# SECURITY SOLUTIONS

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## **AREA PROTECTION**

- CCTV City Security: 360° Video Surveillance, Access Control, Road Safety, etc.
- Area Protection: Buildings, Ports, Airports, Oil Gas Platform and Pipeline

### **CCTV URBAN SECURITY**

 Oculus 360 - 360 degree video surveillance by means of high resolution television shooting systems, day night with image recording and analysis and with customizable alarms.

#### Road Safety Division

Access control and Monitoring and recognition of vehicles and number plates VS23 - Automatic and real-time detection of violations to the CdS. Intelligent control of public lighting

• 3D - 360 ° Urban monitoring for drone traffic

#### OCULUS 360 - 360 DEGREE VIDEO SURVEILLANCE

#### Innovation technology

The project is simple and revolutionary at the same time: reinventing the concept of how to use video content, both using an internet platform and through digital satellite television and DTV channels. All with a 360 ° viewing angle.

Thanks to this innovative technology it is possible to observe events in real time remotely without losing any detail.





#### **URBAN MONITORING**

It is based on an integrated mobile surveillance system. The images are transmitted to the operational centers simultaneously by helicopters, UAVs, mobile vehicles, people on foot and from parked vehicles.

In particular, the operations room receives and transmits audiovideo information and data acquired with various technological devices to interested users.

All of these integrated mobile camera systems use an IP protocol over fixed and / or mobile networks. It is important to emphasize, as an added value, that the radio transmission systems are not interfered with by obstacles, but amplified by virtue of the high technology in question (for example in basements or in the subway)

For the control of specific urban, railway, airport and port areas, behavioral analysis software is also often integrated.









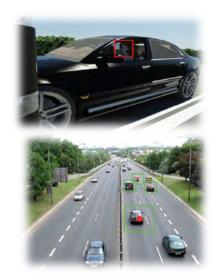




#### **ROAD SAFETY DIVISION**

## Access control - Vehicle monitoring and recognition

It is a software platform that allows you to extract the operational dynamics of the video stream automatically and in real time, thus allowing an intelligent analysis of the scene.



#### Automatic and real-time detection

Image analysis software (self-produced) that can be customized for identifying violations of the Highway Code and municipal regulations, the system also allows you to ascertain violations regarding the obligation of the RCA and periodic vehicle inspection.



#### INTEGRATED SOLUTIONS FOR TRAFFIC



It detects important data on urban and extra-urban vehicular flow, in order to optimize traffic control and allow rapid intervention for the removal of obstacles to it. It is in line with the new Smart City philosophy.

The system, in addition to automatically detecting any type of plate in motion, allows, according to the evolution of the vehicular flow, to predict, on the basis of the numbers and types of vehicles in transit, probable, next saturations of the road axis.

In addition, it is also possible to ascertain some of the most common infringements of the Highway Code, such as inadequate speed, violation of light signals at the intersection, crossing of solid white lines, illegal use of emergency lanes or lanes reserved for public transport ...

#### DATA SERVER MANAGEMENT



It is an advanced data server capable of collecting millions of information acquired daily from different detection points in order to make them available for various applications on a statistical basis. It comes with a dedicated graphical user interface (GUI), where operators can view and manage the desired statistical processes.

#### PLATE READING OF MOVING VEHICLES

#### MicroCam on board of the vehicle



THE NEW MICROCAM LPR CAMERA SERIES performs license plate recognition on the go - with the same quality as a high-end ANPR camera in a fixed location. The video management algorithm allows you to create an event for each vehicle that crosses the camera's field of view.

#### Portable Speed Cam

SpeedCAM is the combination of a license plate recognition camera and a certified speed measurement tool.

The system automatically exports the required data (such as license plate, speed, category, date and time, GPS coordinates and many others) in various customizable formats via an integrated 4G / LTE modem.



#### LIGHT: INTELLIGENT CONTROL OF PUBLIC LIGHTING

The goal of this solution is to optimize the activation of public lighting through the use of environmental brightness assessment systems in order to achieve concrete energy savings. The system consists of smart poles, photovoltaic systems and LED systems.

The system also allows powering surveillance cameras, realizing further energy savings.



180 ° installation IP camera and DOME camera on fixed lampposts



#### ANTI-DRONE 3D-360° SYSTEMS FOR URBAN ENVIRONMENT

#### Mini-Radar Net Systems:

Urban air environment monitoring systems to detect and track UAVs, creating a network of mini-radars that communicate with each other for continuous target tracking.

The system has the ability to identify friendly and enemy drones with the ability to block GPS, cellular and video transmissions.

#### **EDD50 – Drones detector** It is a system that detects



the presence of a drone or swarm, analyzing the signaling channel and the radio transmission of the target and automatically activates (optional) a Jamming system that deactivates the drone or swarm, blocking the GPS signal, communication with the operator and the video signal from the drone or swarm.



EDD40 3D-360° Mini-Radar



This 3D radar mode allows full 360  $^{\circ}$  continuous coverage in azimuth and up to  $\pm$  45  $^{\circ}$  above and below the horizon and provides 3D target geolocation.

#### **SAFE-SKY SOLUTION**

A standalone end-to-end solution that detects the communication links of unknown commercial drones and safely lands them in a designated area.

