



SAFER, SMARTER ACCESS SECURITY

A comprehensive range of
premises security solution





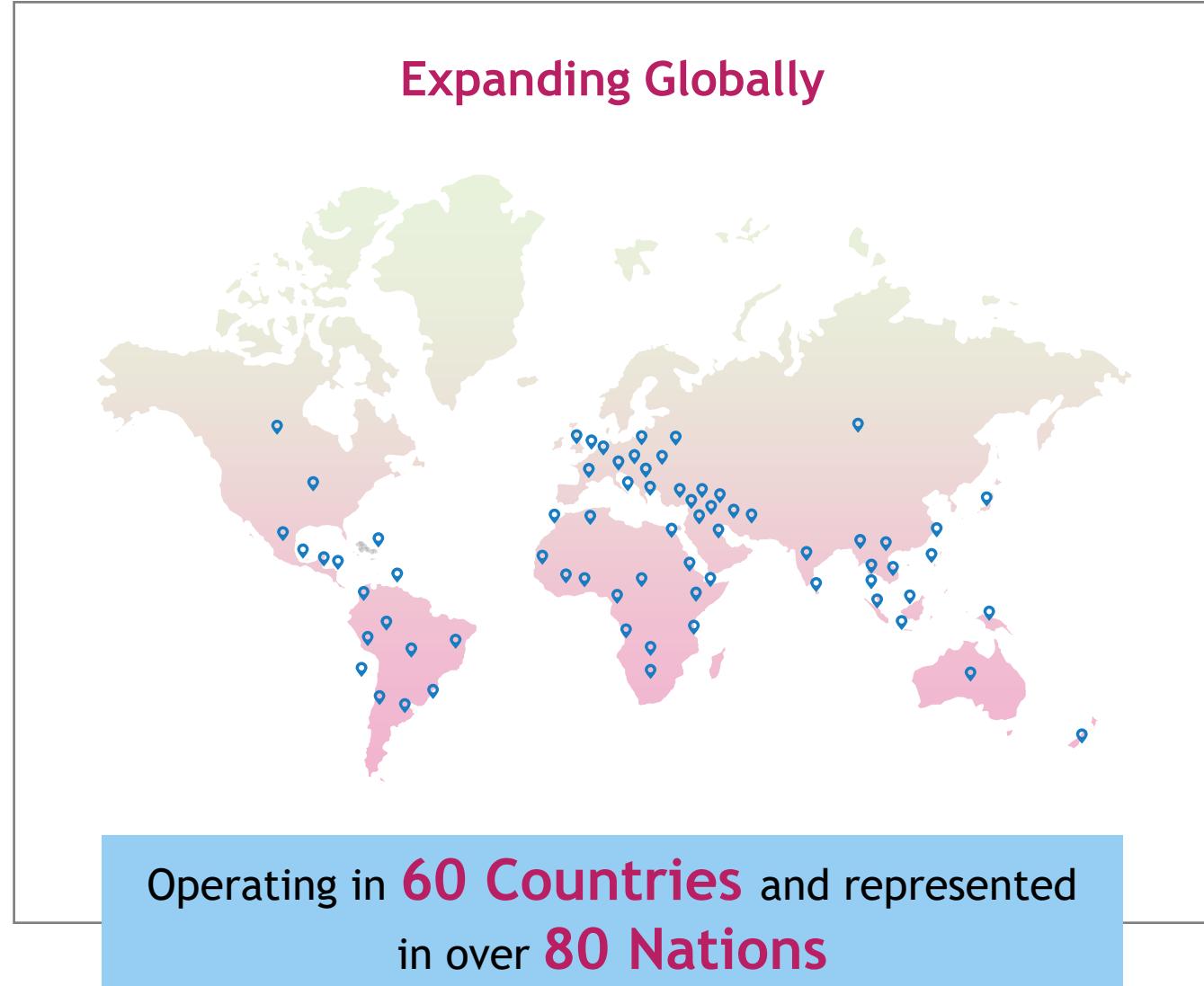
Over **1.1 Bn** lives of consumers touched everyday, globally



USD 5Bn revenues annually



Over **54,000** employees in the Godrej family



Our servicing over 15 Business Verticals



Aerospace



Appliances



Chemicals



Financial services



Food & Agri



Furniture, Furnishing & Fitting



General Engineering



Heavy Engineering



Home & Personal Care



Intra Logistics



Information & Technology



Infrastructure



Locks & Security Solutions



Power & Energy



Real Estate

Committed to environment

G&B has always put the planet before profit. Our Good & Green policy remains at the core of the Company's business operations and guides our strong sustainable practices that help protect the environment



KEY HIGHLIGHTS OF THE G&B SUSTAINABILITY JOURNEY

- Trusteeship and conservation of the Vikhroli Mangroves, which houses over 525 species of fauna and 16 different species, for the past 80 years. The mangroves in Vikhroli are thrice the size of New York's Central Park and responsible for exhaling four times more oxygen than any other tropical forest. It has helped significantly reduce air pollution levels in the city of Mumbai
- As a water positive company, G&B has returned 4.4 billion litres of water back to our planet. 75% more efficient in our energy productivity and utilisation of natural resources for the amount of energy consumed
- G&B emits 45% less carbon through renewable energy solutions
- Zero landfill waste, thanks to the recycling and reuse of industrial waste material





Nation's first choice when it comes to integrated security



Trusted for our intelligent, integrated, and differentiated solutions



Offering a comprehensive suite of security solutions for residential, industrial, and business premises



We manufacture vaults, lockers, and secure room doors for most of the leading public sector and private banks in India and we also make security products for marine and defence sectors



Today, we have provided surveillance installations in over 45 countries, including the Middle East, South East Asia, Far East Asia, East Africa, USA, Europe and the SAARC countries



24 SECURITY FOR YOUR CARAT VALUABLES

**India's Only Comprehensive
End-to-End Security Solutions Specialist**

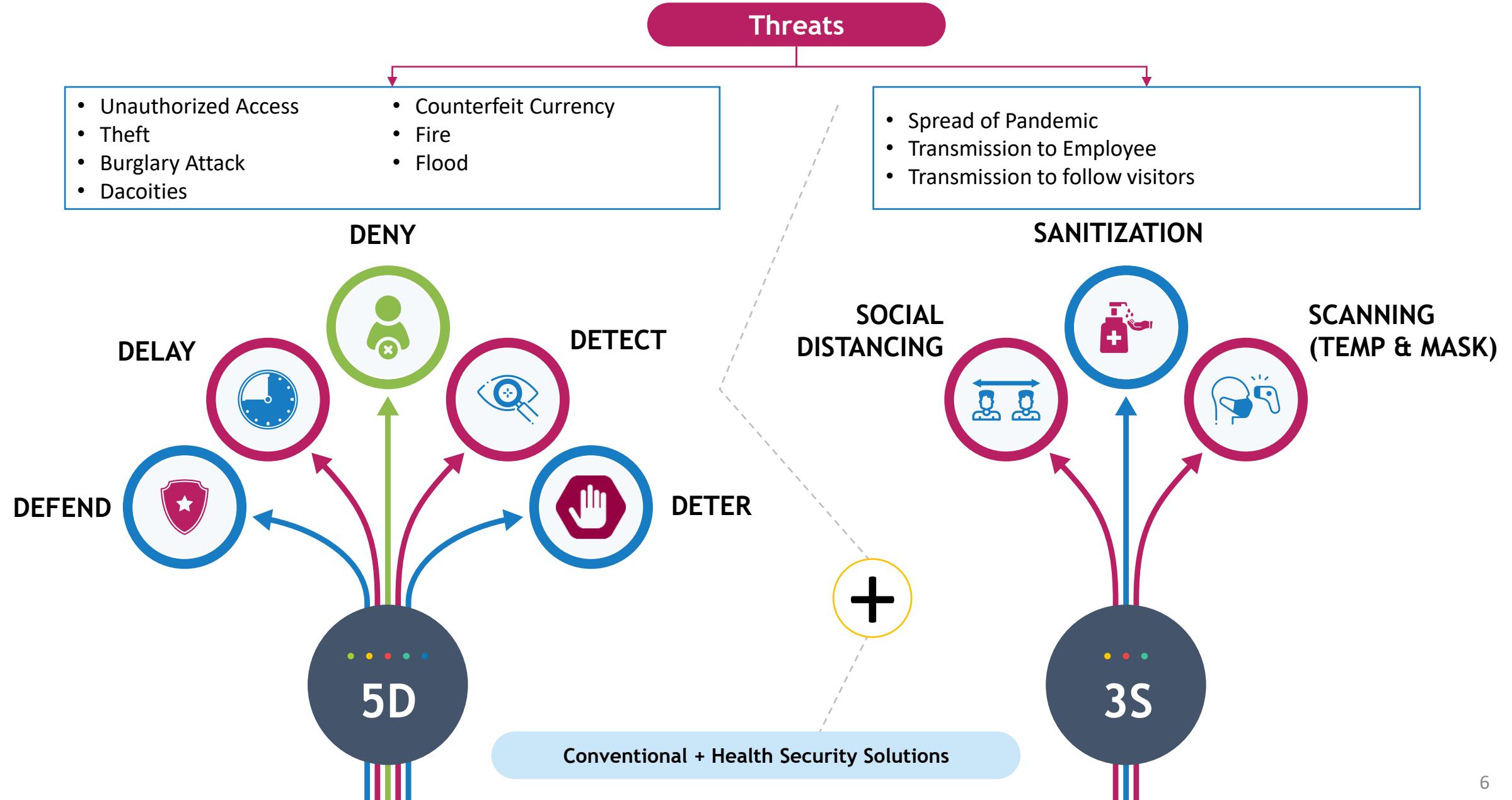
Integrated Security Solution
with latest technology

Security Consultancy

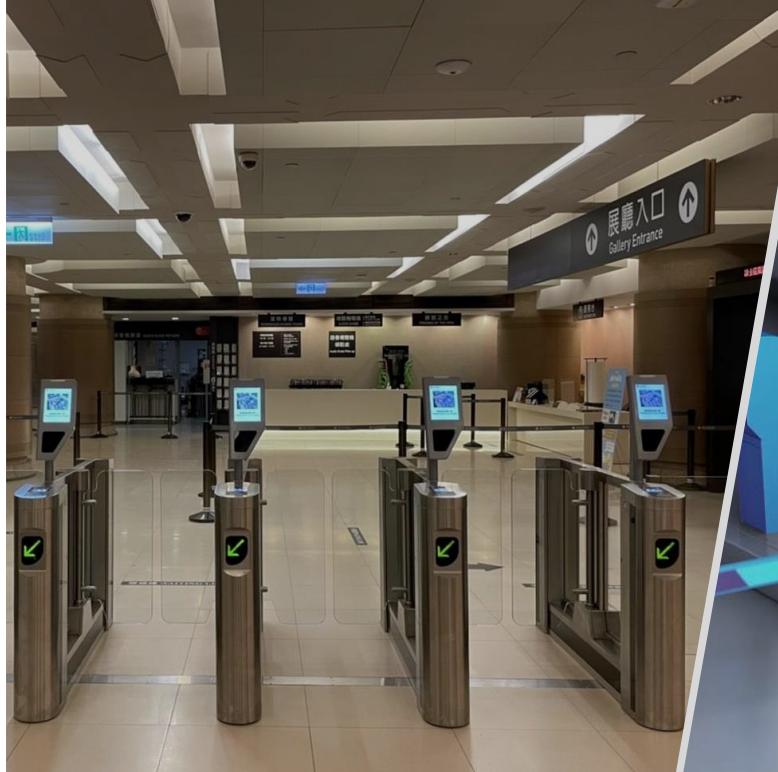
PAN India dedicated &
committed service team

Proven Track Records

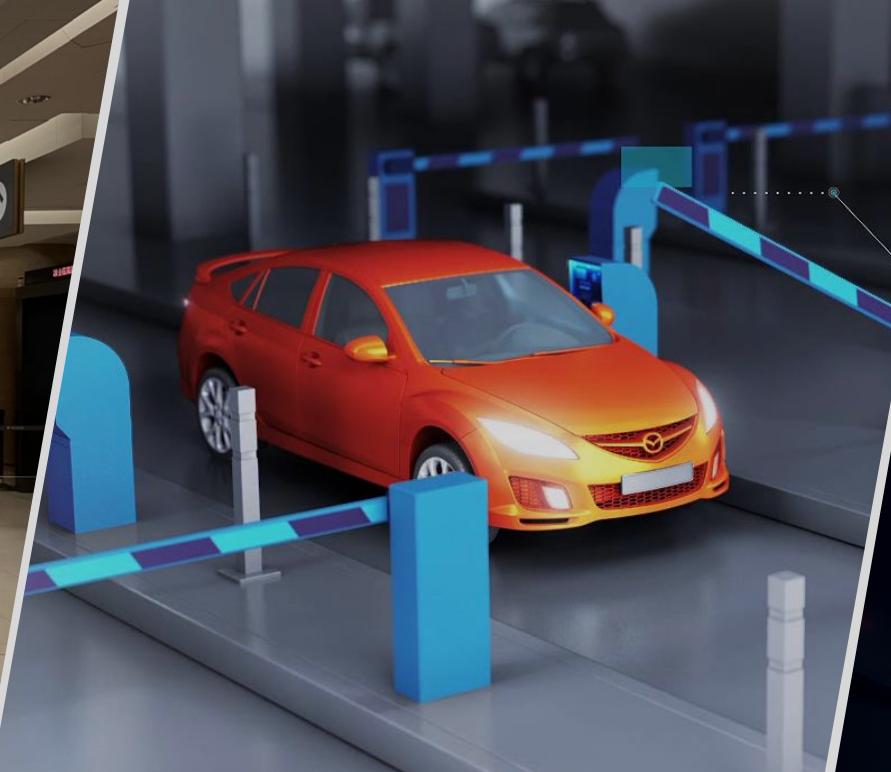
Our Approach



Our Offerings under Premises Security Solutions



PEDESTRIAN ENTRANCE
CONTROL SOLUTIONS



VEHICULAR ENTRANCE
CONTROL SOLUTIONS



SCANNING
SCREENING SOLUTIONS

PURPOSE

Pioneer Progress for Generations

VISION

Admired for sustainability practices, innovative solutions, and superior business performance.

MISSION

Unlock experiences that engage customers and build loyalty.

VALUES

Integrity, Trust, Respect, Customer Centricity, Entrepreneurship, Environment Stewardship





Godrej



PEDESTRIAN ENTRANCE CONTROL SOLUTIONS



Swing Lane Flap Barrier

Swing Lane Flap Barrier is extremely graceful, elegant and secured entry equipment; designed to control pedestrians entering or exiting the restricted areas. It provides an ideal contactless solution for admission control with high aesthetic and comfort requirements.

Key Feature:



- Anti-tailgating feature to detect unauthorized people
- Crawling detection to illegal intrusion
- Acrylic Flap wings with illuminating LED effect
- Brushless DC motor based highly reliable drive
- Alarm function in case of illegal intrusion and reverse intrusion
- Short opening times less than a second for a high through flow
- Automatic opening during power failure
- Dynamic LED Lane indication



Swing Lane Flap Barrier



Technical Specifications

MODEL GSB-S/GSB-W	MAINS SUPPLY 180 - 270 VAC, 47 - 63Hz/ 90 - 130V, 47 - 63Hz	POWER CONSUMPTION Stand By: < 30W, Operating: < 80W	DRIVE Brushless DC Motor
CONFIGURATION Fail Safe/Fail Lock	ACCESS TIME OUT Adjustable 1-10 sec	DIMENSION (LXDXH) 1350 x 150 x 1000 mm ±5% (Customizable)	PASSAGE CLEARANCE 600 mm/ 900 mm
THROUGHPUT 25-30 persons per minute	FLAP WINGS Acrylic/Glass/Polycarbonate	MCBF 10 million cycles	MTTR < 30 min
OPENING/CLOSING TIME < 1 sec	CASE WORK Stainless Steel 304/316*/ M.S. Powder coated	TEMPERATURE -10 °C to 55 °C	HUMIDITY < 95% non-condensing
IP RATING IP32/IP54*	WEIGHT 120 KG	OPTIONAL Barricade, Electronic Counter Display, Push Button, Remote	Colour Variant Golden, Rose Gold, Dark Gray

Standard cabinet cladding in stainless 304 finish,
finish in GOLD or any colour suitable for existing aesthetic lobby

Slim Tripod Turnstile - Electromechanical/Motorized



Godrej Slim Electromechanical/Motorized Tripod is the ultimate selection for the reliable management of many people. It offers compact design with diverse potential of integration to look and feel of your lobby or building.

Key Feature:



A. ELECTROMECHANICAL

- Solenoid locking mechanism
- Bi-directional operational control
- Positive action lock to prevent the two-passage at one time
- Arm becomes free to rotate/Drop in case of power failure/ Emergency
- Dynamic LED Lane Indicator
- Self-centering mechanism to ensure complete rotation into the home position
- The built-in hydraulic damper for smooth operation
- Anti-backup device to prevent reverse rotation once the mechanism has moved 30°, 45° & 60° from home
- Integration with all type of access control available in the market

B. MOTORIZED

- Motorized BLDC geared locking mechanism
- Bi-directional operational control
- Positive action lock to prevent the two-passage at one time
- Arm Drops in case of power failure/ Emergency with Automatic reset
- Dynamic LED Lane Indicator
- Geared mechanism provides smooth and silent operation
- Touchless operation with integrated sensors
- Attractive Audible buzzer sound for when unauthorized use is detected
- Integration with all type of access control available in the market



Slim Tripod Turnstile



Technical Specifications

MODEL	GTT-S1
MAINS SUPPLY	180 - 270 VAC, 47 - 63Hz/ 90 -130V, 47 - 63Hz
POWER CONSUMPTION	Stand By: <30W, Operating: <15W
DIMENSION (LXDXH)	425 x 280 x 1035 mm ±5%
TRIPOD ARM	380 mm/ 500 mm
THROUGHPUT	25-30 persons per minute
MCBF	10 million cycles
MTTR	< 30 min
CASE WORK	Stainless Steel 304/316*/ M.S. Powder coated
TEMPERATURE	-10°C to 55°C
HUMIDITY	< 95% non-condensing
IP RATING	IP54
WEIGHT	32 Kg
OPTIONAL	Barricade, Electronic Counter Display, Push Button, Remote

MODEL	GTT-M1
MAINS SUPPLY	180 - 270 VAC, 47 - 63Hz/ 90 -130V, 47 - 63Hz
POWER CONSUMPTION	Stand By: < 30W, Operating: < 45W
DIMENSION (LXDXH)	425 x 280 x 1035 mm ±5%
TRIPOD ARM	380 mm/ 500 mm
THROUGHPUT	25-30 persons per minute
MCBF	10 million cycles
MTTR	< 30 min
CASE WORK	Stainless Steel 304/316*/ M.S. Powder coated
TEMPERATURE	-10°C to 55°C
HUMIDITY	< 95% non-condensing
IP RATING	IP54
WEIGHT	45 Kg Approx
OPTIONAL	Barricade, Electronic Counter Display, Push Button, Remote

MOTORIZED

Elegant Tripod Turnstile - Electromechanical/Motorized



Godrej Elegant Electromechanical/Motorized Tripod with Drop arm comes with advance technology for convenient operation for access. Its Bi-directional operation permits a single turnstile to act as a both entrance and exit.

Key Feature:



A. ELECTROMECHANICAL

- Solenoid locking mechanism
- Bi-directional operational control
- Positive action lock to prevent the two-passage at one time
- Arm becomes free to rotate/Drop in case of power failure/ Emergency
- Dynamic LED Lane Indicator
- Self-centering mechanism to ensure complete rotation into the home position
- The built-in hydraulic damper for smooth operation
- Anti-backup device to prevent reverse rotation once the mechanism has moved 30° , 45° & 60° from home
- Integration with all type of access control available in the market

B. MOTORIZED

- Motorized BLDC geared locking mechanism
- Bi-directional operational control
- Positive action lock to prevent the two-passage at one time
- Arm Drops in case of power failure/ Emergency with Automatic reset
- Dynamic LED Lane Indicator
- Geared mechanism provides smooth and silent operation
- Touchless operation with integrated sensors
- Attractive Audible buzzer sound for when unauthorized use is detected
- Integration with all type of access control available in the market



Elegant Tripod Turnstile



Technical Specifications

MODEL	GTT-S2
MAINS SUPPLY	180 - 270 VAC, 47 - 63Hz/ 90 - 130V, 47 - 63Hz
POWER CONSUMPTION	Stand By: < 30W Operating: < 15W
ACCESS TIME OUT	Adjustable 1-10 Sec
TRIPOD ARM	380 mm/ 500 mm
MCBF	10 million cycles
CASE WORK	Stainless Steel 304/316*/ M.S. Powder coated
HUMIDITY	< 95% non-condensing
WEIGHT	42 Kg
OPTIONAL	Barricade, Electronic Counter Display, Push Button, Remote

DRIVE	Solenoid Operated
DIMENSION (LXDXH)	1100 x 280 x 1000 mm ±5%
THROUGHPUT	25-30 persons per minute
MTTR	< 30 min
TEMPERATURE	-10°C to 55°C
IP RATING	IP54

MODEL	GTT-M2
MAINS SUPPLY	180 - 270 VAC, 47 - 63Hz/ 90 - 130V, 47 - 63Hz
POWER CONSUMPTION	Stand By: < 30W Operating: < 45W
ACCESS TIME OUT	Adjustable 1-10 Sec
TRIPOD ARM	380 mm/ 500 mm
MCBF	10 million cycles
CASE WORK	Stainless Steel 304/316*/ M.S. Powder coated
HUMIDITY	< 95% non-condensing
WEIGHT	55 Kg
OPTIONAL	Barricade, Electronic Counter Display, Push Button, Remote

MOTORIZED

Full Height Turnstile - 120°



Godrej's Full Height Turnstile is intended for maximum safety of high-profile area. It consists of an Electromechanical/Motorized head assembly with rotor and logic controller unit, which offers trouble-free action even in unfavorable environments.

