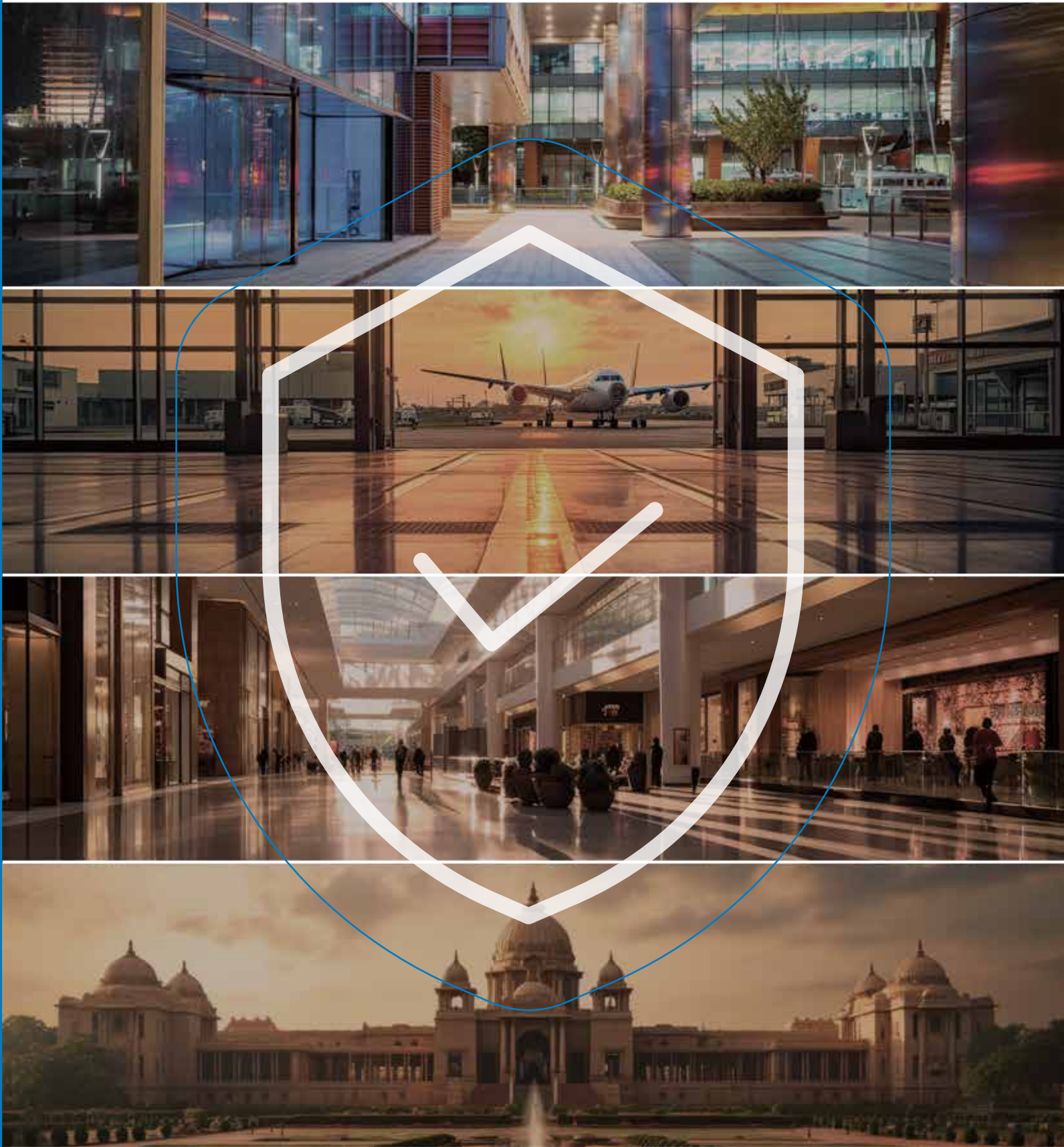




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SAFETY

SECURING
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ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

Disclaimer: In view of the Godrej policy of continuous development and improvement, the dimensions and specifications may be changed without prior notice or obligation. Colours of the products shown in this catalogue may not match the actual colour of the product due to printing limitations.

Weight is Gross Weight, unless mentioned otherwise. | Call our help line or speak to our security advisor to know more. | Terms and Conditions apply subject to standard installation procedures. Manufacturing Tolerance - Weight +10%, -10%, Dimensions +/- 10% | MRP is inclusive of all taxes. For further information please contact our customer service team. Images are for illustrative purposes only. The actual product appearance may vary.

This product is designed and manufactured with recyclable material. At end of life of this product, you may recycle all the components. Alternatively, you may seek guidance for disposal at 1800 209 9955.

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

GSS/IMC/B2B/PSS CATALOGUE/JUNE-2024

YOUR SAFETY IS OUR PRIORITY

Since 1902, Godrej Security Solutions has been at the forefront of safety and innovation. For over a century, we have stood at the forefront of safeguarding India's premier institutions, from banks to offices, heritage buildings to ships. With our cutting-edge security solutions, we have consistently delivered unparalleled protection, earning a reputation synonymous with world-class quality and intelligent technologies.

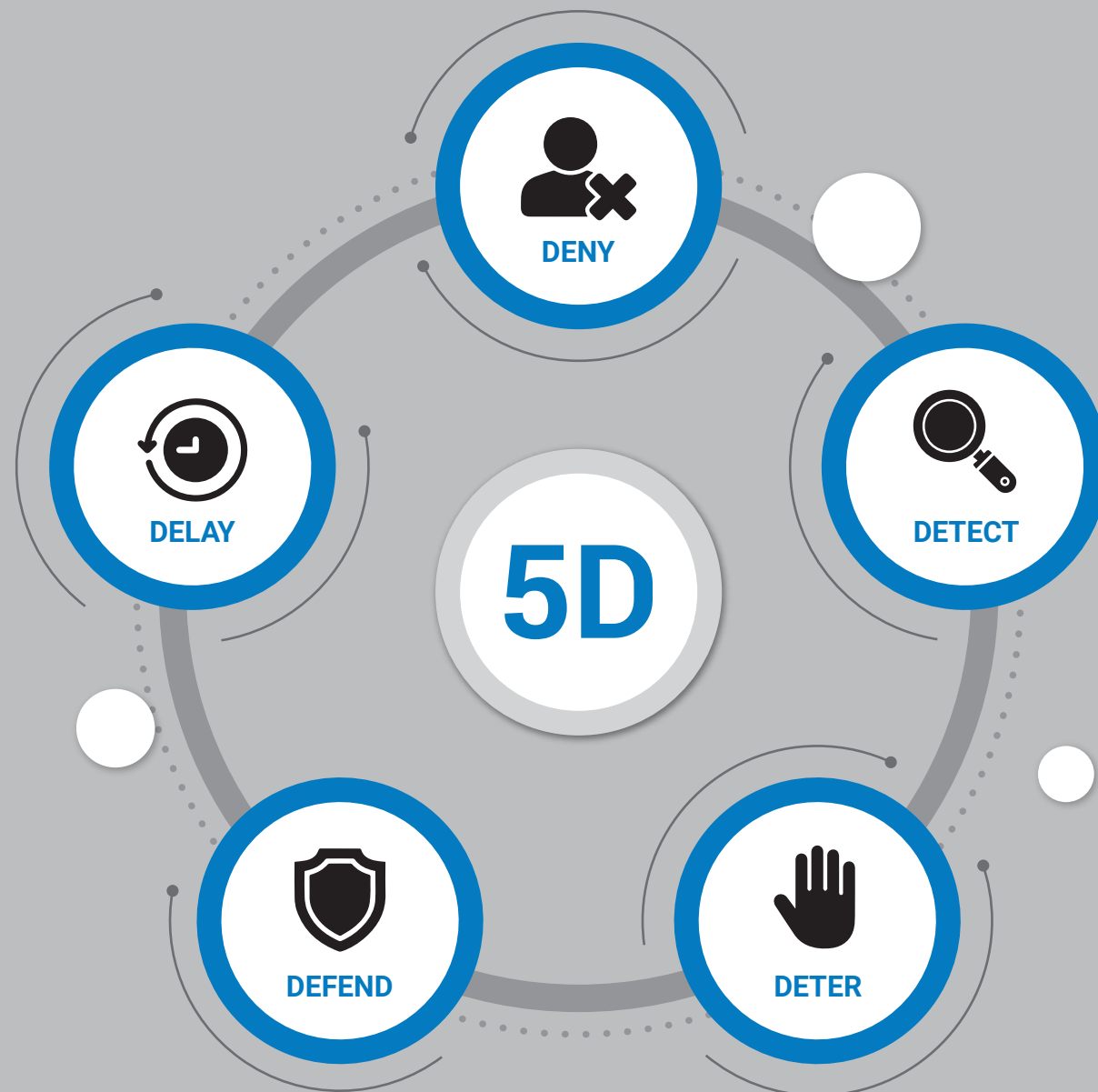
At Godrej Security Solutions, we understand the importance of peace of mind in the workplace. That's why our comprehensive range of security offerings encompasses both physical and premises security solutions. Whether it's securing your office valuables, protecting vital documents from potential hazards, or ensuring round-the-clock safety for your premises, we've got you covered.

Think security, think Godrej! Experience the peace of mind that comes with our proven track record of excellence and innovation.



360 DEGREE PROTECTION

India's Only Comprehensive End-to-End
Security Solutions Experts



INTEGRATED SECURITY SOLUTIONS
WITH LATEST TECHNOLOGY.
SERVICED BY PAN-INDIAN DEDICATED TEAM
WITH A PROVEN TRACK RECORD.

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PEACE OF MIND THAT EXTENDS BEYOND THE CONFINES OF YOUR HOME.

Imagine a world where every space you enter, is enveloped in a cocoon of security. Our commitment is to create safe spaces with every innovation, every solution, we strive to create environments where security isn't just a feature but a way of life.

Our comprehensive range and high-tech series of devices are meticulously designed to ensure that no threatening object can breach your premises.

CERTIFICATIONS & STANDARDS



GERMANY



EUROPE



UK



SWEDEN



UK



USA









PEDESTRIAN ENTRANCE CONTROL SOLUTIONS

The ultimate answer to secure and efficient access management.

Designed to seamlessly integrate with various environments, including corporate offices, educational institutions, and public facilities, Godrej Pedestrian Entrance Control Solutions offer a comprehensive range of options to suit diverse needs. Engineered with cutting-edge technology and unparalleled expertise, our solutions redefine the standards of Pedestrian Entry Control.

Seamless Access Control



Retractable Flap Barrier

ENTRANCE CONTROL SOLUTIONS

Godrej

Godrej Retractable Flap Barrier

Godrej flap barrier (FBS) is an innovative pedestrian control technology that designed to achieve best balance between quality, performance and affordability. FBS series provide a combination of reliable mechanical as well as electronic restriction for unauthorized visitor while still maintain a welcoming atmosphere.

Flap barriers are available in single lane and multi lane configuration with combination of standard pedestrian and wide handicapped lane. Flap barrier is designed using DC brushless Motor and highly reliable sensors to make it safe and sturdy.

Benefits

- Automation of pedestrian access control
- Fast opening and closing time
- Tailgate and wrong entry detection
- Reduction in manpower cost at entrance
- Value for money product, low cost of ownership
- Easy to install
- Restricts access to secured area
- Guaranteed service support at reasonable cost

Specifications

Technical	GFB-E
Voltage	230 VAC +/- 10% Single Phase
Frequency	50 Hz
Duty Cycle	100%
Passage Width	520 mm
Housing Dimensions (W x L x H)	260 x 1100 x 1000 mm
Temperature	0 to 55 Degree
Safety IR Sensor	Yes
Power Failure	Fail Safe or Fail lock
Model	BLDC
Lane Indicator	Green & Red on both side

Features

- DC Brushless Motor based highly reliable drive. 100% duty Cycle
- IR Sensor for safety of person standing between two cabinets of flap barrier, tailgate cum wrong entry sensor
- Lane Indicator: Green and Red indications. Green Arrow and Red Cross
- Cabinet: Stainless-Steel grade Cladding
- Flap/Wings: Acrylic 12/10 mm
- Integration with any third-party access control system
- Power: 230 VAC @ single Phase , 50 Hz, Power consumption 100 Watt
- Passage width: up to 520 mm for pedestrian
- Normally closed mode of operation
- Intelligence and logic control by micro processor-based operation
- Opening time: Less than 1 Second for standard lane
- Single lane or multilane Configuration
- Programmable hold time (Adjustable -5/10/15 seconds)
- Fail safe or fail lock mode in case of power failure
- Reader mounting arrangement is available for RFID readers
- Flap opens automatically on power failure
- Installation to the plane ground surface by anchor bolts
- Black acrylic on top edge of the cabinet for flush mounting of reader
- Protection: IP 43

Touchless Access Control



Full Height Flap Barrier

ENTRANCE CONTROL SOLUTIONS

Full Height Flap Barrier

Godrej's Full Height Flap Barrier offers the ideal contactless solution to control access to restricted areas. High on design, its elegant aesthetics take user comfort requirements into consideration.

Applications

- Shopping Malls
- Defence
- Banks
- Airports
- Railways
- IT Parks
- Seaports
- Temples

Features

- Inline direct drive/ brushless DC motor based highly reliable drive.
- Alarm function in case of illegal intrusion and reverse intrusion.
- Short opening/ closing time less than 1.5 sec for high throughput flow.
- Simple integration with all access control systems.
- Automatic opening during power failure.
- Dynamic LED lane indication.
- Long life cycle and low operating cost.
- Tailgating detection with alarm.



Specifications

Model	GFB-M2
Mains Supply	90-130V AC, 47-63Hz / 180-270V AC, 47-63Hz
Power Consumption	Less than 150 W
Drive	BLDC motor / Inline direct drive
Configuration	Fail safe/ Fail lock
Access Time Out	Adjustable 1-10 seconds
Dimensions (L X W X H)	1400 X 300 X 1000 mm +/- 5% (Customizable)
Passage Clearance	550 mm
Flap Wing	Acrylic
Flap Wing Height	900/ 1200/ 1400/ 1600/ 1800 mm
Through Put	40 persons per minute
Opening/ Closing Time	Less than 1.5 seconds
MCBF	5 million cycles
Ingress Protection	IP32
MTTR	< 30 minutes
Case Work	Stainless steel 304/ 316/ M.S. powder coated
Temperature	10°C to +55°C
Humidity	<95% non- condensing
Weight	180 Kg
Optional	Barricade, electronic counter display, push button, access control readers and emergency switch

Authorised
Entry Only

Godrej



Swing Lane Flap Barrier

ENTRANCE CONTROL SOLUTIONS

Swing Lane Flap Barrier

Godrej Swing Lane Flap Barrier is an innovative pedestrian control technology that is designed to achieve best balance between quality, performance and affordability. GSLB series provide a combination of reliable mechanical as well as electronic restriction for unauthorized visitor while still maintain a welcoming atmosphere. Access control and time attendance reader can be integrated into Swing Lane Flap Barrier to improve accuracy of reporting.

Swing Lane Flap Barriers are available in single lane and multi lane configuration with combination of standard pedestrian and wide handicapped lane. Flap Barrier is designed using DC Brushless Motor and highly reliable sensors to make it safe and secure.

Applications

- Hotels
- Malls
- Government Buildings

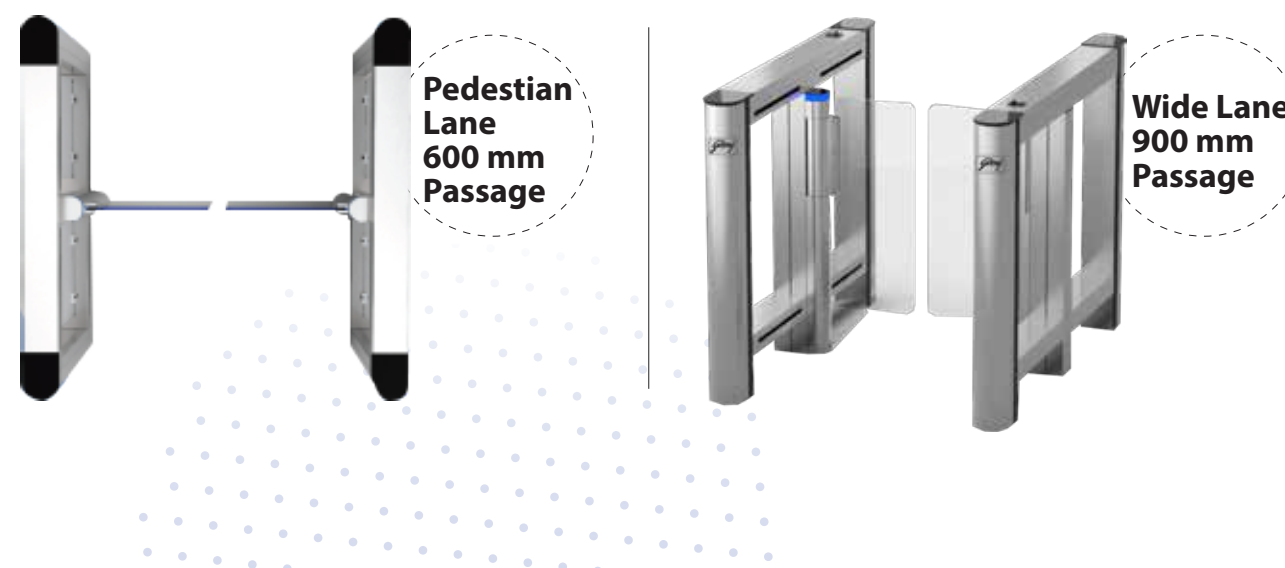
Features & Benefits

- Adjustable Speed
- Best aesthetic look and smooth opening and closing
- Wide opening from 600-900 mm
- Safety at highest standard
- Automatic opening in case of emergency and power failure with auto reset
- Fastest passage speed
- Cabinet width of 120 mm
- Standard cabinet cladding in stainless 304 finish, optional finish in GOLD or any color suitable for existing aesthetic lobby

Note: Cabinet width is 120 mm minimum and can go up to 200 mm, if lift display module is to be mounted on it. RFID reader can be mounted below the black acrylic surface. For bio-metric reader mounted stand or enclosure can be customized as required.

Specifications

- Drive: DC Brushless Motor based highly reliable drive
- IR Sensor for safety of person standing between two cabinets
- Wrong entry and tailgate sensors. Sensor at lower side to detect trolley bags
- Edge light on the rotating element with blue colour/green colour/red colour
- Stainless Steel grade 304 (optional 316) cabinet
- Flap/Wings: Acrylic Or Polycarbonate 10 mm
- Cabinet Width: From 125 to 200 mm and Height: 1000 mm for standard and wide lane
- Power: 230 VAC @ single Phase, 50 Hz
- Passage Width: 600 mm for pedestrian and 900 mm for wide lane used for handicapped lane
- Normally closed mode of operation
- Opening time: 0.5 Second for standard lane (adjustable)
- Long life cycle & low operating cost
- Fail safe in case of power failure



Authorised Access Only

Godrej



Flap Barrier

ENTRANCE CONTROL SOLUTIONS



Godrej

Flap Barrier

Ensuring security and crowd management at the entrance in areas with high pedestrian flow is a challenging task. To make this difficult task easier, Godrej Security Solutions presents Flap Barrier. Designed for pedestrian entrance control it helps to control and secure access, allowing only one person through at a time.

Applications

- Office and Admin Buildings
- IT Parks
- Large Business Facilities
- Industrial Areas

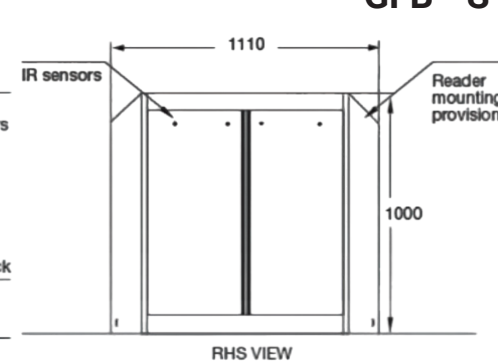
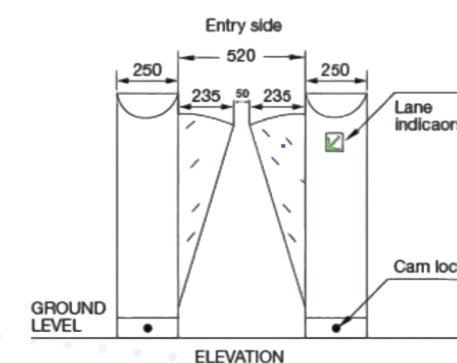
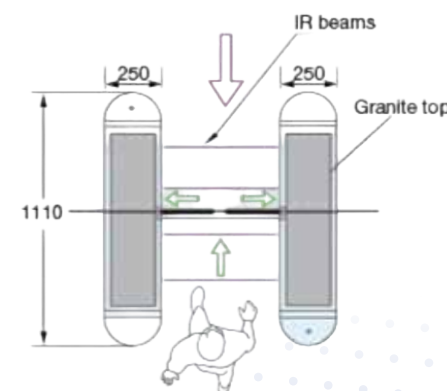
Specifications

Parameters	Standard Lane (GFB-M1, S1)	Wide Lane (GFB-M2, S2)
Tail gating detection system		
OperatingTime (sec)	0.5	0.5
Height (approx. mm)	1000	1000
Length (approx. mm)	1110	1110
Width (approx. mm)	250	450
Power Supply (VAC)	230	230
Passage Clearance (mm)	520	900
Motor	24V DC	24V DC
Duty Cycle	Intensive Use	Intensive Use

Features & Benefits

- Brushless DC motor enabling high reliability and long lasting performance
- Energy efficient, consumes power upto 80 watts
- Safety sensor prevents closing of flaps, ensuring pedestrian safety
- Better aesthetics with granite finish panel on the top and no sharp edges
- Flap material: acrylic
- Tail gating alert
- Bi-directional operation: can be used for both entry & exit
- Configuration to single and multiple lanes enables efficient use of space
- Microprocessor based controller for smooth operation
- Lane indicator displays whether passage is barred or free
- Housing material: mild steel powder coated or stainless steel grade 304 or optional stainless steel grade 316
- Integration with access control device

Dimensions



GFB - S1

*All dimensions are in mm and approx.

Authorised
Access Only

Godrej



Slim Tripod Turnstile

ENTRANCE CONTROL SOLUTIONS

Godrej Slim Tripod Turnstile

Ensuring security and crowd management at the entrance in areas such as railway platforms, passenger terminals, sports stadiums, etc. is a challenging task. To make this difficult task easier, Godrej Security Solutions presents Godrej Slim Tripod Turnstile.

Designed for pedestrian entrance control, it opens only for those with authorised access. Its rotating arms allow one person through at a time.

Applications

- Corporate Offices
- IT Parks
- Large Business Facilities
- Airports

Features & Benefits

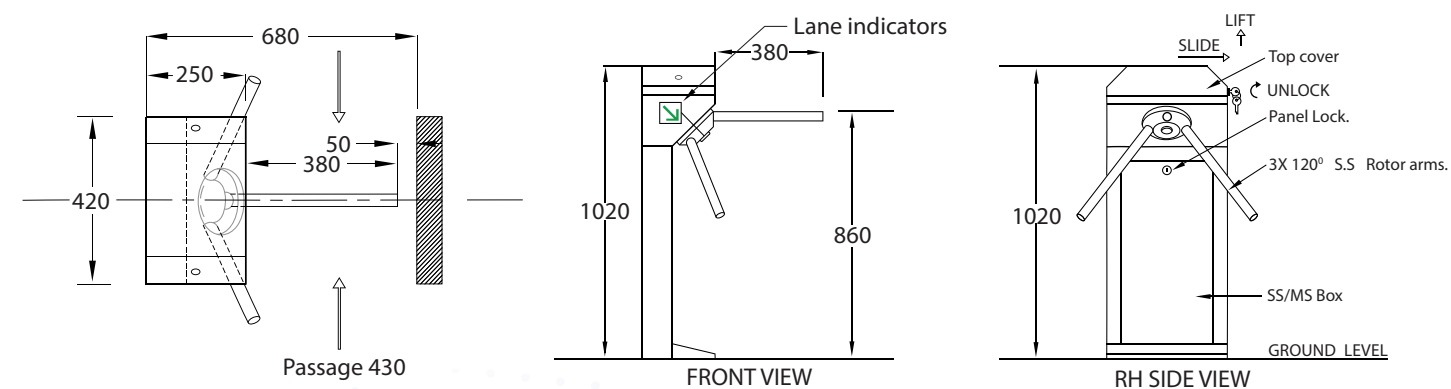
- Electro mechanical mechanism
- 3 x 120 degree rotating tripod arms
- Bi-directional operational control
- Self-centering mechanism with hydraulic damping
- Integrated with access control
- Case work available in mild steel powder coated or stainless steel 304, with stainless steel arms
- Lockable casing
- 380 mm or 500 mm walkway (standard is 380 mm)

Optional Features

- Automatic drop arm feature in case of emergency
- Sensor based auto swirl
- Case work - Stainless Steel-316

Specifications

Power Supply	230 VAC @ 50-60 Hz
Power Consumption (approx. watts)	40
Duty Cycle	Intensive use
Lane Indicator	Built-in (Green/Red)
Application	Indoor
Reader Mounting Place (approx. mm)	100 X 250
Dimension of Case Work (approx. mm)	420 X 250 X 1020
Walkway (mm)	380 or 500
Installation	By anchor bolts on plain surface



*All dimensions are in mm and approx.

Effortless Entry,
Secure Exit

Godrej



Slim Tripod Turnstile

ENTRANCE CONTROL SOLUTIONS

Godrej Slim Tripod Turnstile

Normally passage is to the left of the casework when individual units are used for entry or exit. The tripod can be arranged to open from a variety of local or remote input signal, such as coin mechanism, security control room, access control reader etc. Access Control reader/sensor can be mounted on the top of the cabinet on the slanting surface provided. The tripod arms are recessed into the cabinet ensuring that there is no obstruction to impede passage or sharp ends to catch clothing.

Features

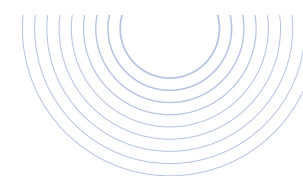
- Solenoid locking mechanism, Electro-Mechanical type
- 3 X 120 degree stop, Bi-directional operational Control
- Ratchet and Cam Mechanism to prevent reverse rotation of tripod arms after 30 degree to prevent multiple passes with one card
- Self centering mechanism with hydraulic damping
- Positive action lock to prevent two passage at one time
- Lane Indicator (Green arrow and Red cross) on top of the cabinet
- Integration: With all type of access control panel/Reader available in the market (Two relay output are required)
- Casework available in Stainless Steel with stainless steel arms (grade 304)
- Arm Length is 380 mm standard , Optional 500 mm (Actual Walkway is 380+50 mm or 500+50 mm)
- Arms becomes free in case of power failure (For Safety reason)
- Cabinet: Slim Type, Minimal space required.
- Bi-directional

Specifications

Power	230 VAC Single phase @50Hz
Current	0.5 A Typical
Power Consumption	Less than 30-W att
Duty Cycle & Protection	100, IP 44
Lane Indicator	Built-in (Gr een/Red)
Weight	30 KG approximate
Standard color	Siemens grey or as require d
Application	Indoor / Outdoor (under shed/Canopy
Temperature	5 to 55 degree C
Humidity	90% Non-condensing
SpecificationReader Mounting PlaceAvailable	250 X 120 mm
Dimension of Case work	425 X 254 X 1030 MM +/-5%
Walkway	380 mm or 500 mm
Material of case work	Stainless Steel 304 grade
Material of tripod arm	Stainless steel grade
Tripod Hub IndexMild	Steel powder coated
Internal components	Rust free alloy of high strengt h
Integration	Two PFC required (Entry and Exit)
Installation	By anchor Bolt on plain surface
Locking Mechanism	Solenoid , Electro-Mechanical type
Intelligence	Built-in logic contro l

Authorized
Entry Only

Godrej



Godrej

Classic C Type Turnstile

ENTRANCE CONTROL SOLUTIONS



Classic C Type Turnstile

Godrej Classic C Type Turnstile with drop-arm comes with an advanced technology for convenient operation during access. It's bi-directional operation permits a single turnstile to act for both entrance and exit. The barrier complies with fire safety requirements and allows free passage during power outage.

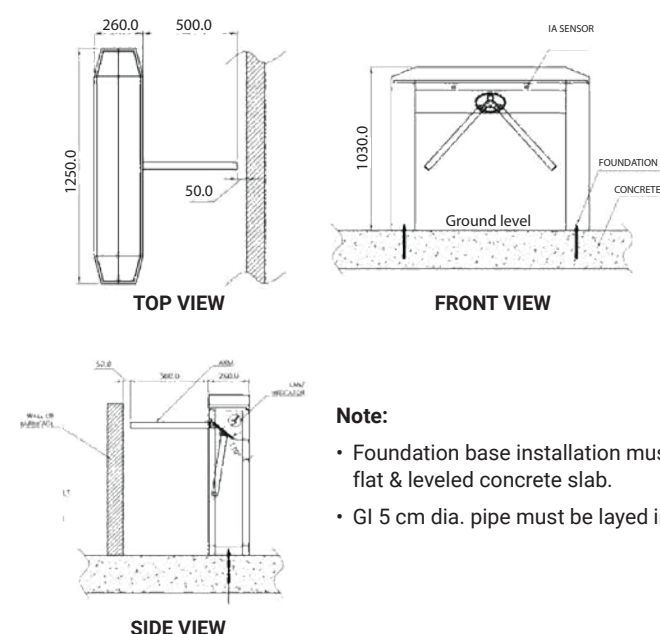
Applications

- IT Parks
- Railways
- Defence
- Airports
- Shopping Malls
- Temple
- Seaports
- Bank

Features

- Electromechanical / DC brush-less motor with controller
- Automatic drop-arm in case of power failure and auto reset
- Solenoid locking mechanism / Geared locking mechanism
- Manual push operation / IR sensor for handsfree operation
- High inner ability to integrate with all access controls & readers
- Body available in mild steel powder coated or stainless steel

General Layout for Elegant EM / Motorized Tripod



Specifications

	Electromechanical	Motorized
Mains Supply	180 - 270 VAC, 47 ~ 63Hz / 90 ~ 130V, 47 ~ 63Hz	180 - 270 VAC, 47 ~ 63Hz / 90 ~ 130V, 47 ~ 63Hz
Weight	60 Kg approx	70 Kg approx
Throughput	25 persons per minute	25 persons per minute
Drive	Electromechanical	BLDC Motor
Configuration	Drop arm in case of power failure	Drop arm in case of power failure & auto reset arm
Access Time Out	Adjustable 0 - 10 sec	Adjustable 0 - 10 sec
Temperature	-10° C to 55° C	-10° C to 55° C
Humidity	95% Non-condensing	95% Non-condensing
Dimension (L X D X H)	125 x 26 x 103 cm ±5%	125 x 26 x 103 cm ±5%
Passage Width	380mm / 500mm	380mm / 500mm
Body Type	Stainless steel 304 / 316* / M.S. powder coated	Stainless steel 304 / 316* / M.S. powder coated
Standard Color	RAL7035-PC, Black-structure PP	RAL7035-PC, Black-structure PP
IP Rating	IP54	IP54
Tripod Hub Index	Stainless Steel	Stainless Steel
Optional	Queue barricade/ Intergration with access control	Queue barricade/ Intergration with access control

Controlled Access Only



Full Height Turnstile

ENTRANCE CONTROL SOLUTIONS

Full Height Turnstile

Ensuring security and crowd management at the entrance in areas which need high security and have high pedestrian flow is a challenging task. To make this difficult task easier, Godrej Security Solutions presents Full Height Turnstile.

