

Avantgarde™

IP based Bi-Directional
Infrared Barrier

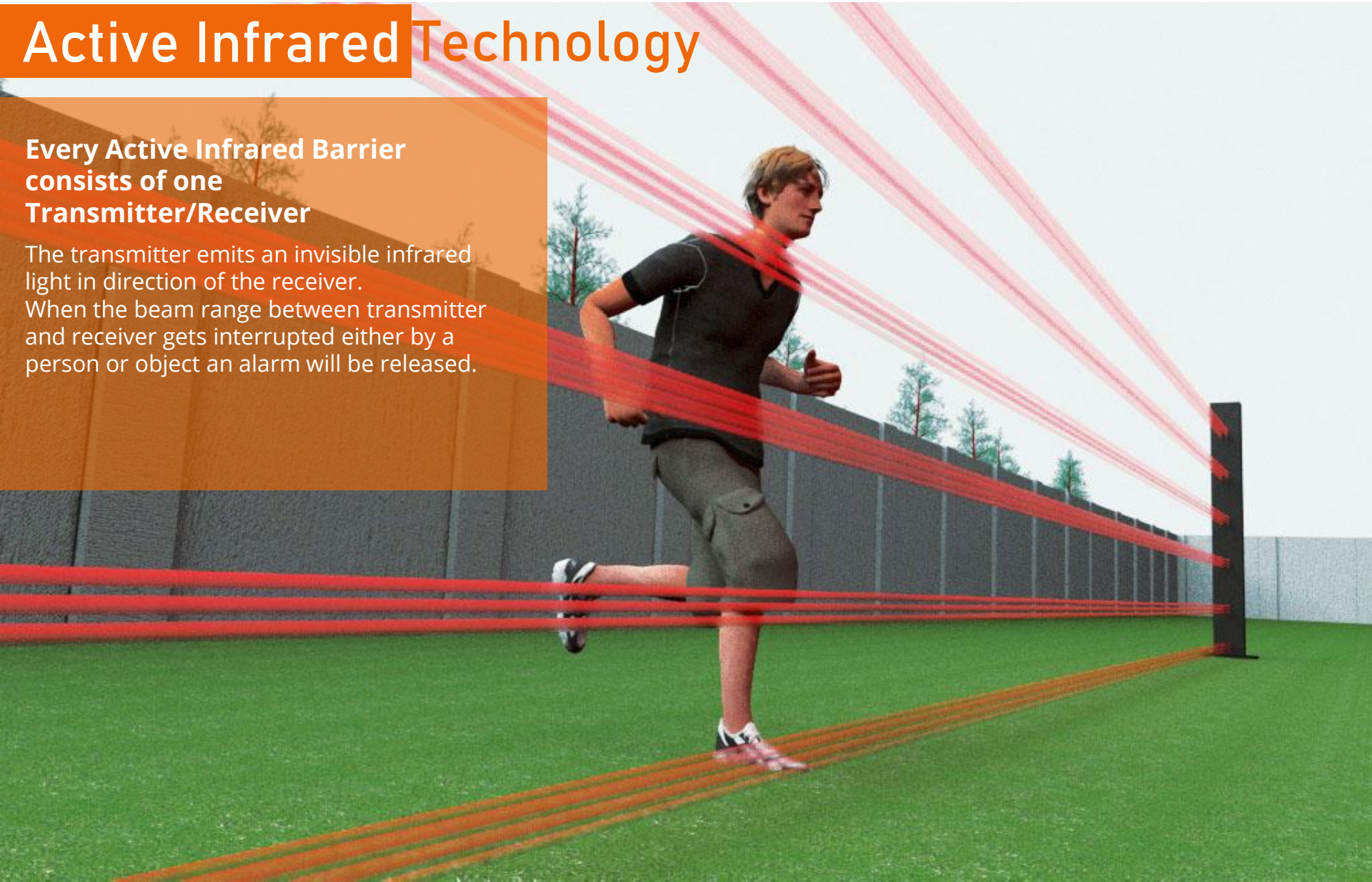
IP Native | R 200m | 12/24V or PoE | Grade 4



Active Infrared Technology

Every Active Infrared Barrier consists of one Transmitter/Receiver

The transmitter emits an invisible infrared light in direction of the receiver. When the beam range between transmitter and receiver gets interrupted either by a person or object an alarm will be released.