Key Feature:



A. ELECTROMECHANICAL

- Solenoid locking mechanism
- Rotor 3 x 120° with Bi-directional operational control
- Positive action lock to prevent the two-passage at one time
- Rotor becomes free to rotate in case of power failure/Emergency
- Dynamic LED Lane Indicator
- Self-centering mechanism to ensure complete rotation into the home position
- The built-in hydraulic damper for smooth operation
- Anti-backup device to prevent reverse rotation once the mechanism has moved 30°, 45° & 60° from home
- Integration with all type of access control

B. MOTORIZED

- Motorized BLDC geared locking mechanism
- Rotor 3 x 120° with Bi-directional operational control
- Positive action lock to prevent the two-passage at one time
- Rotor becomes free to rotate in case of power failure/Emergency
- Dynamic LED Lane Indicator
- Geared mechanism provides smooth and silent operation
- Push to rotate operation with integrated sensors
- Attractive audible buzzer sound for when unauthorized use is detected
- Integration with all type of access control



Full Height Turnstile - 90°

Key Feature:



- Single lane/dual lane configuration
- Electro-Mechanical operation, 4 X 90 deg rotation
- Flow rate: 15 persons per minute
- Bi-directional control
- Positive action lock
- **IP54 Protection Rating**
- Fail safe OR Fail locked operation in case of power failure
- Integration with any access control system



Full Height Turnstile



Technical Specifications

MODEL GFHT-S1	MAINS SUPPLY 180 - 270 VAC, 47 - 63Hz/ 90 - 130V, 47 - 63Hz
POWER CONSUMPTION Stand By: <30W, Operating: < 15W	DRIVE Solenoid Operated
ACCESS TIME OUT Adjustable 1-10 Sec	DIMENSION (LXDXH) 1350 x 1500 x 2220 mm ±5% Single Lane 1350 x 2300 x 2220 mm ±5% Dual Lane
PASSAGE WIDTH 650 mm ±5%	CONFIGURATION Fail Safe/Fail Lock
THROUGHPUT 15-18 persons per minute	MCBF 10 million cycles
MTTR < 30 min	CASE WORK Stainless Steel 304/316*/ M.S. Powder coated
TEMPERATURE -10°C to 55°C	HUMIDITY < 95% non-condensing
IP RATING IP54	WEIGHT 200 Kg Single Lane (Approx) 280 Kg Dual Lane (Approx)
OPTIONAL Barricade, Electronic Counter Display, Push Button, Remote	

MOTORIZED

MODEL GFHT-Mq	MAINS SUPPLY 180 - 270 VAC, 47 - 63Hz/ 90 - 130V, 47 - 63Hz
POWER CONSUMPTION Stand By: <30W, Operating: < 45W	DRIVE BLDC Motor Drive
ACCESS TIME OUT Adjustable 1-10 Sec	DIMENSION (LXDXH) 1350 x 1500 x 2220 mm ±5% Single Lane 1350 x 2300 x 2220 mm ±5% Dual Lane
PASSAGE WIDTH 650 mm ±5%	CONFIGURATION Fail Safe
THROUGHPUT 15-18 persons per minute	MCBF 10 million cycles
MTTR < 30 min	CASE WORK Stainless Steel 304/316*/ M.S. Powder coated
TEMPERATURE -10°C to 55°C	HUMIDITY < 95% non-condensing
IP RATING IP54	WEIGHT 200 Kg Single Lane (Approx) 280 Kg Dual Lane (Approx)
OPTIONAL Barricade, Electronic Counter Display, Push Button, Remote	

Motorized P-Type Swing Gate

Godrej P-type swing gate is the simplest and most affordable way to provide access control for people with special needs, disabled personals, trolleys, and materials. This equipment come with latest PWM technology which can be controlled by push button or interfaced with various entrance control system.

Key Feature:



- DC brushless motor-based drive for greater reliability
- Passage clearance of up to 900mm
- Cabinet in mild steel powder coated or stainless steel
- Bi-directional operational control
- Low impact forces for maximum personal safety
- Battery backup in case of power failure
- Suitable for wheelchairs, bicycles and the transport of materials.
- Successful combination of affordable price and high quality
- High inner ability to integrate with all access controls and readers



Motorized P-Type Swing Gate



MOTORIZED P TYPE SWING GATE

Technical Specifications

MODEL GPG-S	MAINS SUPPLY 180 - 270 VAC, 47 - 63Hz/ 90 - 130V, 47 - 63Hz	WEIGHT 29 KG Approx.	DRIVE BLDC Motor
CONFIGURATION Fail Safe with battery backup	ACCESS TIME Adjustable 1-10 sec	TEMPERATURE -10 °C to 55 °C	HUMIDITY < 95% non-condensing
DIMENSION (L X D X H) 425 x 255 x 1070 mm ±5%	BODY TYPE M.S. Powder Coated Stainless Steel 304/316*	STANDARD COLOUR RAL7035 - PC, Black Structure PP	ROTOR ARM Stainless Steel
IP RATING IP54		OPTIONAL Queue Barricade/Integration with access control	

Pillar Type Swing Gate

Godrej Pillar Type swing gate is the simplest and most affordable way to provide access control to trolleys, materials and people with special needs and disabilities. This equipment offers the BLDC inline direct drive technology, which allows push button control and easy interface with varied entrance control systems.

Key Feature:



- Slim design with BLDC inline Direct drive for greater reliability
- Passage clearance of up to 900mm
- Cabinet available in powder coated mild steel or stainless steel
- Bi-directional operational control
- Low impact forces for maximum personal safety
- Enabled for wheelchairs, bicycles and the transport of materials.
- The right combination of quality and affordability
- Ability to integrate with all access controls and readers



Pillar Type Swing Gate



PILLAR TYPE SWING GATE

Technical Specifications

MODEL GPG-P	MAINS SUPPLY 180 - 270 VAC, 47 - 63Hz	THROUGHPUT 20 person per minute	DRIVE BLDC Inline Direct Drive Motor
CONFIGURATION Fail Safe	ACCESS TIME Adjustable 0-10 sec	TEMPERATURE -10 °C to 55 °C	HUMIDITY < 95% non-condensing
DIMENSION (L X D X H) 170 x 170 x 1000 mm ±5%	PASSAGE WIDTH 900mm	BODY TYPE Stainless Steel 304/316*	WEIGHT 45 Kg
POWER CONSUMPTION Standby: 20W Operating: 45W	OPTIONAL Digital Counters, Queue Barricade		

Retractable Flap Barrier

Godrej's Retractable Flap Barrier is extremely graceful, elegant and secured entry equipment; designed to control pedestrians entering or exiting the restricted areas. It provides an ideal contactless solution for admission control with high aesthetic and comfort requirements.

Key Feature:



- Inline direct drive/Brushless DC Motor based highly reliable drive
- Alarm function in case of illegal intrusion and reverse intrusion
- Short opening times less than second for a high through 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



Retractable Flap Barrier



RETRACTABLE FLAP BARRIER

Technical Specifications

MODEL	MAIN SUPPLY	POWER CONSUMPTION	DRIVE
GFB-S1/GFB-M1/GFB-S2/GFB-M2	180 - 270 VAC, 47 - 63Hz/ 90 - 130V, 47 - 63Hz	Stand By: < 30W, Operating: < 80W	Brushless DC Motor/ Inline Direct Drive
CONFIGURATION	ACCESS TIME OUT	DIMENSION (LXDXH)	PASSAGE CLEARANCE
Fail Safe/Fail Lock	Adjustable 1-10 sec	1150 x 260 x 1000 mm ±5% (Customizable) Standard Lane 1150 x 450 x 1000 mm ±5% (Customizable) Wide Lane	520 mm/ 900 mm
THROUGHPUT	FLAP WINGS	MCBF	MTTR
25-30 persons per minute	Acrylic/Glass/Polycarbonate	10 million cycles	< 30 min
OPENING/CLOSING TIME	CASE WORK	TEMPERATURE	HUMIDITY
0.8 sec	Stainless Steel 304/316* / M.S. Powder coated	-10°C to 55°C	< 95% non-condensing
IP RATING	WEIGHT	OPTIONAL	
IP32	100 Kg	Barricade, Electronic Counter Display, Push Button, Remote	

Full Height Flap Barrier



Full Height Flap Barrier is extremely graceful, elegant and secured entry equipment; designed to control pedestrians entering or exiting restricted areas. It provides an ideal contact less solution for admission control with high aesthetic and comfort requirements.

Key Feature:



- Servo 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 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



Full Height Flap Barrier



OVAL FLAP BARRIER

Technical Specifications

MODEL	MAIN SUPPLY	POWER CONSUMPTION	DRIVE
GFB-FH	180 - 270 VAC, 47 - 63Hz/ 90 - 130V, 47 - 63Hz	Less than 150W	Brushless DC Motor/ Servo Motor Drive
CONFIGURATION	ACCESS TIME OUT	DIMENSION (LXDXH)	PASSAGE CLEARANCE
Fail Safe/Fail Lock	Adjustable 1-10 sec	1400 x 300 x 1000 mm ±5% (Customizable)	500 mm
FLAP WING	FLAP WING HEIGHT	THROUGH PUT	OPENING/CLOSING TIME
Toughened Glass	900 /1200/ 1400/1600/1800 mm	35-40 persons/min	Less than 1 sec
MCBF	INGRESS PROTECTION	MTTR	CASE WORK
5 million cycles	IP32	< 30 min	Stainless steel 304/316/ M.S. powder coated
TEMPERATURE	HUMIDITY	WEIGHT	OPTIONAL
-10°C to +55°C	< 95% Non condensing	180 Kg	Emergency Exit Button, Barricade, Electronic counter display, Push button, Remote

Interlocking Mantrap

Design:

The Mantrap has a steel structure with metal cladding. The control unit and drive are integrated into the upper part of the body. Mantrap has Microprocessor based Intelligence. High performance BLDC motor with worm gear box drives the mantrap unit. Mantrap comes with built-in safety sensors it also has pressure mat and weight sensing mat for dual occupancy presence sensing.

Technology:

Motorized - Brush less DC motor with BOX worm gearbox with high output torque for fast acceleration and deceleration; crank-and-rod linkage ensuring perfect mechanical locking in both extreme positions resulting in no backlash or wear and tear and low maintenance and MOSFET base BLDC drive for accurate control.

Key Feature:



- Double Door reliable security
- Smooth & silent operation
- Designed for integration with any access control system and for various double door operating configurations
- Automatic door operators with built-in safety
- LED green and red indicator lights, Ceiling Light



Interlocking Mantrap



Interlocking Mantrap

Technical Specifications

MODEL MMT-1	MAINS SUPPLY Total Height : 2400mm ; Outer Diameter : 1100mm Headroom : 2000mm; Tolerance : +/-5%	FRAME Body: Stainless Steel, M.S. powder coated Sliding Wing : Glass/ Polycarbonate	PASSAGE WIDTH 550 mm ±5%
LOCKING MECHANISM BLDC motor with brake technology	DRIVE BLDC Motorized	INTERNAL COMPONENT Rust free alloy of high strength	INTELLIGENCE Microprocessor based
THROUGHPUT 5-7 persons/minute approx.	CONFIGURATION Fail safe, Fail lock, Emergency, Block	ACCESS TIME-OUT Adjustable 1-10 sec.	SENSORS Infrared beam, Pressure Mat, Weight sensing mat for Dual occupancy presence sensing
NOMINAL POWER CONSUMPTION Less than 220 w	AUDIBLE INDICATION Attractive audible buzzer sound for when unauthorized use is detected	OPTIONAL Electronic counter, Ceiling Light inside passage	AMBIENT OPERATING TEMPERATURE -10° to +50° C
OPERATING VOLTAGE 24 V DC	MAIN SUPPLY 230 VAC, 50 Hz	MCBF 5 Million cycles	DUTY CYCLE 100%
WEIGHT 580 kg approx.	IP RATING IP54		

Key Feature:



- **Slim Design** - Elegant 180 mm design
- Passage Width - 550/900 mm
- High Throughput: 25 Passenger per Min
- Barrier self-positioning after unexpected hit
- MCBF >10 million cycles
- De-boarding button at Exit
- Light Curtain Safety - **99 pair of sensor** for precise detection
- **Artificial intelligence** to different Passenger movement from baggage
- **Tailgating, intrusion, and baggage detection**
- Full length Image generation
- Anti-trap safety detection
- Central Monitoring and Control Option - over TCP-IP/RS 485

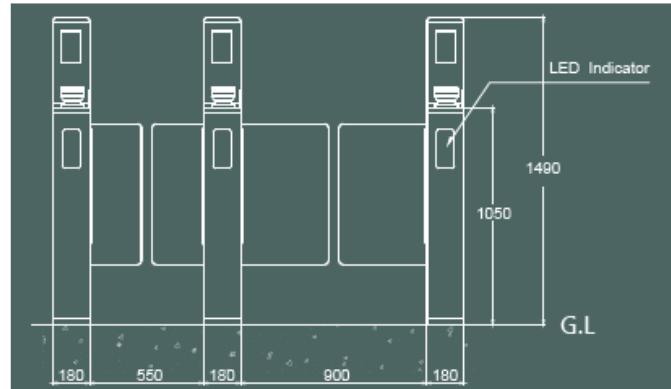
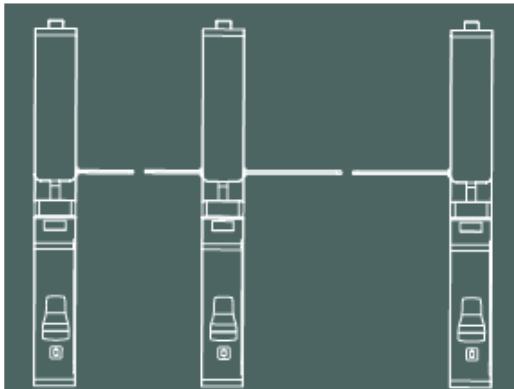
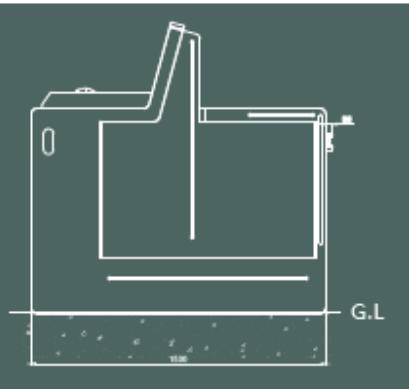
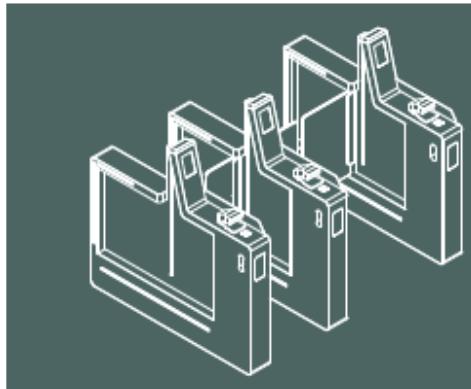


Airport boarding swing is designed for self-service boarding system, to control the passenger automatically to increase the throughput of boarding terminal

Model: GBG-SB/GBG-FB

POWER INPUT AC 110/220V, 50/60Hz, 1PH	DIMENSION 1500(l) X 180(W) X 1490(H) mm	CABIENT 1.5mm SUS-304 Stainless Steel	BARRIER 10mm Tempered Glass	SENSORS 99 Parts
PASSAGE WIDTH 550/900 mm	OPERATING TEMPRATURE 5°C ~ 50°C	RELATIVE HUMIDITY 0% ~ 95% (No Condensation)	OPERATING/CLOSING SPEED 0.6 ~ 2.5 Sec	INTERFACES Dry Contact/RS-485/TCPIP
CERTIFICATION CE (ISO 9001/ISO 14001)	IP RATING IP44	MCBF ≥10,000,000 Cycles	MTTR ≤30 Minutes	

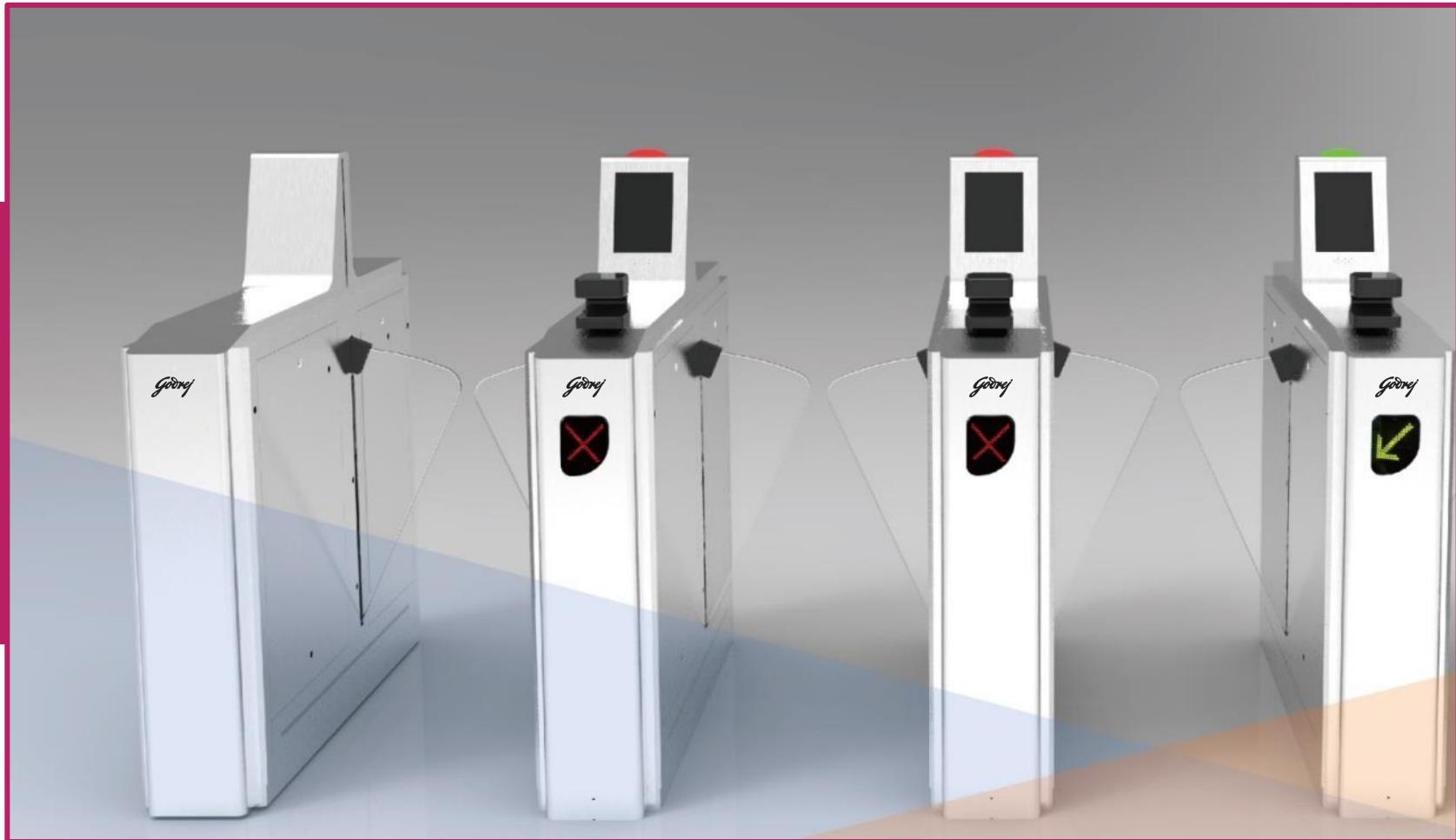
Dimensions



With LED Passage Status Indicator (Front)
With LED Guiding Indicator (Top)

E - Boarding Gate

Godrej



Customized Visitor Management Solution



Key Feature:



- Capture entry data for all the entrants (employee/security/visitor/vendor/contractor etc.) in the Muthoot Group premise
- Install full height turnstile for restricted access
 - Customized unique structure consisting of frame structure, cage and rotor
 - Rugged rotor assembly having 4 x 90 deg arms
 - **One Person at a Time**
- Visitor Management Kiosk Unit
 - OTP based access
 - Face detection feature while capturing photo
 - Voice/speech guidance to visitor



Face Recognition System (FRS)



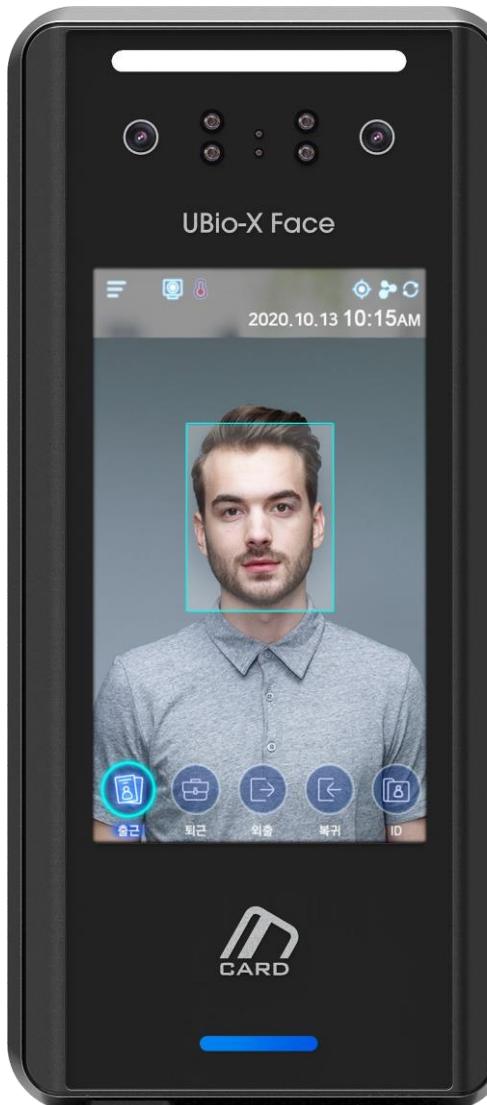
UBio-X Face FRS & Card Reader



Key Features:



- Walk Through and Multi Face Authentication
- Face Recognition from distance up to 3 meters.
- 20,000 Face (1:N) / 2,00,000 Face (1:1)
- 10,000,000 Transactions
- Store up to 20,000 transaction Images
- Android 7.12
- 1.4 GHz Quad Core Processor
- 2 GB RAM / 16 GB Flash ROM
- Illumination level up to 25,000 Lux, supports outdoor lighting conditions
- Card reader Range: 8 to 10cm.
- Mobile image registration through software for Face recognition: Available



UBio-X Pro2 : FRS, Finger & Card Reader



Key Features:



Mask Detection

- Walk Through and Multi Face Authentication
- Face Recognition from distance upto 3 mtrs
- Enterprise Multi-Model 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



UBio-X Pro2 : FRS, Finger & Card Reader



Sensor Specs

TYPE

Optical

RESOLUTION

500 DPI

1:1 VERIFICATION

< 1 sec

1:20,000 FACE

< 1 sec

1:1,00,000 FP

< 1 sec

TEMPLATE SIZE

400 bytes

EQUAL ERROR RATE

< 0.01%

UBio-X Face Premium : Premium FRS, Finger & Card Reader

OPERATING SYSTEM Android OS	PROCESSOR 1:8 GHz Quad Core Processor
DUST & WATER RESISTANCE IP 55	AUTHENTICATION METHOD Face, Card, Pin (Finger & QR code - Optional)
FACE MAX USERS 30,000 (1:N)/100,000(1:1)	FACE MAX USERS (OPTIONAL) 50,000 / 500,000 (1:N / 1:1)
TEXT LOGS 10,000,000	IMAGES 20,000
COMMUNICATION TCP/IP, Wiegand In & Out RS232, RS485, USB	DIMENSION 143.3(W) X 289.5(H) X 23.8(D)mm
RAM / MEMORY: 4GB / 16GB	CARD 125Khz-EM or 13.56MHz Smart Card HID Prox, HID iClass
DISPLAY -8" Clor Touch LCD Back Light	EMBEDDED CAMERA Dual Camera
KEYPAD Touch Screen	FUNCTION KEYS Soft
OPERATION TEMPERATURE -20 ~ 600C	TAR 97.99%

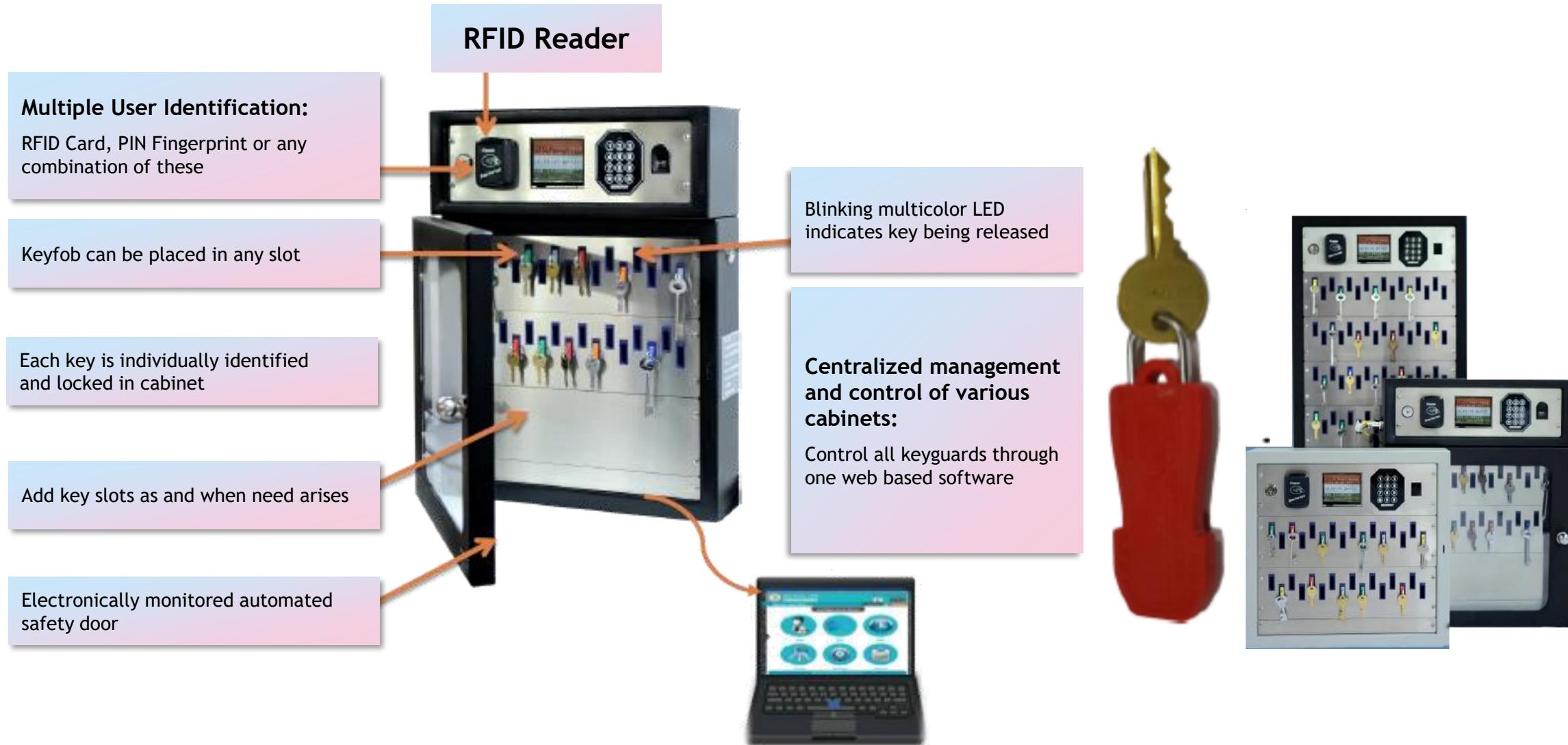


Finger Scan Core Technology

Type of Fake Fingerprint	Color of Face Fingerprint Color (Characteristic)	Type of Fingerprint	L-Company	S-Company	VIRDI
Silicon Type	Skin Color (Type of Skin Color)		✗	✗	○
	Blue Color (Blue Type)		○	✗	○
	Transparent Color (Transparent Type)		○	✗	○
Gelatin Type	Skin Color (Type of Skin Color)		○	✗	○
Film Type			○	○	○
Paper Type			○	○	○
Rubber Type			○	○	○
Artificial Finger			○	○	○
Wood Glue			✗	✗	○



Key Management System



Key Management System



Key Feature:



- No of Keys per Cabinet: 16/32/64/128/256
- TCPIP Communication with PC using software/web page
- Uses RFID (Smart Card) technology
- Holds keys securely
- Identifies keys and users uniquely
- Logs time stamped transactions
- Colour graphic LCD and touch keypad for user interface
- Card Type: Mifare/Proximity
- Operation
 - Card Only b) Card + finger
 - Card + Pin d) Only finger
- Battery backup Power Supply



Key Management System - with 7 inch touch screen



Key Feature:

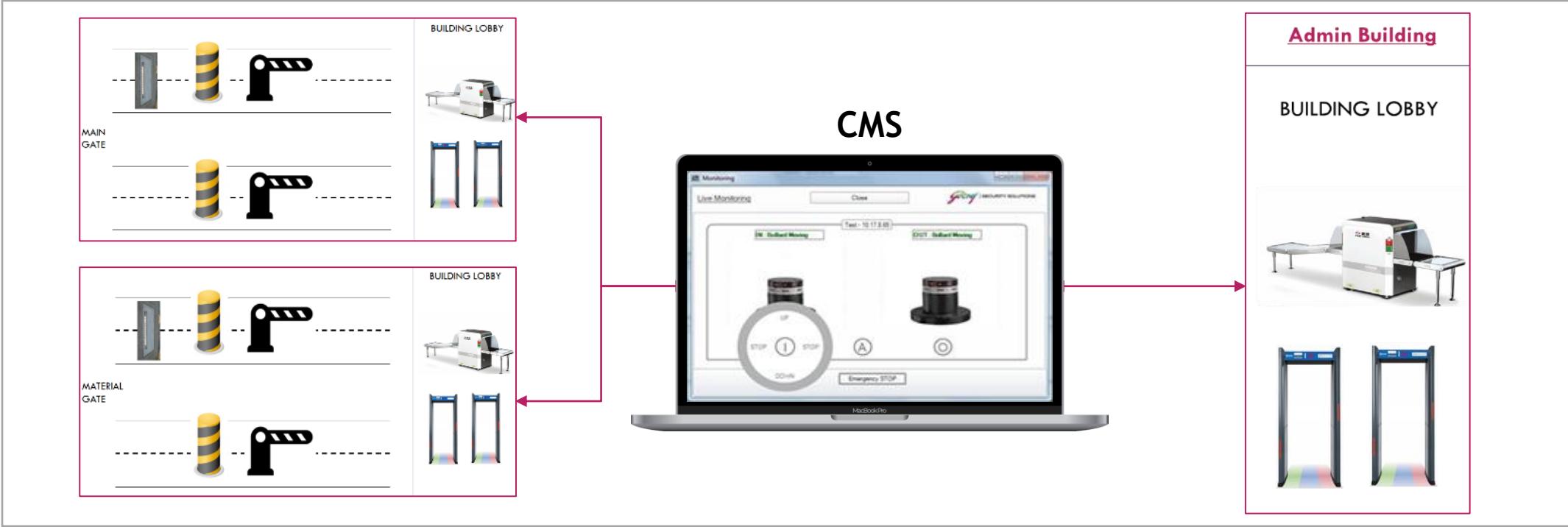


- 7" compour LCD touch screen for seamless user interface
- **Key capacity expandable up to 1024 keys in a single Panel**
- User identification through Fingerprint, RFID card or Pin
- Built in camera for snapshot of operation
- Enrolment can be done through Panel itself
- Saves manpower for Key management
- LED indication for selected key position
- Digital Audit trail





Integrated Solution



Features



Centralized monitoring and control from the dashboard



- Integration use cases
- Synchronization of bollard, boom barrier & UVSS
- Scheduled operation

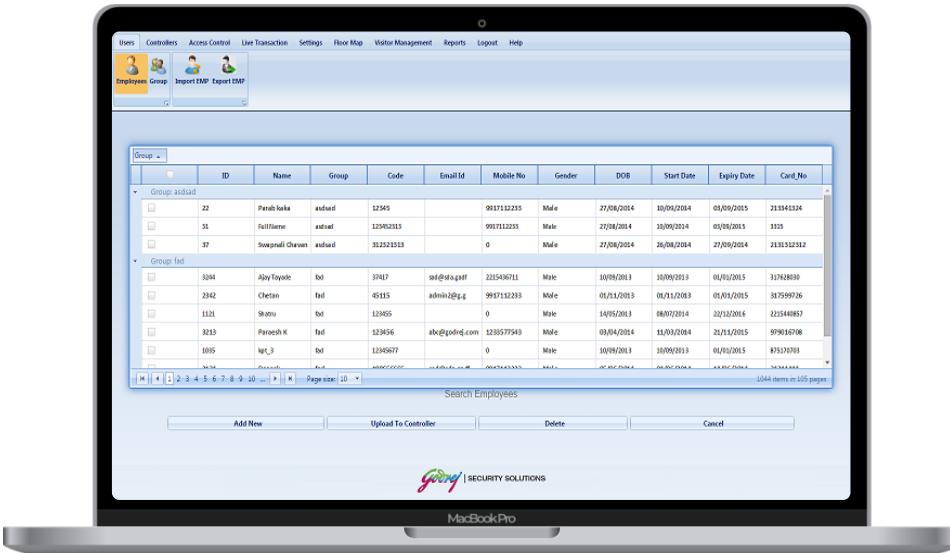
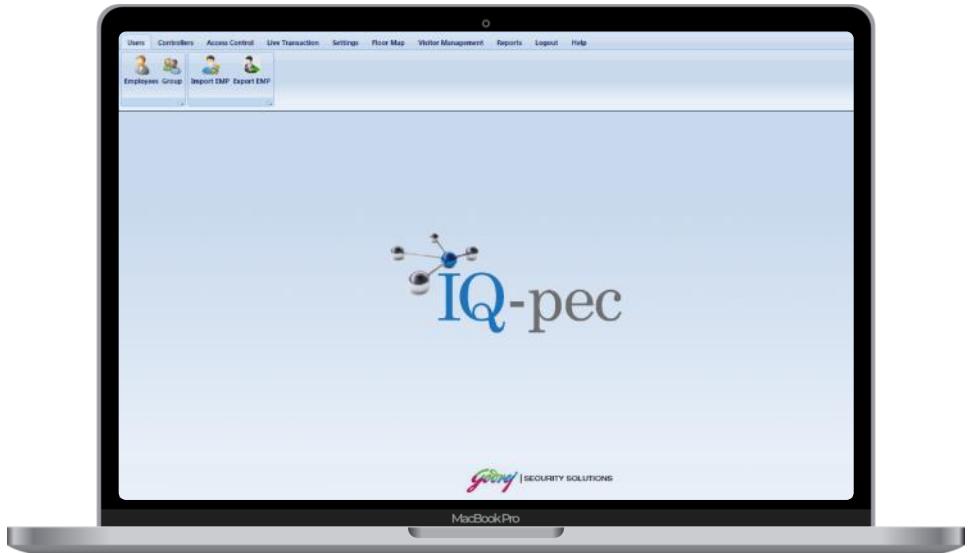
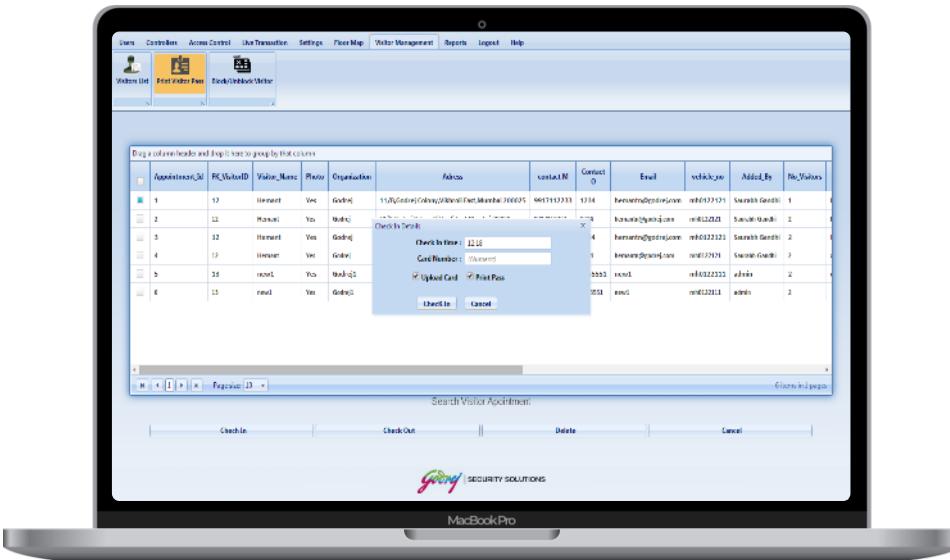
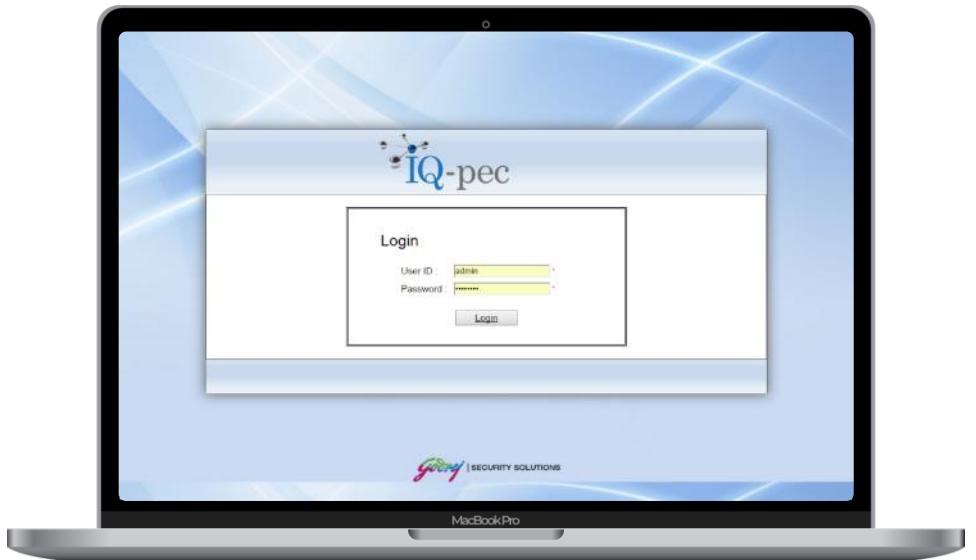


Audit logs

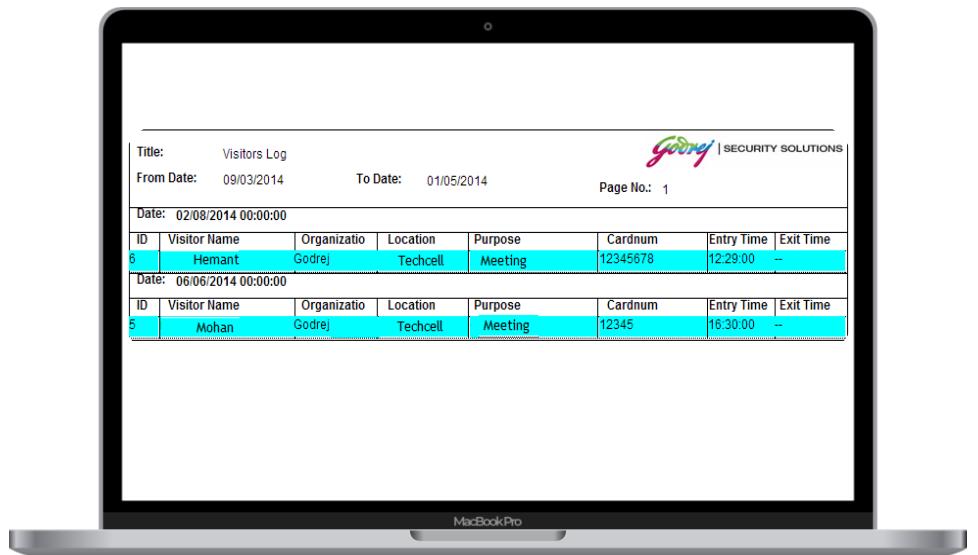
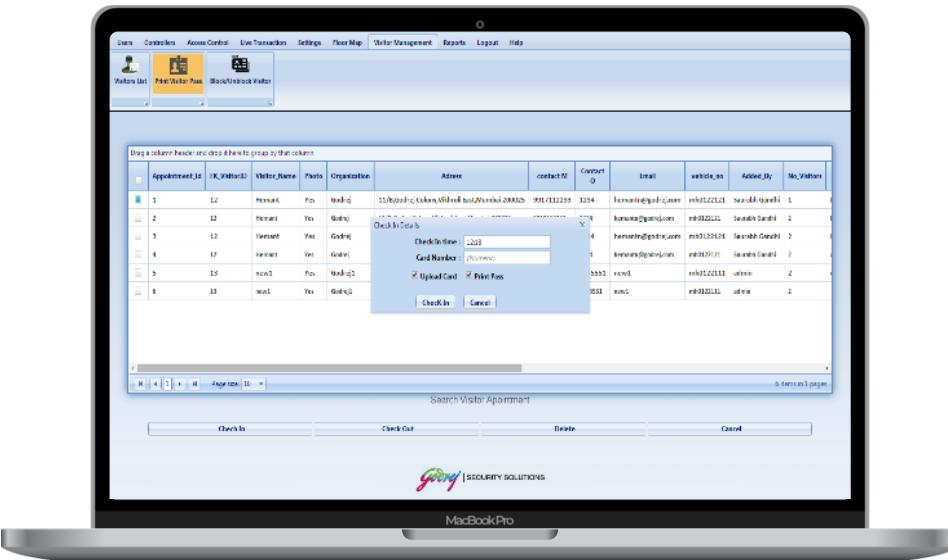
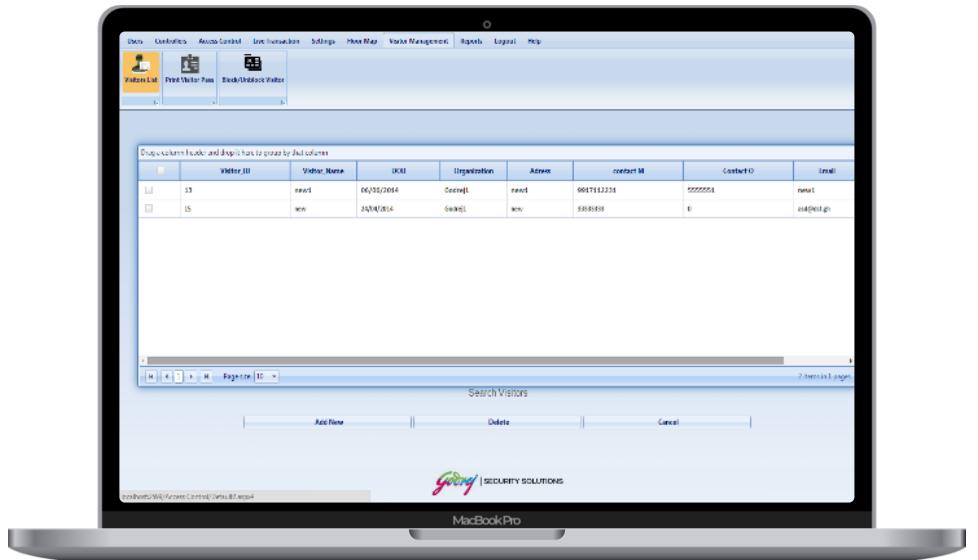


