

## ABSOLUTE PRO IP Dual Technology Barrier

IMTDT200 series



ABSOLUTE PRO is a high security active dual technology (DT) barrier enclosed in two tamper protected extruded industrial rated aluminum columns equipped with Sicurit last generation of digital patented bi-directional infrared and parabolic X-Band microwave technology, all within one unit.

### Bi-Directional IR Technology

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, ABSOLUTE PRO will not set an alarm condition thus drastically reducing nuisance alarm rates.

### New Planar X-Band Microwave Technology

Additionally ABSOLUTE PRO makes use of last generation of Sicurit's digital Microwave (X-Band) and Advanced Digital Signal Processing (ADSP) to reduce false alarm rates and distinguishing the type of intrusion attempt and eventual temporary obstructions specially during system rearming.

Another innovation is the introduction of a random modulation channel shuffle-based algorithm that increases Microwave safety making ABSOLUTE PRO completely immune against attempts to tamper it.



### Unique Functions



#### Target Direction Analysis (TDA)

ABSOLUTE PRO 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)

ABSOLUTE PRO 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 temporarily obstructed thus preserving its capability of detection.

### KEY BENEFITS

- Combined Detection (IR+MW)
- Bi-directional IR and digital parabolic X-band Microwave technologies
- End-to-End IP based sensor
- Complete remote control and diagnostic
- Optional PoE+ splitter
- Integrated with major VMS
- Certified Grade 4

## Specifications

### General

Operating ranges	200m
Type of detection	Linear with volumetric pre-alarm   Bi-directional Infrared + Microwave Technology
IR frequency	940nm
MW type and frequency	Parabolic, X-Band (10.525GHz)
Frequency channels	4
Probability of detection (POD)	Greater than 99%
False alarm rates	Typically 1/unit/year
Number of IR beams	3x (IMTDT200/2.0); 4x (IMTDT200/2.5); 5x (IMTDT200/3.0)
Towers height (H)	2.0m (IMTDT200/2.0); 2.5m (IMTDT200/2.5); 3.0m (IMTDT200/3.0)

### Communication

Communication interfaces	Dry contacts, Ethernet (RJ45)
Communication protocols	TCP-IP/ModBusTCP (API available on request)
Ethernet (M-TX/S-RX)	TCP 10/100 Base T
Alarm data transmission	TCP/IP to HyperPower SMS and A-Bridge; ModBusTCP to IMTILOG
Alarm outputs	N.C. Relay Output in M-TX and S-RX (selectable)
Tamper outputs	N.C. Relay Output in M-TX and S-RX
Auxiliary I/O	4IN/3OUT (programmable O.C.) in both M-TX and S-RX

### Electrical

Power supply	PoE+/12VDC-24VAC (110V/230V built-in Power Supply available)
Power consumption	M-TX 580mA/S-RX 580mA (2.0); M-TX 680mA/S-RX 680mA (2.5); M-TX 780mA/S-RX 780mA (3.0)
Power supply options	PoE+ (with IMTSPT1220BOX); 110/230V (with BEA1224ALI/EX/USA)

### Environmental

Operating temperatures	-25°C / +70°C; -40°C / +70°C with additional PTC Heater -10°C / +70°C with IMTSPT1220BOX PoE+ splitter
IP rating (towers)	IP55

### Configuration tool

Web-browser and Software (Windows® based)

### Dimensions

Tower: 27x16xHcm | Base: 40x40cm

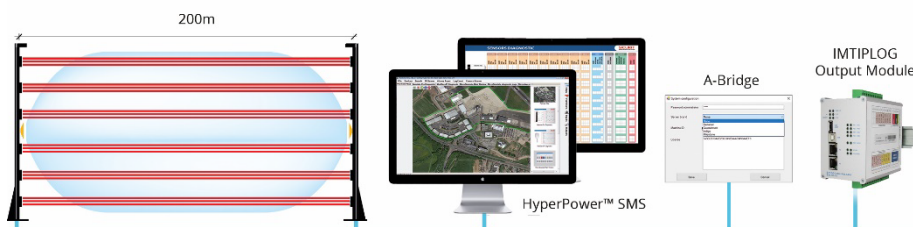
### Regulatory compliance

CE, Product classified Security Grade 4 - Environmental Class IV (according to EN 50131-1:2006, EN 50131-1-2-4:2008)

### Warranty

Comprehensive 3 years

## Graphic representation



## How to order (P/N)

### Models

IMTDT200/2.0	Set of ABSOLUTE PRO   H: 2.0m   3x IR's + 1MW
IMTDT200/2.5	Set of ABSOLUTE PRO   H: 2.5m   4x IR's + 1MW
IMTDT200/3.0	Set of ABSOLUTE PRO   H: 3.0m   5x IR's + 1MW

### List of accessories

IME207/IME208	Ground base/Reinforced ground base
BEA1224ALIEX	230V Power supply
IMTSPT1220BOX	PoE+ Splitter

### Integration options

CMHPAVSW	Hyperpower SMS
IMTAB16/32/64/128	A-Bridge VMS gateway
IMTILOG	Ethernet output module ONVIF ready

Complete list of accessories available in SICURIT official pricelist