## Designed for: **Urban environments**

- Non-jamming
- •Non-kinetic
- •No direct line of sight



Safe zone

### **SECURE-SKY**



\* No side effects to friendly communication

### **SECURE-SKY - PRESENTATION**

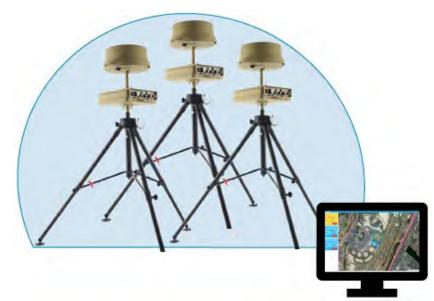


#### Multiple distribution options

Single-Sensor Ad-hoc / fixed



Multi-sensors
Single command and control, scalable topology



Software available for integration and customization for command and control

### **AREA PROTECTION**

The proposed integrated solution allows the protection of: buildings, ports, airports, oil pipelines, offshore platforms, urban and / or areas of interest.

- 360 ° camera with integrated radar
- <u>Surveillance for control of 8000 square meters</u>
- Explosives and drug detectors, sniffers,
- Remote explosive detection
- Remote image and behavioral analysis software
- Scanning of identity documents
- Smart pedestrian recognition solution
- Machine Vision and Intelligence
- Access control of sensitive areas
- Automatic reading of container codes
- Helmet with camera for human body temperature detection
- Mobile and fixed X-Ray made by Italian companies
- X-Ray for civil and military aircraft
- Mobil-Scan system for viewing the interior of vehicles

- Train Smart Scanner
- Long range radar
- Building automation management systems
- Command and control operations room
- Medium Range Defense EO / IR / LRF / RST
- Area and border protection
- Perimeter protection system
- Marine anti-intrusion and marine data collection and detection platform
- <u>Unattended Ground Sensor System</u>
- Antidrone Shahine
- Aqua System Full control of your sea and predict potential threats
- Passive Radar Technology

#### 360 ° CAMERA WITH INTEGRATED RADAR

Enables low cost perimeter surveillance of large areas, with a minimum radius of 200m and 400m in diameter.

The system, which combines the camera with an integrated radar, allows to detect and locate moving vehicles and / or people in any weather condition, by scanning the affected area at 360 ° with a frequency of once per second , simultaneously tracking the movements of all detected targets.

This integration allows to acquire targets even when the camera is oriented towards a different sector.

It is possible to integrate the functionality of an antidrone.







## SURVEILLANCE FOR CONTROL OF 8000 SQM (STADIUMS OR OTHER LARGE REALITIES) Special video camera

#### Multifocal sensor system, 190MP resolution, day / night

The patented Multifocal Sensor System is a completely new camera technology specially developed for wide video surveillance of large areas. Huge expanses and areas are captured in a whole new resolution quality in real time.

#### Other characteristics

- Multifocal sensor system with 8 sensors
- Effective resolution 190, 184 or 78 megapixels (MPe)
- Horizontal field of view of 30°, 45° or 75°
- Excellent light sensitivity < 0.05 lux
- 3D digital noise reduction (3D-DNR)
- Functions for data protection and security (GDPR compliant)
- Weatherproof housing (IP66) with integrated heating

#### **Advantages**

- Maximum resolution possible at all distances
- Low installation and maintenance costs
- Real-time imaging up to 30 fps
- Scalable resolution
- Tracking of objects over large distances
- Identification of individuals up to 200 m
- 1 video camera capable of covering a total area of over 8,000 m2 at high resolution
- Replaces many single camera installations
- Automatic pixelization of moving objects in the software







Detector of explosives and drugs also based on laser technology that does not include consumables Highly innovative laser and x-ray technology based on backscatter technological principles





X-ray system for checking packages, people and luggage

Video demo explosives detection



#### Video demo 1 - Smart Walk-through

Video demo 3

with temperature control





Metal detector with body temperature detection even portable



Control of liquid containers





Detector of metals and explosives inside the shoes



Video demo

Cross-Enhanced Z. Multi-energy pack backscatter

Video demo -Twoway X-ray baggage

Bidirectional Scanning scanner





## REMOTE PASSIVE DETECTION SYSTEM FOR METALS, EXPLOSIVE GELS AND DRUGS AND CERAMIC WEAPONS

Video demo

- People screening solution,
- Operating distance from 8m to 10m.

Currently it is the only system that can also be camouflaged on the market, which allows you to operate remotely, with registration, and sending data to an operations room.



#### TORSO SCANNER

It detects in real time and without medical assistance, the presence of drug eggs inside the human body.

- Lightweight, easily transportable, easy to use
- Transmission screening, sharp imaging, realtime recording.
- possibility to remotely control operations.
- safe for the safety of people as it has a dispersion dose rate lower than the industry standard of 2.5 pSvh
  - Detection speed: 10-25 seconds per screening







#### REMOTE IMAGE AND BEHAVIORAL ANALYSIS SOFTWARE

- Baggage check
- Abandonment of objects
- Control of restricted areas
- Access control
- with facial recognition
- and temperature detection
- corporeal
- Baggage area control
- People aggregation detection
- Perimeter control
- Control of external areas
- Fire prevention with smoke detection



#### TRACKING LUGGAGE

The video information management service for tracing hold baggage allows you to track and monitor the entire process of managing each baggage, from the check-in phase to the physical moment of boarding the aircraft.