Designed for pedestrian entrance control at high security areas, its revolving doors help regulate pedestrian flow.

Available in dual and single lane models, its sturdy structure and design, make it a sure deterrent.

Dual Lane Model Numbers: GFHT-M2, GFHT-S2 | Single Lane Model Numbers: GFHT-M1, GFHT-S1

Applications

- Large Business Facilities
- Private & Government Assets
- Stadiums
- Research Labs

Features & Benefits

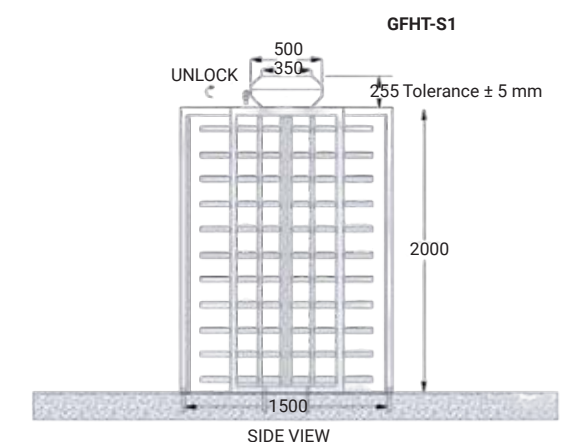
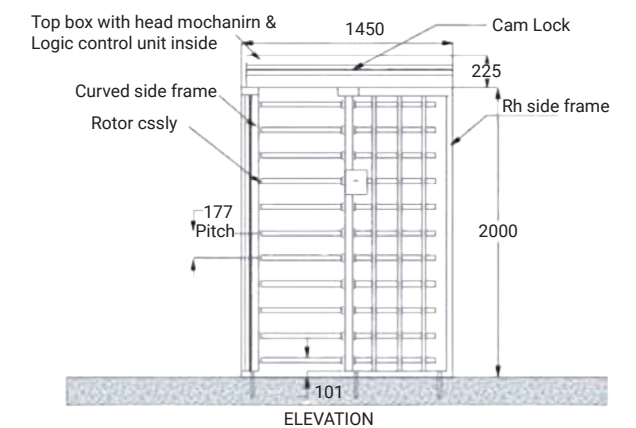
- Electromechanical drive mechanism
- 4 section rotor at 90° to prevent two people passing through at one time
- Bi-directional passage control
- Hexagonally designed drive mechanism housing, for better aesthetic, with built in lane indicators
- Power supply: 230V AC, 50Hz, single phase
- Energy efficient: Consumes power approx. 60W (single lane)
- Housing material: Mild steel powder coated, or stainless steel grade 304, with stainless steel rotor and bars
- Self centering hydraulic damping mechanism, for smooth and complete rotation of head
- Integration with access control

Optional Features

- Canopy can be provided for outdoor applications
- Housing material: Stainless Steel grade 316

Specifications

Type	Model (GFHT-S1, M1)	Model (GFHT-S2 M2)
Lane	Single lane	Dual lane
Height (approx. mm)	2225	2225
Length (approx. mm)	1450	2150
Width (approx. mm)	1500	1500
Passage clearance (approx. mm)	530	530
Power supply (VAC)	230 ± 10%	230 ± 10%
Rotor	4 x 90° stop	4 x 90° stop
Duty cycle	Intensive use	Intensive use



All dimensions are in mm & approx.



Swift, Secure
Access
Innovation!



Motorized P Type Swing Gate

ENTRANCE CONTROL SOLUTIONS

Godrej Motorized P Type Swing Gate

This simple access gate consists of a stainless-steel column with one glass / stainless steel structure door wing that can be operated by an access control system such as a card reader or biometric device or from a nearby reception or security desk.

Its design complements the Flap barrier and Tripod Turnstiles. It is therefore very suitable as disabled or trolley access in combination with a standard secured entry solutions.

Features

- Motorized bi-directional control and hands-free operation
- 900 mm Passage with stainless steel pipe structure
- Lane indicator on top of the slim cabinet
- 100% Duty cycle
- Power Consumption : 40 watt in operation
- Power : 230 VAC +/- 10% single phase at 50 Hz
- Cabinet : In stainless steel with metal top for better aesthetic look
- Adjustable speed and hold time
- Automatic opening in case of power failure or emergency
- Integration with any third-party access control system
- Throughout 10 person per minute with 3 sec hold time

Benefits

- Suitable as disabled or trolley access in combination with secured entry solutions
- Brushless Motor based drive with encoder and brake
- Slim design, requires only 1100 mm length
- Barrier element in Acrylic / Glass / Stainless steel

Typical Arrangement at Site



Cutting-edge Entrance Solutions



E-Gate

E-Gate

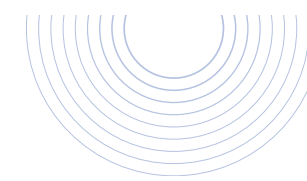
Introducing E-Gate, the cutting-edge entrance solutions designed specifically for airports. Streamlining the entry process with seamless efficiency, E-Gate revolutionizes airport operations. With its sleek design and intuitive interface, E-Gate simplifies the ticketing process, allowing passengers to swiftly pass through entrance checkpoints with ease. Gone are the days of long queues and cumbersome procedures. E-Gate – where innovation meets reliability, and every journey begins with convenience and Peace Of Mind.

Specifications

Item	Swing Lane Barrier Cabinet
Length	1680mm
Width	130 mm
Height	1000 mm
Material	SS-304
Thickness	1.5mm
	Flaps
Materials	Toughen Glass
Thickness	12mm
	Passage
Width	650mm/915mm
Direction	Single
Panel Control	Dry contact input
	Electrical Specification
External Power Supply Power Input	AC110~120/220V~240V 60HZ/50Hz, 1Ph Power Input
Motor Control Board	DC24V
Photo cell sensor	DC12V
A row of photo cell sensor	DC 12V(Optional)
Power Consumption	Min 120W(Standby 45W)
Mode Of Operation	Automatic/ Manual
LED indication	Available Green for Success, Alarm/failure- Red Ideal- Blue
Auto Close Time	Configurable
Passenger Passed Output	Yes
Obstacle/Safety detection	Yes
Baggage/Luggage Detection	Yes
Open Barriers During Fire Alarm	Yes
Communication Interface	RS 485, RS 232, Ethernet, I/O
Tailgating/Intrusion Output	Yes
Overstay alarm	Yes
Wrong Entry Alarm	Yes
Force Open alarm	Yes

Authorised
Access Only

Godrej



Godrej

Ticketing Tripod Turnstile

Ticketing Tripod Turnstile

Designed by experts, the Vigiguard Plus Ticketing Turnstile provides operational customisation for individual facilities like stadiums, exhibition centres, passenger terminals, auditoriums etc. that witness large crowds and require robust crowd management at the entrances. These turnstiles are equipped with Barcode (1D/2D) readers that validate tickets and prevents unauthorised access. Designed for pedestrian entrance control; it permits entry only to those with authorised access. Its rotating arm allows just one person through at a time and the new display can be used for messaging and advertisement.

Specification

Validation Reader Features:

- Advanced controller
- Internal 1 D/2D barcode scanner
- Color TFT display with touch screen
- Wired TCP/IP communication

Barcode Scanner:

A 1 D/2D barcode scanner is internally-mounted within the Reader. The scanner reads both printed and digital barcodes.

TFT Display with Touchscreen:

A 7" color display is housed in the protected by SS 304 enclosure. Advertisements can also be displayed. Graphics are easily changed using software.

Software:

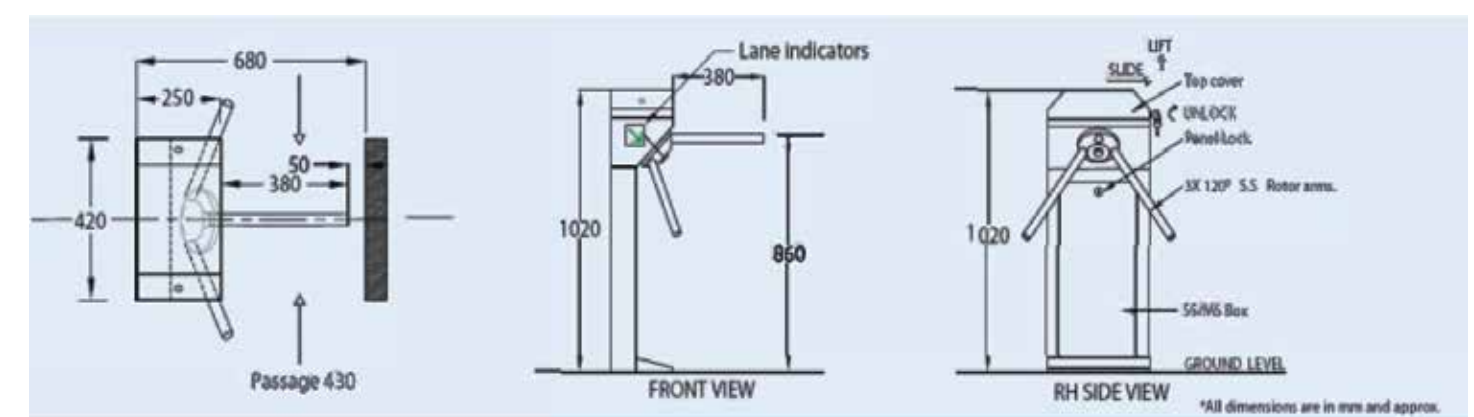
A complete entertainment access control application, suitable for use at stadiums, arenas and entertainment venues such as zoos and theme parks and has been used to validate Million Tickets.

Applications

- Airport
- Exhibition Center
- Metro
- Auditorium
- Stadium
- Theme Park

Tripod Turnstile Reader Features

- Tripod Turnstile
- Designed for Show & event application
- BLDC Motorised mechanism
- SS304 stainless steel
- Power supply 230V AC@50-60Hz
- 3x120 degree rotating tripod arms
- Bi-directional operational control
- Duty Cycle Intensive use
- Lane indicators for guidance
- Fail safe in case of power failure & emergency
- Drop arm feature with auto reset
- 3801500 mm walk way
- Throughput: 20-25 person per minute
- Integrated with bar code ticket validator
- MCBF: 10 million cycle
- Duty cycle : 100% intensive use



Prevent Unauthorized Access



Vigiguard Mantrap

Application

Improving Security Forces' Vision

Mantraps are most often used in physical security to separate non-secure areas from secure areas and prevent unauthorized access. A mantrap or access control Tubestile is a physical security access control system comprising a small space with two sets of interlocking doors, such that the first set of doors must close before the second set opens. Typical applications are datacenter , server room, pharma clear room

Technical Specification

Number of Lanes	One
Doors	Swing or Revolving (Motorized)
Mechanism	Hand operated or motorized
Number of Doors	Two (interlocked)
Design	Compact to occupy minimum floor space Suitable for one person BLOC Motor in case of motorized model In case of swing door, damping mechanism included for auto closing of the door
Operation	Bi-directional
Power Failure	Fail Safe OR Fail Locked (in Motorized)
Cabinet & Frame Material	Steel Powder coated (PC) OR Stainless Steel
Door Material	Steel Cladded frame with 5 mm polycarbonate inside Steel Cladded Frame with Laminated Or Toughened Glass
Dimension (mm)	L=1150, W=1150, Height = 2400 approximate
Foot Print (mm)	1150 X 1150 MM approximate
Sensors	IR Sensors to detect person inside the mantrap Load cells for Weight sensor Passage confirmation Safety sensor to detect person for reopening of door
Lane Indicator	Green Arrow and Red cross on both sides On both sides LED light inside the booth
Power Requirement	230 VAC +/-10%, 50 Hz, Internal 24 VDC
Power consumption	Less than 150 Watt
Integration	Mantrap can be integrated with any standard access control system like Facial Recognition System , Wave Tower , Finger Print etc. Potential Free contacts required for integration. Two input for RFID readers at door lever and one input for biometric inside the mantrap
Temperature & Humidity	Up to 55 Degree C 95% RH

Features



High Security Portal



Authentication for High Security



3rd party Access Control Reader



Brushless DC motor based drive

Applications



Private & Government Assets



Hospitals



Bus Park



Housing Complexes Societies



Railways and Metro Station



Assembly Lines



Marriage Halls



Malls



Hotels



Airports

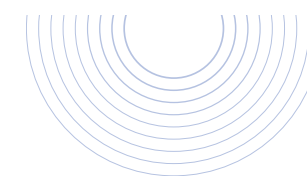
The Ultimate Access Control Solution



UBio X PRO Lite



Patented
Live & Fake Finger
Detection Technology



UBio X PRO Lite

UBio X PRO Lite is the latest Access Control Technology introduction in Viridi's wide products range portfolio. It has unique combination of Face + Live/Fake finger + Card + PIN + camera for face recognition. Its 5" touch LCD and User Interface like Android smartphone apps greatly enhance user convenience.

Key Features

- Enterprise Multi-Modal Device with 5" Touch Screen LCD: Face + Finger + Card + PWD
- Face Recognition technology with Dual camera
- High Ambient Light condition illumination up to 30,000 lux
- Real time PUSH technology
- Patented LIVE & FAKE Finger Detection Technology
- Various Authentication types of Face, Card, Password & Finger Combination – User wise & Device wise
- Multi-Location Sites on Single Platform with various connectivity outputs supported
- 20,000 Images logs available for Authorized/Unauthorized Users
- Attendance Software: Client – Server; Web-based & Cloud based available

Technical Specifications

Sensor Specs

- Type: Optical
- Resolution (dpi): 500
- 1:1 Verification: < 1 sec
- 1:1,00,000 FP <= 1 sec.
- Identification Time: < 1 sec
- Template Size: 400 bytes
- Equal Error Rate: < 0.01%
- FAR: 0.0001%
- FRR: 0.1%
- Image Size (pixels): => 400 * 400
- Sensing area (mm): 15.5mm X 19mm





System Features

- Memory: 2GB RAM + 16GB Flash
- Event buffers: 10,000,000 (10 million)
- Face Capacity: 100,000 Faces (1:1) & 7000 (1:N)
- Fingerprint Capacity: 500,000 (1:1) & 100,000 (1:N)
- Image logs: 20,000
- Cards / Readers Compatible: Default Mifare / EM Reader; HID iClass & Prox (Optional)
- Card read range: Upto 7cm
- Authentication Type combinations: Can be configured Userwise from Face or Finger or Card or PIN to Face + Finger + Card + PIN. Max combination of 3 Auth modes. (Face, FP, Card, PW, Face & Finger, Face or finger, Face & PW, FP & PW, Card & FP, Card or PW, Card & PW, Card & FP & PW, Face & Card, Face & FP & Card.
- Facility Code: Available
- Device OS: Android 6.0
- Template Mgmt: Fingerprint & Face Template Mgmt from Software and USB (SD Card)
- Template on Smart card: Yes (on Mifare)
- Ethernet : 100 bps (Default) /10 mbps
- Custom logo can be uploaded in device
- AC7000 & UBIO X Prolite series Face Templates are compatible with each other
- AC7000 & UBio X Pro Lite series Face Templates are not compatible with UBio X Pro and UBio X Pro II Series

Access Control Features:

- Create up to 9999 Time Zones with up to 12 transaction bands per day
- Inputs: 4 configurable monitoring inputs (Door Monitor, Fire, Emergency, Panic)
- Outputs: 2 o/p
- Expiry Date; Blacklisting; Deny List; Duress User available
- Dual / Multi-Finger Authentication available
- Global Anti-pass back: Available. Soft & Hard Anti Pass back
- Fire, Emergency, Panic etc. integration is available
- External Lamp connectivity available

Security Features

- Email sending facility through application in case of critical events like matching fail, tamper, door forced/not closed, blacklisted user attempt etc.
- Integrated with real time alarm display on server
- Configurable Card, FP, Face & Pin verification for logging in to the device for extra security
- Can open all doors from network in case of fire or emergency
- 0-9 security levels to adjust FRR and FAR as per the environment and customer needs
- Device security enhanced by adding user as admin in device
- Face technology – fake face free technology
- Device security enhanced by adding user as admin in device

Hardware Features

- Dual Camera with IR cut off
- Buzzer: Multi tone Buzzer o/p
- LCD Display: 5" TFT Colour Touch screen with Android platform
- Touch Keypad: 0-9 key numeric, Four Function keys and Enter key
- In built dual smart card reader

Dimensions

- 149.7mm (L) X 208mm (H) X 89.7mm (D)

Communications

- TCP/IP, WIFI (Optional), Wiegand IN/OUT, RS485, RS232, USB(SD card)

Power Specs

- Current & Voltage Req:
- UL Listed 15V 4A

Material

- ABS Plastic with Glass on Front

Mounting

- Wall Mounting

Outside (IP) Enclosure

- Available on request as per specs
- Call for Information

Certifications

- CE/FCC/KC/BIS

Operating Temperature

- -20° C to 60° C

Warranty

- Product: 1 yr for any manufacturing defects / workmanship
- Sensor: 10 Year for any Manufacturing defects (Failure of sensor due to ESD /physical damage will not be covered under warranty)

Accessories: (Optional)

- Standard or Battery Back-up Power Supply
- Time Attendance Software
- Card: EM; Mifare® (1K,4K); HID I Class; HID Prox (Optional).
- Strike Lock / Electromagnetic Lock, Auto door
- Egress Switch
- 12V/7 AH Battery

Applications

- Time Attendance System
- Physical Access Control

Areas

- Call Centers / BPO
- Banking & Finance
- Hotels and Residential
- Corporate & IT/ITES
- Retail, Malls & Multiplexes
- Hospitals & Clinics
- Clubs & Gymnasium
- Schools & Colleges
- Transport & Logistics
- Telecommunications
- R&D Centres and Labs
- Manufacturing Units & Factories,
- Government; PSU & Defense



Revolutionizing Access Control with Walk-Through Face Recognition Technology



UBio X PRO 2



Patented
Live & Fake Finger
Detection Technology

UBio X PRO 2

UBio-XPRO-2 is a new addition in Viridi's FACE Reader series with Latest Walk-Through Face Algorithm to enhance user experience. It recognizes faces at a distance up to 3 meters, authenticates when user walk-through the gate. It is a Multimodal device with unique combination of Face + Live/Fake finger + Card + PIN + camera for face recognition. It has features like Liveness detection & Anti-Spoofing, AI enabled No Mask detection.

Key Features

- Mask Detection
- Walk Through and Multi Face Authentication
- Face Recognition from distance upto 3 mtrs
- Enterprise Multi-Modal Device with 5" Touch Screen LCD: Face + Finger + Card + PWD
- Face Recognition technology with 2MP Dual camera
- High Ambient Light condition illumination up to 25,000 lux
- Real time PUSH technology
- Patented LIVE & FAKE Finger Detection Technology
- Various Authentication types of Face, Card, Password & Finger Combination - User wise & Device wise.
- Multi-Location Sites on Single Platform with various connectivity outputs supported
- 20,000 Images logs available for Authorized / Unauthorized Users
- Attendance Software: Client – Server; Web-based & Cloud based available

Technical Specifications

Sensor Specs

- Type: Optical
- Resolution (dpi): 500
- 1:1 Verification: < 1 sec
- 1:1,00,000 FP < 1 sec
- Identification Time: < 1 sec
- Template Size: 400 bytes
- Equal Error Rate: < 0.01%
- FAR: 0.0001%
- FRR: 0.1%
- Image Size (pixels): => 400 * 400
- Sensing area (mm): 15.5mm X 19mm





System Features

- CPU: 1GHz Quad Core Processor(Coretex –A9)+ 900MHz Dual Core(Coretex-A7)
- Memory: 2GB RAM + 16GB Flash
- Event buffers: 1,00,00,000 (10 million)
- Fingerprint Capacity(1:1) 5,00,000 & (1:N) 1,00,000; Users Capacity: 5,00,000
- Face Capacity(1:N): 20,000 & 20,000(1:1);
- Image logs: 20,000
- Cards / Readers Compatible: Default Mifare / EM; Desfire; HID iClass & Prox (Optional)
- Card read range: 8 to 10 cm.
- Authentication type combinations: Face, FP, PW, Face & Finger, Face or finger, FP & PW, card, Card | FP, Card & FP, Card or PW, Card & PW, Card & FP & PW etc.
- Device OS: Android 6.0
- Sensor Mode: 1:1 / 1:N (configurable)
- Templates Mgmt from Software: Available
- Ubio-Xpro2 Face Templates are not compatible with AC7000, Ubio-XPro &UBIO- XProLite.
- Ethernet : 100 bps (Default) /10 mbps
- Mobile image registration through software for Face recognition: Available

Access Control Features

- Create up to 9999 Time Zones with up to 12 transaction bands per day)
- Inputs: 3 monitoring input (Configurable) & 1 Exit
- Outputs: 2 o/p
- Expiry Date; Blacklisting; Deny List; Duress User available.
- Dual / Multi-Finger Authentication available.
- Global Anti-pass back: Available
- Fire, Emergency, Panic etc. integration is available
- External Lamp/Siren connectivity available.

Security Features

- Email sending facility through application in case of critical events like matching fail, tamper, door forced/not closed, blacklisted user attempt etc.
- Integrated with real time alarm display on server
- Configurable card or fingerprint verification for logging in to the device for extra security
- Can open all doors from network in case of fire or emergency
- 0-9 security levels to adjust FRR and FAR as per the environment and customer needs
- Device security enhanced by adding user as admin in device
- Face technology – fake face free technology
- Device security enhanced by adding user as admin in device

Hardware Features

- Dual Camera with IR cut off
- Buzzer: Multi tone Buzzer o/p.
- LCD Display: 5” TFT Colour Touch screen with Android platform
- Touch Keypad: 0-9 key numeric, Four Function keys and Enter key.
- Output: TCP/IP. Wi-Fi (Optional)
- In built dual smart card reader



Dimensions

- 149.7mm (L) X 208mm (H) X 56.4mm (D)

Communications

- TCP/IP; Wi-Fi (Optional), USB(SD Card), RS485(For Controller), RS232, Wiegand IN/OUT.

Power Specs

- Current & Voltage Req:
- UL Listed 15V 4A

Material

- ABS Plastic with Glass on Front

Mounting

- Wall Mounting

Outside (IP) Enclosure

- Available on request as per specs
- Call for Information

Certifications

- CE/ FCC/KC/BIS

Operating Temperature

- -20 to 60C
- Humidity < 90%



Warranty

- Product: 1 year for any manufacturing defects / workmanship.
- Sensor: 10 Year for any Manufacturing defects (Failure of sensor due to ESD /physical damage will not be covered under warranty)

Accessories : (Optional)

- Standard or Battery Back-up Power Supply
- Time Attendance Software
- Card: EM; Mifare® (1K,4K); HID I Class; HID Prox (Optional).
- Strike Lock / Electromagnetic Lock, Auto door.
- Egress Switch
- 12V/7 AH Battery

Applications

- Time Attendance System
- Physical Access Control

Areas

- Call Centers / BPO
- Banking & Finance
- Hotels and Residential
- Corporate & IT/ITES
- Retail, Malls & Multiplexes
- Hospitals & Clinics
- Clubs & Gymnasium
- Schools & Colleges
- Transport & Logistics
- Telecommunications
- R&D Centers and Labs
- Manufacturing Units & Factories,
- Government; PSU & Defens



Step into Seamless Security



UBio X Face



Patented
Live & Fake Finger
Detection Technology

Godrej

UBio-X Face

UBio X FACE is a new addition in Viridi's FACE Reader series with Latest Walk-Through Face Algorithm to enhance user experience. It recognizes faces at a distance up to 3 meters, authenticates when user walk-through the gate. This device is with the combination of Face, Card & PIN and supports a Deep Learning algorithm & Multi Face Authentication. It has features like Liveness detection & Anti-Spoofing, AI enabled No Mask detection.

Key Features

- Walk Through and Multi Face Authentication
- Face Recognition from distance upto 3 mtrs
- Mask Detection
- User can Enrol with photo taken from smartphone
- IP65 suitable for Outdoor environment
- Supports POE (optional)
- 5" Touch Screen LCD
- Face Recognition technology with 2MP Dual camera
- High Ambient Light condition illumination up to 25,000 lux
- Real time PUSH technology
- Live FACE Detection & Recognition Technology
- Various Authentication types of Face only, Card only, PIN only, Face|Card|PIN, Face & Card & PIN, Combination of any two also – User wise & Device wise
- Multi-Location Sites on Single Platform with various connectivity outputs supported
- 20,000 Images logs available for Authorized/Unauthorized Users
- Attendance Software: Client – Server; Web-based & Cloud based available

Technical Specifications

System Features:

- CPU: Cortex-A9 Quad Core 1.4 GHz
- Memory: 2GB RAM + 16GB Flash
- Event buffers: 1,00,00,000 (10 million)
- Face Capacity(1:N): 20,000 & 20,000(1:1)
- Card/ PIN (User) Capacity : 5,00,000
- Image logs: 20,000
- Cards / Readers Compatible: Default Mifare / EM Reader; Desfire; HID iClass & Prox (Optional)
- Card read range: 8 to 10 cm
- Device OS: Android 7.12
- Authentication Mode: 1:1 / 1:N (configurable)
- FRR/FAR - 0.1% / 0.0001%
- Templates Mgmt from Software: Available
- Ubio-X Face Templates are not compatible with AC7000, Ubio-XPro & UBIO- XProLite
- Ethernet: 100 bps (Default) /10 mbps
- Mobile image registration through software for Face recognition: Available
- Thermopile Sensor integration for temperature scanning: Available



Access Control Features

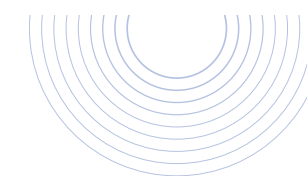
- Create up to 9999 Time Zones with up to 12 transaction bands per day
- Inputs: 3 monitoring input (Configurable) & 1 Exit
- Outputs: 2 o/p
- Expiry Date; Blacklisting; Deny List; available
- Global Anti-pass back: Available
- Fire, Emergency, Panic etc. integration is available
- External Lamp/Siren connectivity available

Security Features

- Email sending facility through application in case of critical events like matching fail, tamper, door forced/not closed, blacklisted user attempt etc.
- Integrated with real time alarm display on server
- Configurable card/Face/PIN or verification for logging in to the device for extra security
- Can open all doors from network in case of fire or emergency
- 0-9 security levels to adjust FRR and FAR as per the environment and customer needs
- Device security enhanced by adding user as admin in device
- Face technology - fake face free technology

Hardware Features

- Dual Camera with IR cut off
- Buzzer: Multi tone Buzzer o/p
- Visual LED Indication : RED/BLUE
- Flash Light for 0 illumination
- LCD Display: 5" TFT Colour Touch screen with Android platform
- Soft Touch Keypad: 0-9 key numeric, Four Function keys and Enter key



Dimensions

- 96mm (L) X 211mm (H) X 35.3mm (D)

Communications

- TCP/IP; USB, RS485(for Controller), RS232, Wiegand IN/OUT

Power Specs

- Current & Voltage Req:
- UL Listed 15V 4A

Material

- ABS Plastic with Glass on Front

Mounting

- Wall Mounting

Outside (IP) Enclosure

- Available on request as per specs
- Call for Information

Certifications

- CE/ FCC/KC/BIS

Operating Temperature

- -20° C to 60° C
- Humidity < 90%

Warranty

- Product: 1 yr for any manufacturing defects / workmanship

Accessories : (Optional)

- Standard or Battery Back-up Power Supply
- Time Attendance Software
- Card: EM; Mifare® (1K,4K); HID I Class; HID Prox.
- Strike Lock / Electromagnetic Lock
- Egress Switch
- 12V/7 AH Battery



Applications

- Time Attendance System
- Physical Access Control

Areas

- Call Centers / BPO
- Banking & Finance
- Hotels & Residential
- Corporate & IT/ITES
- Retail, Malls & Multiplexes
- Hospitals & Clinics
- Clubs & Gymnasium
- Schools & Colleges
- Transport & Logistics
- Telecommunications
- R&D Centers and Labs
- Manufacturing Units & Factories,
- Government; PSU & Defens

Experience Seamless Face detection and Authentication



UBio-X Face Premium



Patented
Live & Fake Finger
Detection Technology

UBio-X Face Premium

UBio-XFace Premium is powered by the latest Face recognition Algorithms and provides you with Walk Through function. When Users walk through the gates, Face detection and Authentication is done at a distance up to 4 Meters. It has unique combination of Face + Card + PIN + Mobile Key + (Live/Fake finger & QR Code Reader Optional) + camera for face recognition. It provides slim and compact size with 8" LCD screen and walk through with Multi Face Recognition.

Key Features

- Enterprise Multi-Modal Device with 8" Touch Screen LCD: Face + Card + PIN + Mobile Key and (Fingerprint and QR Code reader Optional)
- Face Recognition technology with 2MP Dual camera
- High Ambient Light condition illumination up to 25,000 lux
- Real time Auto PUSH technology
- Patented LIVE & FAKE Finger Detection Technology
- Various Authentication types of Face, Card, PIN, Mobile Key, Fingerprint, QR Code and Combination of any 3 mode - User wise & Device wise.
- Multi-Location Sites on Single Platform with various connectivity outputs supported
- 20,000 Images logs available for Authorized / Unauthorized Users
- Attendance Software: Client – Server; Web-based & Cloud based available.

Technical Specifications

Sensor Specs (Optional):

- Type: Optical
- Resolution (dpi): 500
- 1:1 Verification: < 1 sec
- 1:50,000 FP < 1 sec
- Identification Time: < 1 sec
- Template Size: 400 bytes
- FAR: 0.000001%%
- FRR: 0.1%
- TAR: 99.9%
- Image Size (pixels): => 256*292.
- Sensing area (mm): 15.5mm X 19mm
- Certification: Virdi , ISO 1974-2, ANSI-378

QR Code Sensor Specs (Optional)

- Image Sensor: 640X480
- Symbolologies: 1D/2D
- FOV (H x V): 42° x 31.5°





System Features

- Memory: 4GB RAM + 16GB Flash
- CPU: Cortex A53 Quad Core 1.8 GHz
- Event buffers: 10,000,000 (10 million) Image logs: 20,000.
- Fingerprint Capacity(1:1) 5,00,000 & (1:N) 50,000; Users Capacity: 5,00,000
- 30,000 (50,000 Optional) Face in (1:N) Optional) & 1,00,000 Face in (1:1)
- Cards / Readers Compatible: Default Mifare / EM Reader/Desfire(CSN); HID iClass & Prox (Optional)
- Card read range: Up to 50 cm.
- Authentication type combinations: Face, FP, CARD, PIN, Mobile Key, QR Code and combination of any 3 with User wise and device wise.
- Face Recognition Distance: 0.5M up to 4M
- Face Matching Speed: <1 sec.
- FAR/FRR/TAR: 0.0001% / 0.1% / 97.99%
- Device OS: Android 11.0
- Sensor Mode: 1:1 / 1:N (configurable)
- Bluetooth & NFC: Supported.
- Templates Mgmt from Software: Available
- Template on Smart card (TOC): Available.
- Ubio-XFace Premium Face Templates are not compatible with AC7000, Ubio-XPro, UBIO- XProLite, UBio-XPro2 & UBio-XFace .
- Ethernet : 100 bps (Default) /10 mbps
- Mobile image registration for Face recognition: Available.
- Thermal camera integration for temperature scanning: Available.

Access Control Features

- Create up to 9999 Time Zones with up to 12 transaction bands per day)
- Inputs: 3 monitoring input & 1 Exit(Configurable).
- Outputs: 2 o/p
- Expiry Date; Blacklisting; Deny List; Duress User available.
- Dual / Multi-Finger Authentication available.
- Global Anti-pass back: Available. Soft & Hard Anti Pass back.
- Fire, Emergency, Panic etc. integration is available
- External Lamp/Siren connectivity available.