Reports

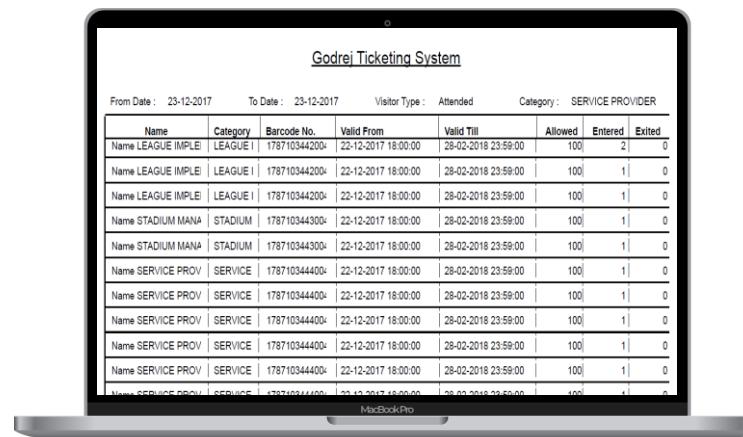
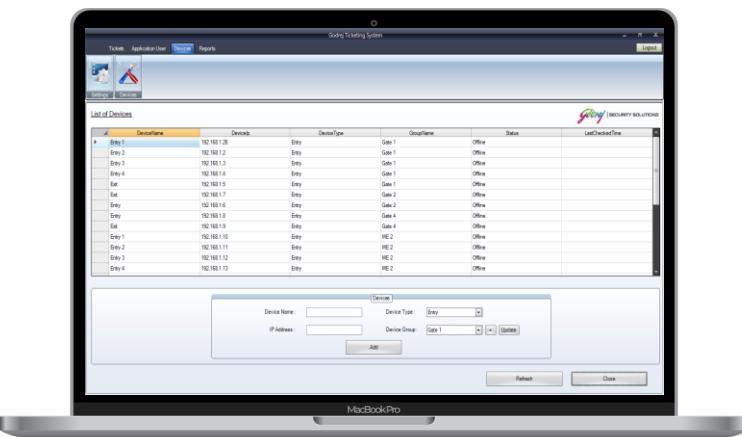
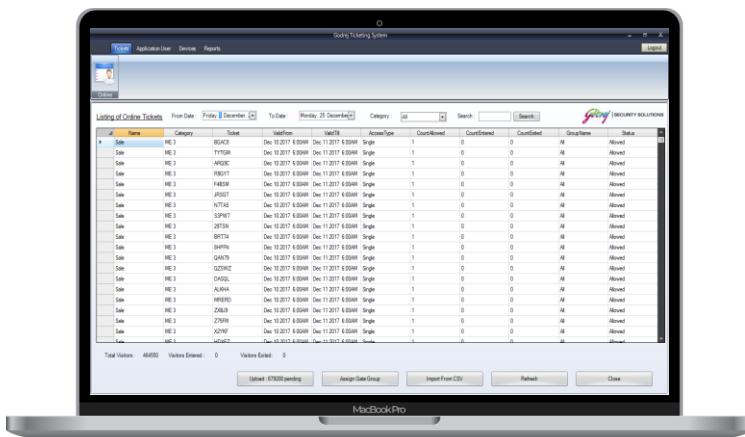
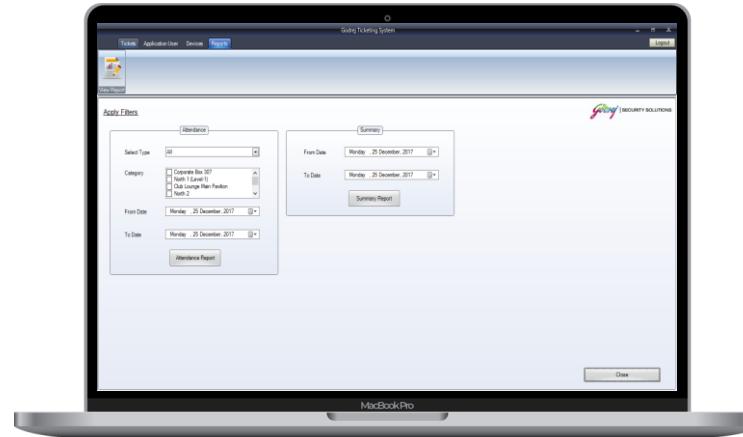
Software - Access Control



Software - Visitor Management



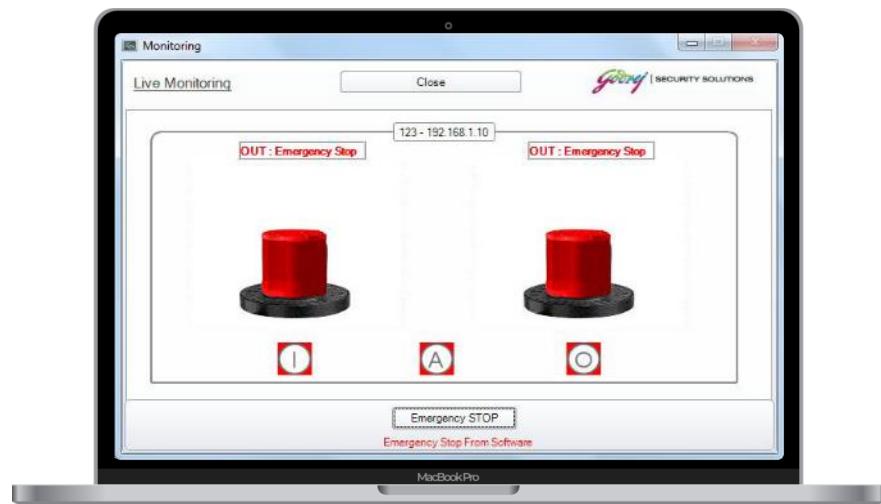
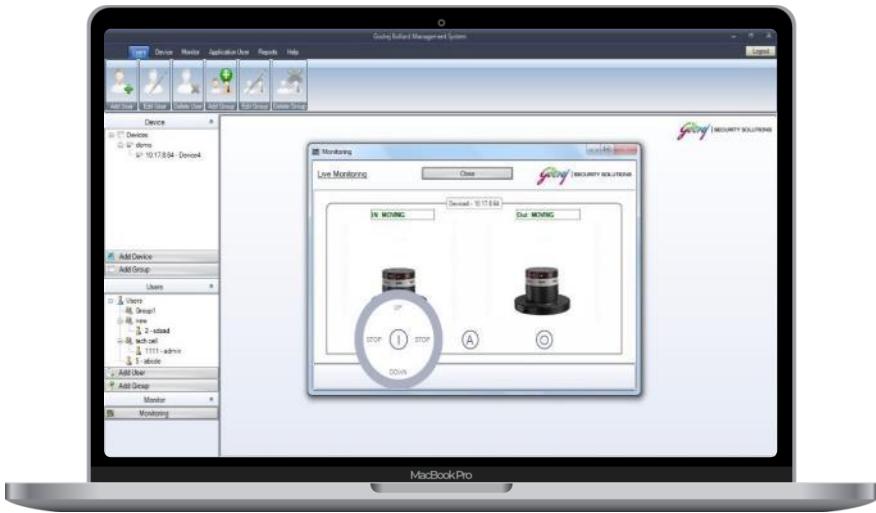
Software - Ticketing Management



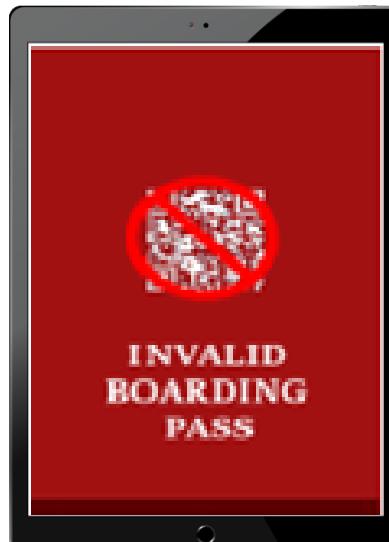
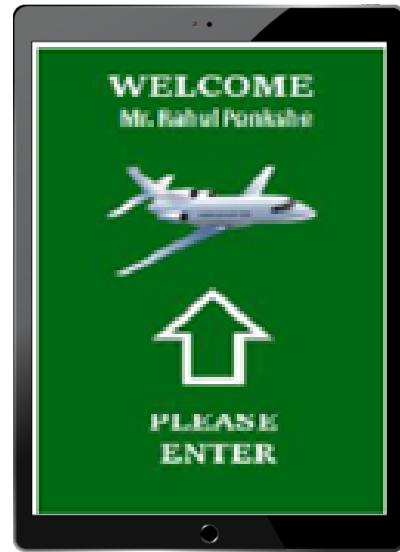
Software - Access Control Dashboard



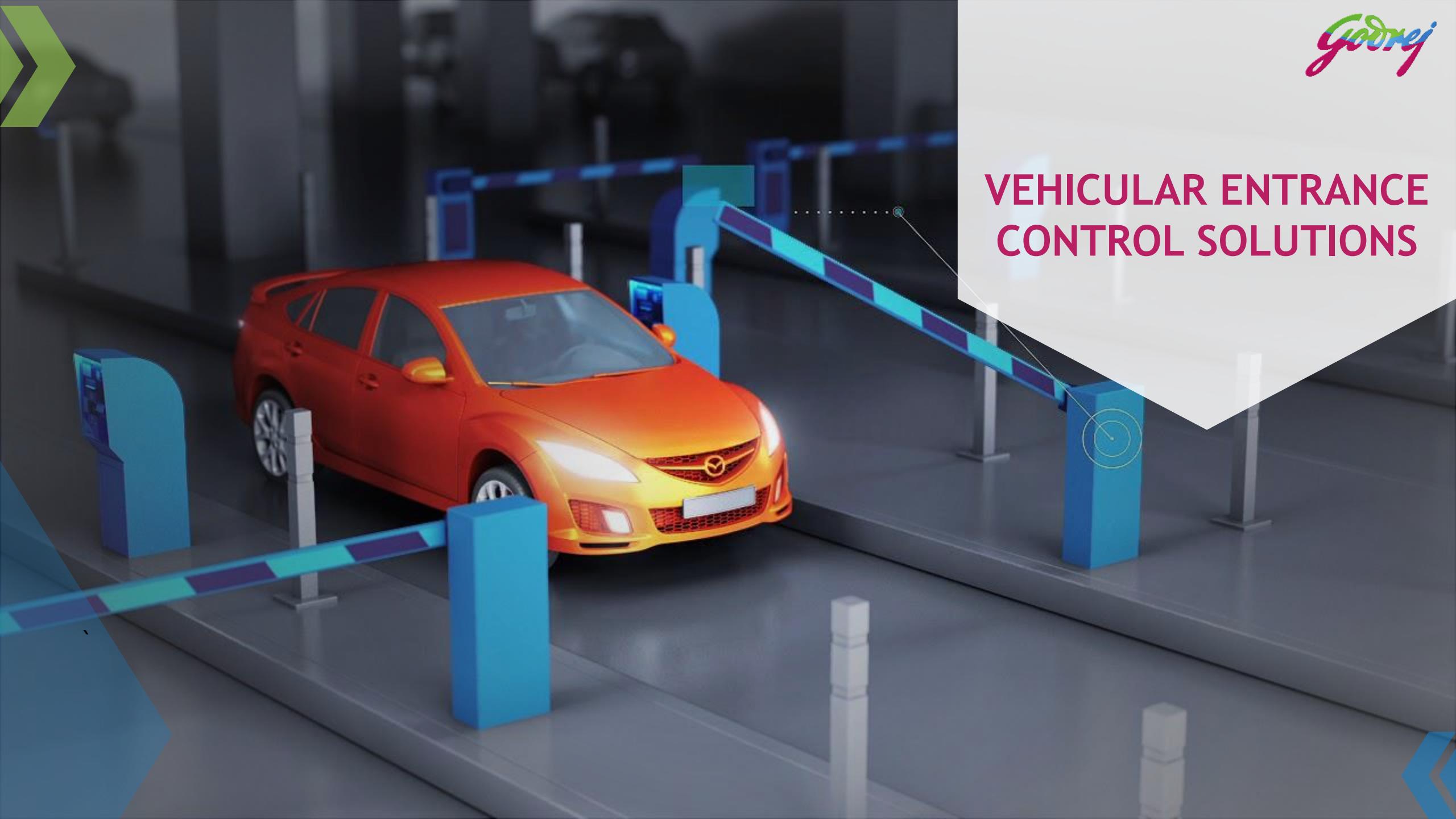
Software - Bollard Management Software



Software - Boarding Gate Software



VEHICULAR ENTRANCE CONTROL SOLUTIONS



GODREJ's Boom Barrier offer trustworthy security to entry and exit points for two wheelers and cars. Its motorized mechanism operates seamlessly in a continuous duty cycle.

Key Feature:



- Anti-bumping - The barrier will automatically go back when meet obstacles during closing
- Manual Clutch Key/wheel to release boom in case of power failure
- Aluminium die casting motor body meant for excellent thermal radiation
- Unique temperature calefaction design prevents freezing in cold weather
- Infrared photocell used for anti-bumping function
- Easy interface with Traffic Light indicator, Vehicle Loop Detector and any access control



Boom Barrier

BOOM BARRIER

MODEL MBB-PM-3/4.5/6	MAINS SUPPLY 180 - 270 VAC, 47 - 63Hz	POWER CONSUMPTION Stand By: < 20W, Operating: < 100W	DRIVE Motorized
ACCESS TIME OUT Adjustable 3-60 Sec	DIMENSION (LXDXH) 340 x 290 x 925 mm ±5%	COMMUNICATION RS485	MCBF 10 million cycles
MTTR < 30 min	DUTY CYCLE 100%	CASE WORK Mild Steel Powder Coated	BOOM ARM MATERIAL Aluminum with Red reflective strip
TEMPERATURE -10 °C to 55 °C	HUMIDITY <95% non-condensing	IP RATING IP54	WEIGHT 65 Kg
REMOTE CONTROL DISTANCE < 30M	OPTIONAL Photocell Safety Sensor/Vehicle Loop Detector/Traffic Light/ LED in arm (Red/Green)/UHF long Range Reader/UHF Windshield Tag/ UHF Hard Card/Two Door Controller/RFID Reader Software/ Provision to integrate with Spike Guard and Bollard		ACCESSORIES Remote Control, Wireless Push Button, Clutch Key

Key Feature:



- Blocking width - 2,00 to 6,00 m
- Blocking height - 675 to 1000 mm
- Electro-hydraulic drive unit
- Operation time lifting and lowering in 3 to 5 seconds
- Wheel load 100 kN
- Impact load 926 kN
- 7500 kg at a speed of 80 km/h
- Tested according to **PAS 68**
- Superior to K12



Road Block Type TC-RBS/BA SIC and TC-RB S/CR

DRIVE UNIT

Electro-hydraulic

ELECTRIC MOTOR CAPACITY

3.0 kW - 11 kW, 230/380/400 V, 3 phase, 50/60 Hz

TOTAL WEIGHT

2.200 kg - 5.500 kg approx

STATIC IMPACT LOAD

Min. 400 kN up to 926 kN horizontally to the front of the blocking element.
Other impact loads up to 5000 kN on request

SURFACE PROTECTION

TESCON-4S-Coating

HYDRAULIC FLUID

Mineral or biodegradable fluid

OPERATION TEMPERATURE RANGE

-20/+65°C, other range on request

POWER FAILURE/EMERGENCY OPERATION

By integrated hydraulic hand pump

ELECTRIC CONTROLS

Inside outdoor steel cabinet

WHEEL LOAD

100 kN vertically according to DIN 1072 200 kN axle load

OPERATION TIME APPROX

Raising 4 -10 sec., lowering 4 - 8 sec., depending on requested blocking height EFO on request

OPTIONAL EXTRAS

TESCON Emergency PowerPack

- For fast raising to raise the blocking shield up to 700 mm blocking height within 1 -2 sec

LED light in front of the blocking shield for better visibility

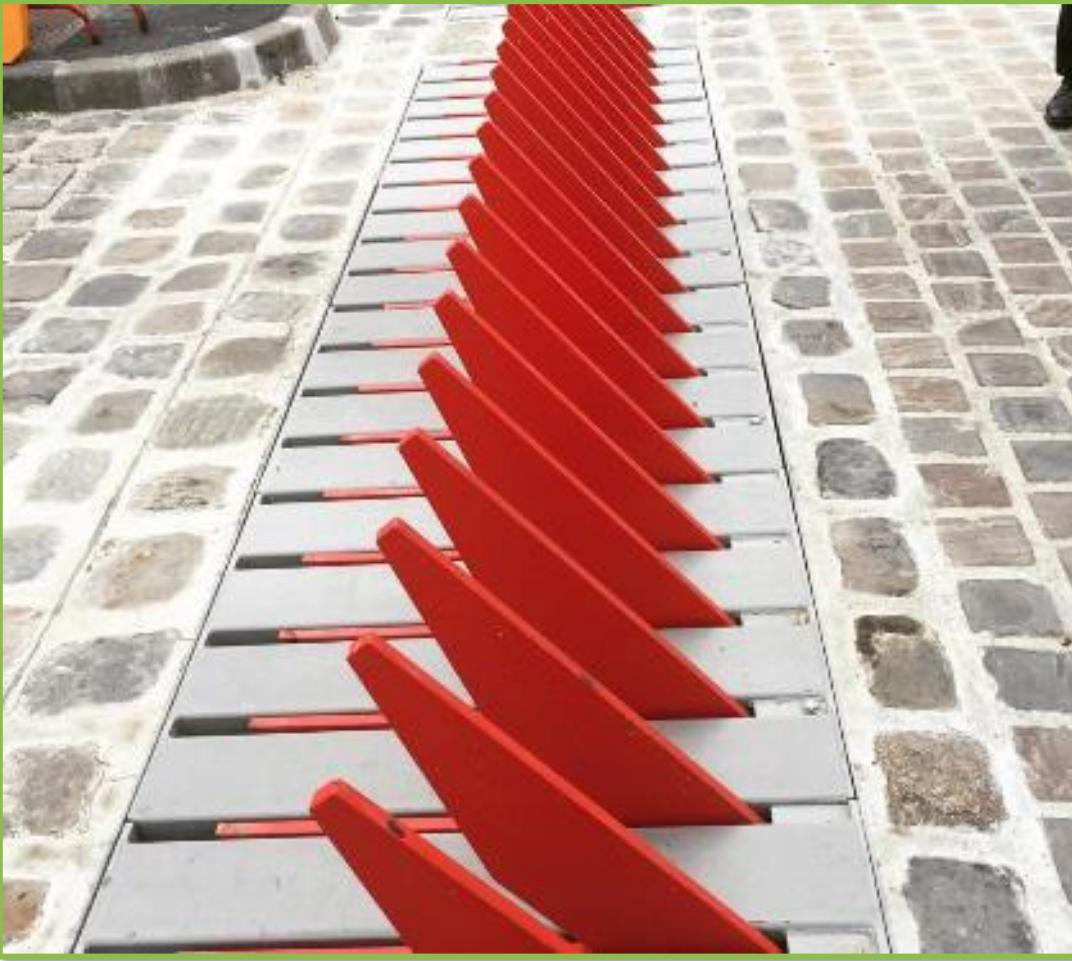
Induction Loop Control System

Heavy Duty Tyre-Killer

Key Feature:



- Blocking width - 2,00 up to 6,00 m
- Blocking height - 475 mm
- 60° Blocking position
- Electro-hydraulic drive
- Operation Time
 - Lifting and lowering in 2 to 3 seconds
- Wheel load 100 kN



Heavy Duty Tyre-Killer



BLOCKING WIDTH

From 2.00 m to 6.00 m in strps of 200 mm

BLOCKING HEIGHT

Heavy-duty steel spikes, 475 mm high, in 60° blocking position

ELECTRO-HYDRAULIC DRIVE UNIT

Separately inside lockable steel cabinet for outdoor installation

Max. 20 m distance from Tyre killer

OPERATION TIME

Raising time: 2-4 sec.

Lowering time: 2-4 sec.

VARIATIONS

With or without underground steel casing

Key Feature:



- Blocking width up to 6m
- Electro-hydraulic drive
- Impact load 852 kJ
- 7500 kg at a speed of 80 km/h



COMPACT DRIVE UNIT: ELECTRO-HYDRAULIC

ELECTRIC MOTOR CAPACITY

of adequate size, 3phase, 50/60 Hz Total weight: 3250 kg approx

DIMENSION OF UNDERGROUND CASING

approx. 3890 x 1490 x 1050 mm
(L x W x H)

STATIC IMPACT LOAD

926 kN horizontally (tested according to PAS68) to the front of the blocking element

WHEEL LOAD

100 kN vertically, axle load 20 tons according to DIN 1072

SURFACE PROTECTION

TESCON-4S-Coating

HYDRAULIC FLUID

Mineral type

OPERATION TEMPERATURE

range - 20/+ 65°C

POWER FAILURE/EMERGENCY OPERATION

by integrated hydraulic hand pump

ELECTRIC PLC-CONTROL

inside outdoor steel casing

High-Security-Blocking-Bollard

Key Feature:



- Blocking height - 1,00 m
- Diameter - 275 mm
- Electro - hydraulic drive
- Impact load 926 kN
- 7500 kg at a speed
- Tested according to PAS 68
- Superior to K12



Construction Details

Bollard locking height	600 to 1200 mm
Outer diameter	200 to 500 mm
Installation depth	250 to 1.600 mm
Raising time	2 to 8 sec.
Lowering time	2 to 6 sec.
Load capacity of the bollard	120 to 1.000 Kg



Options

- From individual LED bands to complete LED lighting
- Traffic lights
- Pushbuttons and panels
- Control columns
- Reflective warning tape
- Light barriers, indication loops
- Laser scanners
- Key switches, card readers
- And much more



Drive System



The separate compact hydraulic drive unit consists of a pump, three-phase motor, tank and solenoid valve block in a weatherproof housing. All hydraulic pipes are included in the deliverables

Technical Data



Drive:

Electro-hydraulic installed in lockable control cabinet

Operation:

Lifting-lowering via pushbutton, remote control, hand transmitter...