#### Identity document scanning process



An all-in-one ID verification terminal with integrated processing system that automatically and in real time produces authenticated full spectrum data without the use of a local PC or laptop.

It can also be accessed via smartphone and tablet by viewing results in real time, meaning that the reader is able to perform full spectrum authentication activities.

#### Ultra compact scanner for kiosk integration

Combo Scan is a fast ID and passport scanner, designed for automatic data acquisition.

Particularly useful in the control of important flows of people in ports, airports, railway stations, stadiums etc.

Thanks to adaptive light control, this device can also work in environments with exposure to a direct light source.

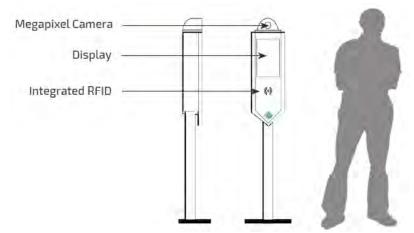
**Z**3

#### INTELLIGENT PEDESTRIAN RECOGNITION SOLUTION

The Smart Pedestrian Recognition Solution (SPRS) uses real-time facial detection and traveler recognition to reduce waiting times, provide greater security and seamless travel, at border crossings and access on ships and trains and / o Port, airport and railway stations.







We supply artificial vision software for:

#### **VIDEO SURVEILLANCE SYSTEMS**

- event detection and recognition
- target detection and tracking
- traffic monitoring

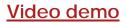












#### **FACE RECOGNITION**

Cloud system for real-time face recognition:

- Access control
- Opening of doors/gates
- Surveillance in real-time
- Ecc.



#### **IOT FOR SMART INDUSTRY**

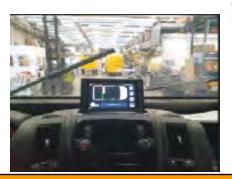
We provide innovative **IoT solutions** to securely connect Smart Things, manage and analyse **Big Data** using advanced **Machine Learning** algorithms



**Digital interface** for **armoured vehicles** through secure communication protocols.









#### REAL-TIME ANALYSIS OF SOCIAL DATA FOR DISASTER MANAGEMENT

The core of the system is represented by a **Smart Multimedia User Generated Content** (MUGC) Retrieval module, which:

- Gets in input a pattern composed by keywords (hashtag) and a geographical area
- Gives in output the area of the event and multimedia content shared by users in that area



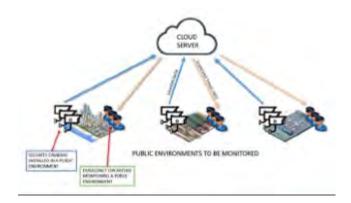
#### EXPLOITING ALAND AUGMENTED REALITY TO IMPROVE PUBLIC SECURITY AND SAFETY

Research and design of artificial intelligence algorithms that allow to **improve the surveillance of public places** through:

- real-time classification of suspicious persons
- real-time identification of suspicious behavior

Support security operators thanks to the augmented reality.





#### **ACCESS CONTROL OF SENSITIVE AREAS**

➤ Possibility of taking multiple images of the same vehicle in transit and of multiple vehicles with body control and storage of all related information.

Ability to operate remotely with a remote control and send SMS text messages to cell phones and operations room.

License plate recognition of accelerating vehicles (200KpH); 24 hours / 365 days operation and transmission of alarms to the control staff.



Detection of people inside vehicles (DOPIV)

Performs face detection in real time and recognition of all vehicle occupants (both in the front and rear seats) in various light and weather conditions.





#### **AUTOMATIC READING OF CONTAINER CODES**

The system is based on the use of cameras that automatically detect the identification code of the containers, a code that allows to detect the ownership, the contents etc ... This function allows a correct handling of the containers in the airport area and facilitates the duties of customs and border.

#### Key Features

- Automatic recognition
- Customizable self-made software
- Rapid horizontal and vertical recognition of codes even with two or three lines through the shooting of multiple images of the same container

#### Typical application environments

- Automation of airport, port and railway logistics
- Border customs control management
- Continuous monitoring systems for container handling



## HELMET FOR TEMPERATURE SENSING - FOR AIRPORTS, PORTS AND RAILWAY STATIONS

- Quick detection of internal, external and internal vehicle environments
- Automatic recording of body temperature in real time
- Rapid facial recognition with comparison with black list and identity verification reported
- - Temperature measurement mode even in crowded places
- Mode of matching the temperature measurement to a recognition element (plane ticket, document, badge, etc.) also QR
- License plate recognition method combined with temperature measurement on the travel ticket
- Possibility of data transmission to the operations room







FRAME (TUNNEL) ANTI-CORONAVIRUS SANITATION



Video demo 1

Video demo 2

#### MOBILE AND FIXED X-RAYS MADE BY ITALIAN COMPANIES

#### Automotive scanning system

Specifically, it is an X-ray scanner for checking vehicles, even when they are occupied, in order to identify the presence of hidden people and illicit material (weapons, explosives and drugs).



It allows you to check industrial vehicles in order to identify the presence of hidden people and illicit goods, such as weapons, explosives and drugs.



