensive solution**
Proprietary technology, compatible with all hardware brands. Total freedom to design the best CCTV installation. Compatible with all CMS, VMS and PSIM.

Critical Installation? DAVANTIS is the solution

Operating in more
than 40 countries

We use our experience to satisfy
customers' individual needs,
ensuring maximum security in all
types of installations.



Vehicle parks
United Kingdom



Solar farms
Chile



Railway infrastructures
France - United Kingdom



Oil refineries
Spain

Deep Fusion

We combine our current market-leading video analytics, with the most advanced Deep Learning technology

Deep learning is revolutionising the world of artificial intelligence. Applied to image analysis has proven effective for distinguishing objects, and accurately classifying people, cars and other object types. However, deep learning is based on deep neural networks that need to learn by observing an immense amount of data and a variety of examples to be able to adapt to any environment. Even more importantly, it needs to observe high-quality, well-lit images where the subject

observed is relatively large and unobstructed. These conditions are difficult to find in the CCTV environments where video analytics are used, which tend to be outdoor sites with complex, changeable conditions.

In contrast, traditional video analytics have proven very efficient at detecting small, moving subjects under any condition. However, sometimes

struggle to distinguish between people and objects moving in the scene.

Can you have the best of both worlds?

DAVANTIS wants it all without sacrificing anything. That's why we've developed Deep Fusion technology, which is capable of combining our market-leading traditional analytics, with Deep Learning. Based on our continuous research in innovation and more than 15 years' experience in the sector we have managed to combine the best of both worlds.

DEEP FUSION can detect all intruders in the most demanding situations and

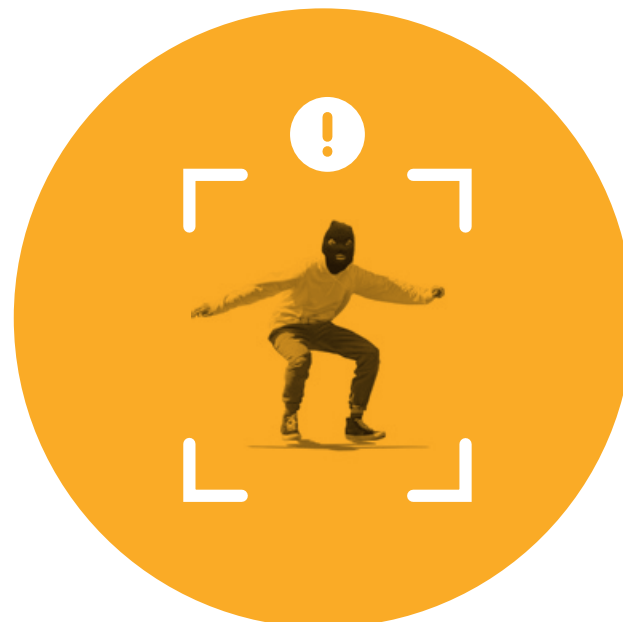
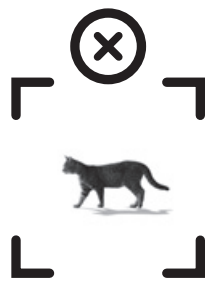
cover longer distances with an unprecedented reduction in false alarms in the sector.

At DAVANTIS we want it all without sacrificing anything

DEEP FUSION is quick and simple to install. DEEP FUSION is revolutionising video analytics for perimeter security. Nothing will ever be the same again.

Welcome to the future.

Nothing will ever be the same again



Features










An
unprecedented
reduction in
false alarms in
the sector

DFUSION

Thermal
235 m / 257 yd
Day/night
67 m / 73 yd

DFUSIONPRO

Thermal
505 m / 552 yd
Day/night
120 m / 131 yd

-  Intruders
-  Vehicles
-  Entrance / Exit
-  Tampering
-  Loitering
-  Appears / disappears
-  Virtual Onvif
-  Combination of rules
-  Integration with CMS, VMS and PSIM

ADVANCED FEATURES DFUSIONPRO



Smart PTZ

Based on detection with fixed cameras, the Smart PTZ feature enables directional pan, tilt and zoom to the detection area, enabling better identification of the intruder.