Emergency Manual Operation:

Via hand pump in control cabinet

Hydraulic fluid: Biodegradable

Certification



Our bollards are designed for impact loads K4, K8 and K12 and are statically calculated. All Standard Bollards are crash rated according to PAS 68



Godrej

SCANNING
SCREENING SOLUTIONS

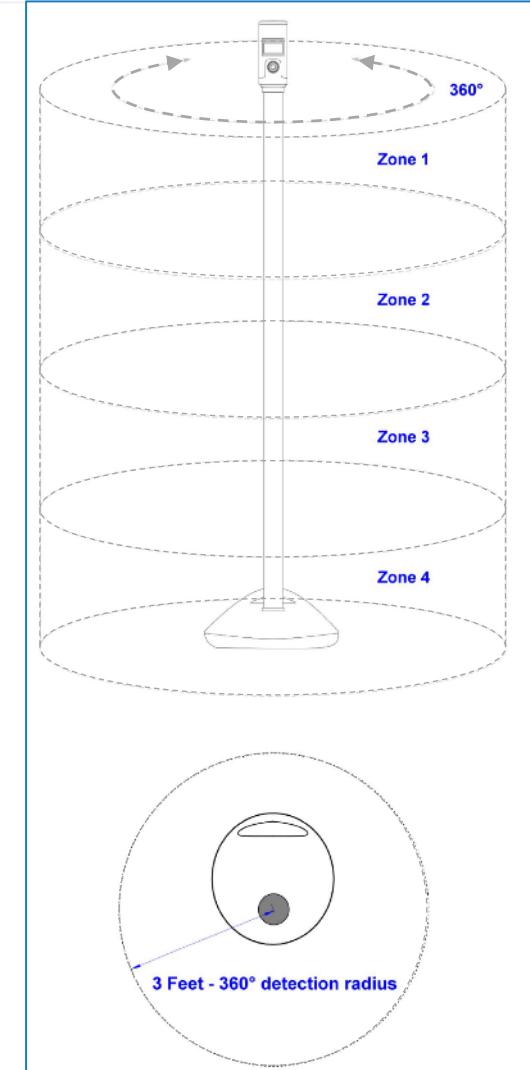
Pole Scan Ferromagnetic Contraband Detector

Godrej

Key Feature:



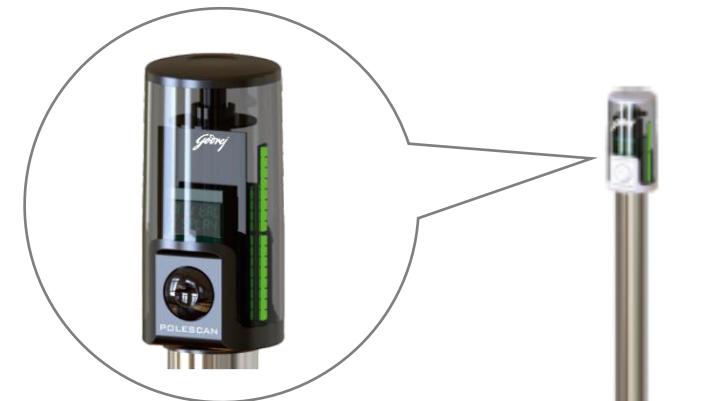
- Portable Single Pole Type Installation
- Detects Ferromagnetic Contrabands (cellphones, laptops, tablets, smart watches, guns, knives)
- 4 zone Detection For Accurate Pinpointing
- Better sensitivity to contrabands
- Enhanced false trigger rejection (Does not detect non-ferrous metals - Gold/Silver Ornaments, Aluminum objects)
- Built-in Lithium-Ion Battery with Backup of Over 10+ Hrs.
- The horizontal detection range 360° within 3 feet around the pole unit
- Weatherproof for Outdoor Use
- Compact and Light Weight (Less Than 10 Kgs)
- Detection of all cell phones and ferrous contraband concealed on the person or in body cavities



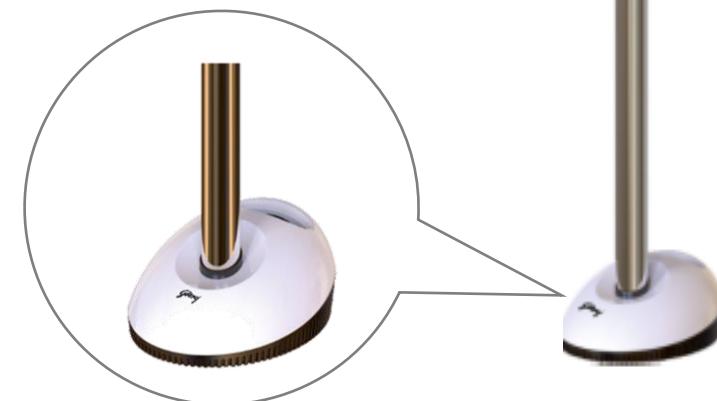
Pole Scan Ferromagnetic Contraband Detector

CONTACTLESS FRISKING

NOMINAL DETECTION RADIUS 90 cm	THROUGHPUT RATE 30-40 p/m	POWER SUPPLY 110-270 V(ac)
OPERATIONAL VOLTAGE 12 V(dc)	MAX POWER CONSUMPTION 12 W	FREQUENCY 50-60 Hz
PROTECTION LEVEL >=65 IP	WORKING TEMPRATURE -10-+65 c	DIMENSIONS WITHOUT BASE 200cm x 5.5cm x 5.5cm
DIMENSIONS WITH BASE 201.5cm x 32cm x 26cm	NET WEIGHT 10 kg	



GSCAN POLE



X-Ray Based Full Body Scanner

Technical Specifications:



- Scan Time: 4.5 secs
- Effective dose per scan: 0.25 μ Sv
- Effective penetration (Fe): 22mm

System Possibility & Key Features:



- Makes it possible to see what is concealed under the cloths and its prosthetic devices
- Weapons made of metal, ceramic, plastics, wood and other materials
- Components of blasting assemblies, detonators, wires
- Smuggled drugs in the stomach
- Explosive inside the body
- Precious stones and metals
- Chemical and biological materials in containers and hidden on the body



X-Ray Based Full Body Scanner

Advantages:



- Safe to use (AERB certification)
- Head to Toe Scans
- Already in use at Sabarmati and Baroda Central Jails
- Full body scan without any cut-off
- Best in class
- Customizable software
- Sturdy Design
- Easily maintained

Godrej Record:

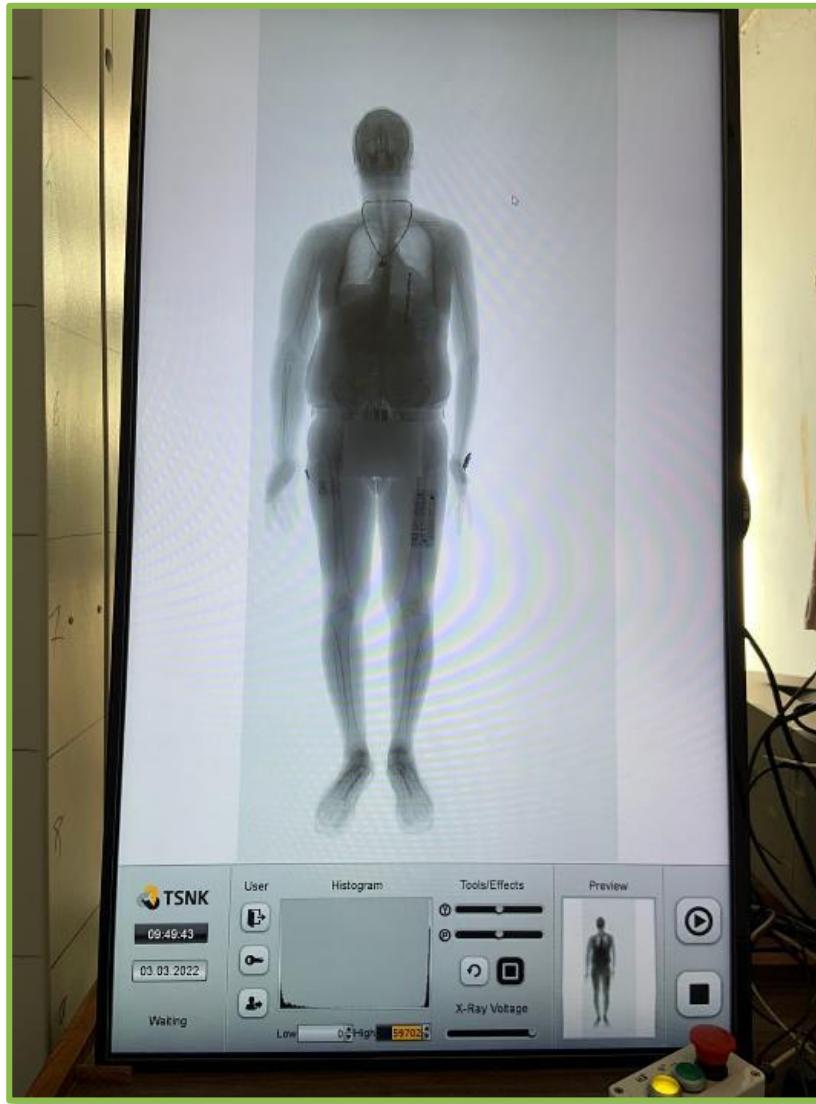


- Good record keeping and report generation as required by AERB
- Reference installations at Ahmedabad & Baroda Jail
- Godrej is the 1st supplier to install X-Ray Body Scanners in India. Successfully maintaining the systems till date since 2016



X-Ray Based Full Body Scanner - Site Images

Godrej



X-Ray Based Full Body Scanner



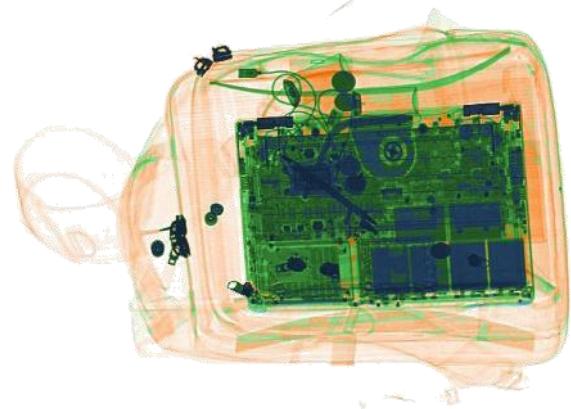
MATERIAL DETECTABILITY Metal Ceramic, Plastics, Powders, Explosives, Narcotics etc.	DETECTION AREA CAPABILITY Objects hidden on and inside the body	SCAN TIME, SECONDS Less than 5	WARMING TIME, SECONDS 120
THROUGH-PUT PERSONS/HOUR 120	PENETRATION (STEEL), MM 22	WIRE DETECTABILITY 36 AWG (0.12 mm)	TECHNOLOGY Low dose transmission X-Ray
DOSE PER INSPECTION < 0.25 μ Sv (<0,025 mRem)*	DIMENSIONS (L x W x H), MM 2450 x 1842 x 2470	WIDTH OF THE TUNNEL, MM 720	

X-Ray Baggage Scanners

Application:



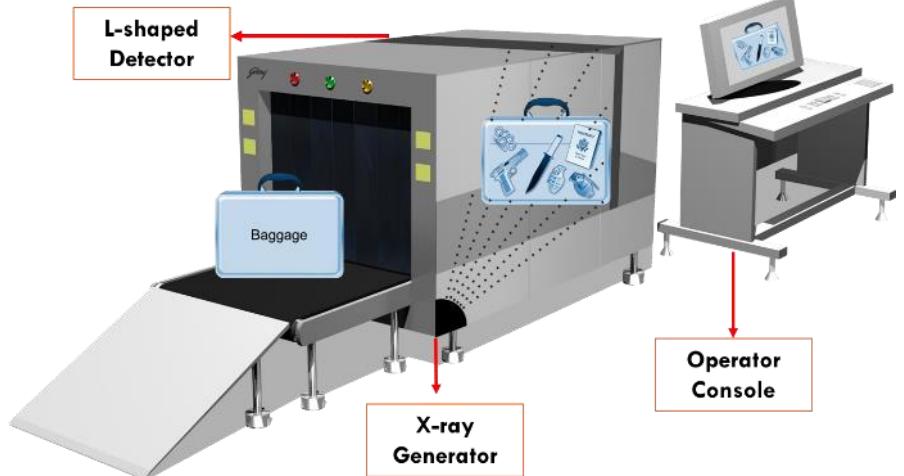
- Uses X-rays for the quick and efficient examination of handbags, parcels, suitcases etc



Key Features:



- Tunnel sizes ranging from 50cm X30 cm to 100cm X100cm approx
- Single generator 2D view, Single generator 3D (isometric view), Dual generator dual view options are available
- Multi-energy high penetration feature, Distortion correction through software, High density alert feature, Self-diagnosis feature
- Central supervisor console (Optional)
- Threat image projection feature (Optional)
- Accessories like stabilizer, rollers, CTPs etc are provided



X-Ray Baggage Scanners

RESOLUTION

42 SWG of wire

PENETRATION

36 mm of steel

ANODE VOLTAGE

160Kvp (Peak KV)

BEAM DIRECTION

From bottom

COLORING

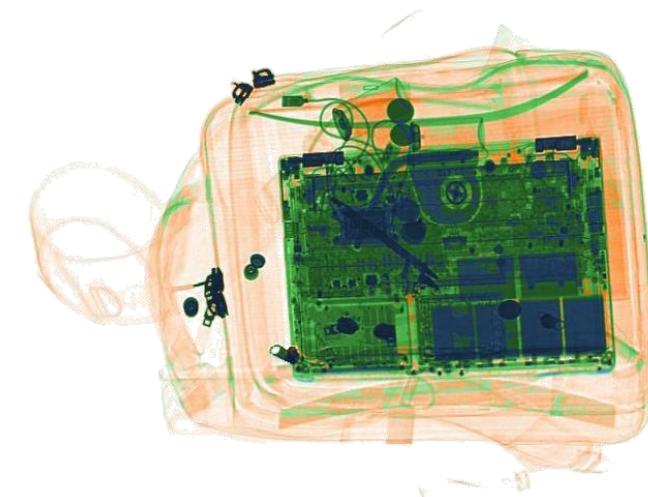
3 color and 6 color based
on atomic number signature

Sealed Oil Cooling

L shaped X-ray sensor
photodiode array

High Density Alert

Explosive and Narcotics Alert





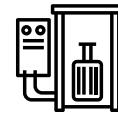
Baggage Scanning Machines

- 5030
- 5030TT
- 6040
- 6550
- 6550DV
- 7650
- 10080
- 100100
- 100100DV



Portable/Mobile Solutions

- Portable Security X Ray
- Vehicle mounted mobile X Ray Scanner
- Desktop/Mail Scanner (bomb detection)



Production Line X Ray Machines

- Production Line X Ray System
- CableScan
- Small/Medium Package Scanner

Certifications



Atomic Energy Regulatory Board (AERB) Certification - Govt. of India

- The mission of AERB is to ensure that the use of ionizing radiation and nuclear energy in India does not cause unacceptable impact on workers, members of the public and to the environment
- All XBIS products meet all the applicable standards laid down by the AERB and have been certified as such by AERB



ISO 9001:2008 Certification

- XBIS has been certificated as ISO 9001:2008 for design, development, manufacture & supply of stationary X ray scanners and portable scanners and the quality of the products can therefore be guaranteed



CE Certification

- XBIS products also hold the CE certificate which stands for European Conformity. The letters confirm that the product meets the requirements of all relevant European Directives. The CE marking also indicates to governments and private parties that the product can be legally sold within the European Union



Food Safety and Film Safety Certification

- Food products have been tested in XBIS baggage scanners and have been declared safe by Department of Atomic Energy. Machines are also certified as Film Safe



ISO 14001 Certification

- The ISO 14000 family of standards provides organizations to manage their environmental responsibilities



RITES Certification

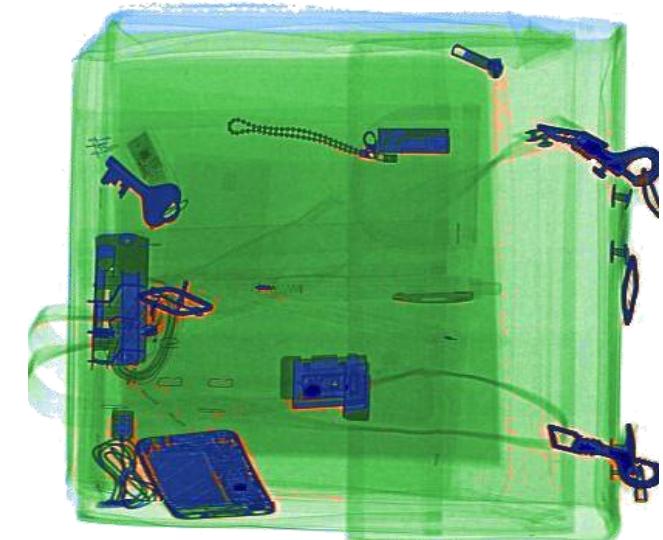
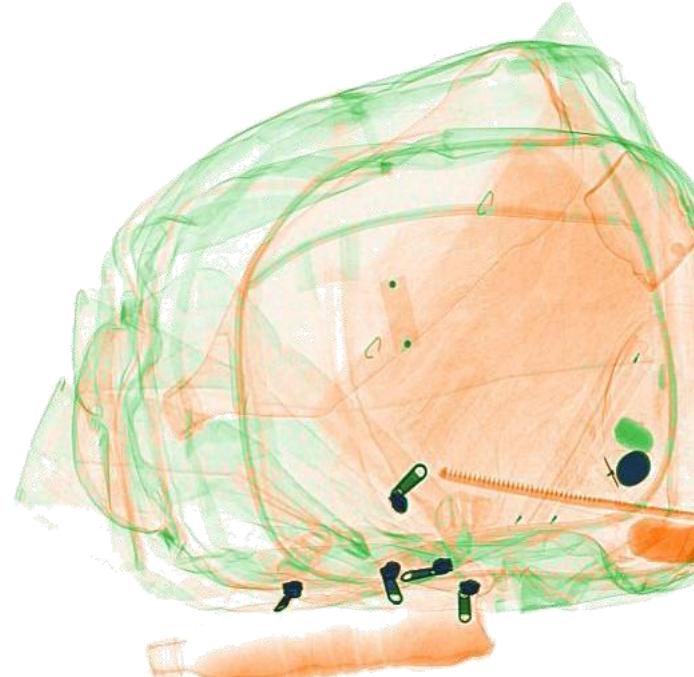
- RITES inspects machines as per RDSO standards before deployment of machines at Indian Railways

Key Differentiators - Software

Key Features:



- 3 color and 6 color image based on atomic number classification
- Explosive and Narcotics detection
- 7 8 9 Alert for explosives
- Start up and Self Diagnostic Report Facility
- Automatic and Manual Image Archiving
- Baggage Counter, Image Recall, Image Review, Print Image Facility
- Automatic belt start and stop
- High Penetration Function, low penetration function
- Edge & Variable Edge Enhancement
- Threat Image Projection (TIP)
- Single key shut down
- Organic & Inorganic Image Separation
- Thin Metal scanning
- Bar code tagging functionality
- Brightness, Contrast, Gamma Control
- Date, Time, Operator, Supervisor, TIP, Baggage Report
- High Resolution 22 LED Flat Monitor, 1920 x 1280 Image Size
- Auto Deletion Facility, Automatic Storage of Images and more features



- X-Ray Baggage Inspection System 5030 X Ray Machine is ideal for various uses such as scanning incoming mail, checking product packaging, scanning small parcels etc.
- The systems offer a large inspection chamber and imaging area while retaining a small machine footprint. This makes it ideal for locations where space is at a premium
- The unit has robust steel construction with complete lead shielding and can be located safely in any workplace area

Key Features:



- Superior detection capabilities
- Sophisticated image capture, display and archival
- Complete system diagnostic check at start up
- Exterior emergency stop buttons
- Audible and visual pre-warn alarm system
- Low base for easy loading/unloading



WEIGHT 185 kgs.	TUNNEL SIZE 500 (W) x 300(H) mm	COLORING 3 color and 6 color based on atomic number signature
RESOLUTION 42 SWG of wire	PENETRATION 14 mm of steel	HIGH DENSITY ALERT 10,000 Configurable levels
EXPLOSIVE & NARCOTICS ALERT 10,000 Configurable levels	ANODE VOLTAGE 100Kvp	BEAM DIRECTION From Top
COOLING/DUTY CYCLE Sealed oil cooling/ 100%	X-RAY SENSOR L shaped photodiode array	GRAY LEVEL 16 Bit
CONVEYOR SPEED Approx. 0.2 m/s	MAX. LOAD 100 Kg.	CONVEYOR TYPE Belt conveyor

Key Features:



- X-Ray Baggage Inspection System 6040 X-ray Security Inspection system is designed for medium packages. The system combines the advantage of highly efficient solid state detectors, digital image processing, computer graphics and smart algorithms to provide the user with reliable high resolution image, superior image processing functions and system self diagnostic
- X-Ray Baggage Inspection System 6040 Multi Energy X-ray Security Inspection system features simple installation, convenient operation and easy maintenance
- Key Installation locations: For inspection of medium size cabin & hand baggage in government institutions, shopping malls, multiplex theatres, embassies, convention centers, airports as well as schools, offices, software development centers etc.