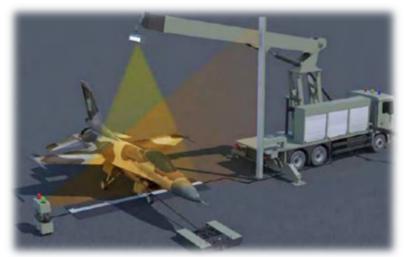


#### X-RAY FOR CIVIL AND MILITARY AIRCRAFT

Innovative solution to scan the fuselage and wings of aircraft in a few minutes in order to identify any damage and cracks. At the same time, the system makes it possible to identify the presence of hidden persons or clandestine material.







**MOBIL-SCAN** - The system is installed on a mobile x-ray vehicle that allows you to view the interior of the vehicles in order to identify hidden people and / or illicit material.

It is based on backscatter technology and is widely used in the control of vehicles circulating at borders and in areas close to street demonstrations or along routes traveled by VIPs.

demonstrations of along routes traveled by vies.

The rays emitted during the control phase by the System are not dangerous to the health of people who may be hidden inside the vehicle, as the irradiation is equal to one fiftieth of that detected during a normal dental ortho-panoramic.

#### **FEATURES**

- It does not undergo operational variations even in adverse weather situations (rain, heat, cold)
- mobile, small footprint, operational in minutes.
- Provides a full field of view for vehicles of all heights, including tires, and up to two tiers of stacked containers.
- Possibility of scanning even in motion at a speed not exceeding 10 km / h (6 mph)



Video demo (click to open link)







### **SMART TRAIN SCANNER (STS)**

The system allows you to automatically inspect the frame of the wagons of a railway train by comparing the high-resolution 3D image obtained from two cameras with a reference-type image, circling non-compliant parts and the presence of foreign bodies in red on the monitor.

Each car in the train clears the previous scan, the automatic foreign object detection software takes only 4 seconds to compare the subject's carriage with a reference image of the carriage (stored in the database) and display both of them on the screen. The system then immediately identifies any foreign objects or modifications to the frame, marking them with a red circle and activating an audio and / or visual alarm.

#### Technology

IDENTIFY the type of wagon: boxcar, refrigerated boxcar, flatcar, tanker, container carrier, gondola, hopper, central partition wagon,

automatic transporter and more

DETECT any foreign object or frame modification

**HIGHLIGHT** these changes

ALERT personnel of any threats, all in seconds

#### **Applications**

- Permanent non-intrusive installations at:
- Passenger railway stations
- Loading / unloading points
- Passage bridges
- Border crossings





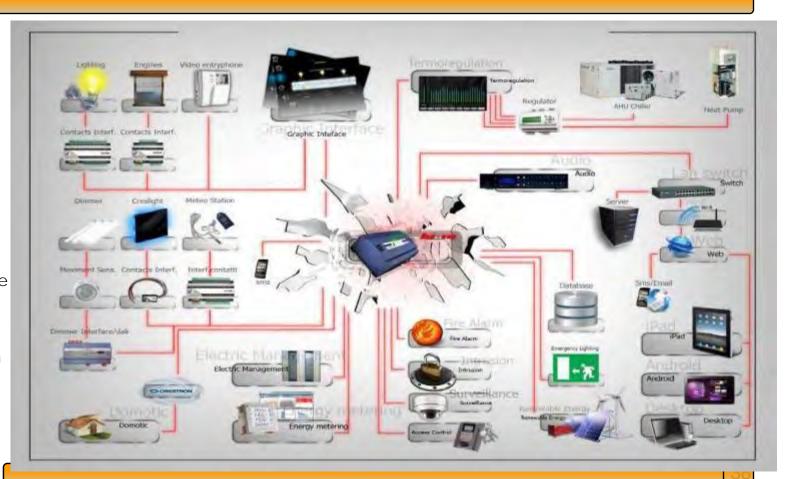
#### AREA PROTECTION by means of a LONG RANGE MULTISENSOR

- The system involves the use of cameras with laser technology for shooting up to a distance of over 25 km.
- The cameras used are interoperable and allow the management of multiple lenses.
- Used in conjunction with the controller and high resolution DVR, the system offers a fully integrated solution for effective multi-functional monitoring.



#### HOME AUTOMATION MANAGEMENT SYSTEMS OF A BUILDING

Centralized
management of
every single room,
For example, it will be
possible to view the
malfunction of the
single air
conditioning system
in the control unit



## OPERATING AND CONTROL ROOM - CUSTOMIZED OPERATIVE CONSOLE FURNITURE AND MONITOR WALLS (VIDEOWALL)





The area control system uses cameras integrated with laser range finder, in order to identify targets and evaluate their distance. Integration with NBC radar (nuclear, biological and chemical) is possible

the system consists of an integrated platform tower, consisting of:

- Day / night camera.
- Thermal imaging camera.
- Laser Range Finder.
- Meteorological station
- NBC radar.
- Passive terrestrial radar.

#### AREAS AND BORDERS PROTECTION

The system involves the use of passive sensors produced by Italian companies that can be installed on any type of flooring, which record break-in attempts and memorize similar methods attempted in the last 6 months. Also valid for use in border control.

#### MAGNETIC SENSOR:

It detects changes in the magnetic field made by constant with any type of soil, or pavement, as long as the installation depth is correctly evaluated.



#### SFISMIC / ACOUSTIC SENSORS:

The use of seismic / acoustic sensors is irreplaceable in people or vehicles. Its operational capacity remains all circumstances where civil (urban environment) or natural (trees, bushes, etc.) obstacles make it difficult to have a clear visual range, limiting the response to potential threats at close range.

> These sensors determine the location and distance of the potential threat.