Avantgarde™

Patented IR Technology

- | Avantgarde™ is a High Security Infrared Active Barrier
- | IP Based (IP Native)
- | Enclosed in two tamper protected extruded aluminum columns
- | Equipped with SICURIT patented bi-directional Infrared Technology
- | With maximum range up to 200m
- | Certified Grade 4 | Environmental Class IV

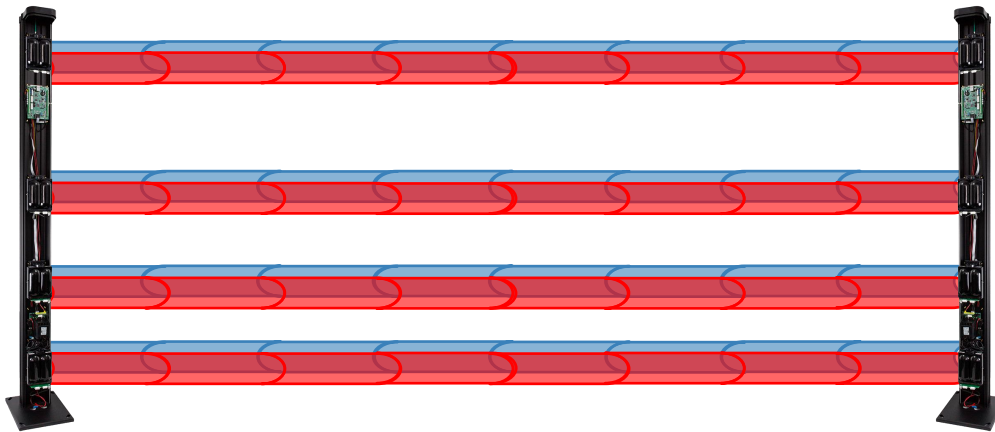


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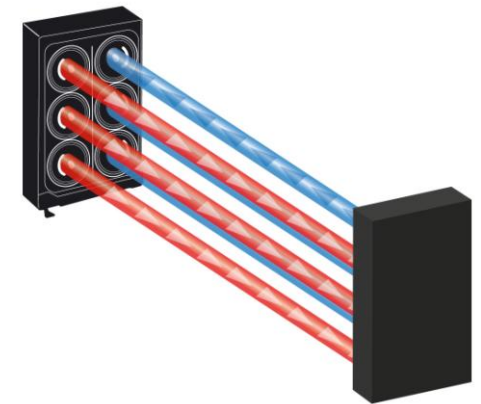
Product Introduction

| Avantgarde™ is equipped with Sicurit latest patented Bi-directional IR Technology, the only Infrared Technology completely immune to sunlights and tamper attempts