Stabiliser

Allows more accurate image analysis and reduces false alarms, typically caused by camera shake or movement.

The slightest vibration caused by the wind generates a large movement in the scene, with high impact on video analytics systems.

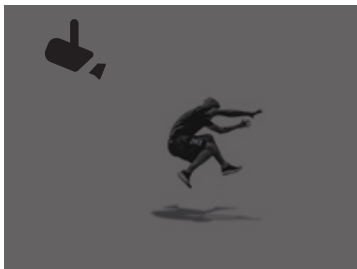
DAVANTIS incorporates image stabilisation for improved reliability and outperforms its competitors.



Virtual IR

Virtually illuminates dark areas to improve intruder detection and enhance the image.

The system processes images received by the camera, highlighting difficult-to-detect, dark areas and showing a clearer area for better supervision.



ATKPRO optional module



ATKPRO

What happens when an intruder appears and disappears quickly from the field of view?

Sometimes intruders are detected but quickly disappear, and you can't see where they have gone. With DAVANTIS and its ATKPRO module, this won't happen to you.

When an intruder is detected, the Smart PTZ function positions the PTZ camera at the detection point. After positioning the camera, ATKPRO module takes control and automatically

follows intruders as they move about the site. The PTZ video footage is sent to the CMS together with the alarm to give the operator a better view of the intruder and information about what they are up to and their location, even when outside the field of view of fixed cameras. Having analysed all the information, the CMS operator can trigger deterrent measures to force the intruder off the facilities. ATKPRO module, provides higher resolution images of intruders the moment they are detected, even outside the field of view of your fixed cameras.