> Inside the sensor there is a seismic transducer, a signal processor, a transmission system.

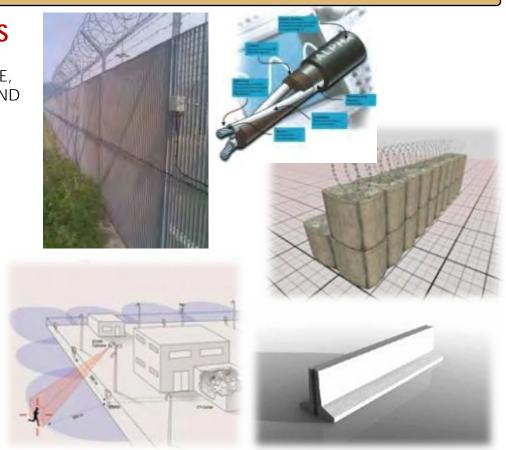
> The sensor is completely automatic and connected to a generator for an autonomous power supply therefore without possible interruptions.

#### **SECURITY SOLUTIONS FOR FENCES**

THE PERIMETER DEFENSE SYSTEM USES THE TECHNOLOGICAL SOLUTION OF THE AUDIO CABLE, ADAPTED TO THE CHARACTERISTICS OF THE GROUND AND THE SITE

The solution involves the use of multiple video recording points, consisting of camouflaged poles installed along the perimeter, integrated by multiple technologies:

- High resolution zoom PTZ cameras.
- Short range thermal cameras.



#### PERIMETER PROTECTION SYSTEM FOR FENCES

#### Special pre-wired detector



Compatibility of CCTV systems



Very high detection capacity for high-risk sites, such as prisons

## Cutting detection, climbing on fences



Immunity to environmental disturbances



Effective on different types of structures

#### Compatibility with any metal fence



Resistant to extreme temperatures and thermal variations



## MARINE ANTI-INTRUSION PLATFORM AND FOR DETECTION AND COLLECTION OF MARINE DATA

The system involves the use of submarine buoys made by Italian companies, which integrate a marine radar with a television recording and satellite transmission system of images and alarms.

The range of the radar is 20 nautical miles (37 km), which can be integrated as required with a military and civil satellite communication system. They are equipped with pivoting infrared search cameras.

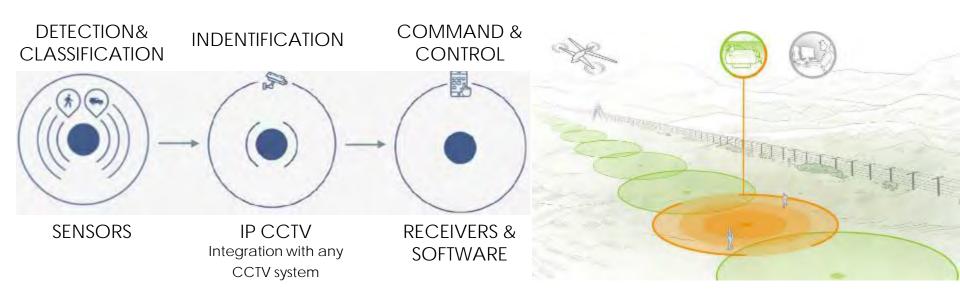
#### **APPLICATIONS**

- All maritime surveillance and control operations
- Combined floating system on several axes.
- Marine data collection and water monitoring
- Intrusion detection
- Control of maritime traffic.



#### **UNATTENDED GROUND SENSOR SYSTEM**

A wireless and modular unattended ground sensor system (UGS) for detection, classification and identification of human activities and movements of vehicles in remote locations lacking communication and infrastructure.



#### ANTIDRONE SHAHINE

The system has various configurations: in a fixed or mobile location. It finds particular application in the anti-drone protection of VIPs, buildings, vehicles and people in motion. Create an electronic dome with a radius of 1 km in height and a radius of 500 meters per side.

- The operating principle is to interfere with the control frequencies of the drone, or swarm of drones, approaching, forcing it to activate its safety protocol (go back).
- When the anti drone system is active, it is impenetrable by any drone that uses the 2.4GHz and 5.8GHz frequencies, without interfering with Wi-Fi and mobile telephony.
- The unit can be powered by a battery or a 12V DC power supply.

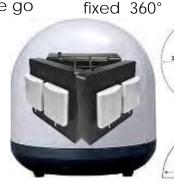
# Range better than Beam width over 160 degrees both norizontal and vertical

Drone-Rejecter

#### The different Drone Shahine units

portable- 1,5 Kg







Video demo



When drone enters the Drone-Rejecter

field its forced to return home instantly

#### **AQUA**

#### THE MULTI-SENSOR FUSION PLATFORM FOR STRATEGIC MARITIME INTELLIGENCE

AQUA is the Multi-Sensor Fusion System for Strategic Maritime Communication Intelligence. The complete Vessel Traffic Monitoring system for Navy, Coast Guard and LEAs to manage Surveillance Activities and construct the Maritime Situation Picture.

AQUA is a modular and scalable system, the End User has a complete range of possibilities to build his own Maritime Intelligence system - starting from managing one single source and scaling up.