Security Features

- Email sending facility through application in case of critical events like matching fail, tamper, door forced/not closed, blacklisted user attempt etc.
- Integrated with real time alarm display on server
- Configurable Any authentication Mode verification for logging in to the device for extra security
- Can open all doors from network in case of fire or emergency.
- 0-9 security levels to adjust FRR and FAR as per the environment and customer needs.
- Device security enhanced by adding user as admin in device.
- Face technology – fake face free technology
- Device security enhanced by adding user as admin in device.



Hardware Features

- Dual Camera with IR cut off.
- Speaker: Audio Codec 1W.
- Buzzer: Multi tone Buzzer o/p.
- LCD Display: 8" TFT IPS LCD & Resolution is 800*1280.
- Touch Keypad: 0-9 key numeric, Four Function keys and Enter key.
- In built dual Mifare & Proximity card reader
- Weight: 980gm and 1280Gm with FP sensor (Optional).
- IP Rating: IP55 (optional IP65).

Accessories: (Optional)

- Standard or Battery Back-up Power Supply
- Time Attendance Software
- Card: EM; Mifare® (1K,4K); HID I Class; HID Prox(Optional).
- Strike Lock / Electromagnetic Lock , Auto door
- Egress Switch
- 12V/7 AH Battery

Applications

- Time Attendance System
- Physical Access Control

Areas

- Call Centers/BPO
- Banking & Finance
- Hotels and Residential
- Corporate & IT/ITES
- Retail, Malls & Multiplexes
- Hospitals & Clinics
- Clubs & Gymnasium
- Schools & Colleges
- Transport & Logistics
- Telecommunications
- R&D Centres and Labs
- Manufacturing Units & Factories
- Government; PSU & Defense



Dimensions

- (W x H x D): 143.3 X 289.5 X 23.8 mm

Communications

- NFC & Bluetooth
(For Mobile Key Authentication)
- TCP/IP
- USB2. & USB3.0
- RS485 (For VIRDI BLC015)
- RS232(For Thermal Printer)
- Wiegand

Power Specs

- Current & Voltage Req:
- UL Listed DC 15V~24V and 4A

Material

- ABS Plastic with Glass on Front

Mounting

- Wall Mounting

Outside (IP) Enclosure

- Available on request as per specs
- Call for Information

Certifications

- CE/ FCC/KC/BIS/RoHs/WPC

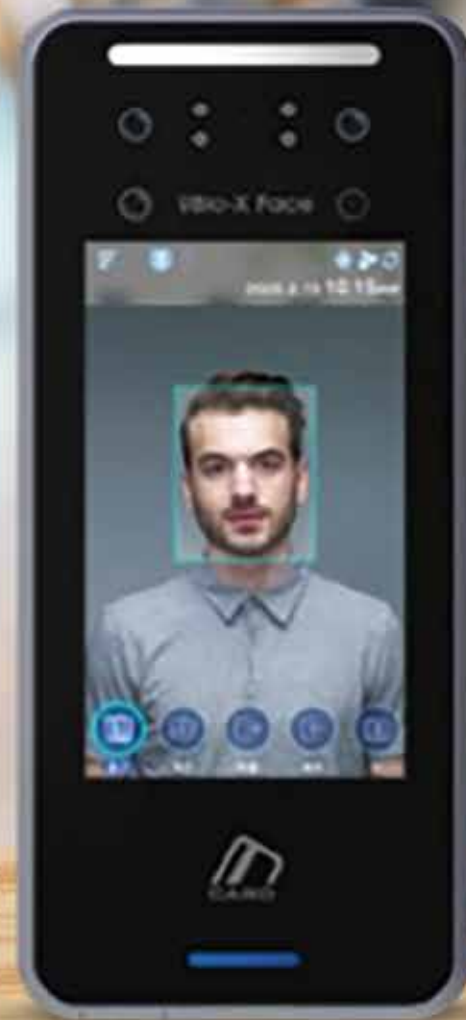
Operating Temperature

- -20° C to 60° C
- Humidity 0% ~ 90% non-condensing

Warranty

- Product: 1 yr for any manufacturing defects / workmanship
- Sensor: 10 Year for any Manufacturing defects (Failure of sensor due to ESD /physical damage will not be covered under warranty)

Enhanced Security, Enhanced Convenience



UBio-X Face Pro



Patented
Live & Fake Finger
Detection Technology

Godrej

UBio-X Face Pro

UBio-XFace Pro is powered by the latest Face recognition Algorithms and provides you with Walk Through function. When Users walk through the gates, Face detection and Authentication is done at a distance up to 2 Meters. It has unique combination of Face + Card + PIN + Mobile Key + (QR Code & Finger Reader Optional) + camera for face recognition.

It provides slim and compact size with 5" LCD screen and walk through with Multi Face Recognition.

Key Features

- Enterprise Multi-Modal Device with 5" Touch Screen LCD: Face + Card + PIN + Mobile Key and (QR Code & Fingerprint reader Optional)
- Face Recognition technology with 2MP Dual camera
- High Ambient Light condition illumination up to 25,000 lux
- Real time Auto PUSH technology
- Patented LIVE & FAKE Finger Detection Technology
- Various Authentication types of Face, Card, PIN, Mobile Key, Fingerprint, QR Code and Combination of any 3 mode – User wise & Device wise.
- Multi-Location Sites on Single Platform with various connectivity outputs supported
- Hardware and core software is of same OEM.
- Attendance Software: Client – Server; Web-based & Cloud based available.

Technical Specifications

Sensor Specs (Optional):

- Type: Optical
- Resolution (dpi): 500
- 1:1 Verification: < 1 sec
- 1:50,000 FP < 1 sec
- Identification Time: < 1 sec
- Template Size: 400 bytes
- FAR: 0.000001%
- FRR: 0.1%
- Sensing area (mm): 92 x 200 x 22.1

QR Code Sensor Specs (Optional)

- Symbolologies: 1D/2D
- FOV (H x V): 42 X 31.5





System Features

- Memory: 4GB RAM + 16GB Flash
- CPU: Cortex A53 Quad Core 1.8 GHz
- NPU: 0 (2.3 TOPS)
- Event buffers: 10,000,000 (10 million) Image logs: 20,000.
- Fingerprint Capacity(1:1) 5,00,000 & (1:N) 50,000;
- 30,000 Face in (1:N) & (1:1)
- Cards / Readers Compatible: Default Mifare / EM Reader/DESFIRE EV1 / EV2 / EV3; HID iClass & Prox (Optional)
- Card read range: Up to 50 mm.
- Authentication type combinations: Face, FP, CARD, PIN, Mobile Key, QR Code (Optional) and combination of any 3 with User wise and device wise.
- Face Recognition Distance: 0.5M up to 2M
- Face Matching Speed: <1 sec.
- FAR/FRR: 0.0001% / 0.1%
- Device OS: Android 11.0
- combination of NIR & RGB camera each of 2 MP
- Bluetooth & NFC: Supported.
- Templates Mgmt from Software: Available
- Fingerprint Template on Smart card (TOC): Available.
- Ethernet : 100 bps (Default) /10 mbps
- Mobile image registration for Face recognition: Available.
- Thermal camera integration for temperature scanning: Available.

Access Control Features

- Create up to 9999 Time Zones with up to 12 transaction bands per day)
- Inputs: 3 monitoring input & 1 Exit.
- Outputs: 2 o/p
- Expiry Date; Blacklisting; Deny List; Duress User available.
- Dual / Multi-Finger Authentication available.
- Global Anti-pass back: Available. Soft & Hard Anti Pass back.
- Fire, Emergency, Panic etc. integration is available
- External Lamp/Siren connectivity available.

Security Features

- Integrated with real time alarm display on server
- Configurable any authentication Mode verification for logging in to the device for extra security
- Can open all doors from network in case of fire or emergency.
- 0-9 security levels to adjust FRR and FAR as per the environment and customer needs.
- Device security enhanced by adding user as admin in device.
- Anti-spoofing: Available
- Face technology – fake face free technology
- 128 bit AES Encryption with SSL and TLS protocols 1.2
- Controller to Face: OSDP/ OSDP Secure/ Weigand In & Out.

Hardware Features

- Dual Camera with IR cut off.
- Speaker: Audio Codec 1W.
- Buzzer: Multi tone Buzzer o/p.
- LCD Display: 5" TFT IPS LCD & Resolution is 800*1280.
- Touch Keypad: 0-9 key numeric, Four Function keys and Enter key.
- In built dual Mifare & Proximity card reader
- IP Rating: IP65 & Impact Protection : IK06.

Accessories: (Optional)

- Standard or Battery Back-up Power Supply
- Time Attendance Software
- Card: EM; Mifare® (1K,4K); HID I Class; HID Prox(Optional).
- Strike Lock / Electromagnetic Lock , Auto door
- Egress Switch
- 12V/7 AH Battery

Applications

- Time Attendance System
- Physical Access Control

Areas

- Call Centers/BPO
- Banking & Finance
- Hotels and Residential
- Corporate & IT/ITES
- Retail, Malls & Multiplexes
- Hospitals & Clinics
- Clubs & Gymnasium
- Schools & Colleges
- Transport & Logistics
- Telecommunications
- R&D Centres and Labs
- Manufacturing Units & Factories
- Government; PSU & Defense

Dimensions

- (W x H x D): 92 X 200 X 22.1 mm

Communications

- NFC & Bluetooth
(For Mobile Key Authentication)
- TCP/IP
- USB
- Wi-fi
- RS485
- Wiegand
- Protocols supported : TCP/IP, UDP,IPV4,HTTP,DNS,DHCP SSL, TLS 1.2

Power Specs

- Current & Voltage Req:
- UL Listed DC 15V~24V and 4A

Material

- ABS Plastic with Glass on Front

Mounting

- Wall Mounting

Outside (IP) Enclosure

- Available on request as per specs
- Call for Information

Certifications

- CE/FCC/KC/BIS/RoHs/WPC

Operating Temperature

- -20° C to 60° C
- Humidity 0% ~ 90% non-condensing

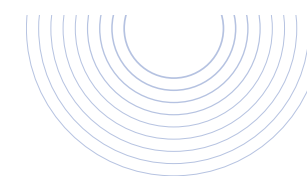
Warranty

- Product: 1 yr for any manufacturing defects / workmanship
- Sensor: 10 Year for any Manufacturing defects (Failure of sensor due to ESD /physical damage will not be covered under warranty)

Key to Your Security



Key Management System



Key Management System

The master key to handle all your keys. It is one-of-a-kind simple yet efficient security system to keep all your keys safe. Along with securing your keys, it prevents unauthorised access and guards all keys against theft or misplacement.

How does the Key Management System work?

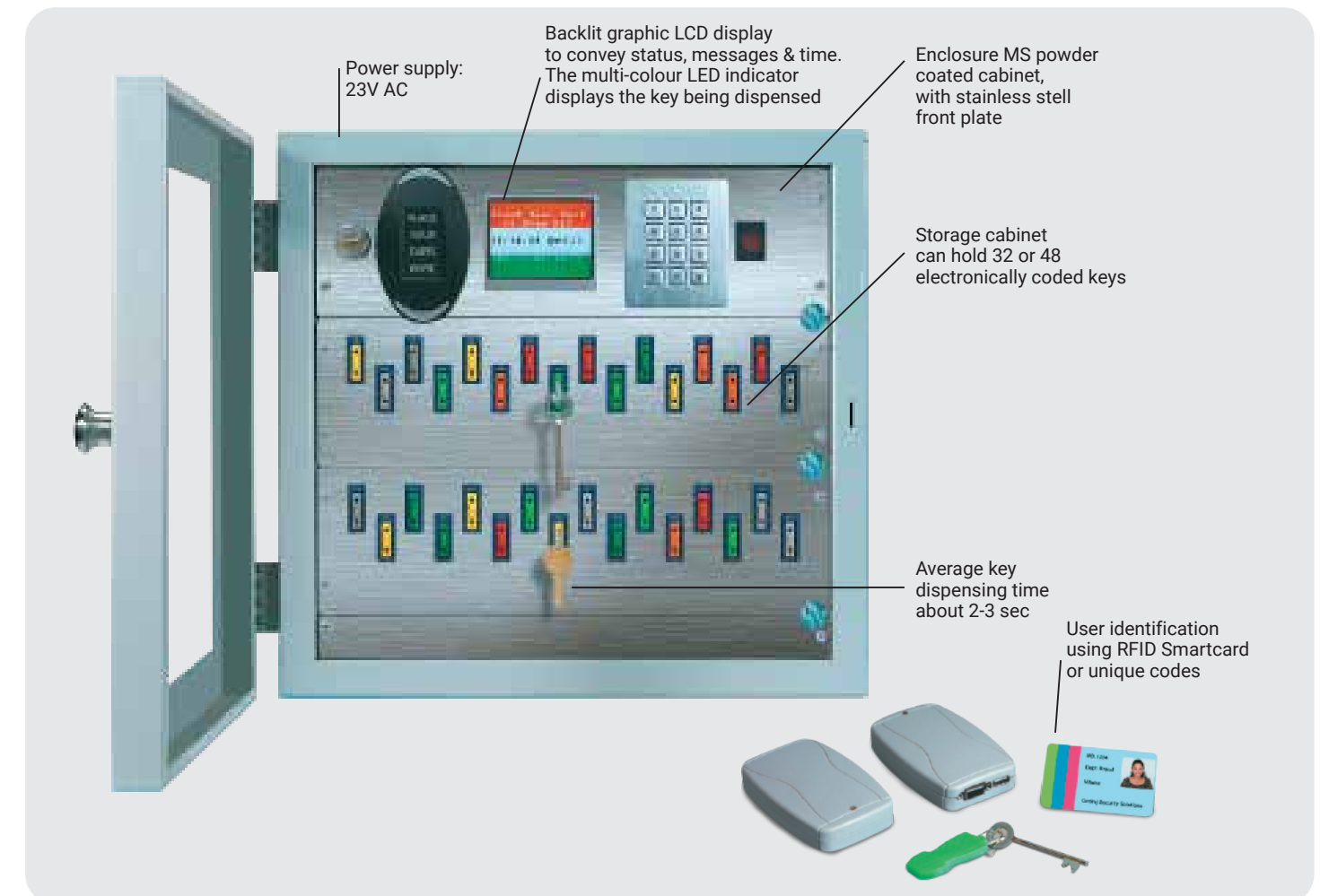
Authorised Access Only

Each key is attached to a smart-key (or Ket Fob) which is individually identified and locked, allowing only authorised access. This is done using an RFID card or unique PIN codes or a combination of both.

The LCD display meticulously traces every activity of the Key Management System and the electronic controllers grant authorised access only. After each key transaction a record log is maintained using time stamp.

Applications

- Hospitals
- Banks
- Government Offices
- Corporate Offices
- Malls
- Parking Areas
- Shops



- Operating temperature: 0-55° C • Dimension approx.: 407 x 538 x 130 mm (W X H x D)
- Wall-mountable and table-top key cabinet options available

Features

Computerised Key Control

Grants authorised access. Configures user rights and RFID cards as per the program.

Key Fitted to a Smart Key Fob

Individually locks and identifies the keys using the built-in chip.

Tagging Free

No tagging required on key cabinet and any key can be placed in any slot, making it hassle free for the users.

RFID Access for Better Security

Front door opens to provide access to the panel only on scanning the RFID card for additional security, to avoid key tampering or duplication.

Internal Battery Backup*

Enables uninterrupted operation in the instance of power failure.

Software

User-friendly interface. Comprehensive monitoring of multiple key guards.

Generate Transaction Reports

Formulates access history of each key and user. Generates detailed reports and logs up to 25000 transactions.

Tamper Alarm

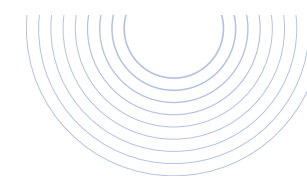
Alerts in case of tampering or intrusion by an unauthorised user.

Automatic Lock

It automatically locks all key access in case of battery or power failure.



*For a limited period of approx. 10 min.



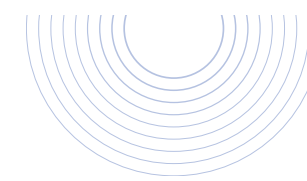
7" Touchscreen Key Management System



Features and Specifications

Local User Interface	7" Touch Screen, graphical UI
Dimensions ~110keys	407x910x120 + 230x230x70
Key Dispensing	Option selection + search* by Name
Key Identification	Audio Prompt, MIMIC Display slot ID & Blinking LED at each key
Keys Assignment	1000+ keys & 100 groups 20 groups/user
Key Authentication	Flexible Single or Dual for each key
Time Restrictions	Multiple, Flexible time zones for keys, users
Local Transaction Buffer	100000 (at console)
Keys & Users	1000, 5000 each
User/Key Configuration	Any External computer with browser for embedded server
Reports	Limited available OnScreen + Any External browser
Config + Transaction Database	Internal embedded server
LAN Interface	For remote administration
Power	12V with 2Hr backup
Snapshot Facility	Built-in camera





Access, Attendance and Leave Management Software

Features

System Architecture

- 3-Tier architecture, with MS-SQL as a database.
- Web-based application and supporting all major web browsers.
- Modular and scalable having centralized architecture.
- Capable of handling large corporations with multiple remote sites.
- Employee transfer module
- Supports Mirroring and clustering.
- Role based User management (Admin/User)

Masters Data Creation and Configuration

- Multiple Company, Locations, Department, Designations, Categories, Shifts
- Automatic Shift Detection
- Bulk upload/import of employee/users data
- Hierarchy management
- Automatic data capture and process

Reports

- Dashboard of Live and Daily Headcount
- Master Data and Attendance Reports in statutory and specific formats
- Multiple MIS reports like Daily, Monthly, Yearly
- Supervisor can view the above data individually or for a group of employees.
- Filters like Employee, Designation wise, Date, Month, and year wise, etc.
- Attendance reports for the various categories like Early limit time, Late limit time, early allowed limit, late allowed time, Comp off, Overtime reports and Grace late time.
- Automatic adjustment of last month's attendance data in current month.
- Manual data entry with required authorization.

Leave Management

- Leave/Tour/Outdoor Duty application and authorization
- Weekly Offs and Holidays
- Multiple Leave Reports like Leave Calculations/ Leave Balance/ Leave Encashment.
- Carry forward leaves.

Audit Reports

- Audit and Transaction logs

Integration

- Integration with third party Payroll, HRM /SAP / ERP with specific format



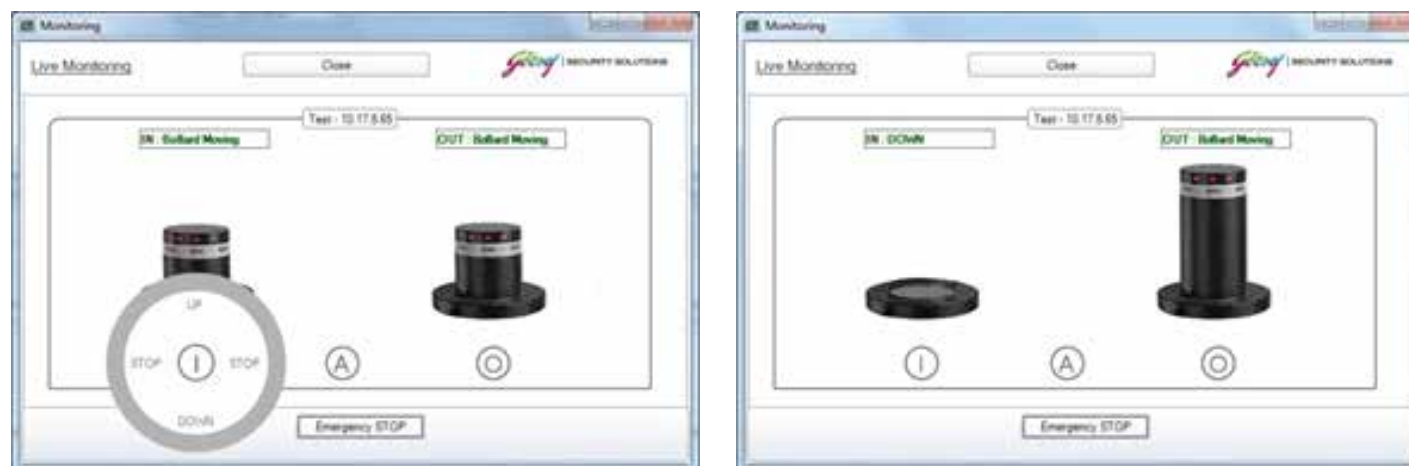
Bollard Management Software System Architecture



Key Features

- Monitoring & controlling of Bollards.
- Status monitoring for bollards like Open, Close, Stuck
- Control from software Opening, Closing
- User friendly Graphical user interface
- Device / System audit trail report
- User Management
- Connectivity through local area network / LAN
- Multiple sets of Bollards can be controlled through a single software.

Bollard Monitoring Screenshots:



Ticketing Software

Description

Ticketing system is a system comprising of a physical entry barrier, Barcode/QR code Reader, Controller, Server and Ticketing Software. The solution can be deployed at any sports or ticketing event and can be integrated with the Ticketing partner for the event.

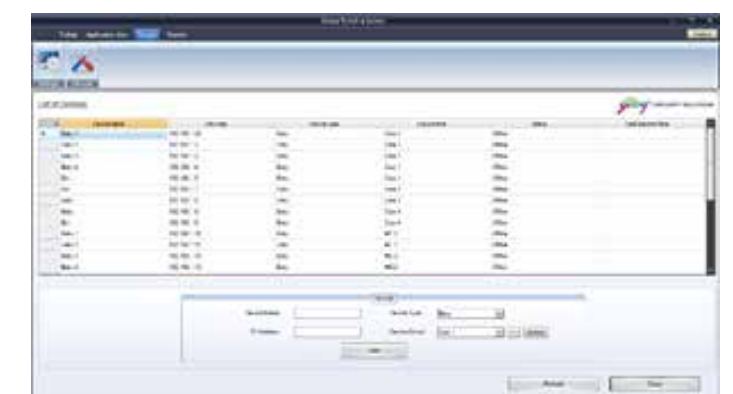
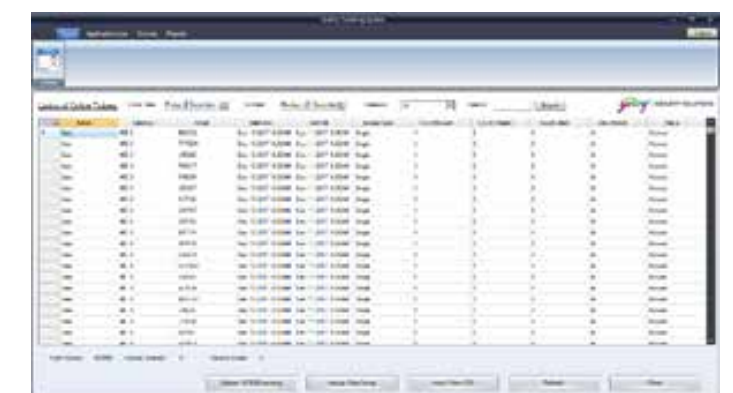
Key Features

- Client-Server Architecture
- Real time ticketing software
- Access control based on Gate Groups, User Category and Ticket Timings
- Real time device monitoring
- Detailed and summarized reports
- Real time visitor counts monitoring and attendance of event
- Robust architecture Offline Mode – Local Authentication by controllers
- Automatic data synchronization on connection restore
- Supports run-time changes

Detailed Specifications

1. Ticketing Access

- Ticket validation based on ticket timing and gate groups.
- Import of ticket details facility from csv file
- Below are minimum fields which csv file should contain.
 - Name
 - Category
 - Ticket Number
 - Valid From
 - Valid Till
 - Single/Multiple Entry
 - Count Allowed
- Date and Time Based Access for entry/exit.
- Option for Single/Multiple Entry tickets
- Single-entry ticket for buyers
- Multiple entry ticket for security personnel, maintenance team, etc



- Configuration of Local Settings like Company, Location, Event Buffer Time
- Category based Entry, Exit
- Mapping of Categories to Gate Groups.
- Search/Filter option from list of Tickets
- Date and Time wise Filters for Category of users.
- Bulk upload of the ticket details to all ticketing barriers connected over Ethernet.
- Supports Offline mode- Local Authentication.
- Bulk upload progress status display.
- Dashboard of Total Visitors, Entered Visitors, and Exited Visitors

2. Application User Management:

- Application Users Management
- User type (Admin/Normal)
- The Access Rights based on type of the user.
- Facility to Modify Access Rights of the Users for Admin.
- Modification in Password and Theme of software.

3. Device Monitoring and Management:

- Central monitoring and management/configuration of devices
- Any device should have below minimum fields: Device Name, Device IP Address, Device Type (Entry or Exit) and Device Group.
- Mapping of Device Group based on Category of Users.
- Device Status Monitoring
- Configuration of Device Properties like Company, Location, Date Time of system, Device ID, Device Group ID.
- Offline Modes: Access Bank, Barcode Data-Single Entry, Barcode Data-Multiple Entry

4. Reports:

- Attendance Reports based on Time, Access Type, User Category
- Summary Report based on Time, Access Type and User Category

Visitor Management Software

Description

VMS software is web application to create and manage visitors and their appointments.

Specifications

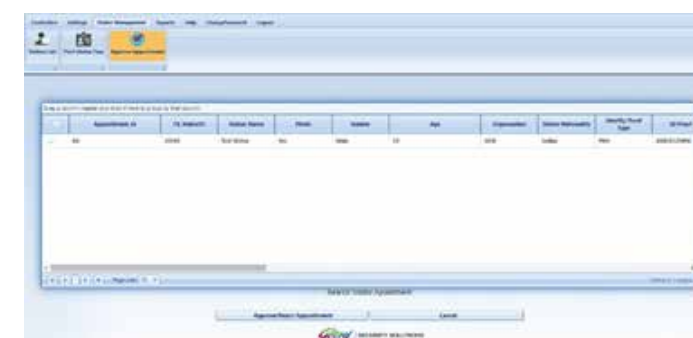
- Centralized Web based Application.
- Creating and Updating Application users
- Assign access rights to the Application users and create admins.
- Create appointments / Visits by Employee
- Visit Authorization by the admin.
- Supports Single day and multiday appointment creation for visitor.
- Schedule and pre-schedule date and time-based appointments.
- Provide date and time-based access to visitor.
- Creation of visitor badge with company name and logo
- Visitor Pass generation as per default badge
- Provision of selecting Vertical and Horizontal Visitor badge
- Visitor Entry Badge information includes,
 - Organization name & Logo
 - Address
 - Mobile Number
 - Visit Purpose
 - To Visit (Officer/Employee)
 - Escort name (if present)
 - Meeting Location
 - Date
 - In Time and Out time (Check In/Check Out)
 - Signature of issuing authority
 - Photograph
 - Signature officer/ authority
 - Appointment ID

Reports

- Check In/ check Out reports of the Visitor
- Completed Visits(Check In and Check Ou completed)
- Incomplete Visit (Check In completed but Check Out not completed)
- Not visited(No Check In or Check Out)
- Scheduled Visits

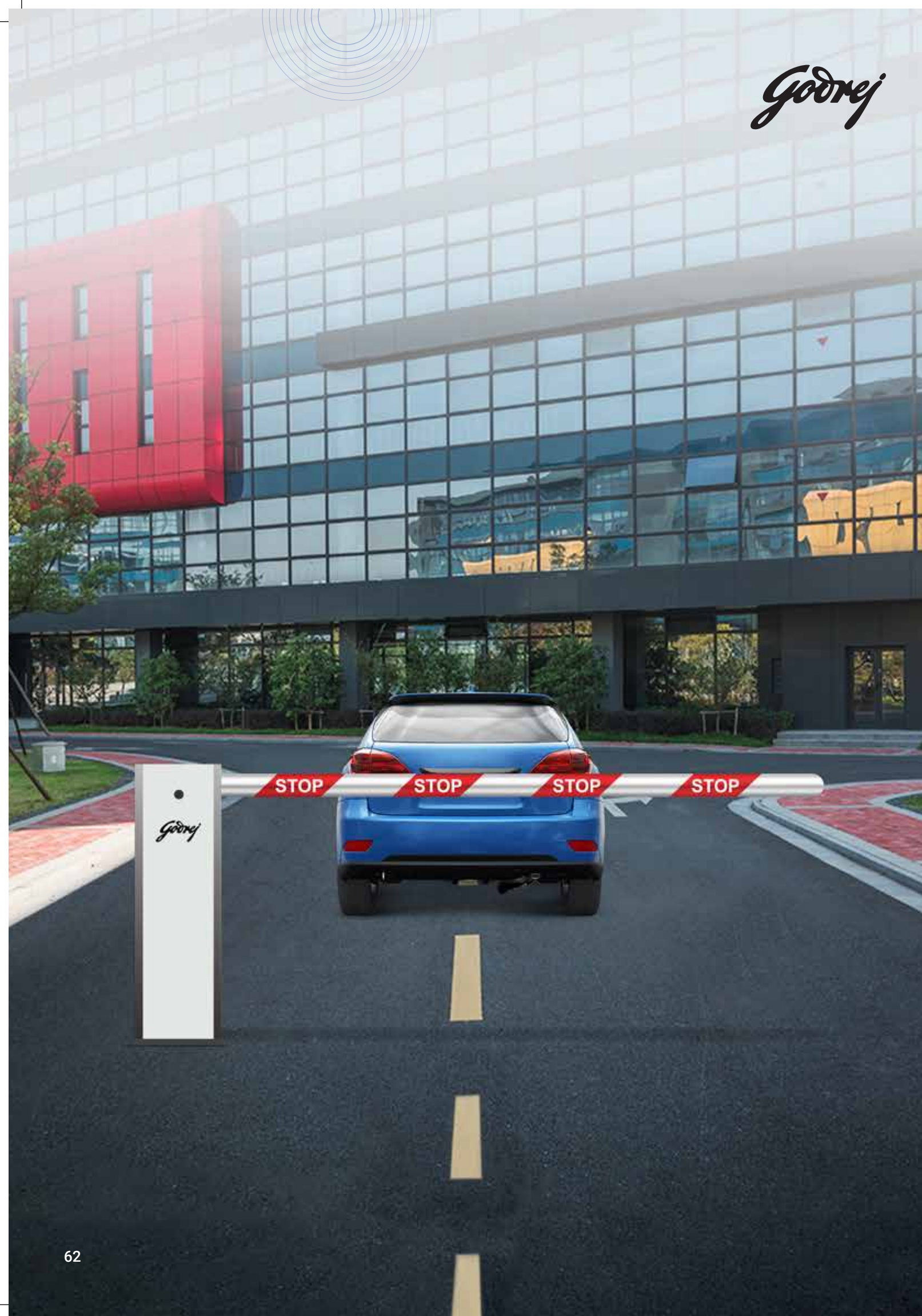


Visitor Basic Details for Pass



Approval by Admin

GODREJ AND BOYCE MFG CO LTD	
VISITOR'S GATE PASS	
NAME	Test Visitor
COMPANY	GMB
DOB	5/12/1999
ADDRESS	Mumbai
MOBILE	7588073060
PURPOSE TO VISIT	Test
TO VISIT	Rahul P
MEETING LOCATION	D
IN TIME	12:38
OUT TIME	
SIGNATURE OF THE OFFICIAL CALLED ON:	
SIGNATURE OF THE ISSUING AUTHORITY:	
THIS PASS SHOULD BE RETURNED AT THE GATE WHILE GOING OUT	



VEHICULAR ENTRANCE CONTROL SOLUTIONS

Engineered to cater to the unique needs of various environments, our solutions redefine vehicular entry control with cutting-edge technology and unmatched reliability. From sleek and sturdy boom barriers, road blockers to heavy duty Tyre-Killer, our range of solutions offers a tailored approach to suit diverse requirements. Whether it's controlling access to corporate campuses, residential communities, or commercial complexes, Godrej Vehicular Entrance Control Solutions ensure smooth and secure entry for authorized vehicles while maintaining stringent security protocols.