HOW IT WORKS



Patented 3TX+3RX IR Beam



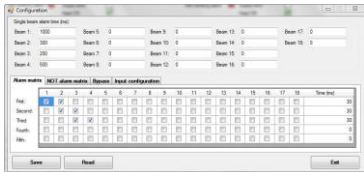
SUNLIGHT FRIENDLY



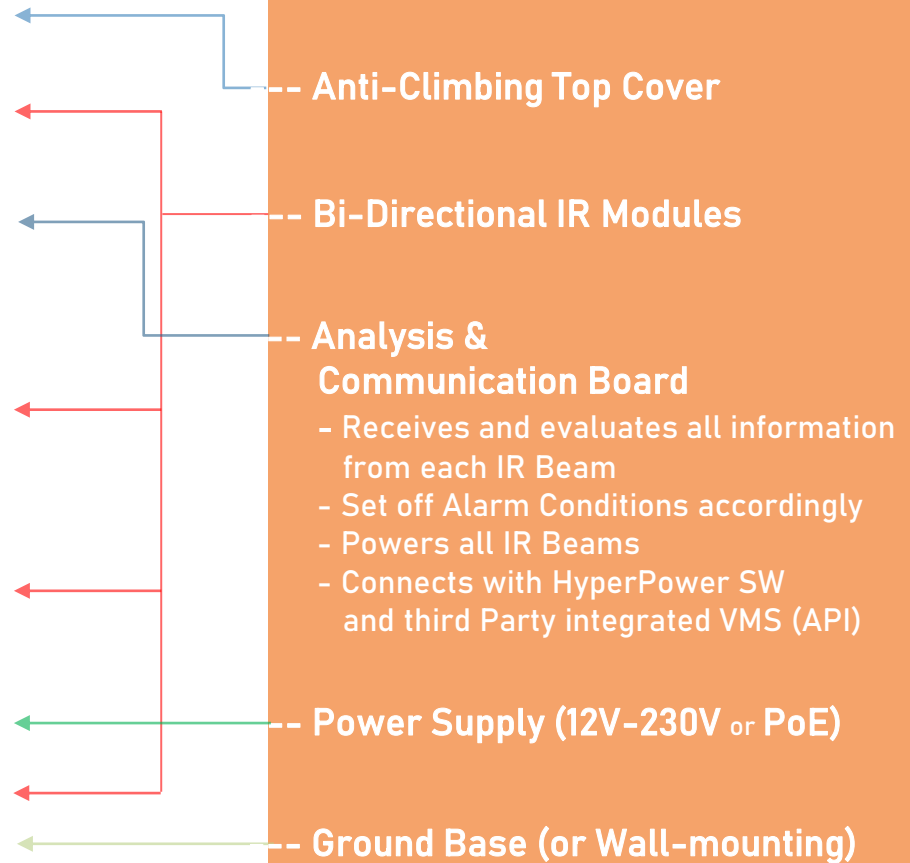
In case of any false exposure to direct light sources (e.g. sunlight) the inflicted receiver raises an alarm, but as the corresponding receiver on the other side is getting a correct signal, the system will NOT set off the Alarm

Avantgarde™

Product Anatomy



Configuration SW



Avantgarde™

Unique Functions

Target Direction Analysis (TDA)

Avantgarde™ provides not only simple alarm information but even target direction (IN or OUT) information which makes even target tracking with perimeter CCTV cameras easier and more accurate



5Ds

Detection Scenarios (& Alarm filter)

Being each Infrared beam equipped with microprocessor, individual crossing parameters can be set and up to 5 multiple intrusion detection scenarios can be programmed to better define detection target based on intrusion attempts behaviours



Predictive Maintenance Tools

Another key innovation is the Signal Efficiency Analysis (SEA) which continuously monitor the optical communication efficiency of each IR beam which could decrease as for instance due to dirty Perplex or any other factor that can cause optical communication reduction



Infrared Beams Control (ON-OFF)

Avantgarde™ can adapt itself to any drastic environmental changing such as big snow falls, growing grass or sand storms by simply disabling without additional wire connections those Infrared beams temporally covered preserving its capability of detection



Avantgarde™

Standard Versions | Ground-Mounting



H: 2.0m | IR: 3x

IMTDT200(P)/2.0

H: 2.5m | IR: 4x

IMTDT200(P)/2.5

H: 3.0m | IR: 5x

IMTDT200(P)/3.0

Versions



Avantgarde™



Avantgard-WM™

Fully Customizable

Number of IR's Expandable

Columns height customizable

Columns Colors: Black, White, RAL's and ICAO

Power-Supply: 230V (PSU) or PoE+



Avantgarde™

Key Benefits

- ✓ Linear Detection | NOT Volumetric
No needs of Wide Corridors to Deploy
- ✓ NOT Susceptible to EMI and RF Interferences
- ✓ One Single Connection with PoE version
- ✓ Reduced Infrastructure
- ✓ High Target Discrimination (5DS)
- ✓ Complete Remote Diagnostic



Why To Choose

The Only...

- 1 Able to define Crossing Direction (IN&OUT)
- 2 Equipped with Predictive Maintenance Tools
- 3 With Full Remote Control (ON-OFF)
- 4 Infrared Barrier with Distributed Intelligence (5DS)
- 5 Infrared Barrier Completely Immune to Direct Sunlight
- 6 Able to send ONVIF Commands (Via IMTIPLUG Module)



