

ER PIDS



IP based linear bi-directional Infrared Barrier

P/N: IMTIR200/2.0, IMTIR200/2.5, IMTIR200/3.0



AVANTGARDE-IR is a high security active Infrared barrier enclosed in two tamper protected extruded aluminium columns equipped with Sicurit last generation of digital patented **bi-directional Infrared Technology** with range up to 200m.







Thanks to the **patented 3TX+3RX-Optics Beam** head, in case of any **false exposure** to direct light sources (e.g. sunlight/car headlights) the inflicted receiver raises a pre-alarm, but as the corresponding receiver on the other side is getting a correct signal, AVANTGARDE will not set an alarm condition thus drastically reducing nuisance alarm rates. AVANTGARDE results therefore to be the only active infrared barrier **completely immune to direct light exposure**.

Unique Functions



Target Direction Analysis (TDA)

AVANTGARDE-IR 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.



Detection Scenarios (Distributed Intelligence)

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 behaviors.



Predictive Maintenance Tool (SEA)

Another key innovation is the continuous Signal Efficiency Analysis (SEA) which monitor all optical communication efficiency and notifies when critical thresholds has been reached that can be caused by e.g. dirty front-cover, IR beam end of life.



Infrared Beams Control (ON-OFF)

AVANTGARDE-IR can adapt itself to any drastic environmental change such as big snow falls, growing grass or sand storms by simply disabling without additional wire connections any Infrared Beam temporally obstructed thus preserving its capability of detection.

KEY BENEFITS

- Linear Detection
- Bi-directional IR Technology with distributed intelligence
- End-to-End IP based Sensor
- Complete remote control and diagnostic
- Optional PoE+ splitter
- Integrated with major VMS
- Certified Grade 4

PIDS





Specifications

General

200m (100m in dense fog environment) Maximum operating range

Number of IR beams 3 (IMTIR200/2.0), 4 (IMTIR200/2.5), 5 (IMTIR200/3.0)

Towers height (H) 2.0m (IMTIR200/2.0), 2.5m (IMTIR200/2.5), 3.0m (IMTIR200/3.0)

Type of detection Linear | Bi-directional Infrared Technology

950nm IR Frequency

Probability of detection (POD) Greater than 98% False alarm rates Typically 1/unit/year

Communication

Communication interfaces Relay outputs, Ethernet (RJ45)

Alarm outputs N.C. Relay Output on M-TX or S-RX (optional)

N.C. Relay Output on M-TX and S-RX Tamper outputs

Auxiliary outputs 3x programmable O.C. in both M-TX and S-RX 4x double balanced in both M-TX and S-RX **Auxiliary inputs** Alarm data transmission TCP/IP to HyperPower SMS and A-Bridge

Ethernet (M-TX/S-RX) TCP 10/100 Base T API, Modbus TCP Third party integration options

Electrical

Power supply 12VDC ±15% and 24VAC ±20% (Anti-mist heaters)

M-TX 450mA; S-RX 450mA (2.0), M-TX 550mA; S-RX 550mA (2.5), M-TX 650mA; S-RX Power consumption

650mA (3.0)

Power supply options 110/230V (with BEA1224ALI/EX/USA; PoE+ (with IMTSPT1220BOX)

Environmental

-25°C / +70°C; -40°C / +70°C with additional PTC Heater Operating temperatures

-10°C / +70°C with IMTSPT1220BOX PoE+ splitter

IP65 IP Rating (towers)

Configuration tool Web-browser and Software (Windows® based)

Dimensions Tower: 15.5x16.6xHcm | Base: 28x28cm

CE, Product classified Security Grade 4 - Environmental Class IV **Regulatory compliance**

(according to EN 50131-1:2006, EN 50131-1-2-4:2008)

Comprehensive 3 years Warranty

List of accessories

IMT242 Additional IR beam module BEC205 Anti-climbing top cover BEA1224ALI/EX 230V Power supply IMTSPT1220BOX PoE+ Splitter

BET040 Single tower base (ground application) BET040DUO Dual tower base (back to back)

Integration options

CMHPAVSW Hyperpower SMS IMTAB16/32/64/128 A-Bridge VMS gateway

IMTIPLOG Ethernet output module ONVIF ready

Complete list of accessories available in SICURIT official pricelist.

Graphic representation