AQUA® Maritime Intelligence is the solution for multiple scenarios:

Sea Domain Awareness Complete monitoring of large areas

Centralized Command and Control Centre

Maritime Analysis Powerful unified data source

Deducing insight from data with real-time information

Exclusive Economic Zone (EEZ) Traffic Control Detection of suspicious activity

Traffic Analysis

Port Monitoring Traffic Control

Detection of suspicious activity

Fishery Control Fishery areas monitoring

Catch Illegal, Unregulated and Unreported (IUU) fishing activities

Illegal Migration and Trafficking Routes Identification

Anomalies detection and alerts



#### PASSIVE RADAR TECHNOLOGY

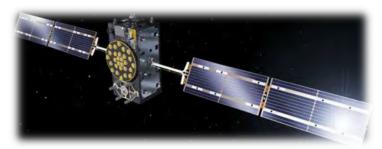
Pas-Rad is an innovative Passive Bistatic Radar Technology exploiting the reflections of the Galileo GNSS navigation signal to detect moving objects at sea and on the ground.

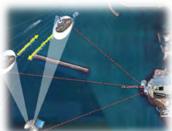
#### **Technology Concept**

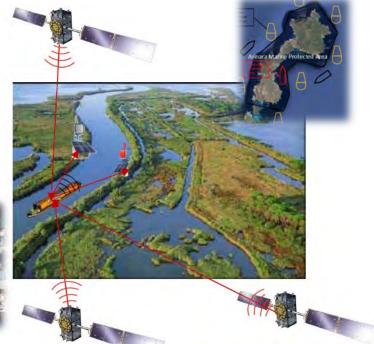
GNSS Passive Bistatic Radar exploits the reflection of satellite signals impinging on the moving target in order to detect it and measure its distance and speed (via Doppler effect).

Each measurement is obtained integrating coherently the signal over few seconds and incoherently among different sub-bands and satellites.

Two or more measurements allow to fix the target position on 2D map exploiting trilateration technique.







## **CYBER SECURITY**

- <u>Use hypothesis: government network strategic companies</u>
- Intel-Fra: Government network analysis system to detect attack attempts
- PDR-Net High Security Protocol
- <u>Training Courses Computer forensics & Digital Investigation</u>

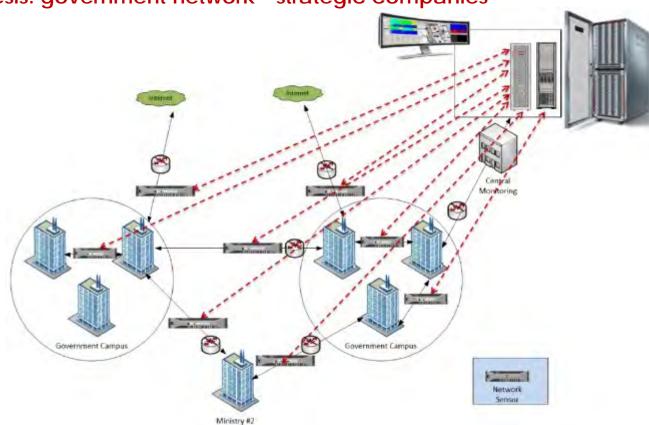
Use hypothesis: government network - strategic companies

Sources of cyber threats:

- Terrorist networks
- Industrial espionage
- Organized crime
- Hacker

#### The solution

Implement internal and external monitoring system and establish monitoring of intrusion attempts 24 hours a day,



## Over 600 protocols and applications recognized by signature / behavior



#### **INTEL-FRA**

#### NETWORK ANALYSIS GOVERNMENT SYSTEM TO IDENTIFY ATTEMPTS TO ATTACK EXTERNAL AND INTERNAL

The Intelligence Framework (INTEL-FRA) is a powerful engine for information gathering and vulnerability assessment. It supports scanners, commercial open codes and custom, extensible forms with virtually limitless possibilities.

It performs automatic analysis of information systems, allowing the operator to obtain data in real time, including DNS, network, databases, web applications, social registers, commercial registers and financial registers.

All the information collected is unified through a reporting engine to obtain a structured report, also available in English and Spanish.

It is possible to create automated solutions that limit human error and that include signature, fuzzing and hacking technologies useful for intelligence evaluation.



**Automated hacking** 



Machine learning



**Automated validation** 







## PDR-Net High Security Protocol

#### FROM SERVERS TO CLIENTS ON THE FIELD

#### **PDR-NET**

2 channels of communication, TCP for reliably transfer control data between the client and the server. UDP for low latency transfer of voice data.

## Communications all over the world with maximum security



HIGH SECURITY SERVER

### **Training Courses - Computer forensics & Digital Investigation**

We provide the most cutting-edge training for digital and mobile forensics. Workshops include deep hands-on learning, and participants leave with new tools and skills immediately applicable to forensic investigations. Our instructors actively maintain all the major and recognized certifications from the industry continuing education year after year.

Training isn't a one-time achievement and requires a continuous effort.

The industry and our code of ethics requires us to stay up to date with the best practices and enroll in continuing education opportunities to maintain the highest level of quality.



Continuing education opportunities include classes, lectures, conferences, seminars and workshops. We have several years experience working with law enforcement, corporate and academic customers both in Italy and foreign countries and we believe that we excel at explaining complex concepts in ways that are easy to understand.

Our team is composed by skilled professionals ready to provide the highest level of operational support for our customers on short notice.

Training could be held in our selected facility or on customer premises.