Enhance Security, Control Vehicle Access.



Boom Barrier

ENTRANCE CONTROL SOLUTIONS

Godrej Boom Barrier

Godrej Automatic Boom Barriers are the most widely used solution to secure access to vehicles. It offers efficient security at entry and exit points of factories, office complexes, condominiums, parking lots, toll plazas, or any roadway entry where medium to heavy traffic is expected. Designed to precision, Godrej Boom Barriers GVB4 / GVB6 enable controlled vehicular access; conveniently securing your premises.

Godrej Boom Barrier has an inbuilt anti-crash safety device which blocks the motion of the barrier, should it meet any obstruction. The optical beam sensor automatically senses traffic approaching the barrier, its electronic control panel is designed to accept signals from various controls and safety accessories. Godrej Boom Barriers are the most trusted solutions, accepted across industries for entrance control and security.

Applications

- Toll Booths
- Parking Zones
- Industrial Complexes
- Private & Government Assets
- Residential Areas
- Airports

Fea-

- **Housing Thickness:** 2mm thickness for higher strength and reliability
- **Smooth Operation:** ABS brake control system for No bounce/jerk of boom at end positions
- **Better Visibility:** White aluminium boom bar with reflective strips and RAL 7012 powder coated housing
- **IP54 Protection:** Control unit is IP - protected making it dust and water resistant
- **Optical Beam Sensor:** Safety device to detect presence of vehicles and reverse barrier movement
- **Access Control Operation:** Barrier operated through push button switch and can also be operated through access control system
- **Manual Operation in case of Power Failure:** Barrier can be raised or lowered by releasing the barrier lock

Specifications

Particulars	GVB4	GVB6
Boom length (mt)	4	6
Height of Boom from Ground (Approx. mm)	875	875
Housing Dimensions (Approx. mm)	300x325x1060	400x400x1065
Boom Dimension (mm)	90x32	90x32
Controller Protecting Rating	IP54	IP54
Control Panel Power Supply (V)	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz
230 A.C. 50/60 Hz	24 D.C	24 D.C
24 D.C	100	200
Opening Time (Sec)	1 to 2	2 to 4
Duty Cycle	100% Intensive Use	100% Intensive Use
100% Intensive Use	-20 to +55	-20 to +55
MCBF	5 Million Cycle	5 Million Cycle

Optional Accessories

- Bar with Protective Rubber Profile: To prevent injury on case of any contact
- Circular Boom Section: Optional boom profile used in case of a windy area
- Loop Detector: Safety device to detect presence of vehicles and re verse barrier movement
- Flash Light: To indicate traffic at the entry/exit location
- Folding Arm: Optional boom profile for used in case of ceiling height constrain in the area

Reliable Protection Against Unauthorized Vehicles



Road Blockers



Road Blockers

Perimeter protection is becoming increasingly important, especially for premises with high traffic at entry and exit points. At such places conventional barriers may not be adequate and advanced security measures need to be taken.

Godrej Security Solutions' Road Blockers provide reliable security where unauthorized vehicles need to be stopped. These intelligently developed Road Blockers are ideal for organizations, institutions and other locations which are extremely sensitive to security.

The Road Blocker is an electro-hydraulically operated rising step obstruction which rises above the ground level on giving a valid input signal and thus prevents unauthorized intrusions. It ensures maximum protection. An example of German engineering excellence, this TESCON Security Systems product is brought to you exclusively by Godrej Security Solutions.

Applications

- Military areas
- Hotels
- Places of detention
- Airports
- Embassies
- High security zones
- Dams
- Temples
- Banks
- Heavy industries
- Power stations

Technical Characteristics

The housing and the blocking element of the road blocker are designed in full-core steel profile construction to absorb a static impact load of 400 to 5000 kN.

- Electro-hydraulically operated
- Blocking width 3 m to 6 m
- Physically crash tested according to PAS68 standard
- Standard blocking height above surface level: 675 mm
- Loop detector provided for safety

- Tensile strength of structural steel components: 490 - 600 N/mm²

- Hand pump for manual operation in case of power failure

- Optional Features / Accessories:

- Any RAL color / stainless steel bollards

- Accumulator system for hydraulic operation in case of power failure

- Traffic lights and sump pump for drainage

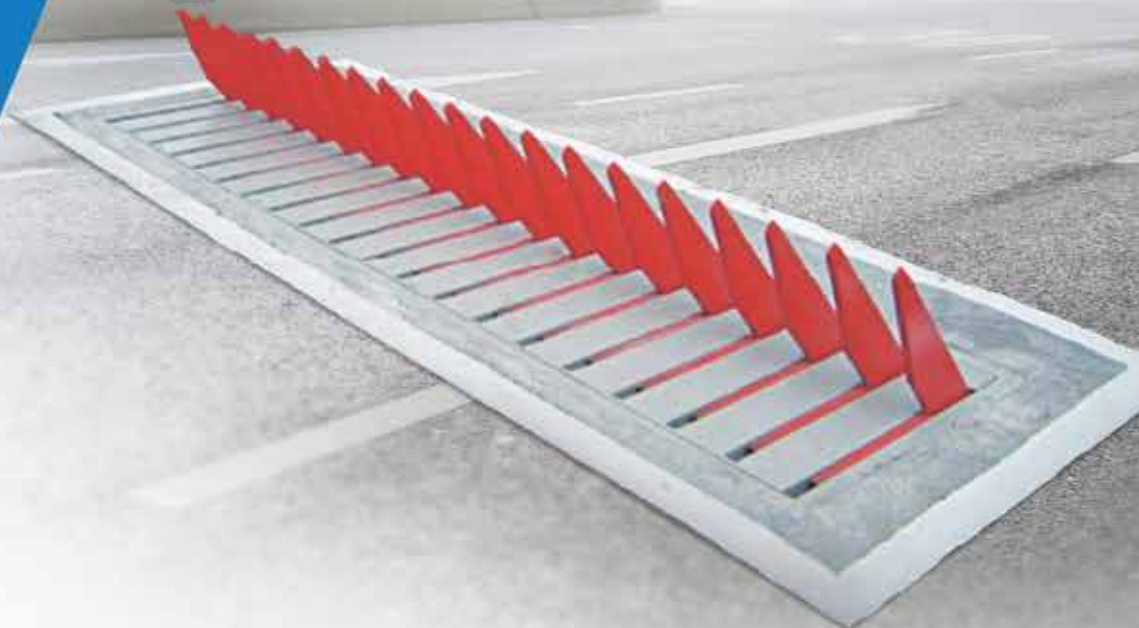
- Built in red warning lights for better visibility of blockers built for impact greater than 700 kn

Long-Term Corrosion Protection

All steel parts of the Road Blocker are especially galvanized and plastic coated (three surface layers, (zinc plus 2 layers of plastic coating, upto 260 microns)



Safeguarding Your Space from Unauthorized Intrusion



Tyre Killer
TESCON

Tyre Killer

Today, access control systems need to be enhanced with equipment that serve as better protection, especially at high security, high traffic premises. This requirement can only be met with advanced security products.

Godrej Security Solutions brings to you easy to install Tyre Killers which are highly secure vehicle control barriers, ideally suited for approach entrances to banks, military installations, airports, docks, cash collection depots, government offices, and the like.

A Tyre Killer is an electro hydraulically operated heavy duty spike obstruction which rises above the ground level on giving a valid input signal and thereby prevents unauthorized intrusions at entry/ exit points of high security premises.

An example of German engineering excellence, this TESCON Security Systems product is brought to you exclusively by Godrej Security Solutions.

Applications



Military areas



Embassies



Banks



Hotels



High security zones



Heavy industries



Places of detention



Dams



Power stations



Airports



Temples

Technical Characteristics

A Tyre Killer with separate electro-hydraulic drive unit - consists of an underground casing and heavy duty steel spikes determined to destroy tyres, suspension and axles of a vehicle in case of unauthorized intrusion.

- Electro-hydraulically operated
- Blocking width 3 mt to 6 mt
- Designed to puncture tyres and break the axle in case of violent intrusion attempt
- Blocking height of spike above surface level: 475 mm
- Loop detector provided for safety
- Hand pump for manual operation in case of power failure
- The solid blocking spikes 25 mm thick welded to the solid rotation axis at a distance of approx. 200 mm to each other

Optional Features/Accessories

- Accumulator for hydraulic system in case of power failure
- Traffic lights for visualization
- Sump pump for drainage

Long-Term Corrosion Protection

All steel parts of the Road Blocker are especially galvanized and plastic coated (three surface layers, (zinc plus 2 layers of plastic coating, upto 260 microns)

A Cutting-edge Defense Against Unauthorized Vehicle Access



Blocking Bollards



Blocking Bollards

With the increase in incidents of terrorism using uncontrolled vehicles which can cause serious damage to life and property there is a need to lay special emphasis on security checks at sensitive places.

To combat this possible threat, with the objective of thwarting unauthorized vehicular access, Godrej Security Solutions brings to you - Blocking Bollards, a modern and innovative deterrent.

Vehicles are brought to a complete halt by the hydraulic bollard with no penetration onto site or past the impacted face of the unit. A key feature ensures that all forward energy is absorbed at the front of the equipment on impact. An example of German engineering excellence, this TESCON Security Systems product is brought to you exclusively by Godrej Security Solutions.

Applications

- Military areas
- Hotels
- Places of detention
- Airports
- Embassies
- High security zones
- Dams
- Temples
- Banks
- Heavy industries
- Power stations

Technical Characteristics

- Electro-hydraulically / Electro-pneumatically operated
- Single or multiple units in row with one common drive unit
- Crash rating: 350 kN to 926 kN (7500 kg vehicle at 80 kph)
- Standard blocking height above surface level: 600 / 700 / 800 / 1000 mm (as per requirement)
- Diameter of Bollard: 220 mm & 275 mm
- Loop detector provided for safety
- Hand pump for manual operation in case of power failure
- Design certified and physically crash tested as per PAS68 standards

Options Available

- Electro-Hydraulic Bollards
- Electro-Pneumatic Bollards
- Semi-Automatic (Gas spring) Bollards
- Dummy / Fixed Bollards

Long-Term Corrosion Protection

All steel parts of the Bollards are especially galvanized and plastic coated (three surface layers - zinc plus 2 layers of plastic coating up to 260 microns)

Optional Features / Accessories

- Any RAL color / stainless steel - 304 bollards
- Accumulator system for hydraulic operation in case of power failure
- Traffic lights • Sump pump for drainage
- Inbuilt LED lightning on top circumference of bollard

Keep Intruders at Bay



Heavy Duty Barrier

Heavy Duty Barrier

- Anti-Intruder Drop-Arm-Barrier
- With electro – hydraulic drive, up to 8 m clear opening
- Crash tested with 8m clear opening, 7,5 to / 48 km/h
- Clear opening: 3,5 m to 8,0 m
- Impact ratings from 7,5to/48 km/h to 7,5to/80 km/h
- Height of pole above ground approx 0,9 m

The crash rated Cable Barrier TC-CB/HYD CR 350 is designed to withstand an impact of 7,5 to at 48 km/h according to PAS 68 (approx. 667 kJ kinetic impact energy). Stronger versions (1185 kJ and 1852 kJ) are available as well

Barrier Pole

Heavy-duty metal section profile, reinforced by a special rope according to static requirements.

Pole Support

Steel rest posts with pole lead-in, side support and rubber buffer (one rest post near barrier stand casing). The rest posts are also acting as impact resistance in case of violent attacks while barrier pole is in closed position. Rope is engaged with post when barrier is closed.

Pole Stand Casing and Pole Stand

All sides closed steel casing with detachable cladding. Side guiding for barrier pole which is bolted to a wishbone-mounting pivoting on ball bearings. The bottom part of the casing consists of the base plate with an opening for cable conduits and bores for the anchor bolts. Roller bearings of barrier pole equipped with life lubrication.

Barrier Drive

Electro-hydraulic drive unit, 400 V, 50 Hz, Mechanical end limits and electrical limit switches are installed.

Hand pump for emergency manual operation in case of power failure.

Electrical Control and Control Equipment

The electrical control for the barrier with all necessary switching elements and dry contacts located inside the barrier stand casing.

Long-Term Corrosion Protection

Steel surfaces galvanized and plastic coated according to TESCON 4S-Coating.

Technical Data

Type	TC-CB/HYD CR 350
Drive	electro-hydraulic
Electric motor capacity	of adequate size, 400 V, 3-phase
Protection class	IP 65
Static Impact load	7,5 to/48 km/h (350 kN) according to PAS 68
Corrosion protection	TESCON-4S-Coating

Secure Your Premises with Unbeatable Security

Godrej

HDCR Gates

Heavy Duty Barrier

Sliding gate on ground track, manually or motor operated, single leaf construction, heavy duty crash rated type for impact resistance 926 kN (exceeding K12-L2). The gate is designed so that in closed position it will prevent the penetration of a vehicle weighing 7,5 tons hitting it at a speed of 80 km/h. A corresponding test crash was done according to PAS 68 N3 (18T Rated).

Frame

- Bottom rail made of RHS 500/300 and additionally with Reflective Warning Tape in Red (other colors or combination available on request).
- Side stiles and top rail made of RHS 120/80
- Vertical reinforcement bars made of RHS 80/80
- Manual operated gates: the inside of the bottom rail can be equipped with special tooth rack and provision for later gate motorization

Frame Infill

Made of rectangular bars RHS 30/20 welded in between top and bottom rail max. 120 mm clear distance.

Posts

Reinforced Double guide posts made of steel RR 200/100 for concreting-in 550 mm in foundation with a min. depth of 800 mm Catch post 500 mm above road level, made of U 100 for concreting-in 300 mm in foundation

Supporting Structures

Special steel rollers D160 on ball bearings (lifetime lubricated) are installed within the bottom rail of the gate leaf. A special steel ground track with concrete anchors carries the gate rollers.

Corrosion protection

Very special galvanized and plastic coated for maritime and extreme weather conditions according to the 4-S-Coating. Colour of plastic coating stone grey RAL 7030. Other colours are available on request.

Remark

All TESCON gates are factory tested and comply with the acknowledged rules of technology especially with the rules 89/392/EWG (CE), BGR 232, and DIN EN 13241.

Motor Driven Gates

Drive Unit

Gate drive unit with motor of adequate size, 3-phase 230/400 V, 50Hz in lockable metal housing pinion for tooth rack, self blocking at open and closed positions, emergency release, friction clutch, height adjustment, electronic braking, integrated electrical control. Additional frequency converter for higher gate speed approx. 0.50 m/s is available. The gate can also operate with other power supply. Please inform us about the available power supply on site.

Control Equipment and Accessories

- 1 no. key switch "O-C-Emergency Stop" at motor housing
- 1 no. fail safe rubber buffer at front leading edge as accident prevention
- 2 no. light beam unit

Additional equipment like LOOP Detector, Traffic light and others is available on request.





SCANNING SCREENING SOLUTIONS

Where precision meets performance, and safety is never compromised.

A comprehensive suite of cutting-edge technologies designed to enhance security and streamline operations across various industries. From high-throughput Baggage Scanners to advanced Body Scanners and many other products, our solutions deliver unparalleled accuracy and efficiency in detecting threats while ensuring minimal disruption to the flow of people and goods.

Compact.
Powerful.
Precise.

Godrej



GSCAN HZ-10

HAND HELD METAL DETECTOR

GSCAN HZ10 - Hand Held Metal Detector

Today, managing security is one of the primary challenges for large spaces like institutions, organisations and recreational complexes. Considering the influx of people at these places, foolproof security is difficult to attain. Hence, such crowded spaces need a security tool that can efficiently lead the security bandwagon.

To address this concern effectively, Godrej Security Solutions brings you the GSCAN HZ10 - a new age hand held metal detector which can detect even the smallest metal element in seconds.

GSCAN HZ10's extreme sensitivity enables it to easily identify jewellery, electronic & computer components, tools etc., making it a highly reliable anti-theft tool. Its user adjustable sensitivity renders it flexible and versatile, making it adaptive to any kind of environment while providing optimum efficiency.

GSCAN HZ10's non-intrusive and hands-off search approach, maintains minimal physical contact with the subject while frisking. Thus ensuring a smooth and comfortable security check. Its aesthetic light-weight design with a comfortable grip reduces the fatigue caused to operators; its high sensitivity, large screening area and fast detection circuitry defines its accuracy.

Features

- Fast Weapon Screening and Theft Prevention
- Low Field Strength
- Three State Blue LED Alarm & Status Indicator
- Electronic Switching a with Tactile Feedback
- No False Alarms
- Instant Response
- Elegant ABS Housing
- Non-intrusive Body Searching
- Fast Scan Rate
- Detects All Metals and Alloys

Technical Specifications

Detects	Medium Pistol at 10" (250 mm), Pistol, 25 cal. at 8" (200 mm), Mini Revolver, 22 cal. at 6" (150 mm), Cartridge, .357 at 4" (100 mm), Razor Blade at 2" (50 mm), Hat Pin at 1" (25 mm)
Scan Rate	3" to 24" (75-600 mm) per second
Electronics	The highly reliable, advanced detection circuitry, is housed in a rugged high impact ABS plastic case and detects all metals and alloys
Alarm Indicators	High efficiency piezoelectric beeper and multi-function BLUE LED indicator. The BLUE LED indicates the following three functions; 1. Normal Light when the unit is switched ON. 2. Brighter Light when a metal object is detected 3. Flashing Light when battery is low
Power Requirement	Gscan Hz -10 works on rechargeable batteries
Low Battery Warning	Low Battery is indicated when the LED starts flashing. However the unit continues to function for several hours after the Low Battery Warning.
Dimensions	Length: 394mm, Body Width: 36mm, Thickness: 33mm, Weight: 300gms (appx)

Controlled Access Only



Detects cell phones and ferrous contraband



Multizone detection for accurate pinpointing



Built-in battery backup of over 12 hrs



Compact and light weight less than 10 kg



Portables single pole type installation



GSCAN POLE
Ferromagnetic Contraband Screener

GScan Pole

GScan Pole Ferromagnetic Contraband Screener is a ferromagnetic metal detector for the detection of contrabands such as mobile phones, laptops, tablets, smart watches, guns, knives, razorblades and other threat items. It screens the complete body in a single walk-by for all ferro-magnetic sources. The system is simple and can be deployed within minutes and is ready to screen immediately. The internal battery ensures power independent operation, so GScan Pole can be deployed at any location. It can find concealed phones and ferrous contraband, can locate phones hidden behind walls, under clothing or in packages, bags and other objects. It can even locate phones hidden inside someone's body.

Features

- Detects all cell phones and ferromagnetic contraband
- Automatic self-calibration in all environments
- Full height, 360-degree detection
- Functions in vertical and horizontal positions
- 10 level volume control for precise volume setting
- 120 levels of sensitivity for individual zones
- Dual level of gain adjustments for each zone
- User selectable pre-programmed settings for quick calibration
- High contrast OLED display for information display and settings
- User adjustable intensity for OLED display and display LEDs to suite the environment
- User selectable 8 tones for indication detection with silent mode option
- Conforms to latest EMI/EMC
- Conforms to international electrical safety standards
- Ferromagnetic detection technology
- Passive technology, no radiation - Safe for pacemakers, pregnant ladies & medical implants
- Multi-zone detection for accurate pinpointing of targets
- Bluetooth headset for covert operation (Optional accessories at an additional cost)
- Secure ease to use jog dial control
- Can work through walls and false partitions
- Password protection to prevent unauthorized access
- Zone indicator lights for quick search and detection
- Can run on 12v auxiliary power for remote portable operations
- Built in lithium-ion battery for compact and single unit design
- Extremely durable design, 316 grade stainless steel & injection moulded plastic for high quality finish
- Wall mount kit for space saving deployment (Optional accessories at an additional cost)
- Carry case for secure transportation and storage
- Ergonomic design for minimum space requirement in passage ways
- Weatherproof - Suitable for outdoor and indoor installations

Specifications

Technical Data	Unit
Nominal Detection Radius	70cm
Throughput Rate	30-40 p/m
Power Supply	110-240 V(ac)
Operational Voltage	12 V(dc)
Max Power Consumption	12W
Frequency	50-60Hz
Working Temperature	-10~+65 c
Dimensions Without Base	200cm x 5cm x 5cm
Dimensions With Base	201.5cm x 32cm x 26cm
Net Weight	10 kg
Weight Without Base	4 kg

Applications

- Hotels
- Prisons
- Government Buildings



Elevating Security Standards through Intelligent Detection

Godrej



GSCAN 9Z

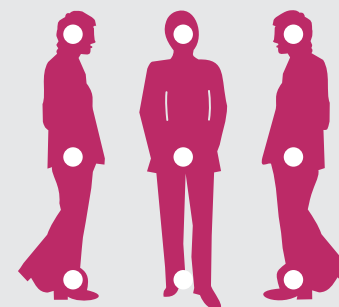
WALKTHROUGH METAL DETECTOR



Godrej

GSCAN 9Z - Walkthrough Metal Detector

Having effective security at the entrance of crowded areas like shopping malls, railway stations, and airports is crucial. Especially when there is only so much that manned security can do, it is important to have a solid security solution that you can rely on. Godrej Security Solutions' G-Scan is the ultimate scanning device that you can count on for complete protection.



ZONES

GSCAN-9Z is a high performance nine horizontal zone walk through metal detector. Each detection zone functions as an independent detector and automatically increases discrimination by reducing the cumulative signal effect caused by distributed harmless objects.

A full-height light bar displays the location of the detected metal masses in transit. This results in rapid identification of threat and a reduction of manual searches. LED bar-graph, indicator lamps, sensitivity and alarm controls are provided in the console at the top of the door frame. Only components of the highest quality and proven reliability are employed in the manufacture of GSCAN-9Z to ensure a long, trouble-free life. A mother board system with plug-in cards is employed for minimum down time and ease of serviceability.

GSCAN-9Z has been designed for fast installation and operation under all environments. Long life LED Walk/Stop indicators are incorporated on top of the doorframe to regulate the flow of traffic.

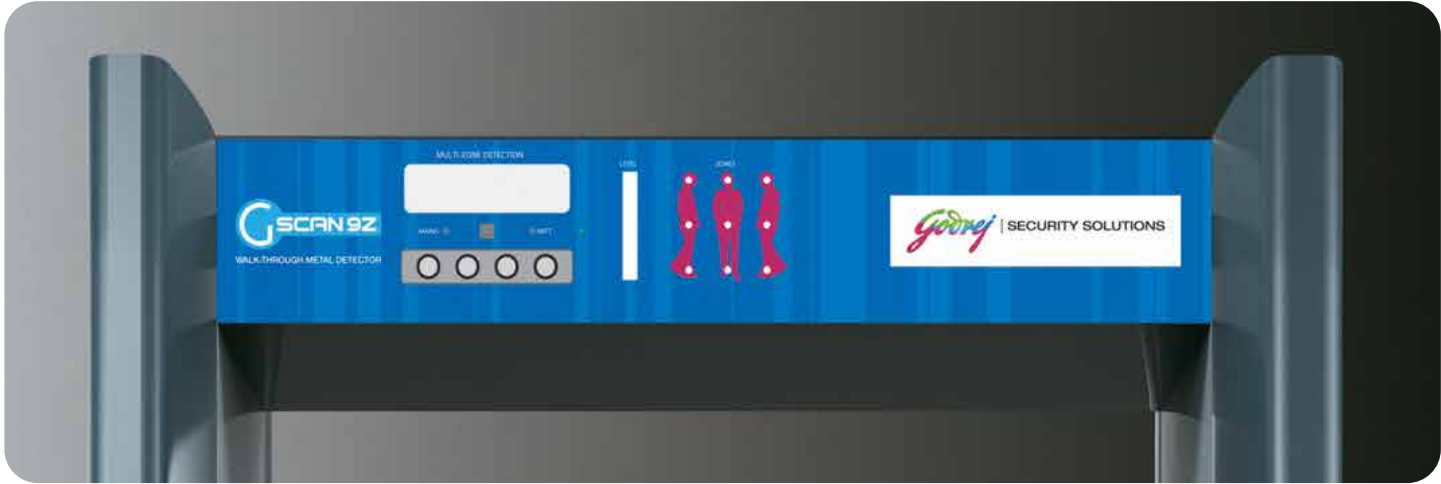
An Alarm Display Panel indicates the archway opening; it shows 9 separate detection zones within the opening. Each of the detection zones is monitored individually and typically detects a metal mass the size of a weapon before alarming. This substantially negates the problem of small amounts of harmless metal, such as keys and coins, causing false alarm. Security personnel can see the location within the archway where a weapon sized object is being carried. If more than one weapon is carried the location of each is displayed.

GSCAN-9Z increases the throughput rate of people being screened. A decrease in false alarms from harmless personal metal objects, couples with the ability to identify the location of weapon sized objects both increases screening efficiency. Traffic flows faster and more smoothly because of the lower incidence of false alarms. Also, when an alarm occurs the security personnel can immediately target the suspect object. Screening speed, accuracy, and quality of security are all enhanced.

The LCD "Intelligent Traffic Counter" uses infrared beams that are intercepted when someone passes through the door. The Intelligent Counter separately displays the number of people that have entered or exited through the detector. It also displays the algebraic sum of the people so that the number of people yet to exit from a location is known.



Technical Specifications



Electronics
 GSCAN-9Z uses an embedded microprocessor and features true multiple-zone performance. It combines unique multiple independent sensors with digital signal processing. A built-in display panel provides instant visual & audible indication.

System Throughput
 The walkthrough metal detector accommodates a wide range of walk through transit speeds. Rapid automatic reset maximizes the system throughput rate to over thirty passes per minute. GSCAN-9Z series speed range provides consistent detection over a wide range of object transit speeds.

Interference Immunity
 GSCAN-9Z series walk through type detector's advanced design provides excellent interference rejection. Outside interference sources such as computers, fluorescent lights, etc. have minimal impact, enabling the unit to operate in environments that render many detectors inoperable.

Multiple Operating Frequencies
 The walkthrough metal detector provides eleven user selectable operating frequencies. They allow simultaneous operation of multiple units without interconnecting slaving cables.

Uniform Detection
 The field of detection is uniform from top-to-bottom with no hot spots or dead spots. In situations where large amounts of steel re-bar exist in a support floor and cause a drop in detection at ankle height; the loss can be compensated by adjusting the detector.

Memory
 The walkthrough metal detector utilizes an embedded microprocessor that analyzes data generated by detection sensors. Whenever adjustments are made to any operating parameter they are automatically retained in memory. When detector is powered down the previously entered operating parameters are retained in memory.

System Security
 Walkthrough metal detector is pass-code protected, a four digit pass code must be entered before operating parameters can be accessed and changed.

Construction
 The GSCAN-9Z has been tastefully designed for easy blending into sophisticated decor. The detector assembly are sturdily constructed for stability and durability. The side panels are protected by aluminium alloy to provide optimum strength to the structure.



Dimensions & Weight

Archway Inside	
Width	72 cm
Height	200 cm
Depth	60 cm
Archway Outside	
Width	82 cm
Height	215 cm
Depth	60 cm
Net weight	65 kgs
Gross Weight	75 kgs
Operating Conditions	
Temperature	-20°c to +55°c
Humidity	To 90% non-condensing
Power Conditions	
Fully automatic SMPS 90 to 270 VAC, 50 hz.	
Additional Features	
Internal battery backup	Minimum 6 hours
Calibration	Manual and automatic
Reset	Within 3 sec after alarm condition



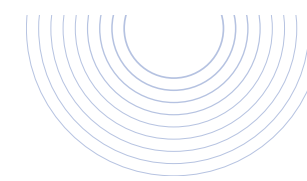
Securing Every Walk

with High-Performance Walkthrough Metal Detector



GSCAN 33Z

WALKTHROUGH METAL DETECTOR



GSCAN 33Z - Walkthrough Metal Detector

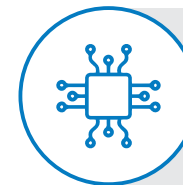
Godrej presents a thirty-three-zone Walkthrough Metal Detector, with which each detection zone functions as an independent detector and automatically increases discrimination by reducing the cumulative signal effect caused by distributed harmless objects. It localizes a myriad of foreign objects including bullets, intraocular metallic fragments, swallowed coins, and other foreign bodies and medical devices.

Godrej Walkthrough Metal Detector enhances security at various indoor and outdoor spaces with high footfall and prominence.