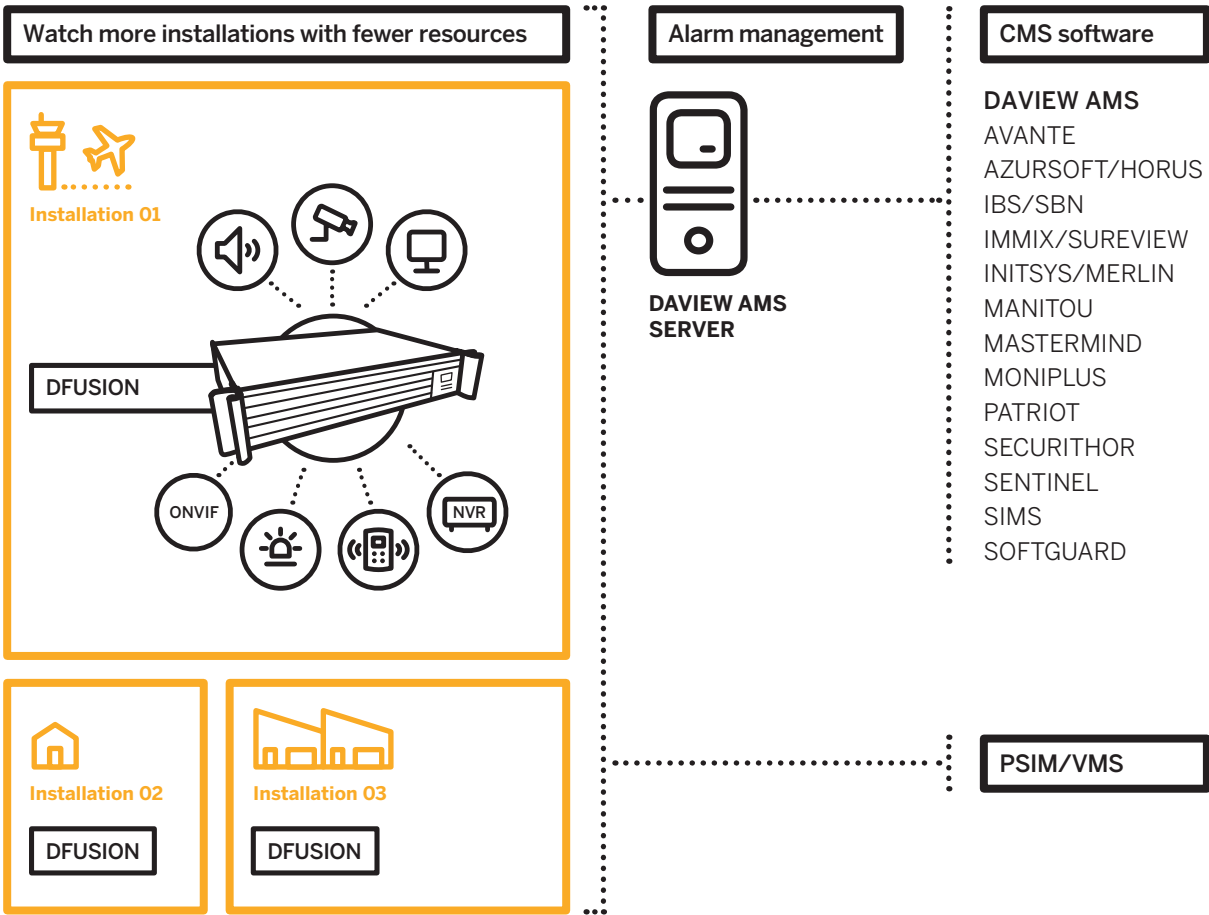


Our ATKPRO module complements your perimeter security system and improves intruder tracking

Maximum compatibility

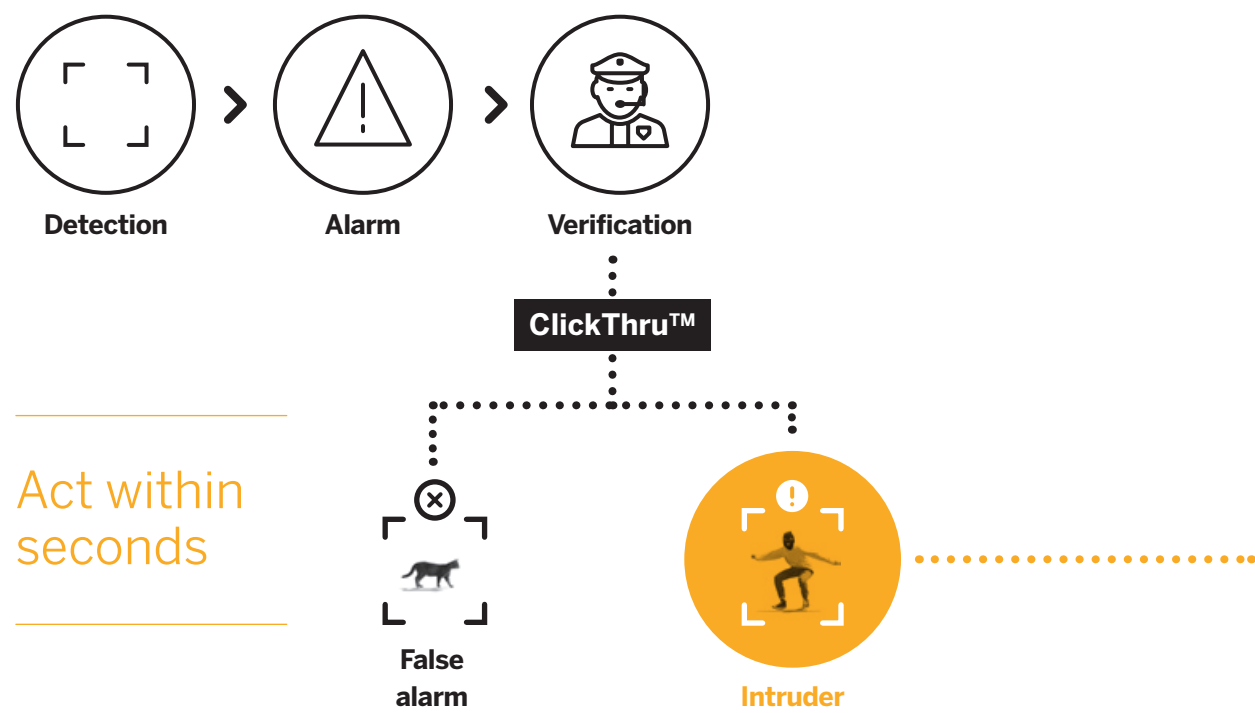
Proprietary technology, compatible with all hardware brands. Total freedom to design the best CCTV installation