## **SPECIAL FORCES**

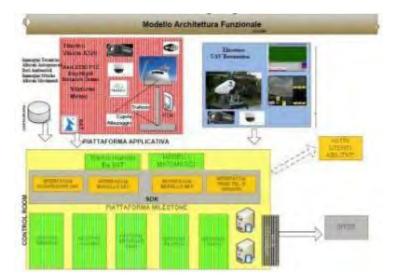
- Civil Protection: Fire prevention, communication on emergency
- Special Forces: VIP, Sniper, NBCR, EOD
- Special Equipment for people and vehicles
- Special vehicles with camouflage possibilities
- High-tech protections for people and vehicles

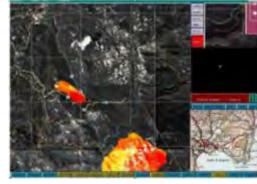
## CIVIL PROTECTION

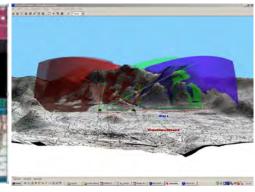
- Fire prevention
- Fire barrier
- Alternative communication system in the event of a disaster
- Phone, GPS and people locator detector

# FIRE FIGHTING SOLUTIONS (SELF-PRODUCED)

Fire prevention through the use of algorithms, thermal cameras and terrestrial sensors and weather stations, with an advance forecast of at least 2 hours of the possibility of a fire occurring.







Fire fighting solutions

The cartography consists of three-dimensional 3D maps with the visualization of the processing of data from the sensors.



#### **BARRIER AGAINST FIRE**

The barrier is represented by a non-toxic retardant liquid, which prevents the spread of a fire. It is very effective in the protection of inhabited centers, forest areas and sensitive sites.







#### ALTERNATIVE COMMUNICATION SYSTEM IN THE PRESENCE OF DISASTERS

Rapid communication system in calamitous situations, in the absence of other communication possibilities. It is possible to restore the connection between operators and operations center,

The system provides the ability to quickly deploy an independent mobile phone network and locate survivors with the ability to communicate with them.

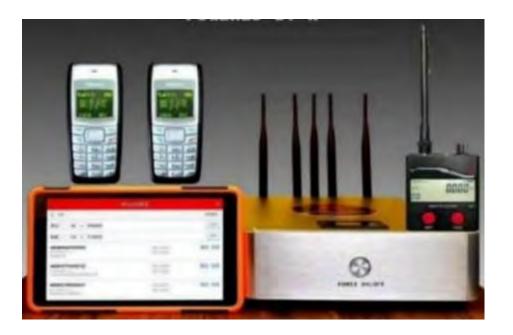
Georadar system creates detailed profiles of the subsoil by means of a broadband radio pulse.





#### PHONE, GPS AND LOCALIZATION OF PEOPLE DETECTOR

The system allows you to locate people buried in rubble or avalanches through the identification of mobile phones even if they only allow emergency calls



## **SPECIAL FORCES**

- Sniper Management System
- Detection of IEOD improvised explosive devices
- ArtRobots EOD Remote Operated Vehicles with Variable Geometry
- Chemical, biological, nuclear and radioactive systems NBCR
- VIP protection

### **SNIPER MANAGEMENT SYSTEM**

The system allows the head of the sniper team at the station to see the same images that appear to the operator through the rifle's telescope, in order to assess the real situation and then to issue the appropriate coordination and operational arrangements for synchronized fire.

The solution, which can be customized, records all the development of the action for a subsequent evaluation.











## **EQUIPMENT FOR BOMB SQUADS**

detection and deactivation of IEOD explosive devices



### <u>ArtRobots - EOD Remote Operated Vehicles with Variable Geometry</u>



ArtRobot-N21 is the only Remoted Operated Vehicle (ROV) with explosives disposal capabilities (EOD/IEDD), HazMat CBRN(e) handling, as well as logistics (mule), medical support (MEDEVAC) and reconnaissance (Recce) with a variable geometry system. It can automatically increase or decrease its width in mere seconds.

#### Future - ROBOT FOR EOD/CIED AND CBRN THREATS

**EXTREME POWER OUTSTANDING PRECISION** 

This robot is integrated with sniffer, so it's possible to send robot and do analyze of the area, if there are explosive and do recognition, and also can work also if the jammer are switch on.

Hydraulic arm with a lifting capability over 200 Kg. and up to 7 Tons power in the

gripper.

The ART-Robot vehicle is controlled entirely via a laptop and joystick.

All functions can be accessed with the joystick, practically using just one hand.

The screen can be used to show both the machine's operational conditions and the images relayed from its on-board cameras, at the same time.

Video demo EOD Robots

#### **UAVS AND LAND VEHICLES WITHOUT PILOT**

It is possible to create UAV and terrestrial systems with the possibility of remote management, also equipped with NBCR (nuclear biological, chemical and radioactive remote) detection sensors with variable alarm threshold and data management systems.

Sanitization and decontamination of the vehicle

used is possible.







Video demo 1

Video demo 2

## UAV (VEHICLES WITHOUT PILOT) WITH FIXED AND ROTATING WING



#### JAMMING SYSTEM FOR VIP CONVOYS



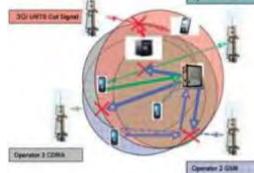


The anti-explosion system also operates in UHF and VHF frequencies. It finds application in the protection of VIPs, convoys and fixed installations. The system consists of reactive Jammers in a portable version carried on board a vehicle or motor vehicle, which allow communications to a white list of telephones, blocking all the rest, thus also inhibiting the remote activation of IEOD.