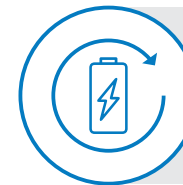
Features



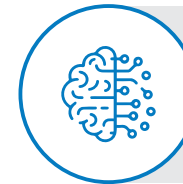
33 zone metal detection for precise target location



Reliable microprocessor based design



Built-in battery backup of over 8 hours



Intelligent traffic counter



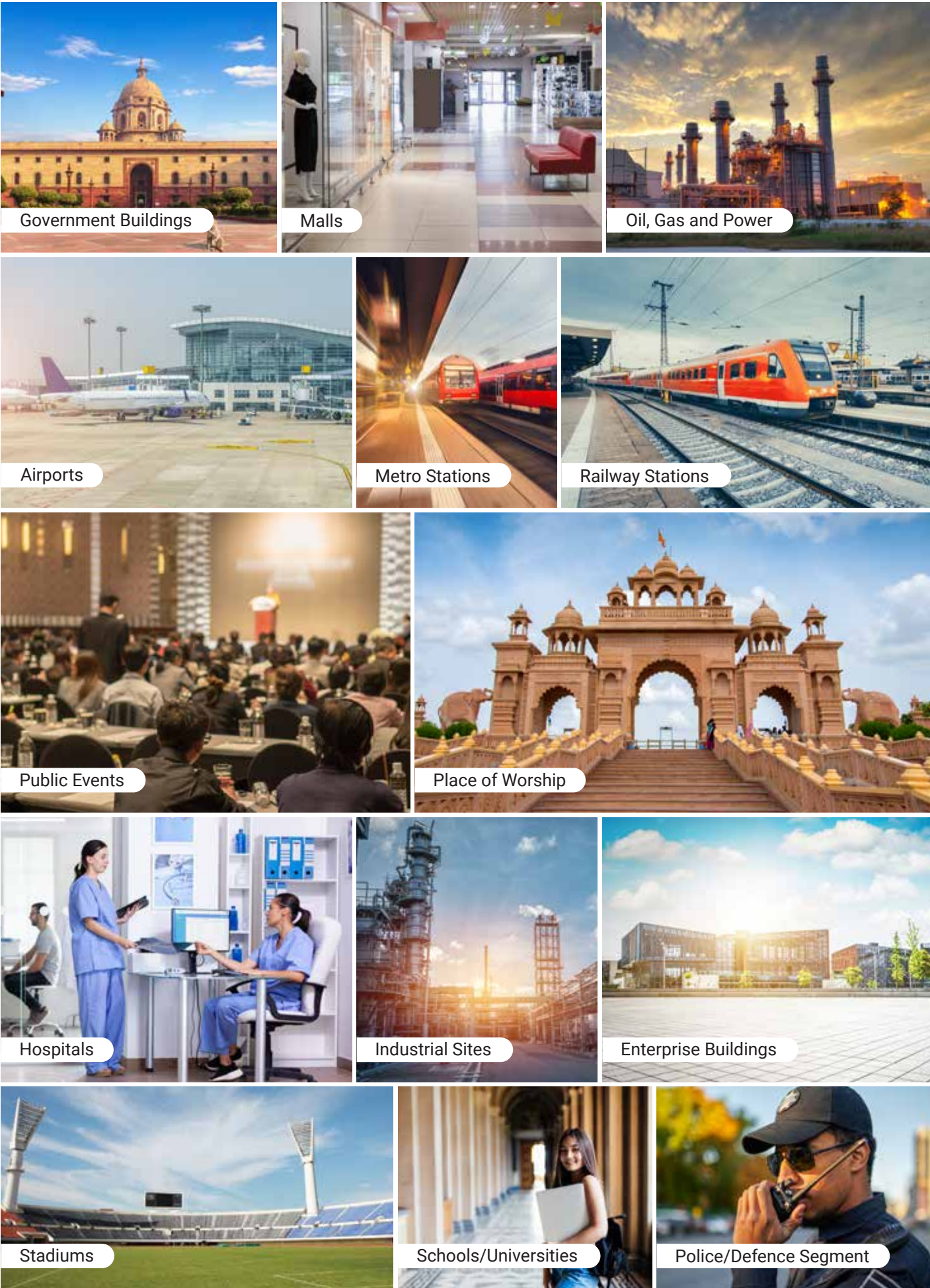
Access to configuration protected by password



Low field strength - no affect on pacemakers and magnetic media



Applications



Specifications

Detection Zones	33 overlapping detector zones divided into a minimum of 11 Horizontal X 3 Vertical scanning zone with separate sensors/ sensitivity levels. Detects ferrous and non-ferrous as per NIJ 0601.02 Standard. It also detects 9mm bullet in different positions (along with X- axis, Y- axis & Z-axis) in all available zones
Indicators	a) Adjustable audio indication b) LED bar graph signal strength indicator c) High bright LED zone display d) Large LCD display for counting and message announcement
Alarm	Audio & Visual Alarm for each zone
Interference Rejection	High immunity to external electrical interference, such as X-Ray Machines, Electric Lines, Transformer, Chokes, Computer or CCTV monitors detected
PC Connectivity	Ethernet based PC connectivity for remote programming & monitoring
Throughput	20 persons per minute
Dimensions (Internal)	Height: 2040 mm, Width: 750 mm
IP Rating	IP 65 Certified
Memory	Parameters stored in non-volatile RAM so no loss of settings as a result of power failure or turning off the unit
Traffic Counter	Microcontroller based intelligent LCD counter to indicate in, out and algebraic sum of the traffic. It also keep a track on number of Alarms and Alarm percentage
Power Source	SMPS 90-270V AC & 12V/7AH Battery Seamless battery changeover in case of mains failure. Batteries are internally & automatically charged during operation
Battery Backup	Integral rechargeable Battery with built-in charger to cope with power failures of over 8 hours
Construction	Weatherproof rugged structure made with detachable ABS laminated side panels for ease to install & transportation. ABS plastic boots for panel protection
Temperature	-20°C to +55°C & humidity of 95% non-condensing
Weight	70 Kgs (Approx)
Password Protection	Password protection to prevent tampering of settings
Sensitivity	250 sensitivity levels for each zone for precision detection of target objects
Frequency	15 Levels adjustable
Calibration	Automatic calibration. No initial or periodic calibration necessary
Certification/Standards	ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

Efficient Screening for Large Objects



Krystalvision - KV100100

X-RAY SECURITY INSPECTION SYSTEM

Krystalvision- KV100100

Krystalvision KV100100 is a state of art X-Ray Security inspection system designed for scanning large objects such as checked bags, pallets upto a size of 100 cm by 100 cm.

KV100100 is an industry leader with its superior detection technology and unmatched discrimination features. This baggage scanner has proven its effectiveness for scanning high volumes of - luggage at railway stations, airports etc.

It utilizes highly efficient dual energy solid state detectors, advanced digital image processing and proprietary algorithm to provide users with reliable high resolution images which enhances operator's ability to identify suspicious items.

Key Features

- Superior And Efficient Detection Capabilities
- Lower Conveyor Belt For Easy Handling Of Heavy Baggage
- Advanced X-ray Photodiode Array Technology
- Sophisticated Image Capture, Display And Archival
- Advanced Self-diagnostic Reporting Capability
- Lower Total Cost Of Ownership
- Excellent Pre & Post Sales Support
- Meets All Govt. Safety Regulations

Market Segments

- Police and Paramilitary
- Government offices
- Defense establishments
- Airports, Sea ports
- Hotels, Corporate offices
- Metro /Railway Stations

International Standards



Technical Data Krystalvision- KV100100

General Specifications

Tunnel Size	1000 mm x 1000 mm (Other sizes are available)
Weight	Approximately 900 kgs.
Overall Dimension	3610 mm (L) x 1300 mm (W) x 1952 mm (H)
Conveyor Belt Speed	0.2 m/s Variable Speed, Bi-Directional, High Bed
Cooling / Duty Cycle	Sealed Oil Cooling / 100%



Physical Specifications

X Ray Generator	160 KV operating at 160 KV
X Ray Sensor	L Shaped Photo Diode Array, Dual Energy
Resolution	Standard : 38 AWG, Typical : 40 AWG
Penetration (Steel)	Standard : 35 mm, Typical 37 mm
Max Load	200 Kgs. Max. (Custom Available)
Humidity	Upto 95% Without Condensation
Beam Direction	From Bottom
Ups	1.5 KVA UPS with 15 Mins Power Backup
Operating Temp.	0°c To 50°c
Storage Temp.	-20°c To 60°c
Power Required	230 Vac : 183-253 VAC, 50Hz, 6 AMP. Max
Power Consumption	1 KVA

Safety & Certifications

Certifications	Atomic Energy Regulatory Board (AERB) Certified Iso 9001 :2008 Certified CE Certified, Food Safety Certified, ISO 14001 Certified
Dose Per Scan	Less Than 0.1 mR
Radiation Leakage	Less Than 0.1 mR/hr
Film	Safe For 10 Passes Of 1600/33 Din Photo Film
Other Features	Electrical Safety Features, Emergency Stop, X-ray On Indicating Lamps, Audio/visuai Alarm, Lead Safety Screens
Machine Hardening	Rodent Protection Available

Hardware And Software Specifications

System Access	4 Secure Levels Of Access
High Density Alert	Alarm If Configurable High Density Threshold Met (In Base Price)
Threat Image Projection	Threat Image Projection Software (Tip) (In Base Price)
Machine Diagnostics	Start Up Continuous Self Diagnostics And Alerts To Users To Indicate Faults
Tagging	Automatically Tracks Baggage Counter, Date And Time
Hardware	Intel i5 or Higher, 22 Inch Monitor, 8 GB RAM, 1TB HDD/SDD
Print	Ability to Print On Demand (Printer Not Provided)
Tables	Incoming And Outgoing Modular Roller Tables



Image Specifications

Display Type	6 Color Imaging Software, 1280x1024 Image Size, 4096 Gray Scale
Image Processing	Black & White, Pseudo Color, Negative, Inverse, Variable Edge Enhancement, Continues Image Contrast & Brightness Adjustment
Image Storage	Real Time 100,000 Image Storage, Storage On Network Or Removable Media (Hard Disk) Possible
Image Recall	All Stored Images Can Be Retrieved Manually Based On Multiple Parameters
Material Discrimination	Organic And Inorganic Energy Stripping Material Discrimination
Zoom	Image Enlargement, Variable Zoom Upto 64 X, Pan Option, 9 Zone Zoom

Options

Network	Ability Of Seamless Network Integration
Explosives/Narcotics	Assistance In Detection Of Explosives And Narcotics
Monitors	22 Inch Monitor, Dual Monitors
Accessories	Combined Test Piece, In/Out Cameras, Foot Mat, Mobile Casters, Operators Console Cabinet, Dust Proof Cover



Fast, Easy and Reliable Screening on the Move



Krystalvision

VEHICLE MOUNTED X-RAY BAGGEGE SCANNER

Krystalvision

Krystalvision offers Vehicle Mounted Baggage Scanners in various tunnel sizes, with Dual view & 30 view options. Krystalvision X-Ray Baggage Scanners are integrated with vehicle for VIP security and temporary screening solutions. Krystalvision Vehicle Mounted Scanners are ideal for fast, flexible and easy to set-up at security check points for inspection of baggage, luggage and parcels at airports, customs, railway stations, political rallies, stadiums etc.

Krystalvision Vehicle Mounted Scanners are equipped with CCTV system, intercom system, Air conditioning system, power backup with UPS/ Power generator, easy to switch between city mains power supply or it's onboard

Key features

- Superior & Efficient Detection Capabilities
- Integration on Indian Vehicle Tata Winger Cargo
- Advance X-Ray Photodiode Array Technologies
- Motorized & Foldable Entry & Exit Tables Allows Easy Items Handling
- CCTV Monitoring
- Advance Self Diagnostic Reporting Capability
- Lower Total Cost of Ownership

Applications

- Police and Paramilitary
- Government offices
- Defense establishments
- Airports, Sea ports
- Hotels, Corporate offices
- Metro/Railway stations

International Standars



Physical Cpecifications:

Model No.	KV604CVS	KVG550VS	KV7560VS	KV100100VS
Tunnel Opening	600 mm x 400 mm	650 mm x 500 mm	75-0 mm x 600 mm	1000 mm x 1000 mm
Overall Dimesnsions	2020 mm(L) x 900 mm (W) x 1330 mm(H) Approx.	2020 mm(L) x 950 mm (W) x 1360 mm(H) Approx.	2020 mm(L) x 950 mm(W) x 1330 mm(H) Approx.	2020 mm(L) x 950 mm (W) x 1330 mm(H) Approx.
Conveyor Load Capacity	160 kg evenly distributed	175 kg evenly distributed	190 kg evenly distributed	200 kg evenly distributed
Conveyor/ Belt Speed	0.18-0.3 m/s in Bidirectional	0.18- 0.3 m/s in Bidirectional	0.18-0.3 mts in Bidirectional	0.18-0.3 mts in Bidirectional
Conveyor Height	450 mm Approx.	450 mm Approx.	450 mm Approx.	450 mm Approx.
Weight	380 Kg Approx.	450 Kg Approx.	550 Kg Approx.	900 Kg Approx.
Power Consumption	0.5 KV on full load	0.6 KV on full load	0.8 KV on full load	1 KV on full load



Vehicle Chassis Specifications

Vehicle Type	Indian make Tata Winper or equivalent, SUV/(MUV) Vehicle Engine Type
Engine Type	Diesel Oil / CNG type
Engine Capacity	1900 CC to 2200 CC.
Ground Clearance of the Vehicle	160-200 mm (Laden)
Air Conditioning	Dual Driven AC
Floor Type	Anti-Slip / Synthetic Floor
CCTV	CCTV surveillance for entry & exist point
Provision of external Supply	Easy to switch from internal backup to mains supply
Power Backup	UPS or Generator
Dirnesion/Weight	4920 mm (L) x 1905 mm (W) x 2445 mm (H)
Gross Weight	2850 Kgs

General Specifications

Steel Penetration	Standard 37 mm , Typical: 39 mm
Wire Resolution	40 AWC Typical, 38 AWC Guaranteed
Power Requirements	230 VAC 160-280 VAC,50Hz, 6 Amp
Video Display	22 " high Resolution, LED Color Monitor
Voltage	160-180 KVA
Tube Current	0.7-1..2 mA
Cooling	Sealed Oil Bath with forced Air
Duty Cycle	100 %
X-ray Detector	"L" -Shaped Photo Diode array
Storage/Operating Temperature	-20°c to 70C/0° c to 50°c
Humidity	Upto 95 % non-condensing
Contrast Sensitivity	24 Visible Levels , 4096 Gray Levels
Beam Divergence	Downward
Display Resolution	1920 x 1280; 24 bit/pixel color

Safety & Certifications

Certifications	Atomic Energy Regulatory Board (AERB) Certified ISO 9001:2008 Certified CE Certified, Food Safety Certified, ISO 14001 Certified
Dose Per Scan	Less than 0.1 mR
Radiation Leakage	Less than 0.1 mR/hr
Film	Safe for 10 Passes of 1600/33 DIN Photo Film
Other Features	Electrical Safety features, Emergency Stop, X-Ray On Indicating Lamps, Audio/Visual Alarm, Lead Safety Screens
Machine Hardening	Rodent Protection Available

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Enhancement, Continues	Image Contrast & Brightness Adjustment
Image Storage	Real Time 200,000 I mage storage, Storage on Network or removable media (hard disk) possible
Image Recall	All Stored Images can be retrieved manually based on Multiple Parameters
Material Discrimination	Organic and Inorganic Energy Stripping Material Discrimination
Zoom	Image Enlargement, Variable zoom upto 64 X, PAN option, 9 Zone Zoom

Options

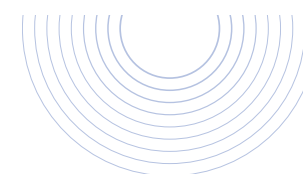
Network	Ability of Seamless network Integration
Explosives/narcotics	Assistance in Detection of Explosives and Narcotics
Monitors	22 Inch Monitor, Dual Monitors
Accessories	Combined Test Piece, In / Out Cameras, Foot Mat, Mobile Casters, Operators Console Cabinet, Dust Proof Cover



Transmission X-Ray Body Screening System Persona-Scan



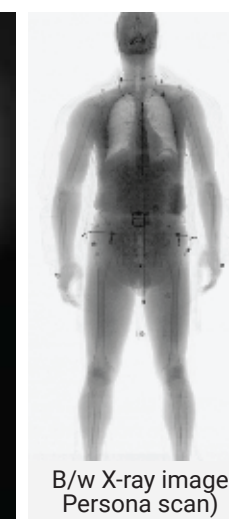
Scan X-ray Screening System



X-Ray Body Screening System

The main advantages of this design are nondestructivity, low dose load, high penetration and high productivity due to high sensitivity of the detector. Additional internal protection against scattered X-ray is used, practically, with no exclusion zone. The system can be installed at any place where power supply is provided and is intended for 24/7 operation all-year-round. The inspection is carried out automatically with images being transmitted to the control computer.

- Steel scanning module that includes dual energy collimated X-ray unit, full body-sized line detector, local X-ray protection for reducing scattered radiation zone. Integrated color lights indicate the system's status: green - ready, yellow - X-ray On, red - error;
- Movable belt with steps;
- Remote control keyboard with the Power On/ Emergency Off buttons;
- Remote control unit based on personal computer with Windows operating system and 21" TFT screen;
- Integrated special software for storing and enhancing images including all known ltering



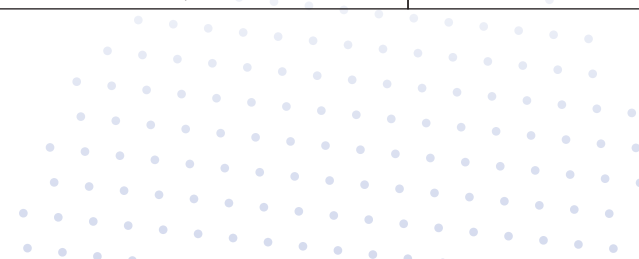
Persona-Scan X-ray screening system is designed for effective detection of items hidden under clothes, on and inside the human body. This system can be used in anti-terrorism applications, to protect state facilities, at border crossings and prisons.

The system can be used to provide access control required for special security zones. It yields high resolution of detected images due to a minimum dose of irradiation.

The pre-programmed functions of the system can help operator to quickly perform the image processing to identify hidden objects.

General Specifications

Material detectability	Metal, ceramic, plastics, powders, explosives, narcotics etc
Detection area capability	Objects hidden on and inside the body
Scan time, seconds	less than 5
Worming time, seconds	120
Through-put, persons per hour	120
Penetration (steel), mm	22
Wire detectability	36 AWG (0,12mm)
Technology	Low dose transmission X-ray
Dose per inspection	< 0,25 µSv (<0,025 mRem)*
Dimensions (L x W x H), mm	2450 x 1842 x 2470
Width of the tunnel, mm	720



Higher Energy,
Deeper
Penetration



THE FIRST GENERATION OF
TRUE INSPECTION TECHNOLOGY

PX 1 Handheld
Backscatter X-ray Imager

PX 1 Handheld Backscatter X-ray Imager

Improving Security Forces' Vision

See through

More power equals better image performance. With 140 keV and our patented optics, seeing through more material with greater depth is now possible.

Reduce Uncertainty

We know the risks involved. That is why we have worked to bring the highest surface penetrating handheld system to the market —keeping our security forces safe and one step ahead at all times.

Optimizing time

Portability and superior image quality can definitely expedite the inspection process by allowing for quick scans and dispositioning of potential threats without compromising safety and security.

Accomplish the mission

Our focus is to develop innovative technologies that empowers those who proudly serve to keep society safe from threats and uncertainties.

The First Generation of True Inspection Technology

With More Power Comes Better Performance

- 140 keV power source
- Patented Wide Infinity Detector
- X-rayShielding meets Radiation Safety Standards

Stay Connected Stay Updated

- Full connectivity
- VideCloud Platform (coming soon)
- Android, current version

Bigger detector means better results

- Deepest surface penetration in the market
- Enhanced image resolution
- Lowest user radiation exposure

End-User Oriented

- Anti-glare touchscreen
- User-configurable handle buttons
- Left and right-handed ergonomic operation





- | | | |
|--|---|--|
| 1) Infinity Detector for improved scan standoff distance and image performance | 2) Custom 700-nit bright 7" 1920x1080 HD Display improved for high contrast, outdoor readability and ruggedness | 3) Active-Passive Cooling System for the most extreme environments |
| 4) Low/negligible radiation leakage at 10 pR/h (0.1 pSv/h) | 5) Tamper Evident Encrypted Database for information security | 6) 64 GB Internal Storage + Cloud Storage |
| 7) Left And right-handed ergonomic operation | 8) Camera, dual flashlights & dual vertical line laser for an enhanced inspection process | 9) Easy-access compartment for replacing 6 hour battery |

Most compact imager to easily maneuver and scan around tight spaces



Length:
21.1 cm (8.3")

Width:
28.2 cm (11.1")

Height:
18.5 cm (7.3")



Surface material penetration



Iron



Cement



Marble



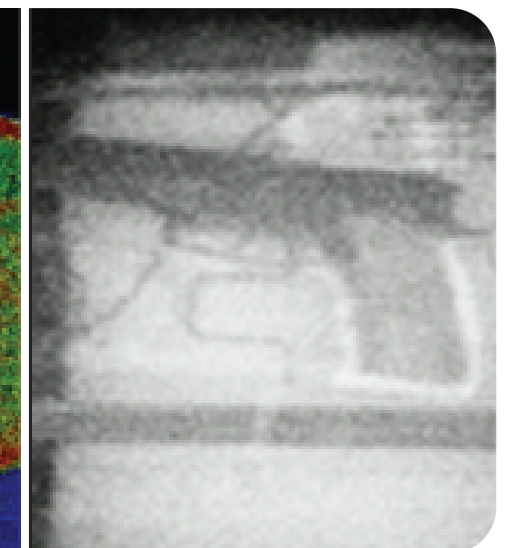
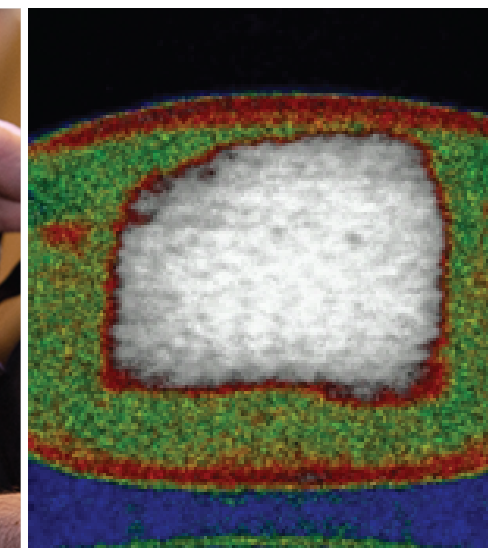
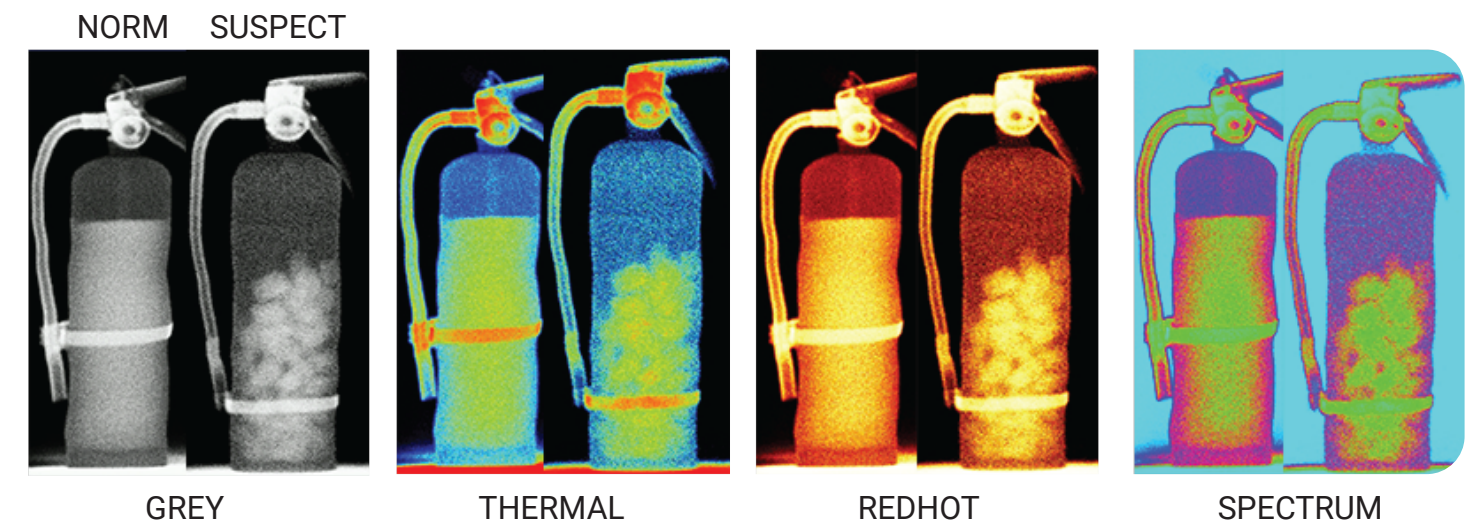
Wood

Scanning Up to 30 cm per second

15 cm per second is the Nominal Scan Speed for a 1:1 Scan Image to Scan Target Object Ratio

Imaging & Analyzing: Superior Imaging Filters

Providing more detail to the Operator regarding Anomalies & Suspect Items detected
Norm Suspect Grey Thermal Redhot Spectrum



Detect and Identify Explosives



M-ION

EXPLOSIVE VAPOUR AND TRACE DETECTOR

M-ION - Explosive Vapour and Trace Detector

M-ION can detect and identify wide variety of explosives including pure explosive, composite explosive in vapour mode under different humidity and pressure conditions. A list of explosives includes TNT, RDX, C4, Semtex, PETN, ANFO, EGDN, Nitroglycerine (NG), Dynamite, DNT, Black Powder and their mixtures.

M-ION can detect the same explosives in the particle mode. The napkin from usual aluminium foil is used for surface wiping. (Special consumables are not required). M-ION is based on Field Asymmetric Ion Mobility Spectrometry. M-ION doesn't contain any radiation sources. Corona discharge is used as the ion source. M-ION has two-circuit system of the air flows: the first for sampling, the second for creation clean and dry background air flow. M-ION does not require the special calibration.

M-ION has a special electrostatic valve for filtering the ions by their polarity. This valve significantly reduces false alarm rate from non-explosive materials. M-ION's warm up time isn't more than 2 minutes. M-ION is easy to use. It doesn't require any professional training. Presence of explosive in the sample is visually presented on the device's LCD display or on any device with Wi-Fi that can work as remote control. M-ION can be used effectively both indoors and outdoors at plus temperatures.

Specifications

Threshold sensitivity in vapor mode (for TN T at 20°C and 80% humidity), g/cm ³	Better than 10 ⁻¹⁴ (1ppt)
Threshold sensitivity in particle mode (for TN T), pg	100
Technology	Field Asymmetric Ion Mobility Spectrometry (F AIMS)
Radiation source	No
Calibration	Not required
Type of ionization	Corona discharge
Explosives detected	RDX, PETN, TNT, Semtex, NG, EDGN and other improvised explosives based on them
Alarm type	Audio and visual, with substance identifi cation
Software Load time	Approx 40 secs
Analysis and results time	2-8 seconds
Sampling distance	Up to 100 mm (3.94 inch)
False alarm rate	Less than 1%
Time of continuous work in standalone mode	Not less than 4 hours
Display	109 mm (4.3 inch) TFT color display with touch screen
Operating temperature	From minus 20(14) to 60(140) °C (°F)
Operation humidity at 25°C (77°F)	95% non-condensing
Operation altitude	Up to 5000 m (16404 ft)
Dimensions (L x W x H)	400 x 160 x 110 mm (15.75 x 6.30 x 4.33 inch)
Weight	2.0 kg



**Detects Signal
and Unwanted
Devices.
Delivers Complete
Security.**



Non Linear Junction Detector

Non Linear Junction Detector

Premises such as defense labs, military stations and the like, which are centres of sensitive information, require a higher level of security and have a greater need to detect unwanted hidden electronic surveillance systems which may go unnoticed under the radar of ordinary surveillance equipment. Godrej Security Solutions' Non Linear Junction Detector (NLJD), bridges that gap perfectly. It is a device that illuminates a small region of space with high-frequency, and is embedded with a detector that has a sensitive receiver tuned for these harmonics. Moreover, it provides appropriate processing and displays to make the presence of these obscure items known to the user of the device.

Since the basis of almost all semiconductor electronics is the p-n junction, an NLJD is correspondingly capable of detecting almost any concealed electronics, whether the electronics are switched on or off. The NLJD keeps a vigilant eye on any lurking threats.



The detector's operation is based on the property of semiconductor components to generate a response at the 2d and 3d harmonics when radiated by a microwave probing signal. Thus, it helps in detecting semiconductors of natural origin as well as artificial origin. Semiconductors of natural origin will have a higher level third harmonic, while semiconductors of artificial origin will have a higher second level harmonic. This makes it a two-pronged security system, tracing both levels of harmonics.

By analysing the 2d and 3d harmonic responses of the radiated objects, the NLJD provides a prompt and reliable identification of electronic devices and natural oxide semiconductors. This assists in uncovering the location of the device, aiding the on field teams to execute their missions with accuracy, even if the device is in the 'switch-off' mode.

A top of the line security equipment, the NLJD is programmed to automatically transmit to a receiving frequency channel, which is free of noise and distortion, resulting in flawless operations even in complicated electromagnetic environments. Digital processing of a demodulated signal used, gives maximum sensitivity.

Equipped with high gain parabolic antenna (20 dB gain at 3600 MHz) and a laser, the NLJD increases the detection range of non linear elements and helps in pinpointing the exact location of a device to which the maximum power of the probing signal is directed.

Specifications

Lornet

- Radiated signal types:
 - Continuous wave carrier
 - Pulse modulated carrier with a duty cycle 1%
- Carrier frequency step 0.2 MHz within a tuning range of (890 - 891) MHz. Automatic frequency selection. Possibility of radiation at the carrier frequency with a minimum noise level in the 2d harmonic receiver path
- Maximum radiated power in the CW mode $\leq 2W$
- Peak radiated power in the pulse mode $\leq 10W$
- Manual or automatic control of the radiated power level. Dynamic control range of 30 dB down from the maximum output power value with 11 level gradations
- Receivers sensitivity better than -150 dBW given a 10 dB signal to noise ratio
- Receivers tuning frequencies equal to the transmitter double and triple frequencies
- Receiving path dynamic range > 70 dB
- Time of continuous operation with a lithium-Ion battery at the maximum radiated power:
 - ≥ 3 hours in the pulse mode
 - ≥ 1.5 hours in the CW mode
 - Unlimited operation time from 220 V mains with a power adapter connected
- Equipped device weight $< 1kg$
- Operating conditions:
 - Ambient temperature $5 - 40^{\circ}C$
 - Pressure 450 mm of mercury



Lornet-36

- Radiated signal types:
 - Pulse modulated carrier with a duty cycle of 0.6%
 - Pulse modulated carrier with a duty cycle of 5% (5 kHz pulse repetition frequency)
- Carrier frequency step 13 MHz within a tuning range of (3581.5-3620.5) MHz, Automatic frequency selection, Possibility of radiation at the carrier frequency with a minimum noise level in the 2d harmonic receiver path
- Maximum radiated power in 0.6% pulse mode $\geq 18 W$
- Maximum radiated power in 5% duty cycle mode $> 18 W$
- Manual or automatic control of the radiated power level. Power control range of 22 dB down from the maximum output power value with 11 level gradations
- Transmitting antenna gain at 3600 MHz ≥ 20 dB with a directional pattern width at -3 dB level $< 16^{\circ}$
- Sensitivity of radio receivers better than -110 dBm (the first LED lights up)
- Receivers tuning frequencies equal to the transmitter double and triple frequencies - 7216.3-7241 MHz and 10744.5 10861.5 MHz respectively
- Receiving path dynamic range ≥ 40 dB
- Time of continuous operation with a lithium-Ion battery at the maximum radiated power:
 - ≥ 3 hours in the 0.6% duty cycle mode
 - ≥ 1.5 hours in the 5% duty cycle mode
- Device weight ≤ 1.3 kg
- Operating conditions:
 - Ambient temperature $5 - 40^{\circ}C$
 - Pressure 450 mm of mercury



A portable security instrument that detects hidden items

Contraband Detector PM2030



Innovating Radiation Detection Technologies Since 1992



Contraband Detector PM2030

Contraband Detector PM2030 of nondestructive examination is a portable security instrument that detects hidden items (drugs, explosives, weapons, currency, etc.) within the closed cavities of transport vehicles, freight containers and other objects.

PM2030 can be applied in field condition, where stationary examination equipment can not be used. The Contraband Detector indicates the presence of sealed radioactive material in any closed volumes (freight containers, automobile tires, doors, bumpers, fuel tanks, train carriages, etc.).

Features

- Surely detects hidden items by depth of scanning to 150 mm
- Vibration alarm from the handle for invisible detection and for work in noisy places
- The device modular design for the scan unit application in hard-to-reach places
- Telescopic extension pole for large objects examination
- Wireless sound alarm by Bluetooth 4.0
- Complies with the requirements of IAEA "Technical and Functional Specification for Border Monitoring Equipment" in gamma-radiation sources search mode

Design

The Contraband Detector features the plastic case and consists of two units: display and control unit and scan unit with rubber handle.



Functions

- Search for illegal objects
- Density indication of illegal object
- Formation of scanned objects library
- Search for gamma-radiation sources
- Data transfer to PC via USB

Application

- Customs and Border Patrol
- Police
- Security Offices

Operation Principle

In the operation mode the detector emits a beam of gamma radiation into the object being inspected and measures the backscatter. PM2030 133 features the build-in radiation source Ba with activity 350-380 kBq (10 μ Ci). The source is housed within the lead safety container-collimator of the scan unit.

The intensity of the backscatter depends on the illegal object features (its density and size). The device is moved along the surface of the object.

The change of the is displayed on LCD and accompanied with light, sound and vibration alarms. The frequency of alarm repetition depends on the size and density of the detected cavity or items.

The lead container-collimator provides the necessary narrow zone of the object radiation during examination and complete protection of the operator from gamma radiation.