WEIGHT Approx. 460 Kg	TUNNEL SIZE 600 (W) x 400 (H) mm	COLORING 3 color and 6 color based on atomic number signature
RESOLUTION 42 SWG of wire	PENETRATION 36 mm of steel	HIGH DENSITY ALERT 10,000 Configurable levels
EXPLOSIVE & NARCOTICS ALERT 10,000 Configurable levels	ANODE VOLTAGE 160Kvp	BEAM DIRECTION From bottom
COOLING/DUTY CYCLE Sealed oil cooling/ 100%	X-RAY SENSOR L shaped photodiode array	GRAY LEVEL 16 Bit
CONVEYOR SPEED Approx. 0.2 m/s	MAX. LOAD 165 Kg.	POWER CONSUMPTION 0.5 KVA

- X-Ray Baggage Inspection System 6550 cabin baggage x-ray security inspection system is a dual energy, state of art scanner designed for cabin baggage, and large parcels
- The 6550 system has a tunnel size of 650 mm by 500 mm and can scan objects that exceed standard dimensions for hand luggage
- 6550 provides highly efficient solid state detectors which are maintenance free and smart algorithms for superior detection capabilities
- Key Installation locations: Government institutions, hotels, theatres, embassies, convention centers, colleges, metros, airports, railway stations, bus stands, police departments, defense, border security



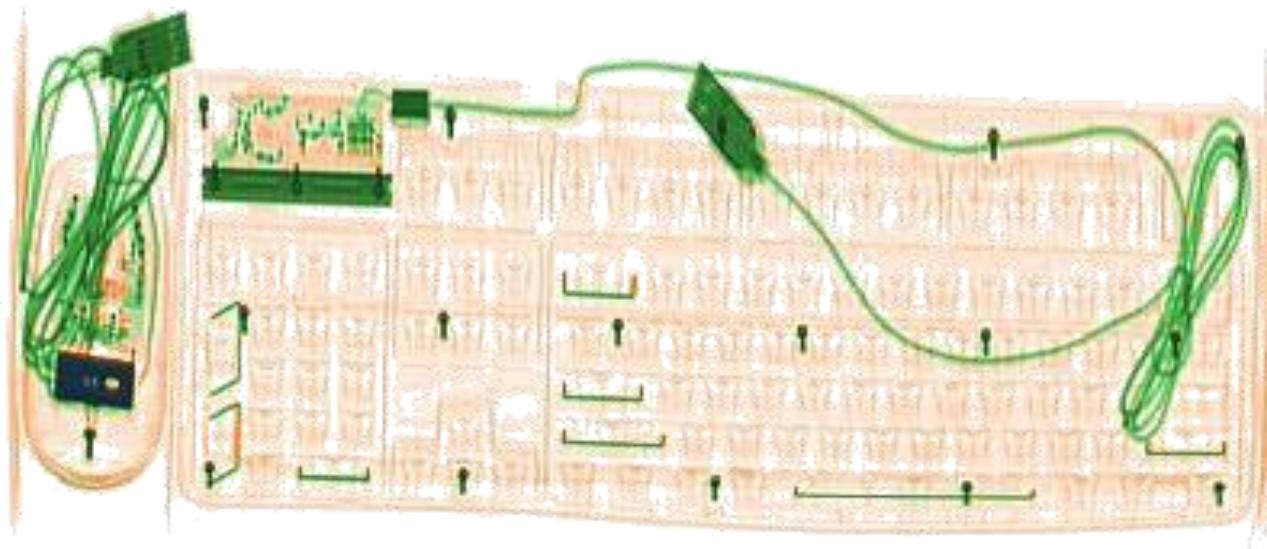
WEIGHT Approx. 500 Kg	TUNNEL SIZE 650 (W) x 500 (H) mm	COLORING 3 color and 6 color based on atomic number signature
RESOLUTION 42 SWG of wire	PENETRATION 36 mm of steel	HIGH DENSITY ALERT 10,000 Configurable levels
EXPLOSIVE & NARCOTICS ALERT 10,000 Configurable levels	ANODE VOLTAGE 160Kvp	BEAM DIRECTION From bottom
COOLING/DUTY CYCLE Sealed oil cooling/ 100%	X-RAY SENSOR L shaped photodiode array	GRAY LEVEL 16 Bit
CONVEYOR SPEED Approx. 0.2 m/s	MAX. LOAD 165 Kg.	POWER CONSUMPTION 0.8 KVA

X-Ray Baggage Inspection System 7560 baggage scanner is designed for large size packages such as cabin baggage, parcels etc. The system combines the advantage of highly efficient solid state detectors, digital image processing, computer graphics and smart algorithms to provide the user with reliable, high resolution image, superior image processing functions with system self diagnostic.

Key Features:



- Superior detection capabilities
- Low cost of ownership
- Advanced x-ray photodiode array technology
- Sophisticated image capture, display and archival
- Performance: Typical penetration 36mm of steel



WEIGHT Approx. 700 Kg	TUNNEL SIZE 750 (W) x 600 (H) mm	COLORING 3 color and 6 color based on atomic number signature
RESOLUTION 42 SWG of wire	PENETRATION 36 mm of steel	HIGH DENSITY ALERT 10,000 Configurable levels
EXPLOSIVE & NARCOTICS ALERT 10,000 Configurable levels	COOLING/DUTY CYCLE Sealed oil cooling/100%	GRAY LEVEL 16 Bit
X-RAY SENSOR L shaped photodiode array	CONVEYOR SPEED Approx. 0.2 m/s	MAX. LOAD 165 Kg.
	POWER CONSUMPTION 0.8 KVA	

- X-Ray Baggage Inspection System 100100 large baggage x-ray security inspection system is a dual energy, state of art scanner designed for large cargo as well as small parcels. This scanner is available with tunnel size of 1000 mm x 1000 mm
- The 100100 system has a tunnel size of 1000 mm by 1000 mm and can scan small as well as large objects with equal efficiency
- 100100 systems use a high-resolution photo diode x-ray array detector that increases detection sensitivity, improves image resolution and optimizes image presentation. 100100 large baggage inspection system can detect organic and inorganic items such as weapons, explosives and narcotics
- Key Installation locations: Airports, Government institutions, hotels, embassies, metros, railway stations, police departments, defense, border security etc.



Low Bed Version

WEIGHT Approx. 900 Kg	TUNNEL SIZE 1000 (W) x 1000 (H) mm	COLORING 3 color and 6 color based on atomic number signature
RESOLUTION 42 SWG of wire	PENETRATION 35 mm of steel	HIGH DENSITY ALERT 10,000 Configurable levels
EXPLOSIVE & NARCOTICS ALERT 10,000 Configurable levels	ANODE VOLTAGE 160Kvp	BEAM DIRECTION From top or bottom
COOLING/DUTY CYCLE Sealed oil cooling/ 100%	X-RAY SENSOR L shaped photodiode array	GRAY LEVEL 16 Bit
CONVEYOR SPEED Approx. 0.2 m/s	MAX. LOAD 200 Kg.	POWER CONSUMPTION 1.0 KVA

UVSS (Under Vehicle Scanning System)

Key Features:

- Complete, clear & high-resolution view through stitched image
- Ability to Zoom at any point of suspect - No loss of resolution
- Integrated illumination system makes inspection fast, easy and accurate in any lighting conditions
- Last Image Comparison - Provides last or standard image comparisons
- Vehicle need not be stopped and can pass through up to a speed of 30 Km/hr
- Linked to a database to allow images to be saved for later access and further investigations

Customer References:



- DRDO CABS, Bengaluru
- CM House Patna
- SEBI Bhavan, Mumbai
- Rashtrapati Bhavan
- BPCL, Multiple Locations
- HPCL, Multiple Locations
- IOCL, Multiple Locations
- DRDO Bhavan



Applications:



- Defence Facilities
- Government Buildings
- Embassy Compounds
- Energy Plant Entrances
- Correctional/Prison Facilities

Area Scan UVSS:

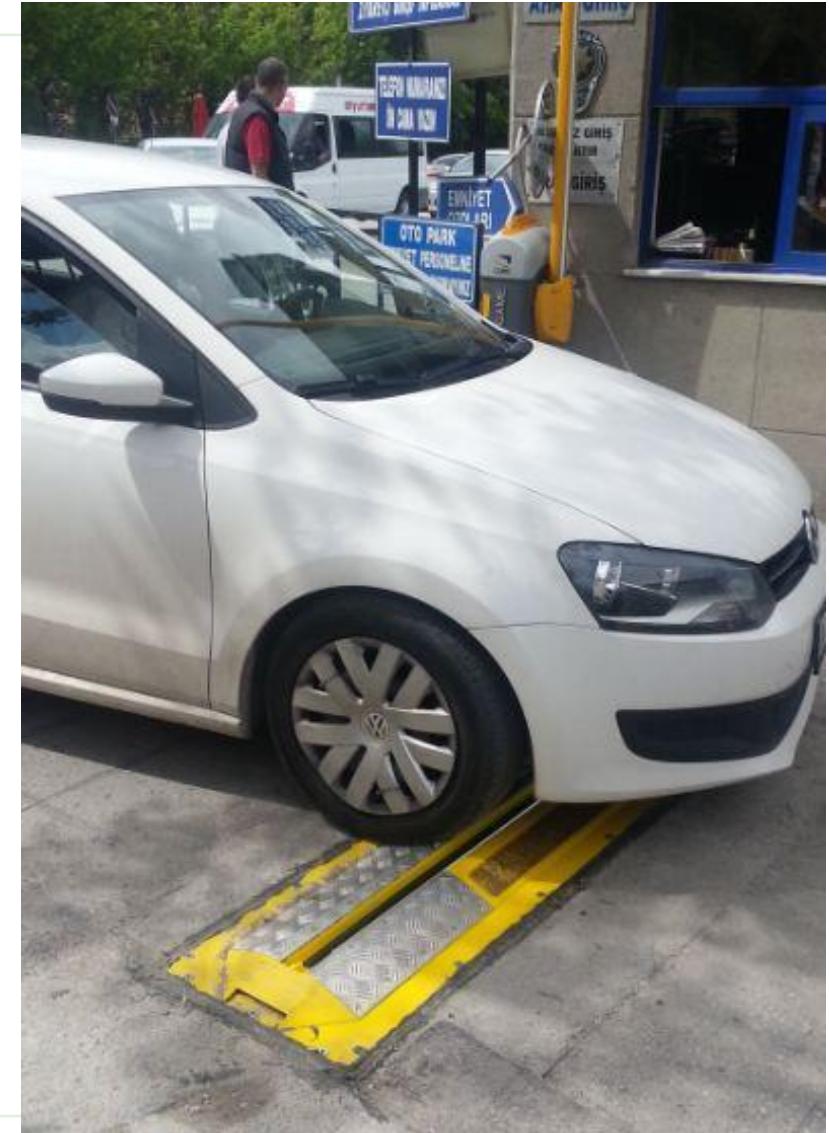


Area scan UVSS users Area scan camera that gives clear and crise images of the under carriage. The image can be zoomed to view specific area This is still images this could be mounted under ground in a pit or on the surface in a ramp type enclosure made of hard steel withstand upto40 tons.

Model No.:

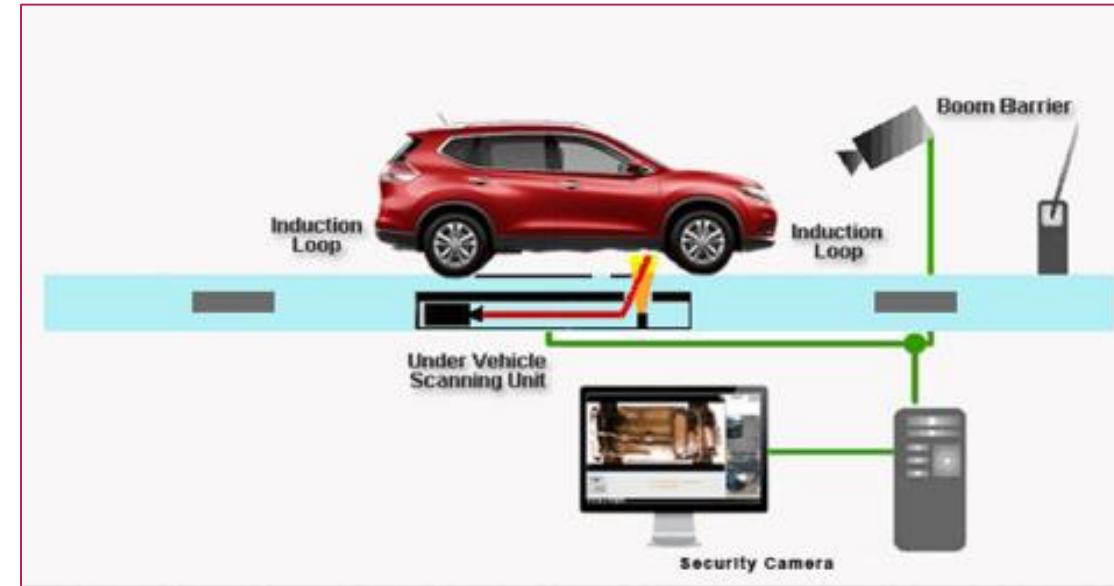


- G-Scan UVSS 2D
- G-Scan UVSS 3D



UVSS (Under Vehicle Scanning System)

Main Camera	
• Sensor Type - CCD CMOS	
• Scanner Type - Area Scan	
• Resolution - 1280 x 1024 pixels	
• Video Format - Gige	
• Housing - IP68 Compliant	
• Power Supply - POE	
• Maximum Scan Speed - 20 KM/H	



Processing Unit	
• Processor - Intel i7Ram	
• Ram - 16 GB	
• Storage - 1 TB	
• Display - 18.5 inch	
• Connectivity - Gige LAN	

Driver Imaging & ANPR Camera	
• Camera Type - Box Camera with Varifocal Lens	
• Resolution - 1.3 MP	
• Housing - IP 67 Compliant	
• Power Supply - POE	

Auxiliary Camera	
• No of Cameras - 3	
• Camera Type - Outdoor IP Camera with IR LED	
• Resolution - 1.3 MP	
• Power Supply - POE	
• Video Format - H.264/MJPEG	

Electro Mechanical Fixtures	
• Dimension - 1.8 MT x 1 Mt	
• Material - Structured Stainless Steel	
• Finish - Multi layered Epoxy	
• Lighting Unit - LED Strip lights	
• Vehicle Detection - Electro-Magnetic Loop sensor	

Hand Held Metal Detector(HHMD)

Application:



- Detection of metal using Handheld Metal Detector(HHMD)

Key Features:



- Fast Weapon Screening and Theft Prevention
- **Low Field Strength:** Will not affect Pacemakers and Magnetic Media
- **No False Alarms:** Digital Go/ No-go Threshold Circuit
- **Instant Response:** Clear Visual and Audio Alarms
- **Fast Scan Rate:** Highly Sensitive Scanning Circuit
- Three State Blue LED Alarm and Status Indicator
- Electronic Switching with Tactile Feedback
- Elegant ABS Housing
- Non-intrusive Body Searching
- Detects All Metals and Alloys

Certification:



- CE, pacemaker safety, IP rating etc



Hand Held Metal Detector(HHMD)



DETECTS

Medium Pistol at 10° (250 mm),
Pistol, 25 cal, at 8° (200 mm), Mini Revolver, 22 cal.
at 6° (150 mm), Catridge, .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

POWER REQUIREMENT

Gscan Hz - 10 works on rechargeable batteries

DIMENSIONS

Length: 394 mm, Body Width: 36 mm,
Thickness: 33 mm, Weight: 300 gms (approx.)

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

ALARM INDICATORS

High efficiency piezo electric beeper and multi-function BLUE LED indicator.
The BLUE LED indicates the following three functions:

- Normal Light when the unit is switched ON
- Brighter Light when metal object is detected
- Flashing Light when battery is low

Door Frame Metal Detector(DFMD)



Application:



- Detection of metal using Door Frame Metal Detector/Walk Through Metal Detector (WTMD)

Key Features:



- Detects Ferrous as well as Non-ferrous metals
- Range of zones from 9 to 33
- High sensitivity
- Weather proof options
- Incoming/Outgoing Counter
- Audio visual alarms
- SMPS with 12 Hr Battery backup

Certification:



- Environmental, EMI EMC, safety, ICNIRP Guidelines, IP rating



Key Features:



- **Electronics:**

GSCAN-9Z uses an embedded microprocessor and features true multiple-zone performance

- **System Throughput:**

The walk through metal detector accommodates a wide range of walk through transit speeds

- **Interference Immunity:**

GSCAN-9Z series walk through type detector's advanced design provides excellent interference rejection

- **Multiple Operating Frequencies:**

The walk through metal detector provides eleven user selectable operating frequencies

- **Uniform Detection:**

The field of detection is uniform from top-bottom with no hot spots or dead spots

- **Memory:**

The walk through metal detector utilizes an embedded microprocessor that analyzes data generated by detection sensors

- **System Security:**

Walk through 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 décor

Certification:



- Environmental, EMI EMC, safety, ICNIRP Guidelines, IP rating



Dimensions & Weight

ARCHWAY INSIDE

Width: 72cm | Height: 200cm | Depth: 60cm

ARCHWAY OUTSIDE

Width: 82cm | Height: 215cm | Depth: 60cm
Net Weight: 65Kgs. | Gross Weight: 75Kgs.

OPERATING CONDITIONS

Temperature: -10 °C to +55 °C

Humidity: To 90% non-condensing

POWER CONDITIONS

Fully automatic SMPS 90 to 270 vAC, 50 Hz.

Key Features:



- Reliable microprocessor based design
- 33 zone detection for precise target location Built-in battery backup of over 12hours Intelligent traffic counter
- Access to programming protected by password
- Low field strength - no affect on pacemakers and magnetic media

Certification:



- Environmental, EMI EMC, safety, ICNIRP Guidelines, IP rating



33 ZONES



Sensitivity 250 sensitivity levels for each zone for precision detection of target objects	Frequency 15 Levels adjustable	Calibration <ul style="list-style-type: none"> Automatic calibration. No initial or periodic calibration necessary 	Detection Zones <ul style="list-style-type: none"> 33 overlapping detector zones Detects ferrous and non-ferrous 	Indicators <ul style="list-style-type: none"> Adjustable audio indication LED bar graph signal strength indicator High bright LED zone display Large LCD display for counting and message annunciation
Interference Rejection High immunity to external electrical interference, such as x-ray machines, Computer or CCTV monitors detected	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 <ul style="list-style-type: none"> 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 12 hours
Construction <ul style="list-style-type: none"> Weatherproof rugged structure made with detachable ABS laminated side panels for ease to install & transportation ABS plastic boots for panel protection 	Temperature -20Deg C to +55Deg C & humidity of 95% non-condensing	Weight 70Kgs (Approx.)	Password Protection Password protection to prevent tempering of settings	

Non Linear Junction Detectors (NLJD)

Key Features:

- Ground Breaking Technology with highly sensitive antenna
- Interchangeable Antenna Heads operating at 800 MHz, 2.4 GHz & 3.6 GHz
- Easy to maintain because of Modular Design
- One of the most respected brands in the world of security



Non-Linear Mixed Detector

Key Features:



- Single head can detect multiple frequencies like 800 MHz, 2.4 GHz & 3.6 GHz
- A unique detector which combines 2 types of detection techniques namely the harmonic and the mixing mode. Harmonic mode indicates the relative levels of the 2nd and 3rd harmonics whereas in the mixing mode measures the 2nd- order intermodulation (the difference frequency F_2-F_1) and the 3rd-order intermodulation $2xF_1-F_2$ (if equipped with an additional module)
- Use of two probing frequencies with a large offset (a value exceeding $2F_1$) enables reliable detection of small-sized NO (such as a SIM-card), even in humid environments. SIM card immersed in water at a depth of 15 cm is reliably detected at the difference frequency F_2-F_1 . And it is detected equally well in the air also
- Detection of electronic devices such as bugs, microphones, cameras, voice recorders, telephones, electronic components of explosive devices that may be in the off, sleep or on state in complex cases, for example when searching in concrete or wet walls, in wet soil or behind vegetation



Key Features:



- Harmonic and mixing modes of operation
- Easy to handle with small size and light weight (1.105kg)
- Unique ergonomic design
- Bright AMOLED display
- Fast battery change
- Fast battery charge (12Vx3A/h) 40 minutes
- User friendly interface
- Built in Bluetooth for wireless earphones
- Removable telescopic pole
- Range detection of semiconductor devices



Sl. No	Specimen	Depth under Dry Soil (in inches)	Depth under Wet Soil (in inches)
1	Single Diode/Transistor/Single IC Circuit	6	4
2	Double Transistor/Diode Circuit	12	8
3	ABCD/ PTD Timer Switch	18	12

Hand Held Explosive Vapor Detector

Key Features:



- Highly Sensitive at better than 10-14 g/m²
- Ion Mobility Spectrometry
- Corona Discharge
- Alarm is audio visual
- Detects and identifies explosive
- Less than 2 seconds for Alarm
- Less than 8 seconds identification
- Sampling Distance is up to 30mm
- Not less than 4 hours operation on battery
- 3.5inch TFT Display
- Operating Temperature is from 5°C to +60C°
- Non condensing humidity is at 95%
- Battery voltage is 7.2V with input charger available
- Weight is 3kg with Large Battery
- Dimensions are 400 x 160 x 110mm

Advantages:



- No Radioactive Source
- Due to the absence of radioactive source, the disposal at the end of the lifetime of the unit is not difficult and does not pose an environmental risk
- Start Up time is less than 2 minutes
- Consumables like filter paper and battery are easily available in the market at less cost than the competition
- It can operate in dusty, high humidity environment
- Has a large database for easy identification of explosives
- This database is easily updated with every new information made available



Hand Held Explosive Vapor Detector

Technical Specifications

MODEL	PRINCIPLE OF WORKING	WARM UP TIME	ANALYSIS	XX
M-ION	<ul style="list-style-type: none"> Drift Spectrometry - Free Ions Mobility in an alternating Electric Field Non- radioactive 	No warm Time	No more then 3 secs	GPS and Radiation Detection (Optional)

WEIGHT	SENSITIVITY	BODY TYPE
1.9kgs	10-13 g/cm3	Carbon Fiber Body which can with stand greater stress and protects against Electro Magnetic Punch (EMP)

SUBSTANCE DETECTED
<p>nitoglycerine (NG), EGDN, trinitrotoluene (tol, trotyl, TNT), PENT (tetranitrapentaerythrit, pentaerythrittetranitrate, Pentrit, PETN), hexogen (RDX), oktogen (HMX), tetryl (Tetril), three acetonethreeperoxide (Cyclethreeacetonethreeperoxide, TATP) nitrocellulose powders, engaging mixing explosives on their ground: Semtex and other plastic and elastic explosives on the basis of RDX, PENT or their combinations, Primacord, Primasheet, Tetritol, Tritonal, Cordit N, -IX-1, -IX-2, -IX-20, octols*, ocfols* and some other mixing explosives</p>