IN & OUT | Predictive Maintenance | ON-OFF | Detection Scenarios

Avantgarde™

Technical Features

FEATURES	DESCRIPTIONS
Outdoor Range	Up to 200m (IMTIR200/X.X)
Columns Height	2/2.5/3.0m (tailor made heights available on request up to 4.0m)
Number of IR Beams	Minimum 3 up to 18 (Depending on columns height)
Alarm response time	From 30ms up to 1000ms (Selectable for each Beam + Multiple alarm intrusion scenarios)
Probability of detection (POD)	Greater than 95% (in relation to the number of IR beam modules)
Power Supply	12VDC ±15% and 24VAC ±20% (Anti-mist heaters) 110/230V with BEA1224ALIEX or BEA1224ALIEX-USA NEW PoE+ with IMTSPL splitter
Operating Temperatures	From -25°C to +75°C From -40°C to +75°C with IMERES module
Alarm Output	C form Contact Relay Outputs on MasterTX and SlaveRx columns
Tamper Output	N.C. Contact switch on MasterTX and SlaveRx columns
Data Transmission (RJ45 in each column)	TCP-IP 10/100 Base-T ModBus TCP
Integrated Platforms	Direct: Genetec, HyperPower Via HyperPower: Geutebrueck, Milestone, Winguard, Lensec
Auxiliary INPUT	2 in each column
Auxiliary O.C. OUTPUT	2 in each column
Column Dimensions (mm.)	155(W) x 166(P) x (H)
Base Dimensions (mm.)	280 x 280 (BET040)
Column IP rating	IP55
Configuration Tools	Web-browser for barrier communication and configuration setup Software (Windows® based) for barrier parameters setting and diagnostic
Electro magnetic compatibility	In compliance with European standards (FCC pending)
Product classification	Security Grade 4 - Environmental Class IV (EN 50131-1:2006, EN 50131-1-2-4:2008)
Warranty	Comprehensive 2 years warranty on HW and SW