Specifications

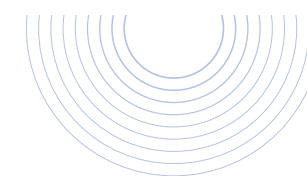
When scanning behind 1 mm steel partition or 15 mm wood partition, with the speed no more than 5 cm/s, PM2030 detects

hidden bars:

- Aluminium 30x30x30 mm
- Polyethylene 70x70x20 mm
- Steel 30x30x10 mm

Power supply

- From two AA (LR6) standard batteries of voltage 1.5 B (-0.3; +0.1) V or
- From two rechargeable batteries of voltage 1.3 B (-0.1; +0.1) V
- From the USB of PC
- external 90-260 V AC 50/60Hz / 5V
- From car's lighter socket via USB adapter 12 V /5V



Reliability

- mean time between failures, at least 20,000 hours
- mean service lifetime, for at least 8 years
- mean recovery time, no more than 60 min

Operation Conditions

- Ambient air temperature -30 up to +50°C
- Relative humidity (at 40 °C and at a lower) up to 98%
- Atmospheric pressure from 84 up to 106.7 kPa

Optional Accessories

- for large objects examination:
- Telescopic extension pole 1.5 m
- Telescopic extension pole 3 m Case
- Wireless head phones (Bluetooth 4.0)

Alarms

- Audio
- Visual
- Vibration

Battery lifetime

(up to low battery warning indication)
no less than 50 hours

Environmental protection

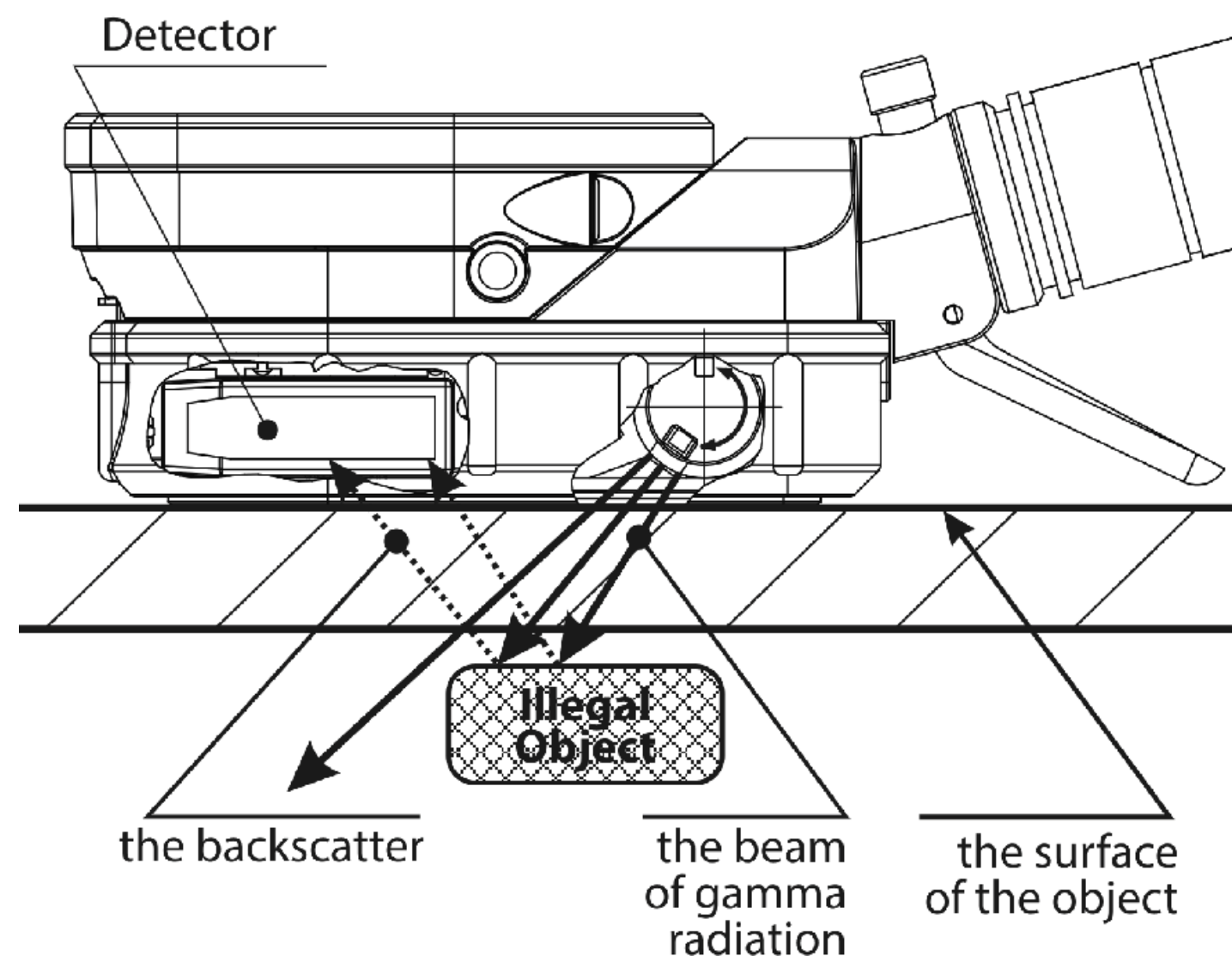
IP65

Weight

no more
1.2 kg

Dimensions,

no more
290x90x100 mm



Portable, Real-time X-ray Scanning System



3D X-ray Threatscan-LS1

- Suspect item inspection • Customs control • Large format panel
- EOD evaluation • Vehicle scanning

ThreatScan-LS1

ThreatScan®-LS1 is a lightweight, portable, battery powered x-ray scanning system designed in co-operation with first responders and EOD teams to meet the needs of the field operative.

Quick and simple to deploy, the system produces high quality real-time x-ray images for rapid and accurate decision making.

The slim detector panel is positioned behind the target; the generator is placed in front.

The scan is activated from the laptop imaging station.

The large 600mm x 460mm imaging area of the ThreatScan®-LS1 enables the operator to scan typical bags and packages in a single scan.

Penetrating up to 34mm steel at 120kV the LS1 produces sub-millimetre resolution images.

A range of sophisticated image processing functions, including materials discrimination, pan, zoom, DeepFocus™, 3D Emboss, measurement and annotation, coupled with high quality images enable the operator to interpret the image quickly and accurately.

The software can also communicate the image on screen to a remote command centre and save images in JPEG and other common file formats.

Ideal for use by First Responders, EOD teams, Counter Surveillance, and Customs and Security Operatives

The system comprises

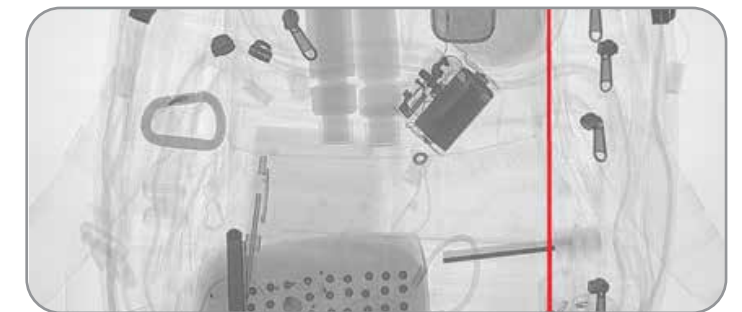
- A large resilient detector panel
- A portable and robust x-ray generator
- A laptop imaging station
- Batteries and chargers
- Wireless communication
- Carry cases
- ThreatSpect software

Features

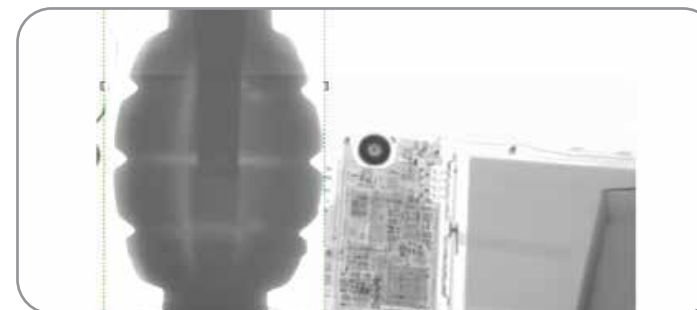
- High penetration with sub-millimetre resolution
- Large area, thin detector panel
- Real-time images
- Designed for rapid deployment and ease of use
- Powerful image enhancement and analysis tools
- Intuitive, user-friendly ThreatSpect software
- Scans to 3mm above floor level



X-ray of drugs in pipes in fuel tank



Comparison with 14"x17" detector

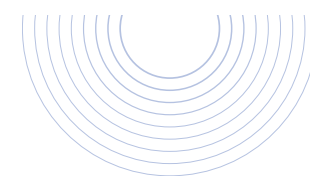


Sub range enhancement function

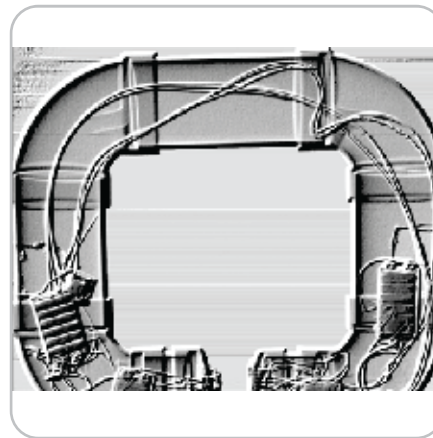


Set of IED devices

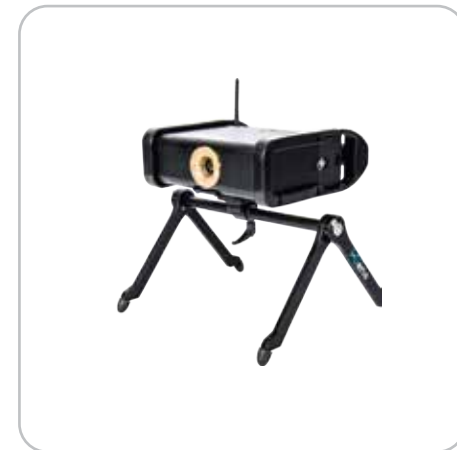
Standard Package	
Large format x-ray detector panel (using linear photo-diode array), 120kV x-ray generator, laptop computer, ThreatSpect software, batteries, chargers, wireless communication and transport cases.	
Options include: tripod, repeater stations, spare batteries and chargers, soft carry cases, wired and fibre optic cable sets.	
X-Ray Detector Panel (LS1)	
Image / detector resolution	1152 pixels, 40AWG, 400 micron
Dynamic range	65536 (16-bit)
Image acquisition / scan speed	5 seconds
Detector dimensions	753mm x 478mm x 25mm (external) (L x H x D)
Imaging / scanning area	600mm x 460mm / scans to 3mm above floor level
Weight	5kg (5.5kg including battery and handle)
Power	Self contained rechargeable lithium ion battery (8-hr standby)
Communication protocols	Wireless 802.11 a/b/g/n Wired or fibre optic options, TCP/IP ethernet
Operating temperature	-20°C to +55°C / MIL-STD-810F 501.4 and 502.4
Storage temperature	-40°C to +80°C / MIL-STD-810F 501.4 and 502.4
Humidity	0% to 95% non-condensing
X-Ray Generator Panel (I-Gen)	
Type	1mA constant potential 120kV (adjustable 40-120kV)
Focal spot size / Beam angle	0.5 x 0.5mm / 40° x 40°
Pre-warn	0-99 seconds
Power	Self contained rechargeable cells (2500mAh)
Up to 225 images on one charge (2 hour charge)	Mains power option
Penetration	30mm guaranteed, 34mm typical
Weight (without battery)	5.5 kg (6.5kg including battery and handle)
Size (L x W x H)	245mm x 180mm x 80mm
Communications	
Wireless (as standard)	802.11g / up to 120m range (extendable with repeaters)
Fibre optic (option)	100m, 150m, 200m
Ethernet (option)	25m, 50m
Imaging Station*	
Type	Laptop computer (ruggedised / tablet options available) * PC specification to be confirmed and agreed at order stage
Processor	Intel Core i5-4200U, Dual Core
Display	15.6" Full High Definition (1366x768) LED Display with AntiGlare
Memory	4GB 1600MHz DDR3L (RAM)
Hard Drive	500GB Serial ATA Hard Drive
Operating System	English MS Windows



Software Features	
	Adjustable x-ray source parameters (kV, mA & time)
	Standard, Inverted and False Colour images
	Rotate, Histogram, Pan, Zoom, DeepFocus™
	On-screen Measurement and Annotation (options)
	Materials Discrimination and 3D Emboss (options)
	Image Stitching (option)
	Multi-file format import (option)
	Multi-touch functionality for tablet based operation (option)
Safety	
	Physical safety interlock plus key switch
	Audible & visible warning signs
	CE compliant
Certification & Codes	
NATO	Codification NSN 6350-99-464-9827



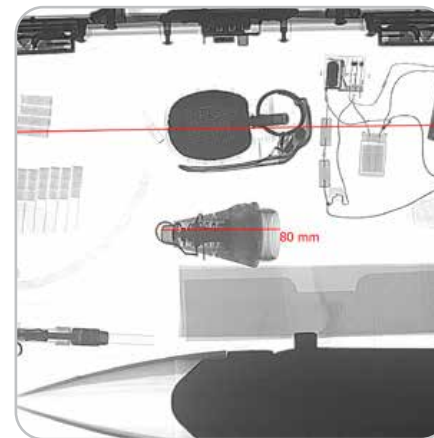
3D Emboss



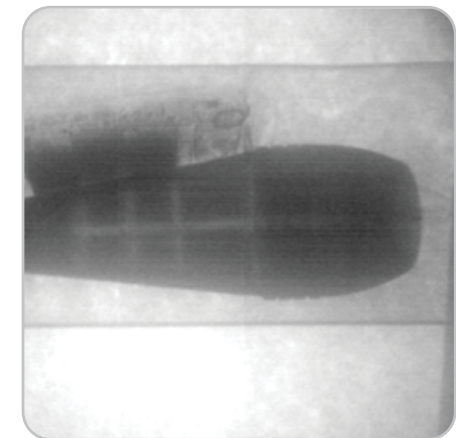
Optional I-Gen stand
(360° rotation)



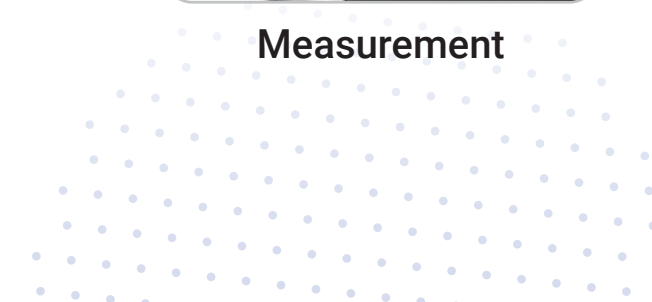
Materials
discrimination



Measurement



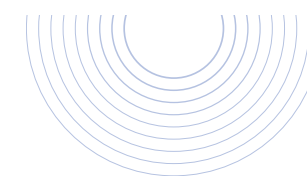
Superb penetration -
25cm concrete



Portable, Real-time X-ray Scanning System



**ThreatScan®
AS1-XRS3**



ThreatScan® AS1-XRS3

ThreatScan® AS1-XRS3 is a lightweight portable amorphous silicon x-ray scanning system. It offers high flexibility in deployment to meet the wide variety of user applications and threat scenarios.

Quick and simple to deploy and use, the system produces extremely high quality, sub-millimetre resolution images in real-time for rapid and accurate decision making.

The slimline detector panel is positioned behind the target, the generator is placed in front and the scan is activated from the imaging station.

The 43 x 35cm imaging area of the panel enables the operator to scan typical bags and packages in a single scan.

A range of sophisticated image processing functions (including materials discrimination, pan, zoom, DeepFocus™, 3D Emboss, measurement and annotation) coupled with high quality images enable the operator to interpret the image quickly and accurately.

The software communicates the image on screen and images can be saved in proprietary TSM, JPEG and various other common file formats.

The standard package comprises an amorphous silicon x-ray detector panel, x-ray generator, laptop computer, ThreatSpect software, batteries, chargers, wireless communication and transport case. Options include tripod, repeater stations, spare batteries and chargers, soft carry cases, wired and fibre optic cable sets.

Ideal for use by First Responders such as Police, Military and private and Government security agencies, EOD teams, Counter Surveillance, and Customs and Security Operatives

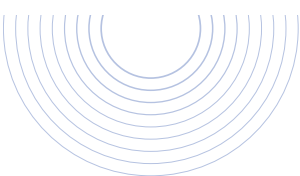


The system comprises

- A robust amorphous silicon detector panel
- A portable x-ray generator
- A laptop imaging station
- Batteries and chargers
- Wireless communication
- Transport case
- ThreatSpect software

Features

- High penetration with sub-millimetre resolution
- Thin amorphous silicon detector panel
- Real-time images
- Designed for rapid deployment and ease of use
- Powerful image enhancement and analysis tools
- Intuitive, user-friendly ThreatSpect software



Specifications

X-Ray Detector Panel (amorphous silicon AS1)	
Image / detector resolution	13.5M pixels (4070 x 3280), 4.5lp/mm
Dynamic range	A/D conversion: 16-bits
Detector dimensions	460 x 378 x 15mm (external, LxHxD) / drop tested 1m
Detachable handle	detachable handle, portrait and landscape (2 sides)
Imaging / scanning area	35 x 43cm (14" x 17") / 5mm dead space bottom & right side
Weight	3.7kg (including battery and handle)
Power	Self contained rechargeable cells
Communication protocols	Wireless 802.11 a/b/g/n/ac (WiFi standard at 2.4/5GHz)
Temperature (operating)	-20°C to +55°C
Humidity (operating)	10 ~ 100% R.H. (non-condensing)
Weight on panel	Point 150kgf @ Ø 40, Whole 300kgf
Ingress protection (IP) - water / dust	IP67
X-Ray Generator (Golden)	
Max Energy	270kVp
Power	18.20V Li Ion
Weight (with battery)	5.4kg
Size (LxWxH)	392 x 108 x 48mm
Communications	
Wireless (as standard)	802.11g / up to 120m range (extendable with repeaters)
Fibre optic (option)	100m, 150m, 200m
Ethernet (option)	25m, 50m
Imaging Station*	
Type	Laptop computer (ruggedised / tablet options available) *
Processor	Intel Core i5-4200U, Dual Core
Display	15.6" Full High Definition (1366x768) LED Display with Antiglare <small>specification to be confirmed and agreed at order stage</small>
Memory	4GB 1600MHz DDR3L (RAM)
Hard Drive	500GB Serial ATA Hard Drive
Operating System	English MS Windows
Software Features	
	Adjustable x-ray source parameters
	Standard, Inverted and False Colour images
	Rotate, Histogram, Pan, Zoom, DeepFocus™
	On-screen Measurement and Annotation (options)
	Materials Discrimination and 3D Emboss (options)
	Image Stitching (option)
	Multi-file format import (option)
	Multi-touch functionality for tablet based operation (option)
Safety	
	Physical safety interlock key switch
	Audible & visible warning signs
	CE compliant
Certification & Codes	
NATO	Condification NSN 6350-99-959-6054



Locate Moving People Behind the Walls in Real Time

GPR-Detector

FOR LOCATING MOVING PEOPLE
BEHIND THE WALL

GPR-Detector RO-900

RO-900 is a small, portable device designed to locate people hidden behind reinforced concrete, brick and multi-layer walls.

RO-900

RO-900 allows its operators to quickly receive crucial information about location, distance and movement of a given target. It also can detect someone breathing, which makes it especially useful during search and rescue operations; for example in the case of an earthquake or other destructive natural disasters. The RO-900 is portable and miniature size makes it highly functional and extremely easy to operate in almost any situation.

Specifications

14 meter detection range

Running time 4 hours

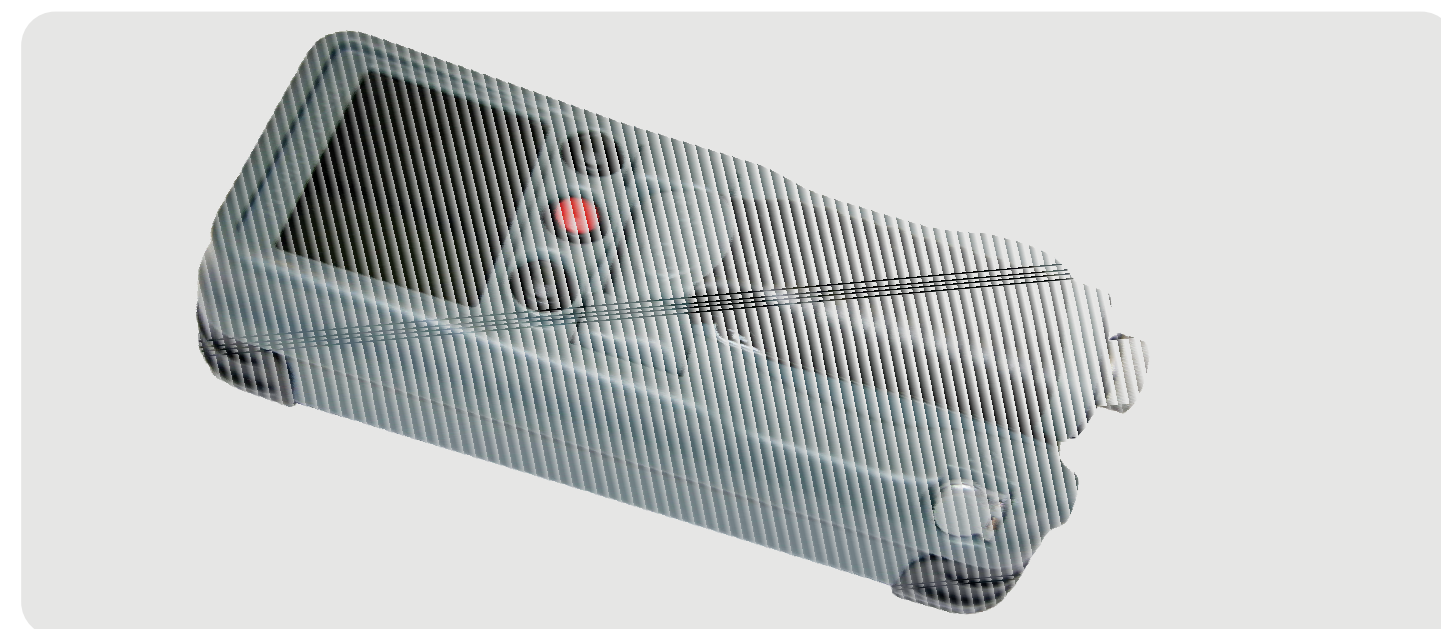
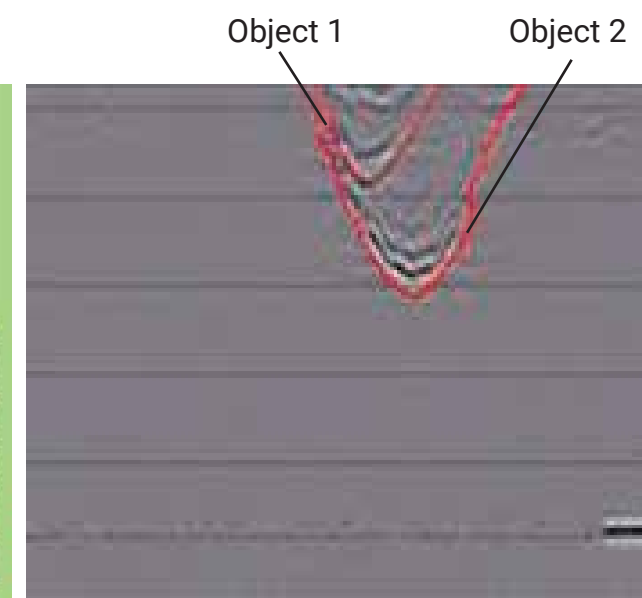
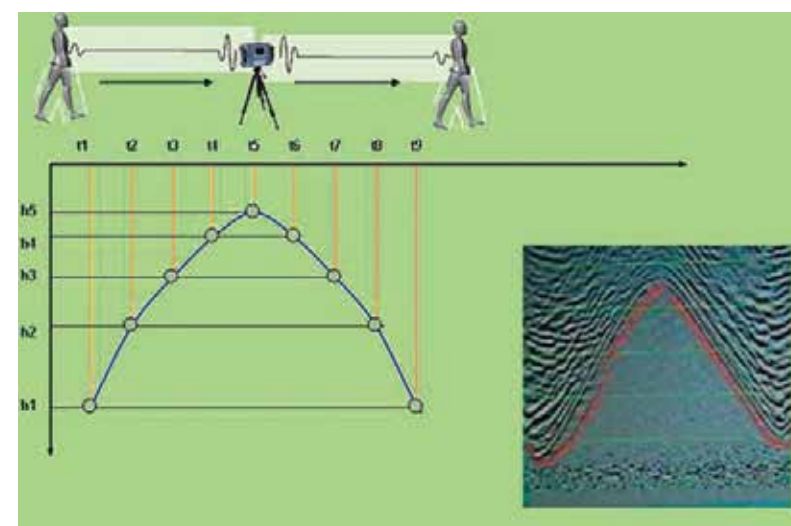
Central frequency 900 MHz

Temperature range - 20°C ... +45°C

Dimensions 245x104x78 mm

Environmental IP66

Weight 0.8 kg



RO-400

GPR RO-400 provides information about the presence of people behind brick, concrete (including thick reinforced concrete) walls. RO-400 can detect objects behind several walls. The equipment can find the objects caches in the soil at depths up to 5 m

- Wireless video for remote display
- Operable at a safe distance from a wall
- (up to 100 meters within the line-of-sight coverage)
- Two operating modes (Moving Object Detection mode and Search GPR mode)

Specifications

- 21 meter detection range
- Central frequency 400 MHz
- Resolution 0,15 m
- Dimensions 396x290x155 mm
- Weight 4.4 kg
- Running time: 4 hours
- Temperature range - 20°C ... +45°C
- Environmental IP66

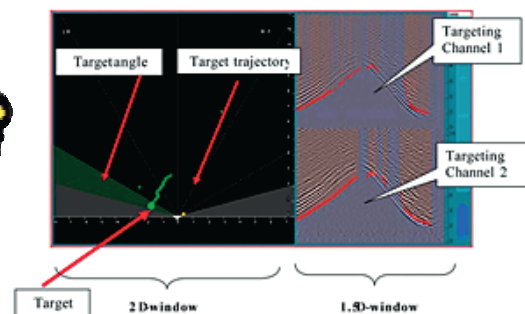


RO-400 (2D)

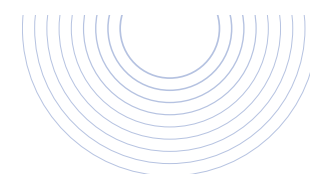
- 2D image
- Wireless video for remote display (optional)
- Operable at a safe distance from a wall (up to 100 meters within the line-of-sight coverage)
- Two operating modes (Moving Object Detection mode and Search GPR mode)

Specifications

- Resolution 0,15 m
- 21 meter detection range
- Central frequency 400 MHz
- Dimensions 960x290x155 mm
- Weight 5.8 kg
- Running time: 4 hours
- Temperature range - 20°C ... +45°C
- Environmental IP66



Screen capture of GPRRO-400 (2D)



GPR-DETECTOR

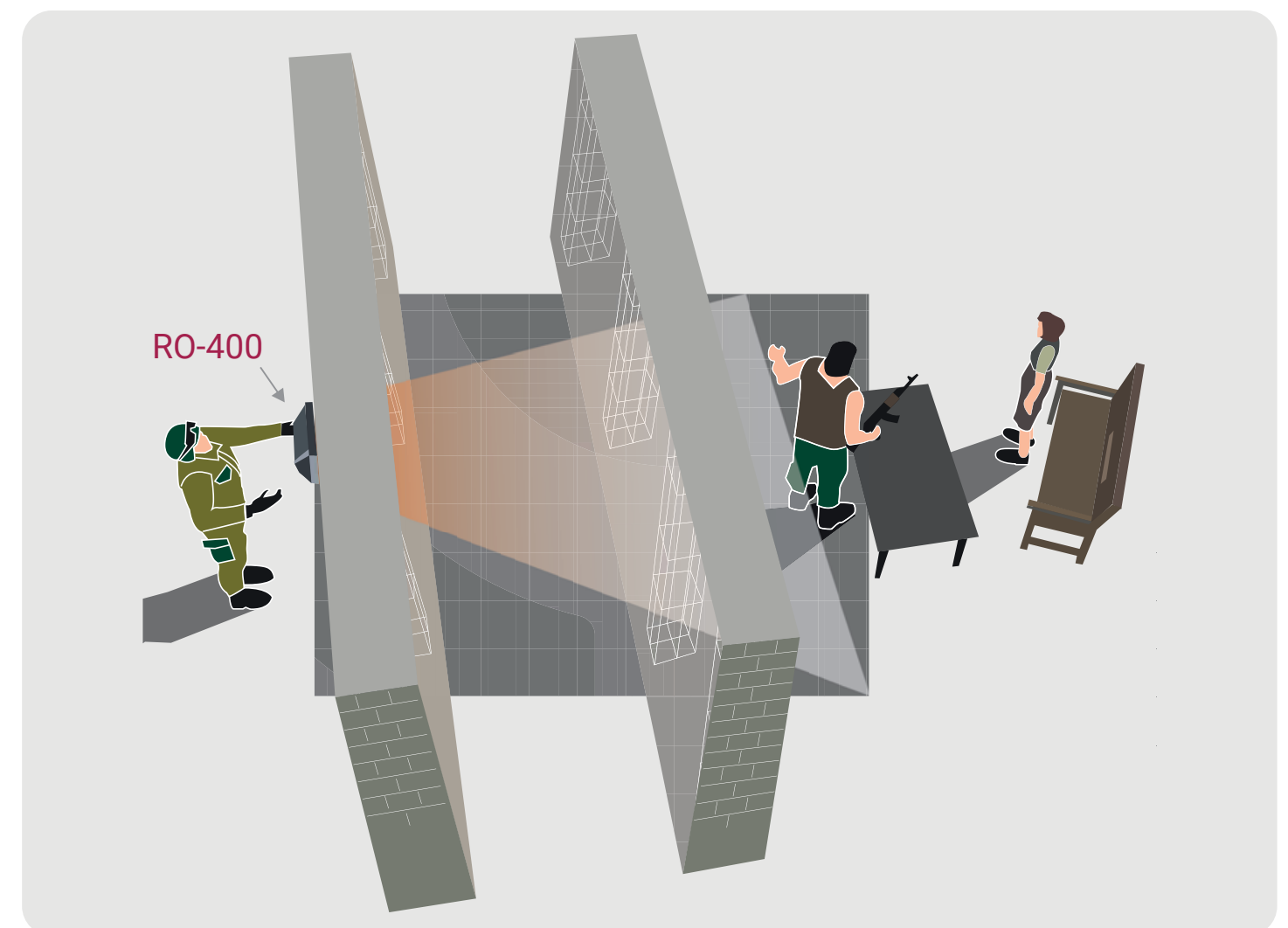
GPR-Detector is a portable and easy-to use GPR (Ground Penetrating Radar) solution, designed for locating moving people behind several reinforced-concrete walls and multi-layer building constructions in real time

Features

- Locates people behind several reinforced concrete walls of up to 0.6 meters thick and multi-layer building constructions
- Detects movement of people through several walls or/and other types of obstacles in real time
- up to 21 meter detection range
- User-friendly interface
- Wireless video for remote display (optional)
- Operable at a safe distance from a wall (up to 100 meters within the line-of-sight coverage)
- Two operating modes (Moving Object Detection mode and Search GPR mode)

Applications

- Detection of moving people behind reinforced concrete walls
- Detection of caches
- Detection of holes, underground communication passes, hideouts
- Detection of contraband criminal disposals, etc
- Detection of mine-explosive devises, including uncased ones or those in non-metal cases, placed in building constructions as well as under roads and railways.