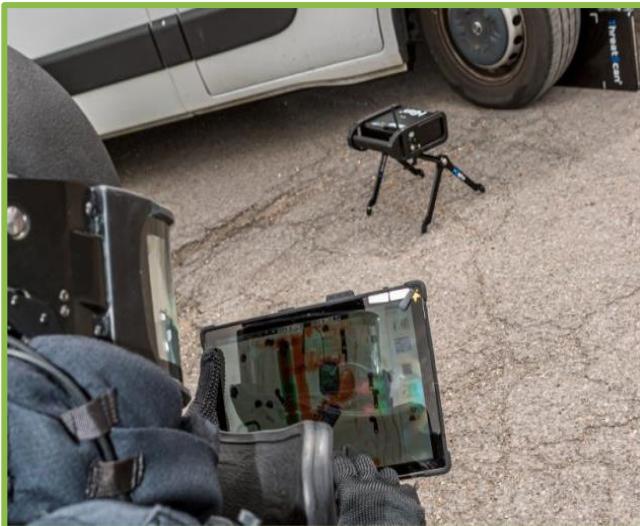


Portable X-Ray Scanners (RTVS)

Key Features:



- 3 major components: **Detector panel**, **X-Ray generator**, and a laptop or tablet
- **Largest detector area** on the market for one shot scans
- **Linear detector/Amorphous silicon detector** consists of a single array of detectors which is mechanically moved inside panel
- Image of the target object is transmitted to the remote laptop where it can be viewed, manipulated and stored
- **Drop tested from 1m** without a protective cover
 - Quick to set up and simple to use
 - High resolution images and image enhancement tools
 - Lightweight & rugged design for any conditions
 - In built wireless with self correcting software
 - No additional accessories for materials discrimination image



Triple Sensor Mine Detector

Key Features:

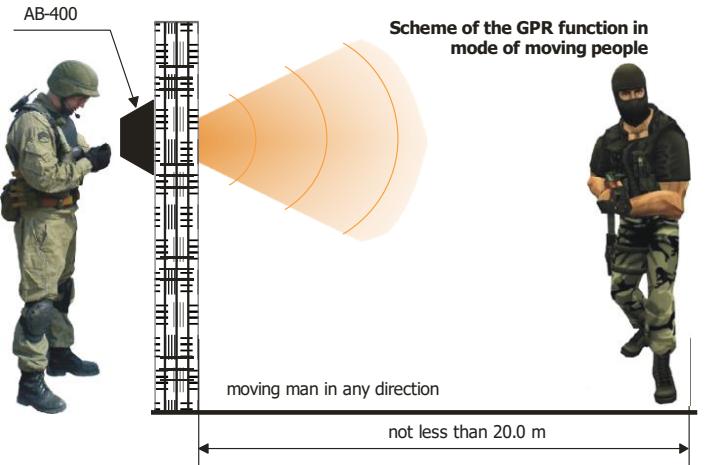


- The **GMD1200/GMWD-1200** is a triple sensor detector designed for the detection of explosive devices located at depths of 50 cm. This instrument functions on **dual technology, ground penetrating radar (GPR) and metal detection (MD)**, and is simple to operate, providing its user with accurate position information of an object
- Independent or simultaneous operation of both sensors
- An embedded odometer
- An audio and visual alarm signal
- Selection between non-ferrous metals and iron
- Visual display readable during day and night
- Lightweight, portable, foldable design
- Operable with either hand
- Applications of the GMD1200/GMWD-1200 include
- Detection of explosives in both metal and plastic casings
- Location of cables and communication
- Operable in soil, water and concrete and in all weather



Through Wall Radar

To see through the walls & under ground

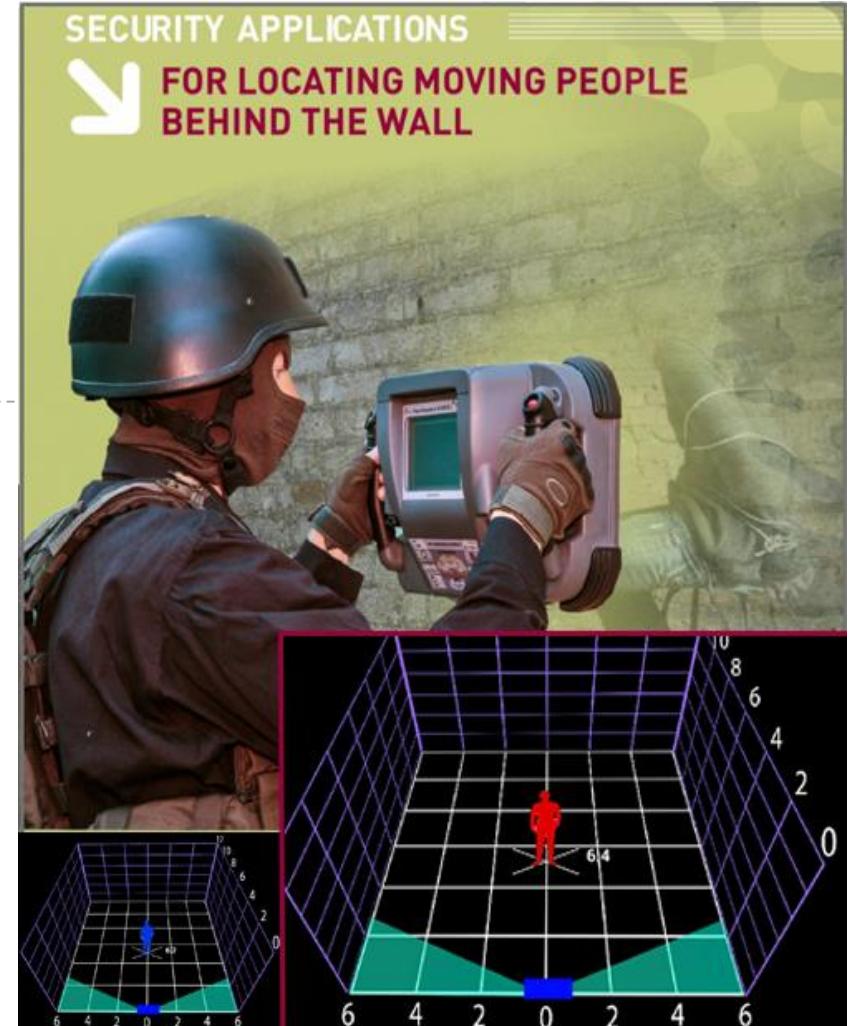


- Portable and easy-to-use GPR security solutions, designed for locating people behind reinforced concrete walls by movement and by breathing

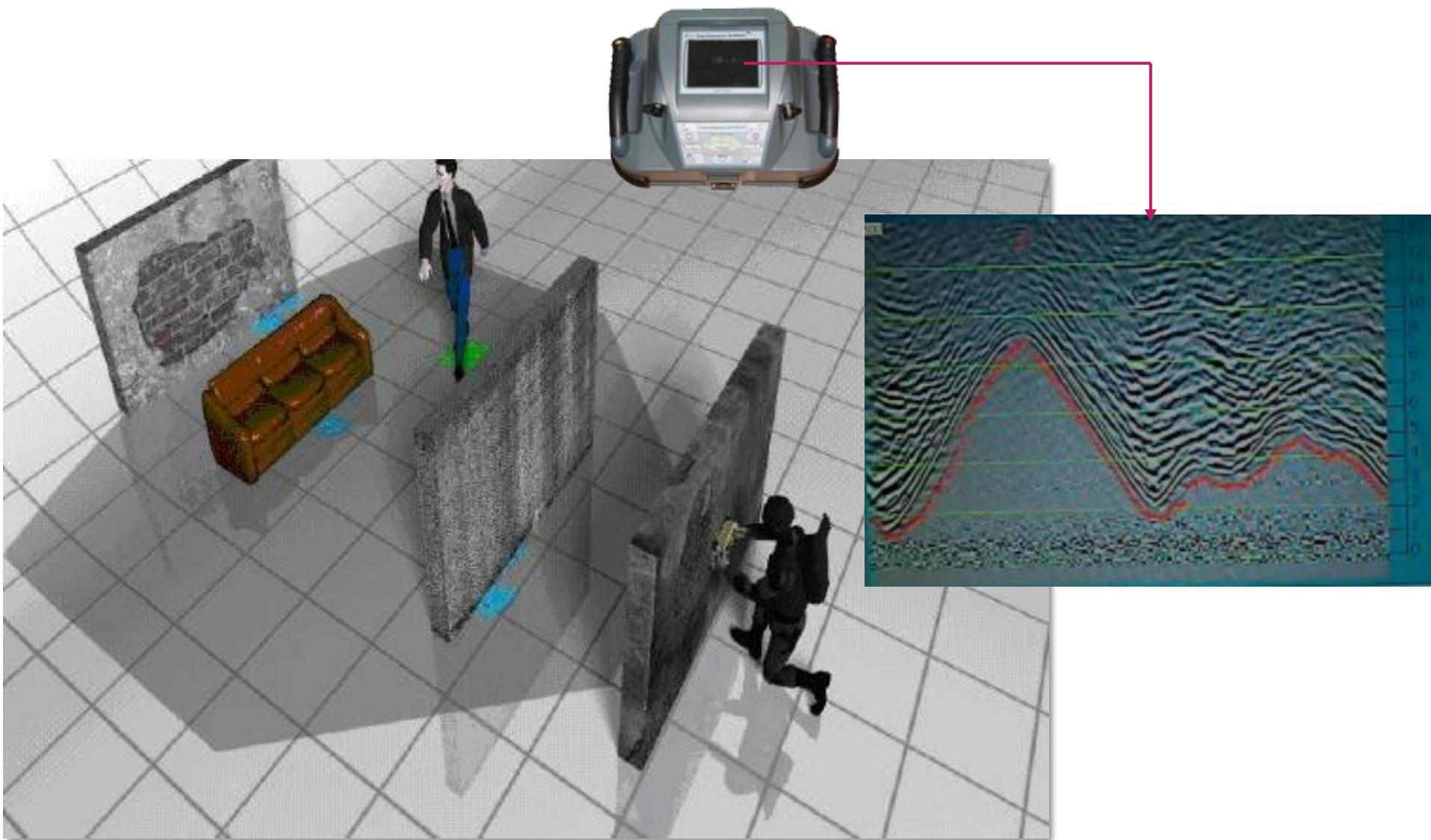


Key Features:

- Locates people behind reinforced concrete walls up to 0,6 meters thick and multi-layer building constructions
- Detects movement of people through several walls or/other types of obstacles in real time
- Up to 21 meter detection range
- Wireless video for remote display
- Operable at safe distance from a wall up to 100 meters
- Two operating modes: (moving objects detection mode and Search GPR mode)

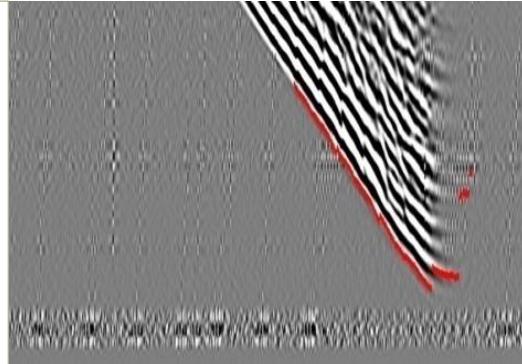
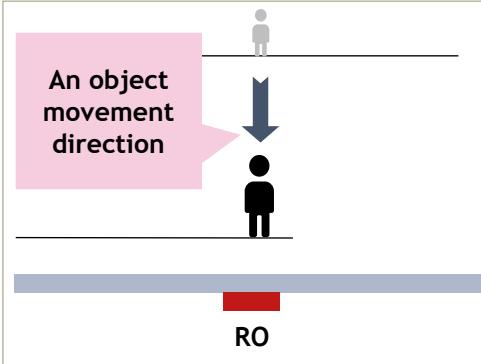


Detection Movement Through the Walls

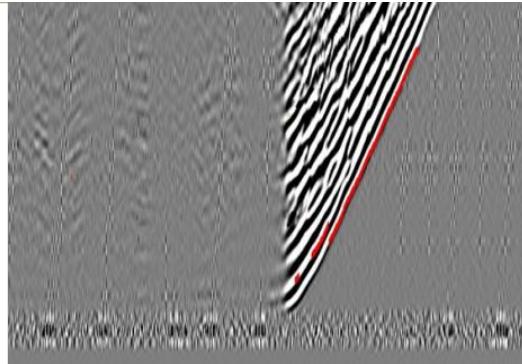
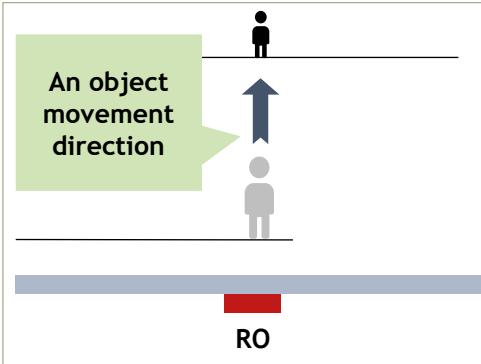


Detection Movement Through the Walls

Detection By Movement

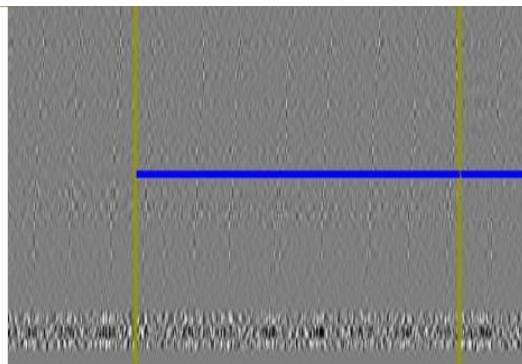
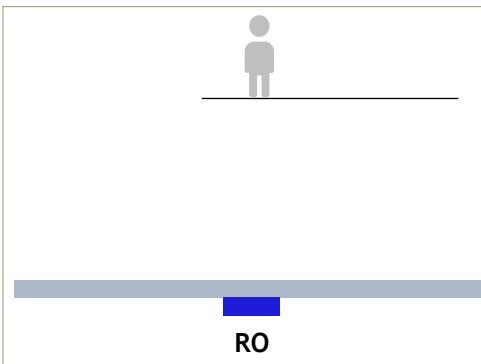


- An object enters the detection zone, approaches the device and stops. No further movement
- In approach the object has been detected in “**BY MOVE**” mode
- If there is no further object movement of the object, 20 seconds passed, the object will automatically be scanned in the “**BY BREATH**”



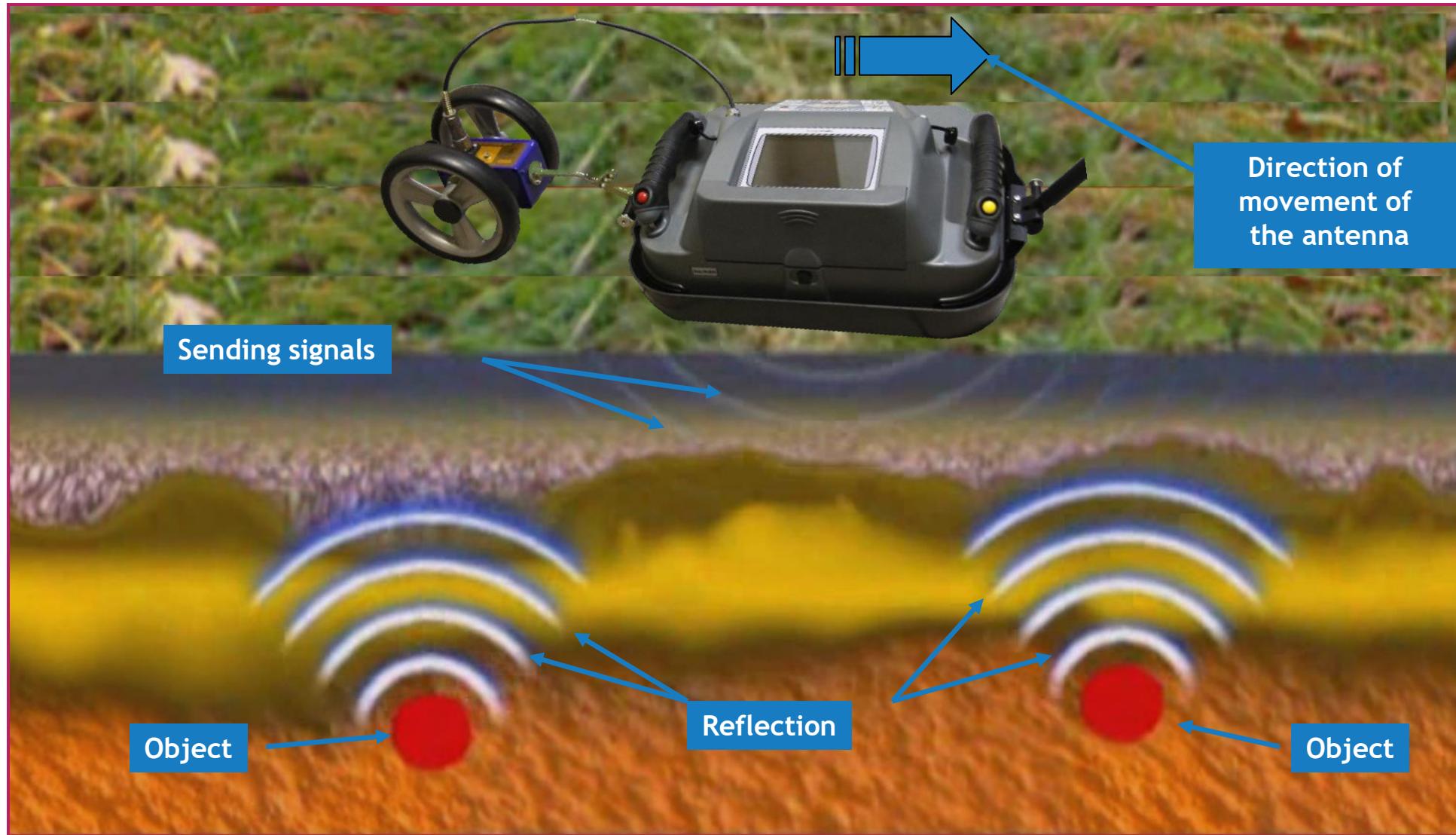
- In the device switch on an object been detected near the installation point
- The object begins to move away from the device, that is noted in “**BY MOVE**” mode

Detection By Breath

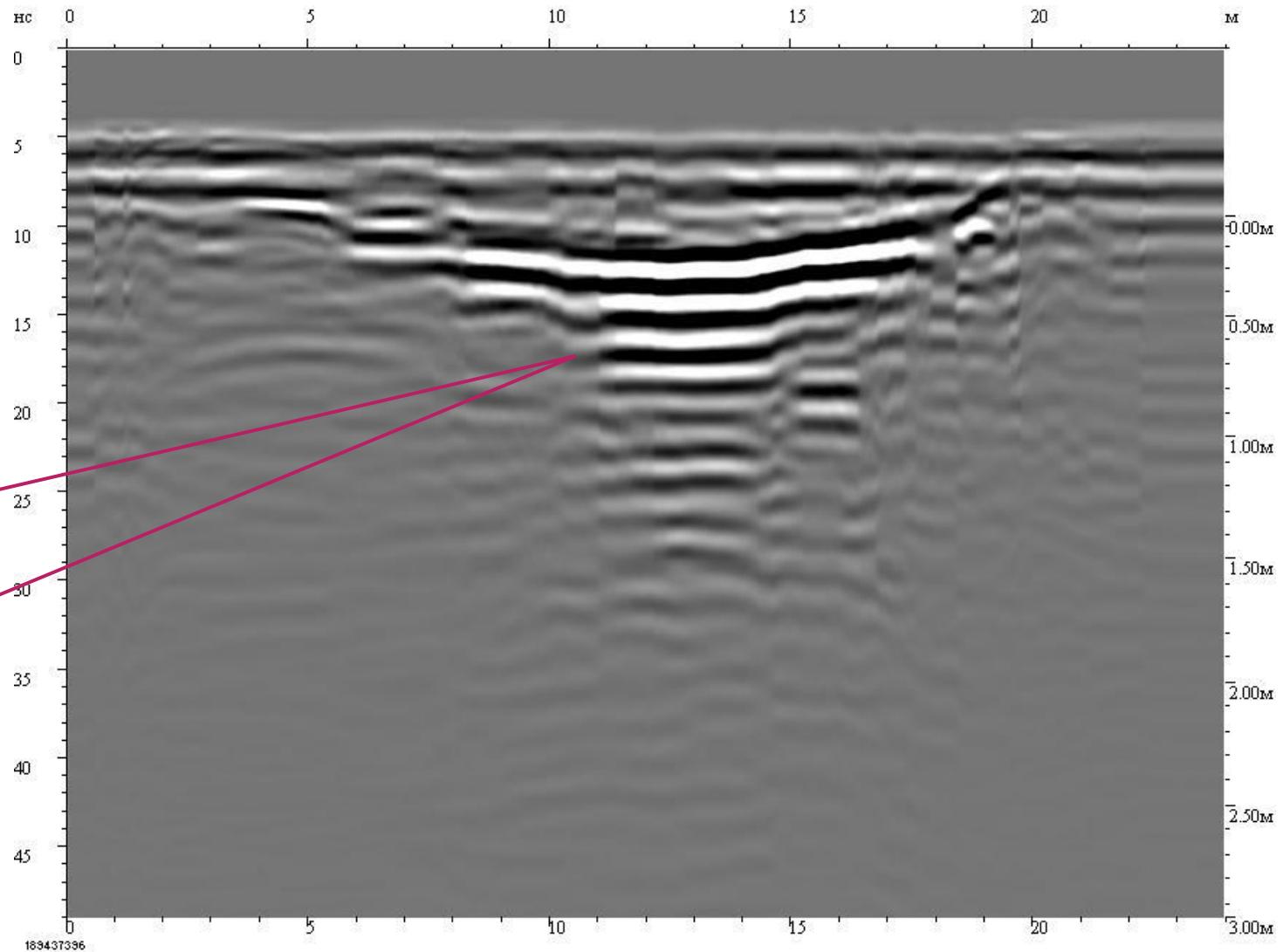


The stationary object has been detected in the device operation zone in “**BY BREATH**” mode