Compatible with all CMS, VMS and PSIM

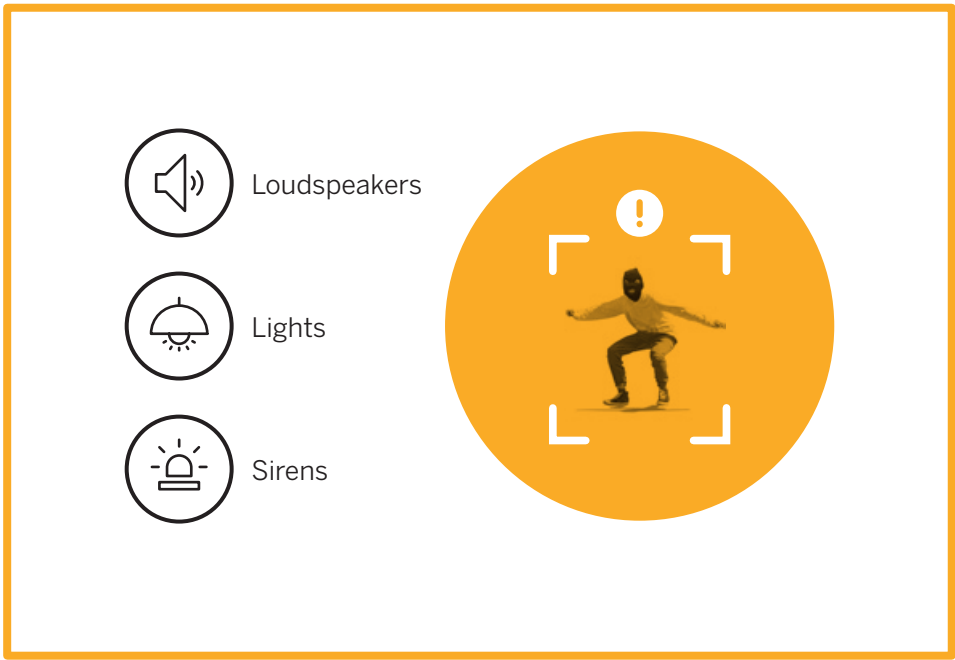


Why DAVANTIS?

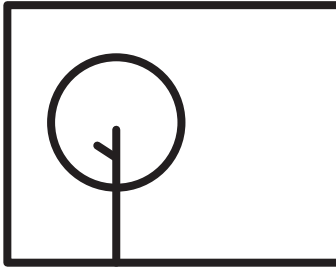
Verification process



Remote activation of deterrent devices



Having verified the presence of an intruder, the system facilitates remote activation of deterrent devices.



ClickThru™

Our exclusive technology is a unique, simple, efficient system integrated into all CMS, VMS and PSIM.



Click 1
Snapshot
with a box highlighting the cause of the alarm.



Click 2
Video
of the alarm at the activation point.



Click 3
Live access
to the camera for immediate verification.

Your security staff can use our app to monitor the site and act within seconds.