Handheld Identification Made Easy



**Serstech
100 Indicator**



Complex Technology Made Easy

Identify any solid or liquid chemical substance in seconds using Raman technology. The Serstech 100 Indicator is easy to use, truly hand-held and insensitive to water. The sample does not need to be removed from its container and will not be destroyed or tampered with by the analysis.

Validated, Data-Enriched and Complete Libraries

All libraries have been created or validated by our chemists using the Serstech 100 Indicator. Every substance has relevant GHS symbols, CAS numbers and in many cases rich text explaining the properties of the substance. All information is easy to understand and provides instant feedback and decision support.

Explosives

Includes military and civilian explosives, IEDs, precursors and oxidants.

Narcotics

Narcotic and psychotropic substances from the UN Yellow and Green lists, including precursors.

Hazardous Chemicals

Contains more than 2000 TICs (Toxic Industrial Chemicals) and other toxic or hazardous materials.

Chemical Warfare Agents

Identification of blister, blood, nerve and choking agents, and their precursors.

Pharmaceuticals

Tailormade library developed for and together with pharmaceutical companies.

The Most Cost-Effective Raman Solution

- All-in-one solution with one instrument for all types of chemicals
- No consumables, no factory calibration, no maintenance cost
- Updates of software and substance libraries included
- Rechargeable battery lasting more than eight hours
- Create libraries and add your own substances
- Quick and easy to decontaminate
- Training done in hours



Management and Reporting Software Included

Manage, expand and name custom substance libraries with ChemDash software. Create reports and export measurements for further analysis. Manage user accounts and set user privileges to secure chain-of-evidence. Use on a PC or in the cloud.

Low Weight, Safe and Easy to Use

The Serstech 100 Indicator makes the every-day work safer, easier and more efficient for:

- Police authorities • Bomb squads • Border control • Hazmat teams
- Fire departments • CBRN readiness teams • Prison authorities
- Pharmaceutical companies • Environmental protection agencies

A user interface designed to be used while wearing protective gear

IP67 and easy to decontaminate

Identify virtually any chemical in seconds

Intuitive colors and symbols, can be used by anyone

Robust and reliable under any conditions



Serstech 100 Indicator

Instrument type	Handheld Raman spectrometer
Laser excitation wavelength	785nm
Laser output power	3 levels available, max 300mW
Max spectral range	400 cm ⁻¹ to 2 300 cm ⁻¹
Spectral resolution	8-10 cm ⁻¹
Detector type	Linear CCD Array
Display	3.5" transmissive color TFT with LED backlighting.
Memory	100 000 measurements (16 GB)
Data formats	Text; .txt, .csv, .jcamp
Connectivity	USB 2.0. WiFi and Ethernet (optional).
Battery	Rechargeable. More than 8 hours of typical use. Can be extended with standard mobile power banks.
Weight	650 g (1.4 lb)
Size	15.8 cm x 10.1 cm x 2.9 cm (6.2" x 4.0" x 1.1")
Operating temperature	-20 °C to +50 °C
Storage temperature	-30 °C to +50 °C
Included accessories	Instrument, watertight case, shoulder strap, USB cable, laser aperture cap with calibration target, sample vials, point-and-shoot adapter, vial holder, 90° angle adapter, attachment point, AC Adapter 5 VDC/1 A USB for Charging.
Optional accessories	Connection kit with Ethernet and WiFi.
Start-up time	Less than 20 sec.
Exposure	Auto-exposure or manual exposure, 0.001 – 60 seconds.
Libraries	The total number of substances is more than 14 000 and libraries provided are Explosives, including precursors; Narcotics including cutting agents, masking agents and precursors; Chemical Warfare Agents, including simu-lants; Hazardous materials, including toxic industrial chemicals and Pharma- ceuticals with a wide range of active pharmaceutical ingredients.
Warranty	1 year. Additional warranty optional.
MTBF	50 000 h
Relative humidity	5-90%
Approvals	CE, IEC 60529 IP67, MIL-STD-810G 514.6 (vibration), MIL-STD-810G 516.6 (functional shock)
Supported languages	Chinese, Danish, English, French, German, Indonesian, Japanese, Russian, Spanish, Swedish and Turkish.
Software included	ChemDash
Type of substances	Solid, liquids, powders and tablets.
Mixture analysis	Yes
Delay function	Yes, 1 second to 15 minutes.
Additional features	User authorisation, event logging, scan time delay, user-defined libraries, user-added substances.

Three-Sensor Detector For Mines And Wires



GMWD-1200

GMWD-1200

The GMWD-1200 is a three-sensor detector designed for detection of metal and metal-free mines and short wires. This instrument functions in 3 modes: Ground Penetrating Radar (GPR), Metal Detection (MD) and Wire Detection (WD).

Features

- Detection of IEDs in both metal and plastic casings.
- Detection of short wires
- Three modes - Ground Penetrating Radar (GPR), Metal Detection (MD) and Wire Detection (WD)
- Independent or simultaneous operation of GPR, MD and WD
- Audio, visual and vibro signal
- Ultra High Sensitivity
- Selection of metal objects
- Waterproof up to 1 m water depth (only search head)
- Soil compensation
- Visual display readable during day and night
- Lightweight, portable, foldable, resistant design
- Friendly interface
- Operable with either hand

GMWD is a leading-edge technology detector, combining GPR, MD and WD into one Search Head. Its unique configuration equips the operator with highly reliable information about the presence of objects and wires.

The device can operate either as a Metal Detector, a Ground Penetrating Radar or Wire Detector, or as all in one system in its combined mode.

Indication and
Control Unit

Wire
Detector

Ground
Penetrating
Radar

Metal
Detector



Specifications

GPR mode	
Maximum Detection depth	1,0 m
Detection depth for anti-tank mines in plastic and metal casings of TM-62P, TM-62M	0,5 m
Detection depth anti-personnel mines in plastic casings of PMN-2	0,2 m
Resolution	0,05 m
Central Frequency	1200 MHz
Metal Detector mode	
Detection depth for anti-tank mines TM-62M	0,5 m
Detection depth for anti-personnel mines PMN-2	0,2 m
Determine the center of mine	0,05 m
Wire Detection mode	
Detection depth for wires with the minimum length 1 m	0,15 m
Waterproof (only search head)	1 m
Power sources: - rechargeable power supply unit - battery power supply unit	NiMH 10 pieces of AA-1.5 V type
Weight - ready for operation	3,550 kg
Telescopic bar length	1,5 m
Running time (using one rechargeable battery unit)	8 hours
Setting time	1 min
Temperature range	-30°C до +50°C
Environmental	IP 66
Transport case	980x450x170 mm

The GPR detects objects whose electrophysical properties differ from that of the surrounding medium. This mode also is able to determine accurate positions and depth of metal-free and metal objects.

The MD searches for metal objects and selects targets ranging from non-ferrous metals to iron. The MD allows its user to locate minimum metal mines and select different types of object.

In the WD mode an operator can find short wires (the minimum length 1 m).

Visual information from the MD, GPR and WD is displayed on the Indication and Control Unit, wherein the operator can select the most pertinent information to evaluate during operation. The device has the capability to store this or any information in its internal memory (up to 2 GB).

The GMWD-1200 also can detect in underwater, submerging the hermetic Search Head to a depth of 1 m.

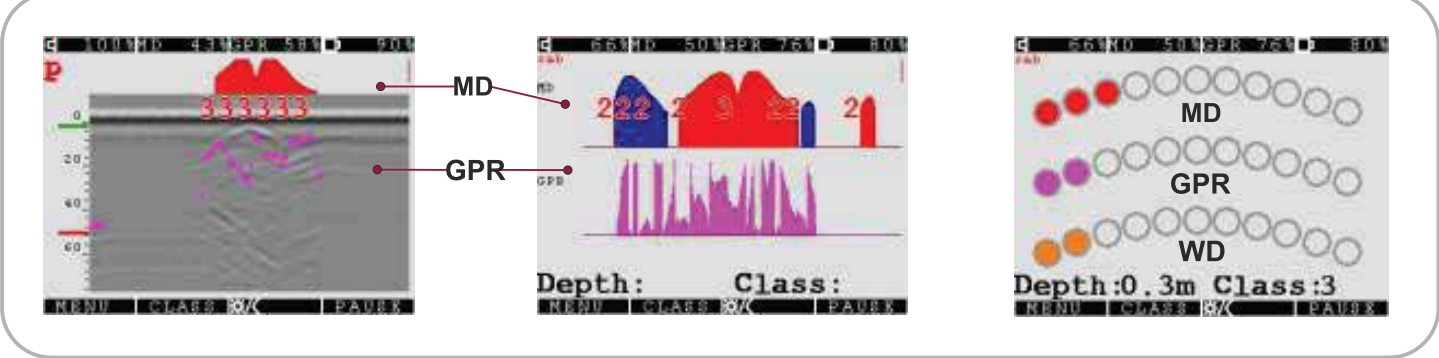


Two batteries can be charged simultaneously, with a gauge displaying battery levels available at all times.

Selection (OK)
Navigation (↑ and ↓)
Return/exit (ESC)



Data at the Screen



GMWD-1200 in the case



Your Complete Defence Against Drone Intrusions



PORTABLE AND INTEGRATED ANTI DRONE SOLUTION





CHIMERA
CERBAIR

Godrej

Portable and Integrated Anti Drone Solution

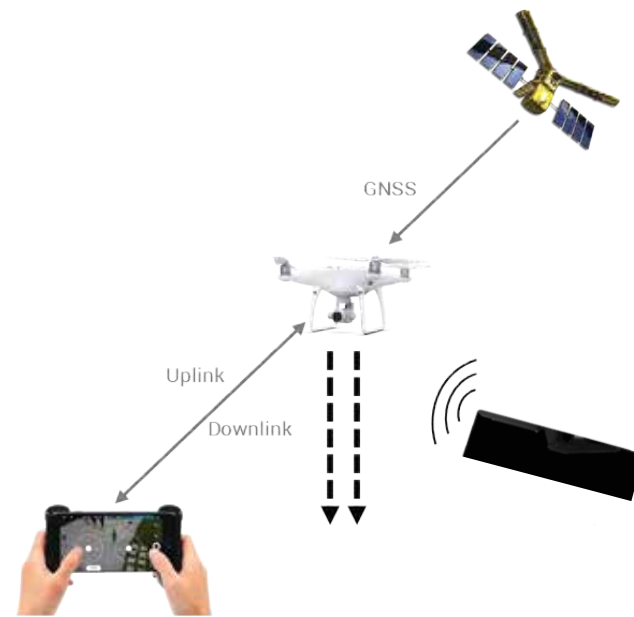
CHIMERA fights the widespread drone threats by offering security operators a complete, high performing, integrated, extremely mobile and highly configurable solution. Pioneering a unique integrated and dynamic operational concept, CHIMERA is the interoperable anti drone « Swiss army knife »

Specifications

Manpack		
Omni Detection Range	1 km	
Action On RF Spectrum	Omnidirectional and passive detection on 2.4/5.8 GHz	
Installation	On tactical vest	
Dimensions	28 x 31 x 8.5 cm	
Weight	8 kg	
Norms	IP65, MIL STD 810G and MIL STD 461G	
Operation Temperature	-20°C to +49°C (-4°F to 120°F)	
Power Source	Standard militarized battery with hotswap compativibility (4h detection / 1h jamming)	
Audio	Jack port for audio alerts	
Rugged Smartphone		
Model	Protected S10	
Control	Tactile	
Operating System	Android 7	
Dimensions	L187 x I95 x h20 mm	
Weight	400 g	
Norms	IP-68	
Operation Temperature	0°C to +35°C (32°F to 95°F)	
Effector		
Direction Finding Range	2 km	
Action On RF Spectrum	Passive direction finding on 2.4 / 5.8 GHz Jamming on 2.4 / 5.8 GHz / L	
Activation	Manual	
Degraded Mode	Integrated control panel with key func - tions	
Weight	5 kg	
Norms	MIL STD 810G and MIL STD 461G	
Operation Temperature	-20°Cto +49°C (-4°F to 120°F)	

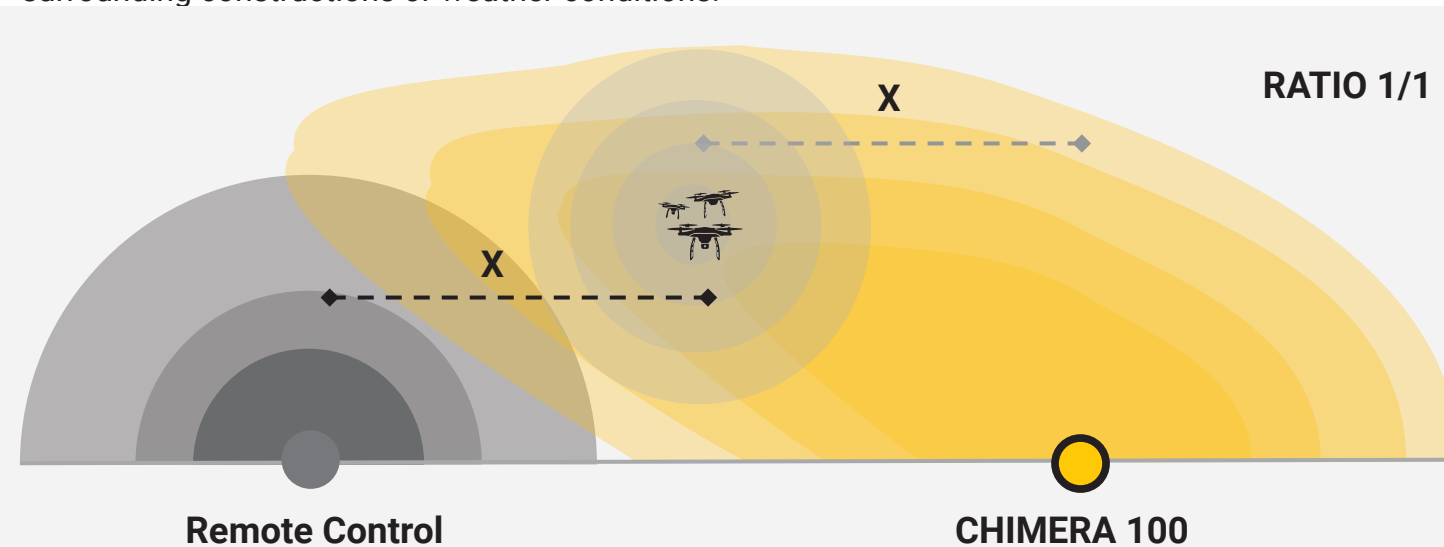
How jamming affects drones

- Jamming interferes with the communications that drones rely on, namely the uplink, downlink and GNSS reception.
- Once one or several of these channels is jammed, the drone automatically triggers its emergency procedure that its pilot chose before take-off:
 - Safe landing.
 - Return to Home.
 - Hover until battery is depleted, then safe landing.
- If GNSS reception is also saturated, the drone will not be able to Return To Home and will therefore trigger its safe landing by default



Range

Several factors can impact neutralization ranges such as the distance ratio [CHIMERA - Drone] / [Drone - Remote Control], the drone model, local RF pollution, topography, surrounding constructions or weather conditions.

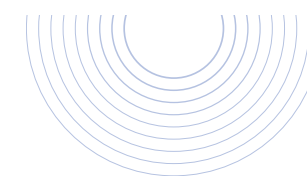


 <p>Battery</p> <ul style="list-style-type: none"> • BT-70757BV • Li-Ion • Certified by US DoD • 105 x 37 x 99 mm • 0.54 kg • Capacity: 24 V / 3.4 Ah 	 <p>Battery Charger</p> <ul style="list-style-type: none"> • BTC-70791-MR • Powered in 100 - 240 Vac, 200 VA, 50/60 Hz • 84 x 56 x 51 mm • 0.50 kg
 <p>MOLLE conversion plate</p> <ul style="list-style-type: none"> • Mounts the manpack on the tactical vest • Quick release • MOLLE attachment points 	 <p>MOLLE clips and Sling</p> <ul style="list-style-type: none"> • Clips to attach the plate to the tactical vest • Sling to transport the Effector
 <p>Smartphone mounting</p> <ul style="list-style-type: none"> • Armor Mounted 5 Series • Compatible with Juggernaut Sleeves 	 <p>Transport cases</p> <ul style="list-style-type: none"> • Transport case for CHIMERA and its Accessories
 <p>Long endurance battery</p> <ul style="list-style-type: none"> • BB-2590/U • Li-Ion • Certified by US DoD • 112 x 61 x 127 mm • 1.40 kg • Capacity: 24 V / 7.5 Ah 	 <p>Multi-battery charger</p> <ul style="list-style-type: none"> • BTC-70819-1 • Powered in 22 V – 33 V DC, 13 A, 90 – 260 Vac, 47 to 440 Hz • 349 x 261 x 194 mm • 5.90 kg
 <p>Tactical Vest</p> <ul style="list-style-type: none"> • Material: Nylon 500D • Water resistant • Can hold 2 SAPI plate • GrabDrag handle • MOLLE attachment points 	 <p>Earpiece & maintenance cable</p> <ul style="list-style-type: none"> • Earpiece to hear audio alarms • Maintenance cable for remote update

Enhanced Vehicle Screening for Fast and Accurate Monitoring



GSCAN - Under Vehicle Scanning System (UVSS)



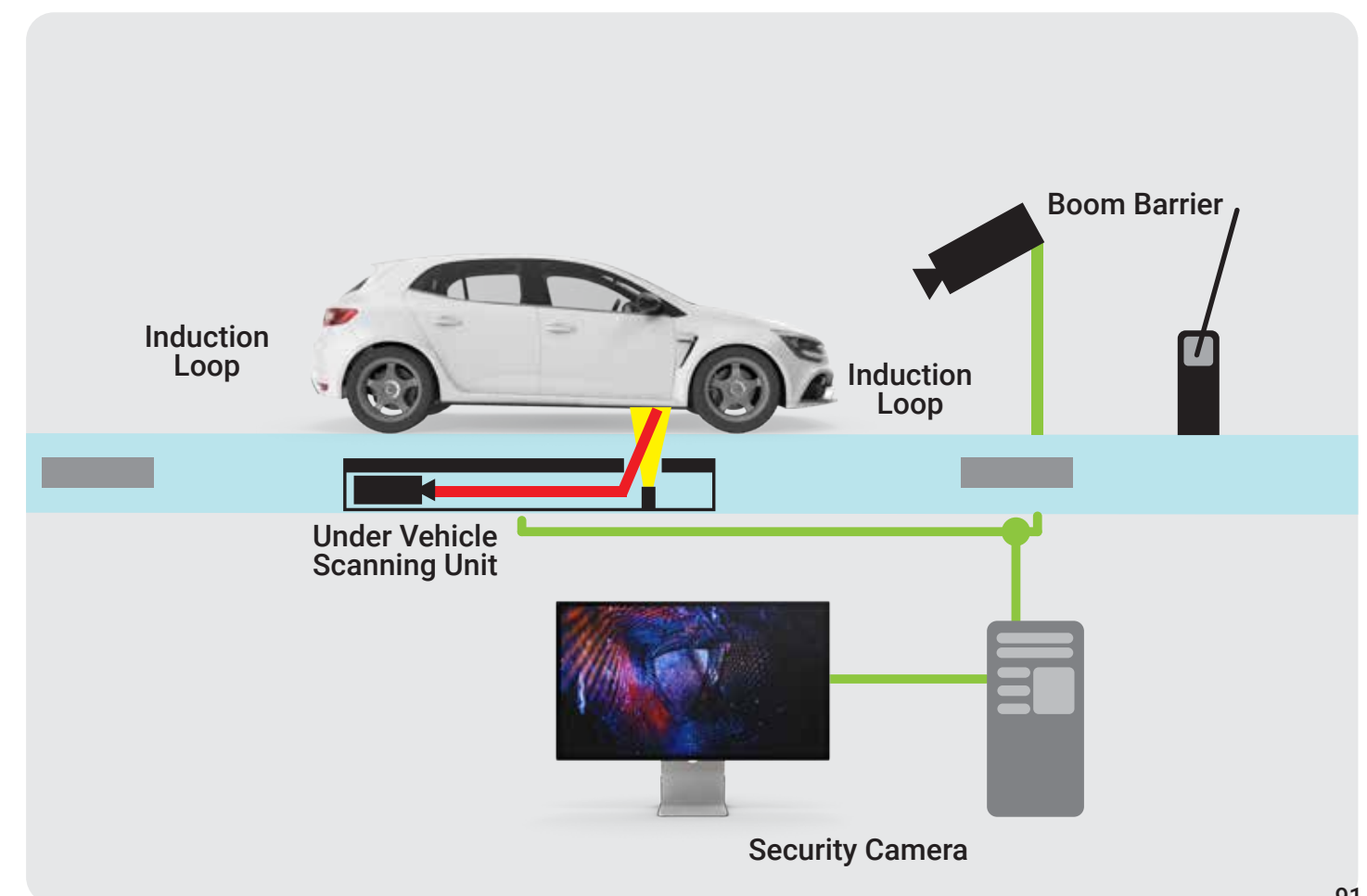
GSCAN - Under Vehicle Scanning System (UVSS)

GSCAN UVSS Area Scan captures a very high resolution and complete composite underbody image of any vehicle passing over it using a single high-resolution area - Scan GigE IP camera without requiring the vehicle to stop.

Shall give a real-time output of all the data simultaneously, i.e. the composite image, driver photos, vehicle front image and license plate display & all shall be displayed on the monitor almost instantaneously.

Features

- Scans underside of moving vehicles (upto a speed of 20 Kmph) and produces a high quality image, in real-time
- Waterproof camera and lights
- ANPR (Automatic License Plate Recognition) and image camera compatible
- Keyword search in database & Image Comparison
- Can be Integrated with Bollards/Boom Barriers /RFID Detectors tyre killer etc.
- LED's are rated for 100.000 operating hours
- All steel ramp with 40-ton capacity for heavy-duty performance
- Scans vehicles of all length and breadth
- User Friendly - All windows functions Including multi-user access - easy to use by any laymen & Real-time watch over by supervisor/manager
- Windows Based- Ease of access- Centralized data-Variety of tags/in dexes for data analysis
- Can be integrated with all databases and Organizational Networks on almost all platforms
- High-resolution long-life color vision system
- Easy hose-down cleaning of camera and LED's
- CE Certified



Specifications

Main Camera	Sensor Type	CCD/CMOS
	Scanner Type	Area Scan
	Resolution	1280 x 1024 pixels
	Video Format	Gige
	Housing	IP 68
	Power supply	POE
	Maximum vehicle speed	20 KM/H
Structure	Dimension	1.8MT X 1MT
	Material	Structure Stainless Steel
	Finish	Multi Layered Epoxy
Processing Unit	Processor	I7
	RAM	16 GB
	Storage	1 TB

* Optional :AUTOMATED LICENSE PLATE RECOGNITION SYSTEM (ALPRS) -System shall perform OCR (Optical Character Recognition) of the license plate characters.



Enhanced Vehicle Screening for Fast and Accurate Monitoring



3D GSCAN - Under Vehicle Scanning System (UVSS)

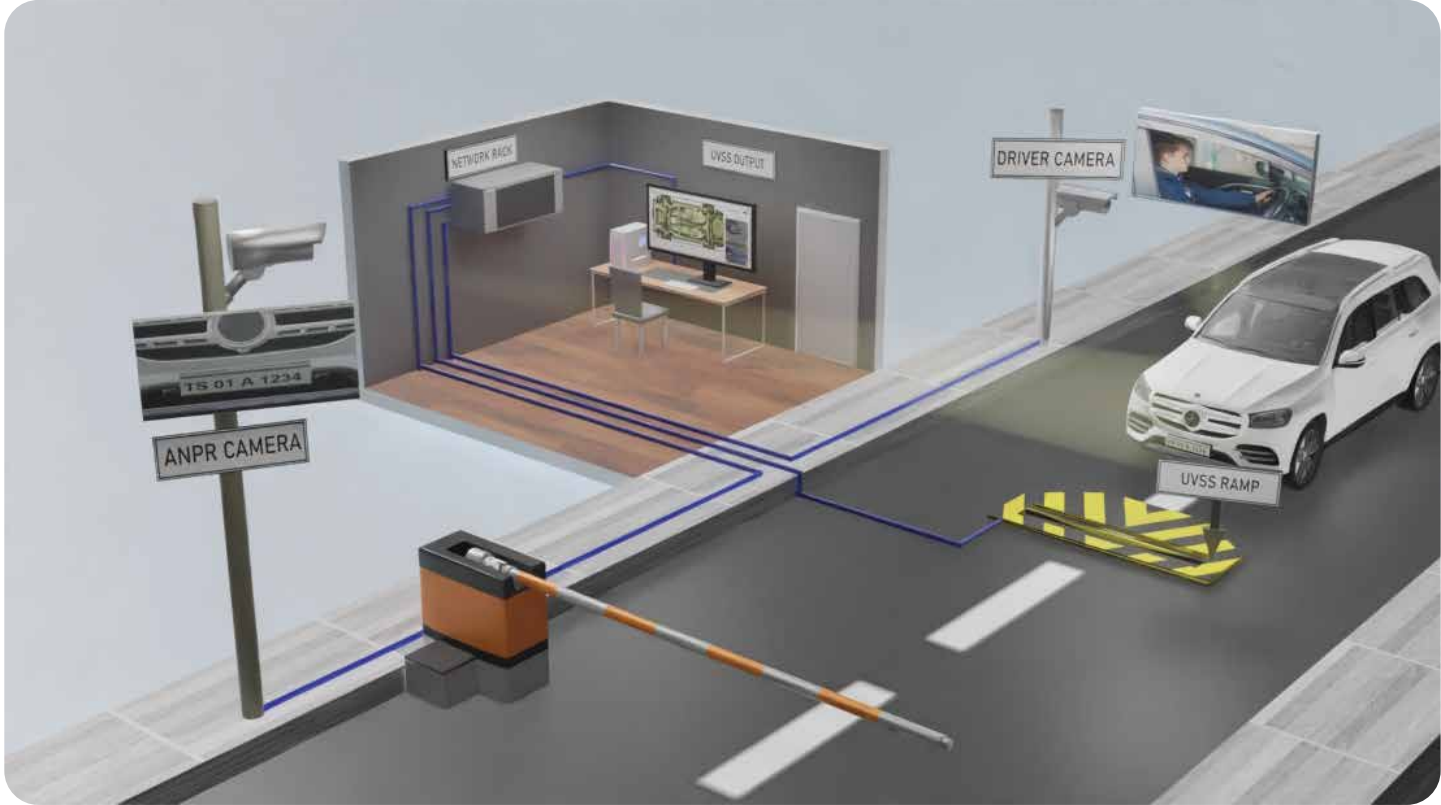
GSCAN - Under Vehicle Scanning System (UVSS)

The GSCAN UVSS 3D Area Scan system utilizes advanced technology to capture a comprehensive and high-resolution composite color underbody image of vehicles as they pass over it. This is achieved through the use of Two high-resolution GigE IP Cameras specifically designed for Area scanning. Importantly, the system does not require the vehicle to come to a stop for the image to be obtained.

The GSCAN system provides real-time simultaneous output of various data elements, ensuring quick and seamless access to critical information. This includes the composite image of the underbody, driver photos, vehicle front image, and license plate display. All of these components are displayed almost instantaneously on the monitor, allowing for efficient and immediate analysis and decision-making.

Features

- Scans underside of moving vehicles (upto a speed of 20 Kmph) and produces a high quality image, in real-time
- Waterproof camera and lights
- ANPR (Automatic License Plate Recognition) and image camera compatible
- Keyword search in database 8 Image Comparison
- Can be Integrated with Bollards/Boom Barriers /RFID Delectors tyre killer etc.
- LED's are rated for 100.000 operating hours
- All steel ramp with 40-ton capacity for heavy-duly performance
- Left and Right view Images of the vehicle
- User Friendly - All windows functions Including multi-user access - easy to use by any laymen & Real-time watch over by supervisor/manager
- Windows Based- Ease of access- Centralized data-Variety of tags/in dexes for data analysis
- Can be integrated with all databases and Organizational Networks on almost all platforms
- High-resolution long-life color vision system
- Two adjustable LED lights to focus on the under chassis area for precise illumination and clear visibility of the undercarriage during inspections.
- GSCAN UVSS is over all tested and CE Certified

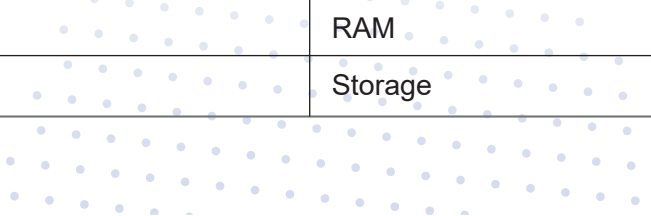


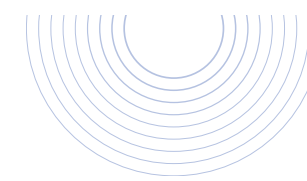
Specifications

ANPR/ Driver Image view Camera Specifications

ANPR / Driver Camera		
	Effective Range	15 Meters for Frontal camera & 8 Meters for Driver camera
	Camera Resolution	30fps @ 2.1 Mega pixel
	Camera gain and shutter	Adjustable 1/100 to 1/10000 sec
	Lens	5-50 mm Vari focal
	Power Consumption	<12W
	Power Supply	12 V DC
	Operating Temperature	-10°C to +55°C
Software Specificcation		
	Supported OS	Windows
	Type of Plates	Recognition for English fonts
	Image Input	Still Image or Live Video Input

Main Camera	Sensor Type	CCD/CMOS
	Scanner Type	Area Scan
	Resolution	1280 x 1024 pixels
	Video Format	Gige
	Housing	IP 68
	Power supply	POE
	Maximum vehicle speed	20 KM/H
	Field of view	> 180
	Format	GIGE Vision Compliant Specification
	Composite Image resolution of the Underside	3 Mega Pixel or higher
	Camera Certification	CE
UVSS Frame	Dimension	2 Meters X 1 Meter
	Frame	Mild Steel
	Ramp	Stainless Steel
	Top Finish	Multi Layered Epoxy
Processing Unit	Processor	i7
	RAM	16 GB
	Storage	2 TB





Portable Compact Under Vehicle Scanning System



NuvoScan® (P) Compact

GMWD-1200

Vehant Technologies is a leading Artificial Intelligence focused company that develops state of the art Security Screening Solutions, Smart & Safe City Solutions and Enterprise Analytics Solutions that match the global standards. All our solutions are continuously leveraging towards technological innovations to solve various safety & security related issues. All of our products are designed, developed & manufactured in India & Europe to meet global standards, features and quality.

Compact

NuvoScan (P) Compact is an advanced, portable automated Under Vehicle Scanning System (UVSS). This portable UVSS is based on the latest and highly advanced, area scan imaging technology. It uses the combination of high-end electromechanical, cameras, illuminators along with high-end AI algorithms. The visual information captured is synthesized by the system and subsequently a high-quality composite underside image of the vehicle is produced to facilitate efficient viewing and detection of any potentially harmful objects that may be attached to the underbelly of the vehicle.

It is a lightweight, portable and easy to install system that helps reduce human efforts. The system includes a high-resolution color camera along with an integrated illuminating system. The UVSS does real-time accurate scanning of the underlying vehicle image, synchronously displaying the broad and full image of the vehicle undercarriage on the monitor. This system can effectively help the operator to see any contrabands (bombs, weapons, and biochemical hazardous goods).