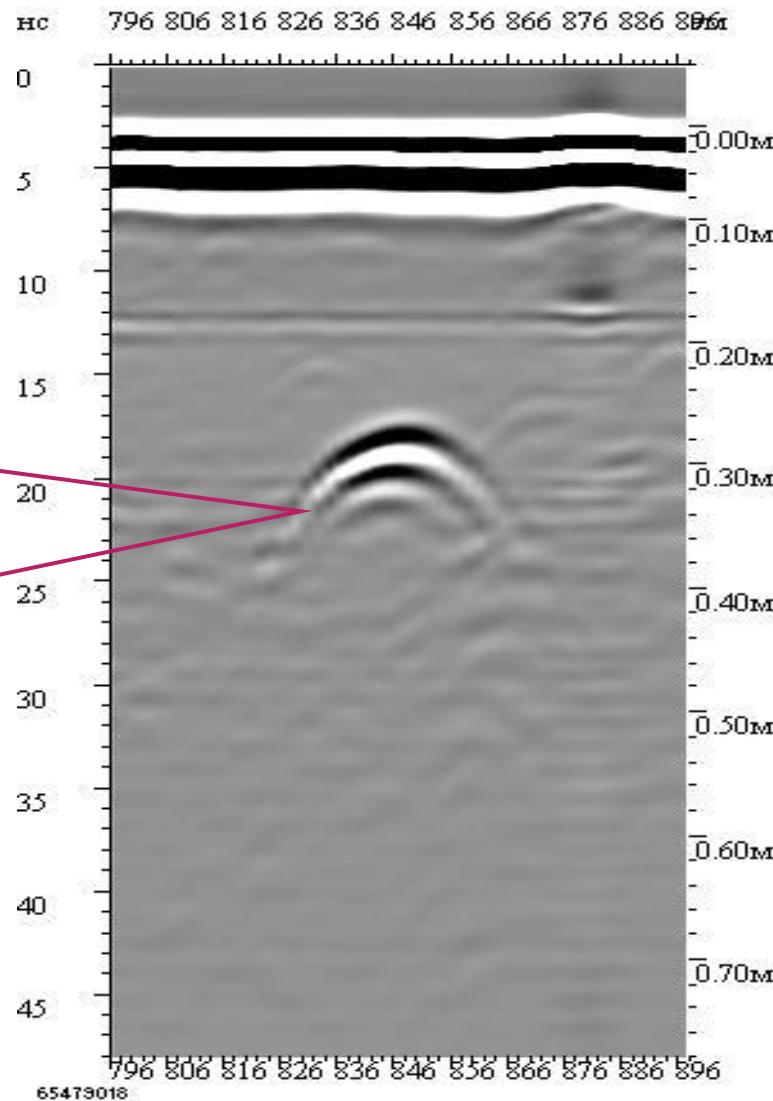
Sounding in a GPR Mode



Scanning Examples in a GPR Mode



Scanning Examples in a GPR Mode



Through Wall Radar



Handle Rod

BP-3,8/12

Tablet PC

Cable

User Manual

GPR-Detector

Cable

Wireless Router

DP-32MD
Odometer

Tripod for
Wireless Router

Electronic Stethoscope for IED Detection

Key Features:



- The electronic stethoscope can normally use in complex electromagnetic condition and use with anti-interference machine/jamming system at the same time, and can also detect the electronic and mechanic explosive device under all kinds of covers. Explosive device includes electronic watch, beeper, interphone, cell-phone and all sorts of tele-controller explosive device. It can also use as the security device to antispy, which can detect the eavesdropping device and hidden video device
- As the anti-explosive safety inspection device, the electronic stethoscope meets the demand of security guard, police explosion proof, army, airport, station and harbor as well as the security guard of other important department

Application:



The electronic stethoscope EBEX®2001 K was designed for specific operations in the field of Search, IED, and EOD, and is mainly used for the detection of weak sound waves such as clockwork timers, a common component of IEDs or incendiary devices

Mode of Action:



The operating principle of the equipment is the detection and amplification of sound waves by using the search heads provided. The non-contact search head interacts with a number of electronic circuits rendering them detectable for the stethoscope



EBEX® 2001 K: for detection of time delay devices in IED and incendiary devices

Electronic Stethoscope for IED Detection

AMPLIFIER ELECTRONICS

Rechargeable battery 9V/160 mA,
approx. 6h E-block PP3 approx. 18h

CHARGING TIME

Approx. 14h with 11 mA

CONTACTLESS PROBE

Rechargeable battery 12 V/600mA
(built-in) Approx 4-6 hours

CHARGING TIME

Approx. 14h with 50 mA

FREQUENCY FILTER

Approx. 2-6 kHz

MAXIMUM AMPLIFICATION

Approx. 7×10^5 (117 dB)

TEMPRATURE RANGE

Approx. -15 to +55°C



Contraband Detector

Key Features:



- 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.)



Contraband Detector

Specification of Contraband Detector

EQUIPMENT

- The equipment should be able to detect abnormal variation in density especially in objects like pipes, vehicle type, car doors, fuel tanks etc.
- Equipment should be user-friendly, easy to understand.

DIMENSIONS

- The equipment should be small hand held unit size (12 inch*4*4 inch maximum)

WEIGHT OF THE EQUIPMENT

- Operational weight - Not more than 1.5 kg.(Equipment body should be made of metal)
- With Extension Bar of 2.50 Meter length (or better), Not more than 3kg.(Extension bar should be made of metal)

DISPLAY

- Equipment should have LED display and able to read in day light.
- Basic Data
- Battery charging level
- On Status

SAFETY

- Equipment should be safe from any type of Radiation hazardous for operator.
(The certificate of the same should be obtained from AERB)
- Equipment contain radioactive elements the OEM and bidder shall be responsible for disposal of the radioactive elements.
(Supplier Firm will submit undertaking for it)

OPERATING TEMPERATURE

- It should be -10 to 55°C and humidity upto 95% condensing and non-condensing
(Firm will provide the national or international accredited test report)

Contraband Detector

Specification of Contraband Detector

PORTABILITY

- It should be Small hand held unit & easy to handle

ALARM

- Audio & Visual Alarm On detection of density variation

POWER SUPPLY

- Should operate on rechargeable battery with 4 hour continues working capacity with single charge
- Should provide one spare battery.
- Battery should be min. 3 year warranty
- Battery charger designed for last recharging

SCAN TIME

- Not more than 03 second per reading

PENETRATION

- Steel: 06mm or better
- Wood: 40mm or better
- Depth of reading: 175mm or better

MODE OF DETECTION

- Normal mode, auto, del. Mode & reference mode

SOURCE

- Sealed radioactive source

Hand Held X-Ray Imager based on Backscatter Technology





Anti Drone Solutions

Radio Frequency Analyzer

RF analysis is effective because many of the more common drone types send and receive radio signals between the UAV and the controller.

Advantages:

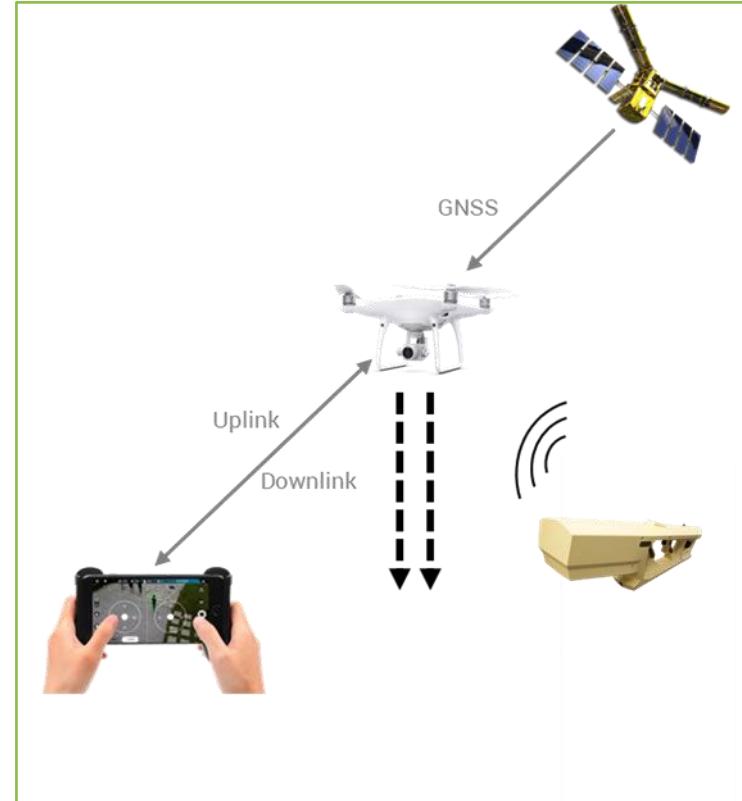


- Can detect, identify and pinpoint multiple drones and their operators simultaneously
- No false alarm in case of birds
- No license is required to purchase and install these systems (although **we conduct a thorough vetting process**)
- Able to triangulate drone & controller positions accurately
- Mobile detection systems are also available for law enforcement agencies and other security personnel who need to track drones right back to their source

Radio Frequency Jammer:



- A **Radio Frequency Jammer** is a device that can be static, mobile, or handheld. The device transmits RF energy toward the drone
- This large amount of energy masks the controller's signal, which can then cause the drone to make a controlled landing at its current location or return to the home location set by its user



Anti - Drone Technologies

Only Jamming (Uni Direction)

Portable (Backpack Type)

Full One Man
Portable Integrated Solution

Detection of entire **2.4 Ghz & 5.8 Ghz**
Frequency Band Omni Directional. The entire system is integrated with a Smart Phone or Tablet which has simplified app that can also give the location & direction finding of incoming drone or the operator. Has directional jamming function and works on batteries.

Detection with Softkill

TSNK RADAR IQ (Fixed System)

A System Consisting of RADAR
Detection and Optics

The System is a two pronged type with both RADAR and Visual Aids to tracking the incoming Drone. This is achieved with **a 360 ° RADAR antenna and a fast response, high resolution PTZ Camera System**.

Hydra 200/300 with Medusa 200 (Semi Portable/Fixed)

Detection of **2.4Ghz, 5.8Ghz, 433/860/915 Mhz** with **Hydra 200 & 433/868/915Mhz, 2.4/5.8 Ghz, 400Mhz - 6Ghz** with **Hydra 300**.

Omni Directional Jamming of all frequency bands with Medusa 200.

CHIMERA Solutions Composition

Hardware:



- Manpack for omni and passive detection
- Rugged tablet for alert, tracking and connectivity
- Effector for direction finding and neutralization

Software:



- Perpetual software license
 - Dashboard: alerts in real time
 - Direction finding on drone and pilot
 - Control of manpack and effector
 - Alert history

Service:



- Training
- Hardware warranty and software maintenance



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 compatibility (4h detection/1h jamming)

AUDIO

Jack port for audio alerts



RUGGED SMARTPHONE

MODEL
PROTECTED S10

CONTROL
Tactile

OPERATING SYSTEM
Android 7

DIMENSIONS
L187 x l95 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 functions

WEIGHT

5 kg

NORMS

MIL STD 810G and MIL STD 461G

OPERATION TEMPERATURE

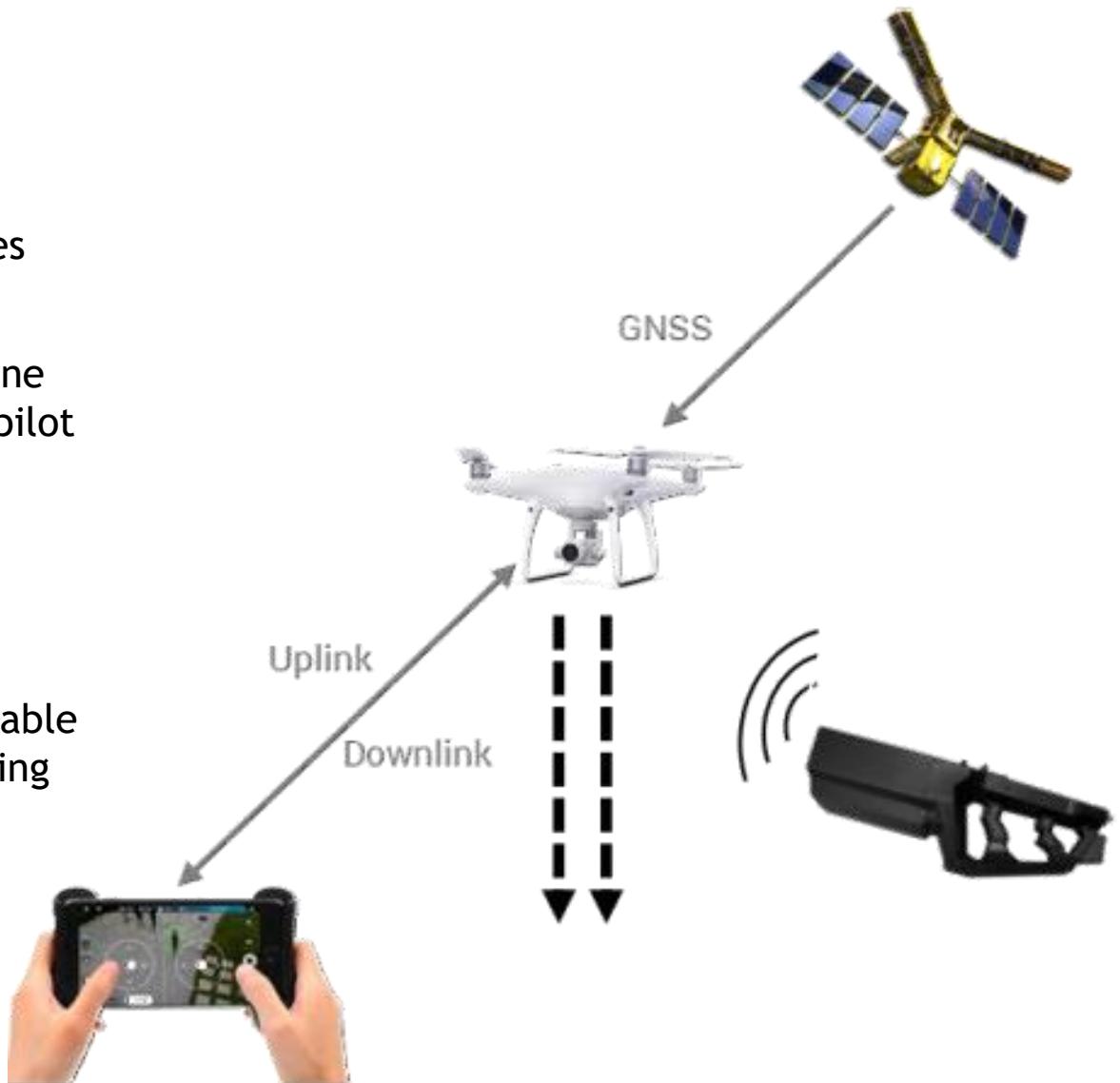
-20°C to +49°C (-4°F to 120°F)



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



Semi Portable Solution/Fixed Type



This involves two separate systems, which combine to make a set.

The systems are the
“HYDRA” & “MEDUSA”

The Hydra works as the detection system, while Medusa works as the neutralizing system.

<https://www.youtube.com/watch?v=2irkJKNYacw>



Semi Portable Solution



CERBAIR's core technology, HYDRA is a range of [drone detection solutions based on radiofrequency analysis](#).



Key Features:

- Drone and pilot direction finding detection
- Radiolocation of drone and RC (bearing $\pm 10^\circ$)
- 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



HYDRA 100

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



HYDRA 200

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



HYDRA 300

AVERAGE RANGE 2 km	RF SPECTRUM COVERAGE 2,4/5,8 GHz (Optional : 433/868/915 MHz/ 2.4GHz/5.8GHz/400MHz-6GHz)	ACCURACY 3° RMS
SENSORS 90 ° (Azimuth and Elevation) with each Sensor (4 required)	SCALABILITY Yes	RECO. DISTANCE BETWEEN 2 SYSTEMS 4 km for maximum coverage 1 to 2 km to cross bearings
SENSOR PROTECTION OPERATION IP67	TEMPERATURE OF SENSORS -40°C to +60°C	MASTHEAD DIMENSIONS 72x58x25 cm
MASTHEAD WEIGHT 20kg	SENSOR CONNECTIVITY 4G/ Ethernet 1000 Base T (Gigabit)	POWER SOURCE/CONSUMPTION <200W
	POWER SOURCE/CONSUMPTION Sensor(s), filters, antennas, cables, mountings, server, client, perpetual software license	





Mobility Kit

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



Spectrum Extension

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



Ruggedness

- Of the laptop to deploy it under the harshest conditions



Integration

- Of complementary detection and neutralization* technologies into HYDRA C2

Semi Portable Solution

Ultimate rampart against drone attacks, MEDUSA is a range of **drone neutralization solutions based on electromagnetic (EM) jamming**.



Key Features:



- Instantaneous, gradual and proportionate neutralization depending on the level of threat: isolated drone VS swarm
- Long range: 1,6/1 or 2/1 ratios
- Broad coverage: 2,4/5,8 GHz/433/900 MHz/L
- Smart mode: RF range targeting to reduce EM interferences and automatic trigger via integration with HYDRA
- Ease of installation: 10 min/2 PAX
- Modular, evolutive and highly configurable



MEDUSA 100

AVERAGE RANGE

2 km*

FREQUENCIES/POWER/ RATIOS

2400 - 2500 MHz/35W/>1.6/1 | 5725 - 5875 MHz/50W/>1.6/1
 1171 - 1381 MHz/30W/>1000m | 1570 - 1620 MHz/10W/>1000m
 Optional
 400 - 435 MHz/35W/>0.8/1 | 860 - 930 MHz/35W/>0.8/1

DIRECTIONALITY

Omnidirectional
or directional

RECO. DISTANCE BETWEEN 2 SYSTEMS

1 km

INCLUDED EQUIPMENT

Case, antennas,
cables and mountings

SENSOR PROTECTION

IP67

OPERATION TEMPERATURE

-20°C to +55°C

DIMENSIONS

57 x 35 x 24 cm

WEIGHT

32 kg

CONNECTIVITY

Ethernet 1000 Base T (Gigabit)

POWER SOURCE

10/32 V

XX-XX

*With pilot located at 2 km



AVERAGE RANGE

1 km*

FREQUENCIES/POWER/ RATIOS

2400 - 2500 MHz/70W/>2/1 | 5725 - 5875 MHz/100W/>2/1
 1171 - 1381 MHz/30W/>1000m | 1570 - 1620 MHz/10W/>1000m
 Optional
 400 - 435 MHz/60W/>1/1 | 860 - 930 MHz/34W/>1/1

DIRECTIONALITY

Omnidirectional
or directional

RECO. DISTANCE BETWEEN 2 SYSTEMS

2 km

INCLUDED EQUIPMENT

Case, antennas,
cables and mountings

SENSOR PROTECTION

IP67

OPERATION TEMPERATURE

-20°C to +55°C

DIMENSIONS

70 x 45 x 35 cm

WEIGHT

40 kg

CONNECTIVITY

Ethernet 1000 Base T (Gigabit)

POWER SOURCE

10/32 V

XX-XX

*With pilot located at 4 km

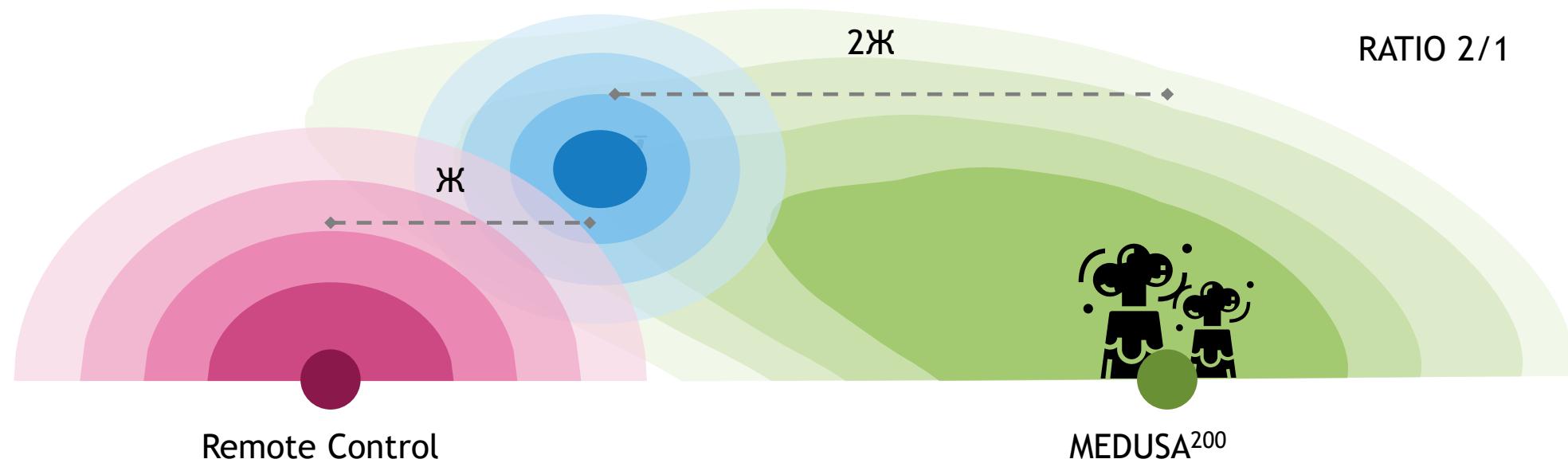


Semi Portable Solution

Range:



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



Certifications & Standards



From India to the worlds

- Designed as per global standards
- Tested at leading international Laboratories



GERMANY



EUROPE



UK



14001:2015



45001:2018



SWEDEN



UK



LISTED

USA



Great Service

Reach Across The Country



On Time Service

End to End Service Infrastructure



Dedicated Service Team

Professional & Trained Service Personnel



Responsive & Receptive Service

Faster, Affordable & Better Experience



Empathetic & Ethical Service

Customer Centric Approach



Just Service

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BETTER



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THANK YOU