Police



Owner

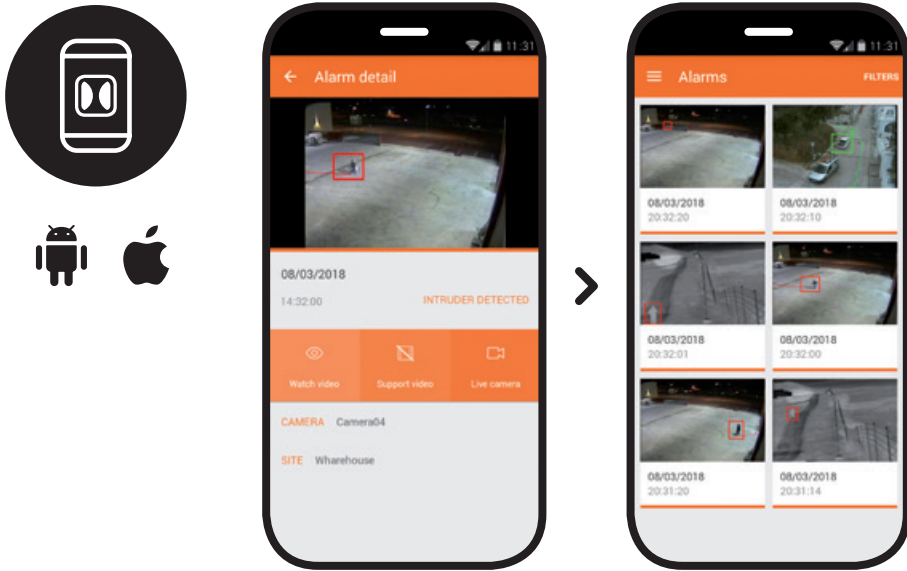


Security

DAVANTIS App

Security in your hands

- Use our APP to view your site and perform common tasks, easily and quickly.
- Visualise alarms with snapshots and video
 - Receive alarms through push notifications
 - See what's happening live through your cameras
 - Arm and disarm input devices
 - Activate/deactivate output devices



Range tables

Thermal cameras

DFUSION					
f (mm)	Pixel pitch (µm)	Sensor (px)	HFOV (o)	Blind distance (m/yd)	Distance (m/yd)
9	17	640 x 480	62°	3/3	65/71
10	17	640 x 480	57°	3/3	70/77
13	17	400 x 300	29°	8/9	100/109
13	17	640 x 480	45°	5/5	110/120
15	17	640 x 512	40°	6/7	125/137
19	17	400 x 300	20°	12/13	140/153
19	17	640 x 480	32°	8/9	145/159
25	17	400 x 300	15°	16/17	175/191
25	17	640 x 480	25°	10/11	180/197
25	17	640 x 512	25°	10/11	185/202
35	17	400 x 300	11°	23/25	235/257
35	17	640 x 480	18°	15/16	240/262

DFUSIONPRO					
19	17	400 x 300	20°	12/13	195/213
19	17	640 x 480	32°	8/9	205/224
25	17	400 x 300	15°	16/17	245/268
25	17	640 x 512	25°	10/11	255/279
35	17	640 x 480	18°	15/16	335/366
50	17	640 x 512	12°	19/21	445/487
60	17	640 x 480	10°	23/25	505/552

Day/night cameras

DFUSION						
	f (mm)	Height (m/ft)	Sensor	HFOV (o)	Blind distance (m/yd)	Distance (m/yd)
Standard view	3	4/13	(1/3)"	77°	2/2	32/35
Standard view	8	4/13	(1/3)"	33°	8/9	67/73

DFUSIONPRO						
Standard view	15	4/13	(1/3)"	18°	1/1	120/131
Corridor view	15	4/13	(1/3)"	14°	12/13	120/131

Camera installed 4 metres / 4 yd above ground level. The maximum range obtained is the ratio of 1.8-metre / 6 ft person standing at the top of the image. Distances are reduced in adverse weather conditions. The thermal difference required is 2°C. The minimum observation of the person is 2 seconds, recommended 5 seconds. HFOV means horizontal field of view.

We plot the road to follow

+40

countries represented

+10,000 km/

6,300 mi

of perimeter under surveillance

30%

of our team dedicated
to research



We are committed to making your site secure. We are video analytics pioneers, experts in developing new solutions.

We supply our own, innovative technology, compatible with every security system on the market.

We always work to high quality standards and are 100% committed to our customers to guarantee that all your projects are a success.



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