Features

- Certified system
- High resolution composite color Image
- Quick installation (30 min)
- Vehicle entry database & reporting features
- Security password protection
- Easy to install-store-relocate

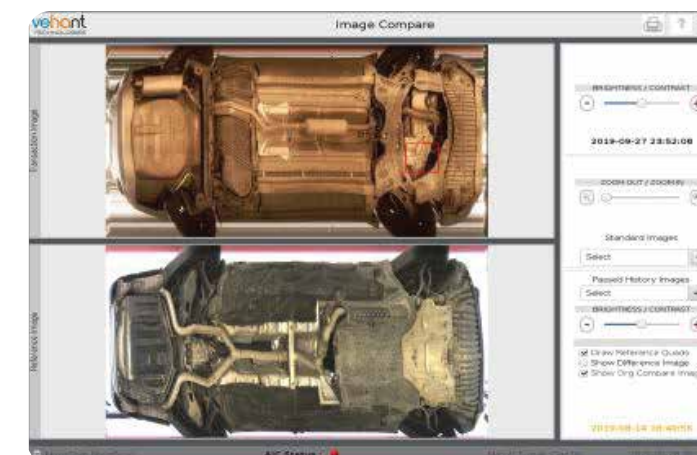


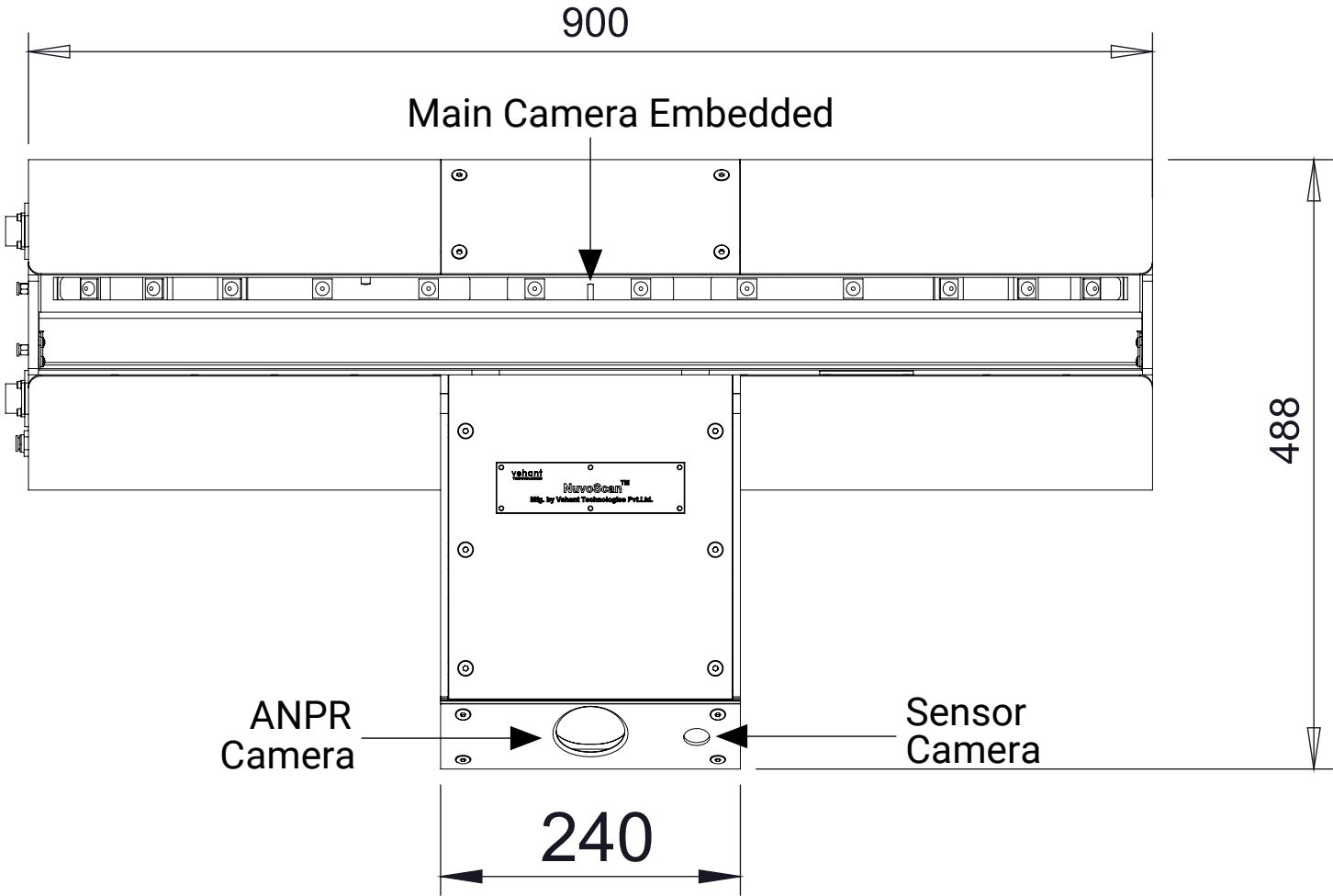
Image Comparison



Automated License Plate Reader

Specifications

Main Camera	Imager Resolution Video Format Certifications Power	CMOS AreaScan Sensor 1280x1024 pixels GigE CE/FCC compliant 12 V to 24 V DC, <10 W
License Plate Camera (Inbuilt)	Imager Resolution Power	CMOS 1 Megapixel or better 12 V DC
Mechanical Structure	Material	Structural Steel with checkered stainless steel on top
Environmental Protection	Main Camera & Light Enclosures	IP 67
Control Unit	Processor RAM Hard Disk Capacity PCI/PCIe Slots Display Monitor	Intel Core-i3 2.4 GHZ or better 1 GB or better 1 TB 2 PCI/PCIe Slots 15" Color or better
Sensor Unit (In-built)	Power Requirements Output	220 V AC NO/NC Relay Type
Lighting Unit	LED Light Unit	220 V AC, 120 W
Weight		35 kg (appx.)
Unit dimensions (lXbXh)		900X488X71 (in mm)
Load Bearing Capacity		20 Tonnes (GVW)
Installation and Mounting		Surface Mount - Portable
Speed Limit		Upto 20 Kmph
Operating Temperature		-10 to 55° C
Storage Temperature		-10 to 55° C (with suitable heating & cooling facility)



Maximize Detection Efficiency with Enhanced Security



Krystalvision KV6040DV

DUAL VIEW X-RAY BAGGAGE SCANNER



Krystalvision KV6040DV

Krystalvision KV6040DV is a dual view x-ray baggage scanner that is designed for scanning hand baggage and medium size baggage. KV6040DV dual view x-ray scanners are most popular due to their small footprint, ability to blend into building entrance environment and scan large volume efficiently. These are commonly installed in airports, government buildings, corporate offices, transportation infrastructure etc. Krystalvision KV6040DV dual view scanners utilize dual energy detectors, optimized dual x ray generators and advanced proprietary image processing algorithms to provide the user with best in-class high resolution image scan large volumes quality and excellent threat detection capability, Customization is possible to suit to your specific requirements.

Key Features

- High reliability and availability
- Advanced high resolution imaging
- Best-in-class threat detection capabilities
- Dual view x-ray imaging
- Integrated self-diagnostic reporting capability
- Meets all government safety regulations
- Lower total cost of ownership (TCO)

Market Segments

- Airports, Sea ports
- police and Paramilitary
- Customs & Border Control
- Government offices
- Metro/Railway stations
- Defense establishments

International Standards



Advanced X-Ray & Explosive Threat Detection Systems For Homeland Security

Physical Specifications

Model No.	KV6040DV
Tunnel Opening in mm	600(W) x 400(H)
Overall Dimensions in mm	2020 (L) x 1270 (W) x 1330 (H) Approx.
Conveyor Load Capacity	170 kg evenly distributed
Conveyor/Belt Speed	0.18-0.3 m/s Bidirectional
Conveyor Height	750 mm Approx, Weight 600 Kg Approx.

General Specifications

Steel Penetration	Standard: 35 mm
Wire Resolution	42 SWG Typical. 40 SWG Guaranteed
Power Requirements	230VAC: 160-280 VAC 50Hz, 6 Amp
Display / Resolution	Two 22" or more High Resolution, Full HD LED Color Monitor. 1980 x 1080; 24 bit/pixel color
X-ray Generator	Two Separate Generators
Anode Voltage / Beam Divergence	160 KV / From Bottom & Side
Tube Current/ Cooling / Duty Cycle	0.7-1.2 mA / Sealed oil bath with forced air / 100%
Storage /Operating Temperature / Humidity	-20oC to 70oC / 0C to 50 C / Up to 95% non-condensing
Computer	Intel i7 processor on Windows OS, 8 GB RAM. 1 TB HDD/SSD, CD/DVD
Safety Certifications	AEGB Type Test, Food & Film safety certificates
Networking	Ability of seamless network integration



Image Processing & Additional Software Features

Machine diagnostics	Start-up and continuous self-diagnostics and alerts to user to indicate faults
Tagging / Zoom	Automatically tracks baggage counter. date, time, operator ID step-less zoom up to 64 X, sniper zoom. 9 quadrants zoom
Material discrimination	4 & 6 color Imaging based on atomic number Signature, greyscale Imaging , pseudo color imaging, organic & inorganic imaging
Alerts	organic & high density alerts and 789 alerts
Image storage/Image recall & archive	Store up to 200.000 images / All previous images recall possible Imaging features High/low penetration ,
variable edge enhancement, variable brightness and contrast inverse or negative color imaging.	HiSpot/super enhancement
Additional features	4 secure levels of access, programmable keys , one key shut down , network ready , TIP (Threat Image Projection)



Optional Features & Accessories

Motorized Input / Output conveyors
 Network Supervisory Workstation (NWS), Suspect Search Station (SSS)
 Combined Test Piece (CIP), in & out camera, Dust proof cover, Control desk

Efficient Screening, Comprehensive Detection



Krystalvision-KV6040SV

BAGGAGE X-RAY SECURITY INSPECTION SYSTEM

Krystalvision-KV6040SV

Krystalvision KV 6040 SV baggage x-ray security inspection system is a dual energy, state of art scanner designed for cabin baggage and small items. The KV 6040 SV system has a tunnel size of 600 mm by 400 mm and can scan objects that exceed standard dimensions for hand luggage. The system uses advanced digital image processing Powerful high penetration X Ray Source with Best in Class Image Resolution and proprietary algorithms to detect organic and inorganic items using 6 colour material discrimination and enhances operator's ability to identify suspicious items. KV 6040 SV has robust steel construction with complete lead shielding and can be located safely in any workplace area.

Key Features

Superior And Efficient Detection Capabilities
Advanced X-ray Photodiode Array Technology
Sophisticated Image Capture, Display And Archival
Advanced Self-diagnostic Reporting Capability
Lower Total Cost of Ownership
Meets All Govt. Safety Regulations

Market Segments

- Police and Paramilitary
- Government offices
- Defense establishments
- Airports, Sea ports
- Hotels, Corporate Offices
- Metro/Railway Stations

International Standards



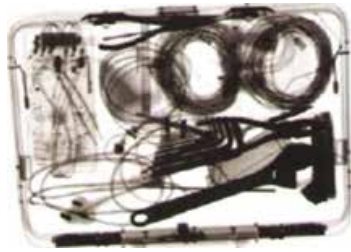
Technical Data Krystal-vision-KV 6040 SV

General Specifications

Tunnel Size	600 mm x 400 mm (Other sizes are available)
Weight	Approximately 450 Kgs.
Overall Dimension	1820 mm (L) x 910 mm (W) x 1340 mm (H)
Conveyor Belt Speed	0.2 m/s Variable Speed, Bi-directional
Cooling / Duty Cycle	Sealed Oil Cooling / 100%

Physical Specifications

X Ray Generator	160 KV
X Ray Sensor	L Shaped Photo Diode Array, Dual Energy
Resolution	Standard : 38 AWG, Typical : 40 AWG
Penetration (Steel)	Standard : 35 mm, Typical 36 mm
Max Load	160 Kgs. Max. (Custom Available)
Humidity	Upto 95% Without Condensation
Beam Direction	From Bottom
Ups	1.5 KVA UPS With 15 Mins Power Backup
Operating Temp.	0°C To 50°C
Storage Temp.	-20°C To 60°C
Power Required	230 Vac : 183-253 VAC, 50Hz, 6 AMP. Max
Power Consumption	0.5 KVA



Safety & Certifications

Certifications	Atomic Energy Regulatory Board (AERB) Certified Iso 9001 :2008 Certified CE Certified, Food Safety Certified, ISO 14001 Certified
Dose Per Scan	Less Than 0.1 mR
Radiation Leakage	Less Than 0.1 mR/hr
Film	Safe For 10 Passes Of 1600/33 Din Photo Film
Other Features	Electrical Safety Features, Emergency Stop, X-ray On Indicating Lamps, Audio/visual Alarm, Lead Safety Screens
Machine Hardening	Rodent Protection Available

Hardware And Software Specifications

System Access	4 Secure Levels Of Access
High Density Alert	Alarm If Configurable High Density Threshold Met (In Base Price)
Threat Image Projection	Threat Image Projection Software (Tip) (In Base Price)
Machine Diagnostics	Start Up Continuous Self Diagnostics And Alerts To Users To Indicate Faults
Tagging	Automatically Tracks Baggage Counter, Date And Time
Hardware	Intel I5 Or Higher, 22 Inch Monitor, 8 GB RAM, 1TB HDD/SDD
Print	Ability To Print On Demand (Printer Not Provided)
Tables	Incoming And Outgoing Modular Roller Tables

Image Specifications

Display Type	6 Color Imaging Software, 1280x1024 Image Size, 4096 Gray Scale
Image Processing	Black & White, Pseudo Color, Negative, Inverse, Variable Edge Enhancement, Continuous Image Contrast & Brightness Adjustment
Image Storage	Real Time 200,000 Image Storage, Storage On Network Or Removable Media (Hard Disk) Possible
Image Recall	All Stored Images Can Be Retrieved Manually Based On Multiple Parameters
Material Discrimination	Organic And Inorganic Energy Stripping Material Discrimination
Zoom	Image Enlargement, Variable Zoom Upto 64 X, Pan Option, 9 Zone Zoom

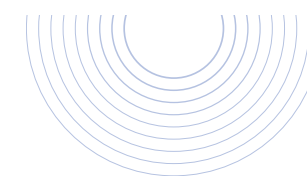
Options

Network	Ability Of Seamless Network Integration
Explosives/Narcotics	Assistance In Detection Of Explosives And Narcotics
Monitors	22 Inch Monitor, Dual Monitors
Accessories	Combined Test Piece, In/Out Cameras, Foot Mat, Mobile Casters, Operators Console Cabinet, Dust Proof Cover

Rogue Drone and Pilot Detection by Radio-frequency Analysis



Hydra



Hydra

To counter the new drone security threats, HYDRA is a powerful and flexible 1st line of defense whether you are looking for a versatile solution or a high performing detection technology to be integrated in a multilayer Command and Control system.

Drones: a growing concern

Because drones can guarantee the anonymity and impunity of their pilots, they have become the perfect tool for malevolent actors. Small, nimble, inconspicuous, affordable, easy-to-use and able to transport diverse payloads with increasing levels of autonomy, drones today bypass all traditional security measures and put all critical sites at risk. Risk of attack or collision, vector of espionage or contraband: malevolent drone intrusion scenarios are numerous.

Our mission

Since 2015, CERBAIR has secured its clients' near airspace with high-tech solutions. To cope with the asymmetrical threat posed by drones, CERBAIR aims at democratizing high performing solutions to protect the many with its unique approach:

- Highest Cost-Efficiency on the market
- Mobility and Simplicity of use
- Modularity and Upgradability

HYDRA

CERBAIR's core technology, HYDRA is a range of drone detection solutions based on radiofrequency analysis. Similar to the mythological multi-headed snake, HYDRA relies on a scalable number of sensors (see visual on right corner) installed on top of a mast and working together thanks to our signal intelligence algorithms.

Key takeaways

- Drone and pilot detection
- Direction finding on drone and pilot (bearing $\pm 07^\circ$)
- Average detection range: 2km
- Drone type identification
- Very low rate of false alarms
- Passive solution: zero interference
- Ease of installation: 20 min / 2 PAX
- Modular, evolutive and highly configurable



Why detect?

Drones are becoming more and more discrete to the point that it has now become unrealistic to expect detecting them with one's own senses. Without proper detection, no action can be taken. Therefore it is crucial to be able to detect, identify and locate the drone threat in time. Indeed, these steps are necessary to trigger a countermeasure so as to neutralize the drone or alternatively to indirectly nullify the drone threat (pilot arrest, VIP extraction...)

Several technologies allow to detect drones: RF, radar, acoustics and EO/IR. Although each presents its own strengths and weaknesses, radiofrequency analysis undoubtedly is the most balanced drone detection.

Because it is a high performing, affordable and non interfering technology, radiofrequency analysis is a powerful 1st line of defense to detect the presence of rogue drones, especially in complex urban environments.

Of course, given that no technology is infallible, the integration of complementary drone detection technologies can help counter the most sophisticated drone attack scenarios.

HYDRA solutions composition

Hardware

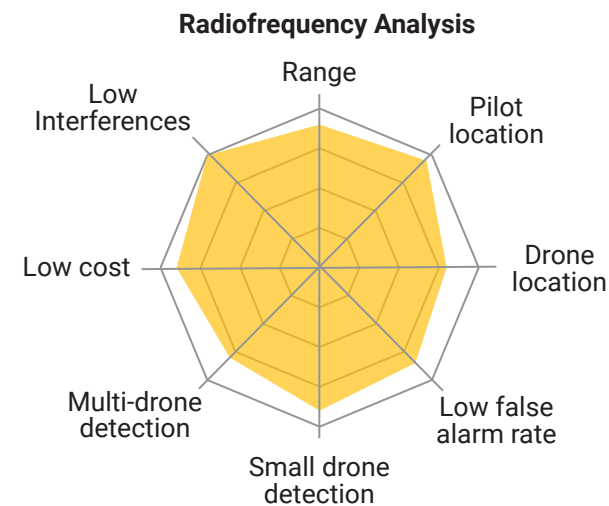
- Detection pod : sensors, antennas and cables.
- Client server or hypervisor integration.

Software



- Perpetual software license.
- Major functionalities:
- Dashboard with 2D satellite views.
- Sensors and effectors settings.
- Alert history for FORENSIC.
- Real-time RF spectrum scanning.

Service

- Site reconnaissance.
- System calibration and training.
- Hardware warranty and software maintenance.



Configuration

SOLUTIONS CHARACTERISTICS	HYDRA 100	HYDRA 200
		
AVERAGE RANGE	1 km	2 km
RF SPECTRUM COVERAGE	2,4/5,8 GHz (Optional : 433/860/915 MHz)	2,4/5,8 GHz (Optional : 433/860/915 MHz)
ACCURACY	Omnidirectional on all RF spectrum	Bearing +/- 7° on 2,4/5,8GHz (Omni on lower RF spectrum)
SENSORS	1 (2 if extended spectrum)	4 (5 if extended spectrum)
SCALABILITY	Yes	Yes
RECO. DISTANCE BETWEEN 2 SYSTEMS	2 km for maximum coverage	4 km for maximum coverage 1 to 2 km to cross bearings
INCLUDED EQUIPMENT	Sensor(s), filters, antennas, cables, mountings, server, client, perpetual software license	Sensor(s), filters, antennas, cables, mountings, server, client, perpetual software license
SENSOR PROTECTION	IP67	IP67
OPERATION TEMPERATURE OF SENSORS	-20°C to +55°C	-20°C to +55°C
MASTHEAD DIMENSIONS	48x48x160 cm (48x48x210 cm if extended spectrum)	48x48x78 cm (48x45x240 cm if extended spectrum)
MASTHEAD WEIGHT	10 kg (17 kg if extended spectrum)	25 kg (32 kg if extended spectrum)
SENSOR CONNECTIVITY	Ethernet 1000 Base T (Gigabit)	Ethernet 1000 Base T (Gigabit)
POWER SOURCE	PoE+ (802.11at) (max 30W/sensor)	PoE+ (802.11at) (max 30W/sensor)

Scalability

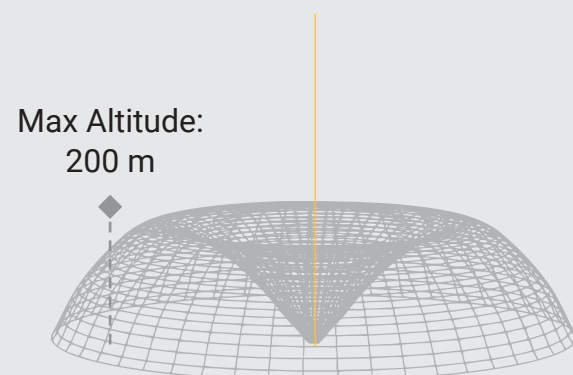
- Possible combination of HYDRA 200 solutions to cross bearings (see visual).
- Possible combination of HYDRA 100 and HYDRA 200 solutions to implement a network of sensors adapting to a site particular topography and obstacle layout.
- Unified control of all installed HYDRA solutions via a unique client server.



Range

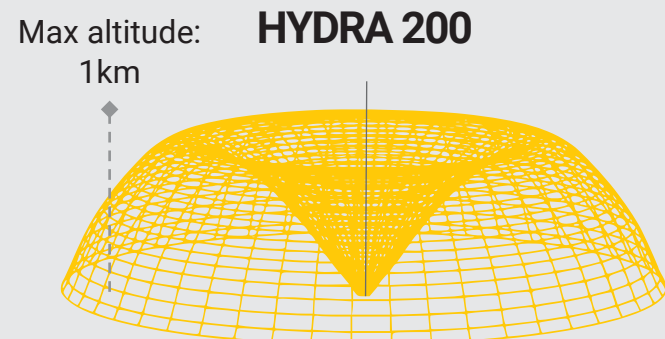
Several factors can impact the detection ranges such as the drone model, local RF pollution, topography, surrounding constructions or weather conditions.

HYDRA 100



Optimal conditions: 2,5 km
Normal conditions: 1,5 km
Bad conditions: 1 km

HYDRA 200



Optimal conditions: 5 km
Normal conditions: 2 km
Bad conditions: 1 km

Customization Solutions



Mobility kit

To temporarily protect a sensitive site or event. Includes a semi-rugged laptop, transport cases, a telescopic mast and a switch.



Ruggedness

Of the laptop to deploy it under the harshest conditions.



Spectrum extension

To increase the detection coverage by adding low frequency ranges on which several rarer drones can operate.



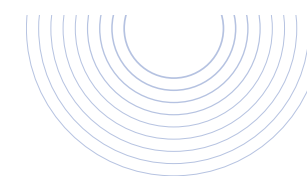
Integration

Of complementary detection and neutralization* technologies into HYDRA C2.

Electric Fencing Products That Deliver Peace of Mind



Energizers



ENERGIZERS

ENERGIZERS: SINGLE ZONE

WIZORD

The Wizord energizers have been field tested for many years and boast unsurpassed reliability. Simple to install and easy to maintain.



SINGLE ZONE

2J OUTPUT

WIZORD 2i (E-WIZ2I)

- Built-in alarm monitors tampering or faults on the high voltage and earth fence wires
- Connectable to armed response radio or GSM module
- Lightning and power surge protection
- Intelligent power saving to extend battery life
- Easy-to-use tag included for controlling the energizer
- Powered by 230V mains and includes built-in battery for back-up power
- Built-in gate alarm input to monitor if the gate is open or closed

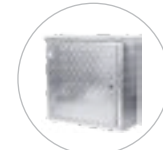
Optional Accessories:



Double Pole Lightning Protection



Nemtek Connect



Enclosure



SINGLE ZONE

3.7J OUTPUT

WIZORD 4i (E-WIZ4I)

- Built-in alarm monitors tampering or faults on the high voltage and earth fence wires
- Connectable to armed response radio or GSM module
- Lightning and power surge protection
- Intelligent power saving to extend battery life
- Easy-to-use tag included for controlling the energizer
- Powered by 230V mains and includes built-in battery for back-up power
- Built-in gate alarm input to monitor if the gate is open or closed

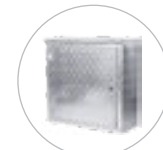
Optional Accessories:



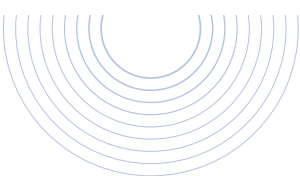
Double Pole Lightning Protection



Nemtek Connect



Enclosure



ENERGIZERS: DUAL ZONE

MERLIN STEALTH DUAL ZONE

The Merlin Stealth dual zone energizers are a powerful range that can be used from residential to high-end security needs and is a cost-effective solution where more than one zone is required. Separation of the fence into zones allows easy identification of the zone affected by fence faults or tampering. Smart design allows the maximum amount of energy to be transferred to the zone that needs it, yet the combined energy of the two zones will not exceed the legal maximum permitted. These energizers can be controlled by a tag and/or a keypad and can be programmed to offer customised solutions.



TWO
ZONE

7.6J
OUTPUT

WIZORD 2i (E-WIZ2I)

- Built-in alarm monitors tampering or faults on the high voltage and earth fence wires
- Connectable to armed response radio or GSM module
- Lightning and power surge protection
- Intelligent power saving to extend battery life
- Easy-to-use tag included for controlling the energizer
- Powered by 230V mains and includes built-in battery for back-up power
- Two built-in gate alarm inputs to monitor if the gates are open or closed
- Optional dual zone two gate keypad (EE-M2ZKP) for controlling and programming the energizer. This allows the user to control the energizer remotely, with up to four keypads. Fence voltage and siren and gate outputs can be adjusted and bypassed using the keypad

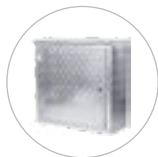
Optional Accessories:



Double Pole
Lightning Protection



Nemtek Connect



Enclosure

Nemtek Energizer Brand	Wizord™		Merlin	Merlin Stealth™		Druid™				
Model Number	2i	4i	4i	M18S	M28S	13 LCD	15 LCD	18 LCD	25 LCD	28 LCD
Wire Length per Energizer (Live Wires in a Series System) for Both Solid and Stranded Wires										
Galvanised wires, 1.2mm										
• Optimal performance up to	2km	3km	3km	10km	2 x 5km	3km	5km	10km	2 x 2.5km	2 x 3km
• Maximum	4km	5km	5km	25km	2 x 13km	5km	8km	25km	2 x 4km	2 x 6km
Galvanised, XL and Galfan wires, 1.6mm										
• Optimal performance up to	2km	3km	3km	14km	2 x 7km	3km	5km	12km	2 x 2.5km	2 x 3km
• Maximum	4km	6km	6km	28km	2 x 15km	5km	8km	24km	2 x 4km	2 x 6km
Galvanised, XL and Galfan wires, 2.0mm										
• Optimal performance up to	2.5km	3.5km	3.5km	16km	2 x 8km	3.3km	5.5km	14km	2 x 2.8km	2 x 3.5km
• Maximum	5km	7km	7km	30km	2 x 15km	5.6km	9km	28km	2 x 5km	2 x 7km
Galvanised wires, 2.24mm										
• Optimal performance up to	3km	4km	4km	20km	2 x 10km	3.8km	6km	20km	2 x 3km	2 x 4km
• Maximum	6km	10km	10km	50km	2 x 25km	6.6km	10km	50km	2 x 6km	2 x 10km
Stainless steel 1.0mm, 304 and 316 grade										
• Optimal performance up to	0.5km	0.6km	0.6km	0.7km	2 x 0.8km	0.6km	0.7km	0.8km	2 x 0.6km	2 x 0.7km
• Maximum	0.6km	0.9km	0.9km	1km	2 x 1.2km	0.9km	1km	1km	2 x 0.9km	2 x 1.1km
Stainless steel 1.2mm, 304 and 316 grade										
• Optimal performance up to	0.6km	0.7km	0.7km	1km	2 x 1km	0.7km	0.8km	1km	2 x 0.7km	2 x 0.9km
• Maximum	0.9km	1km	1km	1.3km	2 x 1.3km	1km	1.1km	1.3km	2 x 1km	2 x 1.2km
Stainless steel 1.6mm, 316 grade										
• Optimal performance up to	1.2km	1.4km	1.4km	2km	2 x 2km	1.4km	1.6km	2km	2 x 1.5km	2 x 1.9km
• Maximum	1.8km	2km	2km	2.6km	2 x 2.6km	2km	2.2km	2.6km	2 x 2.1km	2 x 2.5km
Stainless steel 2.0mm, 316 grade										
• Optimal performance up to	1.8km	2.1km	2.1km	3.3km	2 x 3km	2.1km	2.4km	3.3km	2 x 2.3km	2 x 2.9km
• Maximum	2.7km	3km	3km	3.9km	2 x 3.9km	3km	3.3km	3.9km	2 x 3.2km	2 x 3.8km
Aluminium wire 1.6mm and 2.0mm										
• Optimal performance up to	6km	8km	8km	40km	2 x 20km	8km	10km	40km	2 x 6km	2 x 8km
• Maximum	12km	16km	16km	80km	2 x 40km	16km	20km	80km	2 x 12km	2 x 16km
Aluminium wire 2.5mm										
• Optimal performance up to	6km	8km	8km	40km	2 x 20km	8km	10km	40km	2 x 6km	2 x 8km
• Maximum	12km	16km	16km	80km	2 x 40km	16km	20km	80km	2 x 12km	2 x 16km
Multi-Energizer Systems										
Can be used in multi-energizer network system									Yes	Yes
Compliance										
IEC 60335-2-76 CISPR 14, EN 61000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Output energy is a function of component tolerance and energy settings and is reduced during power failure.

YES* Indicates that this function is available at the cost of another function, further details are on our website www.nemtek.com.

** Solar panel sizes and battery capacities are based on the exposure to sunlight in southern Africa and can change depending on the location of the solar panels.

*** All energizers are manufactured with a 230Vac ± 10% transformer, 110 Volts are available on request. Batteries are supplied as a standard.

Specification may change without prior notice.

GATE SYSTEMS

The Nemtek gate contacts have a robust construction and use stainless steel and brass metal components, making it suitable for most environmental conditions.



GATE LOCATOR AND SWING GATE PLATES

(EY-GLAU, EY-GPAU)

- Heavy duty design
- Electro plated
- For both the 2-way and the 3-way gate contacts



2-WAY GATE CONTACT

(EA-SGC07, EA-SGC13)

- Used for series wiring of a gate
- Suitable for sliding gates
- Lug or brass connectors
- Available with earth plate (EA-SGC13/EARTH)



3-WAY GATE CONTACT

(EA-SGC193W)

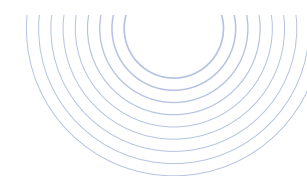
- Effective short to earth detection over sliding gates
- 2 live and 1 earth connectors with lugs
- Available with brass connectors (EA-SGC213W)



GATE MOUNTING BRACKET

(EA-SGC/UNIB)

- Heavy duty design
- Hot dip galvanised
- For both the 2-way and the 3-way gate contacts



FENCING TOOLS



HEAVY DUTY DIAGONAL SIDE CUTTER PLIERS

(TL-MNHW)

- Designed for high-tensile wire cutting up to 3.5mm wire



DISTANCE MEASURING WHEEL

(TL-DMW)

- Quick, walk along distance measuring tool



KNIPEX WIRE CUTTER

(TL-MN)

- Designed for high-tensile wire cutting up to 2.5mm wire



PROFESSIONAL CRIMPING TOOL

(TL-CRP)

- Durable ferrule crimping tool



HALF INCH RATCHET TENSIONER

(TL-RAT1/2)

- Used to tension the Hybrid combo tensioners



KNIPEX WIRE CUTTER

(TL-PDY)

- Used as a hammer to drive Y-pickets into the ground