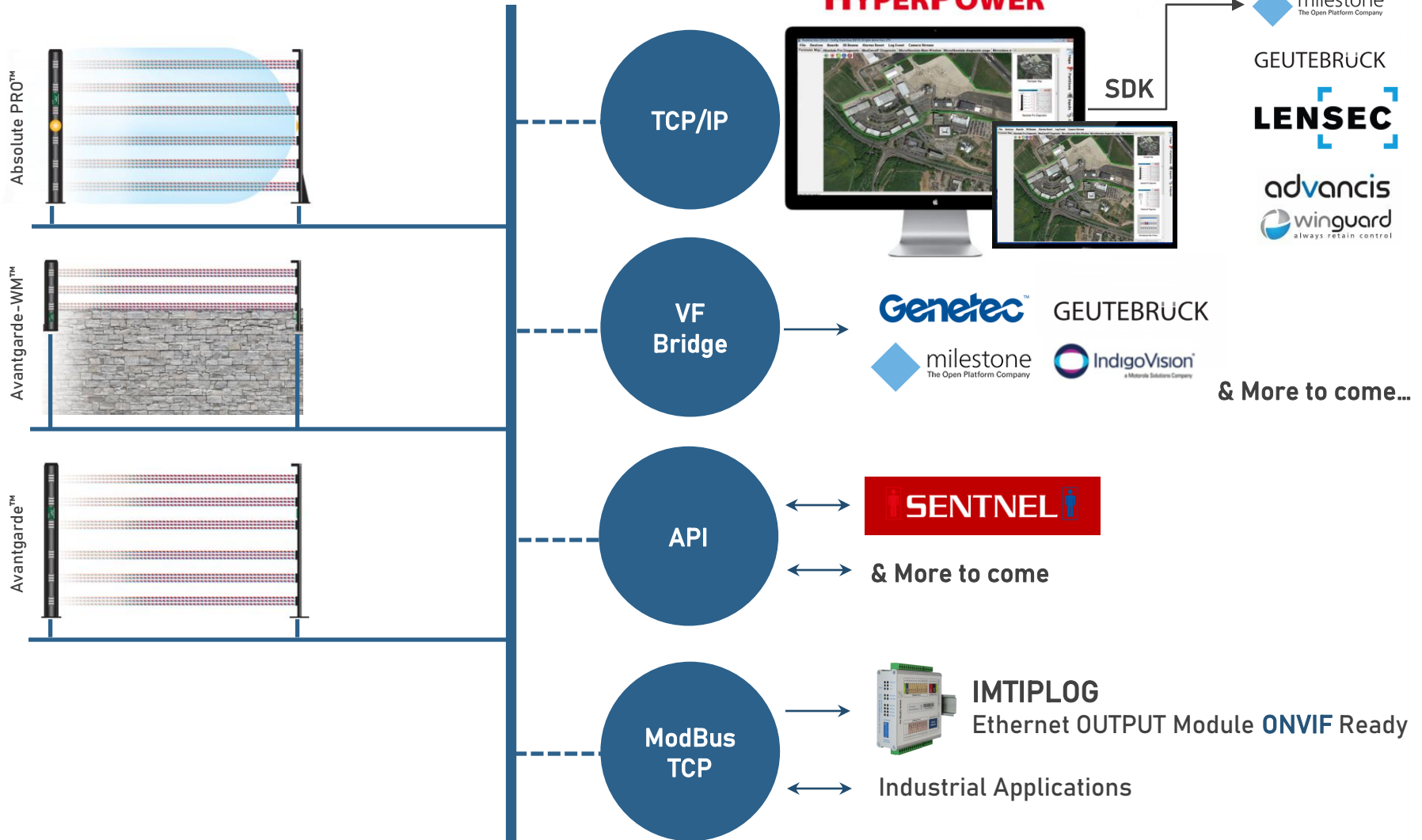


I/O Embedded



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Integration Options



HyperPower™

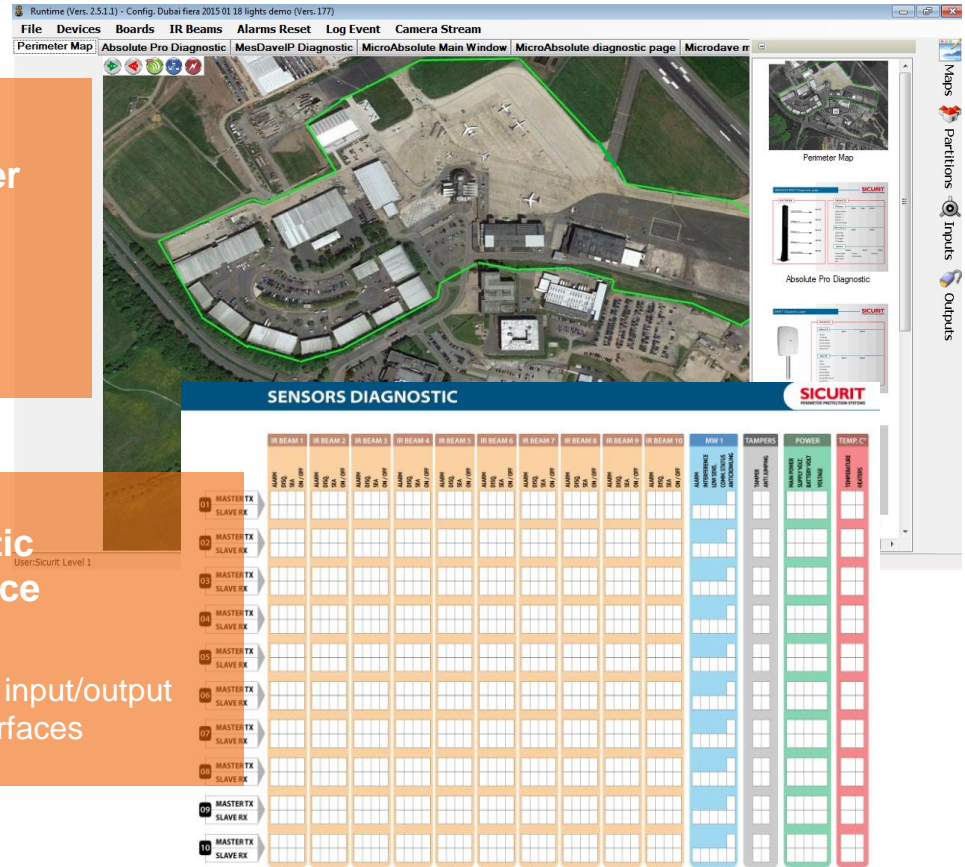
Alarm & Event Management SW

Alarm Supervision, Diagnostic and Control SW based on a client-server architecture

Fully interactive mapping with secure communications and simple graphical configuration

Complete remote diagnostic supervision for maintenance purposes

Supports dry contacts and digital input/output connections via RS485 or IP interfaces



SDK

Integrated with main VMS/PSIM Platform e.g. Milestone, Geutebrueck, Winguard and Lensec

IMTIPILOG

Ethernet Output Module

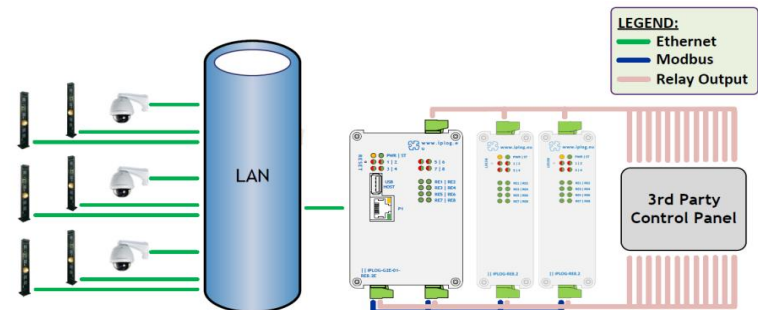


IMTIPILOG has been designed to provide anywhere in the IP Network contact relays outputs from Avantgarde™ and Absolute PRO™.

IMTIPILOG additionally provides watchdog functionality and e-mails or SMS messages to the System Integrator that wants to be notified in case of system malfunctions.



Supported by **ONVIF Profile S and T**, IMTIPILOG can be configured to control any perimeter connected network camera



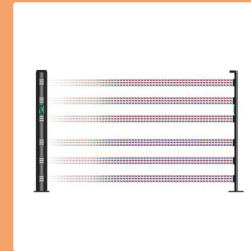
VF-Bridge™

Features

- VF Bridge supports up to 128 set of Avantgarde™
- Connects with Major VMS/VSS
- Internal Log-Event reporting
- Not bounded to specific servers
- Includes an intuitive password-protected SW to control and diagnose all connected Virtual Fences



Smart VMS/VSS Integration Option



Events Available on VF-Bridge™

- Alarm
- MW Pre-Alarm (Absolute PRO™)
- Tamper
- SEA
- IR Disqualification (Avantgarde™)
- AUX Input
- Main Poower Fault
- Virtual Fence Watchdog
- VF-Bridge™ Watchdog
- Heater ON/OFF

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Company Quality

ISO 9001:2015



Products Classification

Grade 4 | Env-Class IV



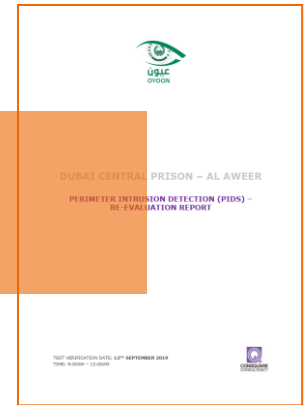
Quality & Product Certifications



ME Approvals

Dubai Police

Avantgarde™
AbsolutePRO™



HCIS

Avantgarde™
AbsolutePRO™
HSF Activa - Pending

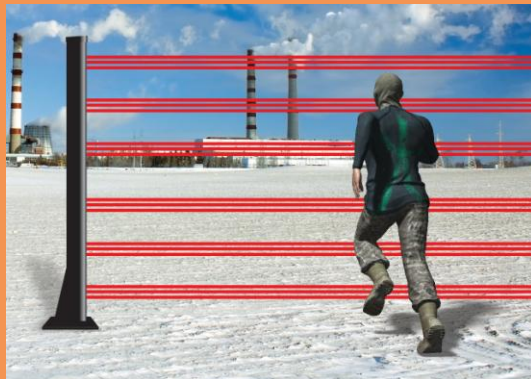


SICURIT

Worldwide Applications

- Critical Utilities
- Corrections
- Industrial
- Transportation
- Government | Military
- VIP Residential





SICURIT

PERIMETER PROTECTION SYSTEMS

SICURIT Perimeter Protection Systems is a leading Italian manufacturer of Perimeter Intrusion Detection System (PIDS) designed to protect Critical Infrastructures. Committed to innovation and product diversification, SICURIT products range includes patented bi-directional IP Native IR & DT barriers (Virtual Fences) for both ground and wall-mounting applications and the unique of its kind HSF Activa™, an All-in-One high-security fence with integrated and completely hidden/protected Pin-Point detection technology.

www.sicurit.com

#Needs4PIDS > Follow us on LinkedIn