Reactive jammer systems that leave a white list of phones in activity and block all the rest that try to operate squares. It exists in mobile and fixed version.







#### MECO27 multi-channel electronic countermeasure unit

- Covers all GSM (2G), UMTS (3G) and LTE (4G) frequencies
- 2.4 Ghz WIFI and / or Bluetooth
- Transmits up to 6 channels simultaneously
- Adjustable power in antennas from -40 to + 30dBm / channel
- All outputs are connected to a special antenna array installed inside the container lid. Each antenna provides 6dBi of gain
- Lithium polymer battery with status indicator.
- External power option.
- Light weight: less than 2.7kg

#### HIGH POWER DDS JAMMING SYSTEM TRANSMITTED FROM A CONVOY VEHICLE

-D2 JAM, high-power DDS Convoy Jamming system, which implements the most effective RF jamming technology. Reliable and equipped with a fully integrated broadband jamming system.

D2 JAM can cover, continuously and simultaneously, all 20MHz -3600MHz (20-6000MHz) RF communication frequencies which are most commonly used by terrorists to detonate roadside bombs (RCIED). By adopting the latest jamming technologies, the D2 JAM delivers ultra-high 1300 watts RF transmit power, creating a wider shielding range around the vehicle.

Frequency Range	20-3600MHZ
Total RF Power	1000 Watt, Max: 1300Watt
Jammer Module Number	12
Jamming Frequency Bands	More than 20Bands
Number	
Cooling System	Systematic Smart Cooling System
System Protection	VSWR, Over-voltage, Over-current,
Jamming Source	Direct Digital Synthesize Technology
Remote Control	Full System Operation Control
Antenna Type	High Gain Omni-directional Antennas
Number of Antennas	8-10
Vehicle Platform	Off-road four-wheel drive car
Power Supply Source	Additional AC Generator ( 5000W)
Total Power Consumption	Max: 5500W, (+28VDC)
Battery Back Up Capacity	200AH/+28VDC
Jamming System Weight	Approx. 90kg
Operating Temperature Range	-35°C - +65°C
Operating Humidity	Up to 80%











#### MOTO JAMMER - JAMMER WIFI 2G, 3G, 4G, 5G

Protecting a convoyed military team, VIPs, as well as an important site or single person from improvised explosive device (RCIED) attacks along the way is becoming a global challenge and an extremely challenging security task.

The proposed system consists of a motorcycle jammer that can block VHF, UHF, 2G, 3G, 4G, 5G, WIFI or even UAV (anti-drones).

It is possible to offer the service according to the customer's needs.

The maximum output power can be up to 110W.





## SPECIAL EQUIPMENT FOR PEOPLE AND VEHICLES

- Non-lethal defense systems and public order
- Personal protections and OP helmets
- Tear gas and alternative crowd dispersal systems
- Bulletproof vests
- Ballistic helmets
- Night viewers
- Portable thermal cameras
- Non-lethal arrest systems
- NBCR gas mask
- Penetration kit for opening grates, doors ...

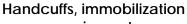
## **NON-LETHAL DEFENSE SYSTEMS**

Among the non-lethal defense systems intended for use in public order, are shields (including ballistic ones), tactical vests, truncheons, individual protections and gas masks, better illustrated by the images on the side.

In addition to the above, it is also important to point out the use of alternative crowd dispersal systems, which include tear gas, smoke bombs and hand throwing and / or throwing pepper spray nebulizers. All the latter can be made in a self-destructive configuration to prevent the relaunching towards the operators by antagonists. The systems based on pepper spray, in the non-hand throw version, are directional with a range of 11 meters even in the presence of wind.

It is also possible to provide for the use of riot jackets and gloves, which in the self-defense version have the particularity of transmitting a slight electrical impulse to any attacker.













Tear gas nebulizer and pepper spray



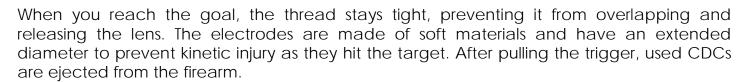


#### TASER - INNOVATIVE SEMIAUTOMATIC CONTACT

It is a multi-shot electroshock device, designed to incapacitate an aggressive attacker without causing irreversible damage to health and life.

#### Operating principle

When the trigger is pulled, a high-voltage discharge initiates two CDCs (Charge Delivery Cartridge), which fire the electrodes from the weapon to the target. After the creation of an electric arc, the target receives a high voltage discharge of a specific shape causing paralysis or pain effect based on PDG (Personal Defensive Gadget) electrical exposure technology. The duration of the exposure is defined by the moment the trigger is pulled.









# **NON-LETHAL DEFENSE SYSTEMS**

The non-lethal defense and equipment systems include bulletproof vests, both standard and under shirt, weighing less than one kilogram (also implemented by an anti-cut and anti-punch system), which find various possibilities of use (OP, protection, VIP, operator protection in general). For use at night, the portable thermal cameras and night vision goggles should also be noted

For cases where it is necessary to proceed with the arrest of violent and / or dangerous people, it is useful to pay attention to the possibility of using <u>an innovative non-lethal arrest system</u> in use by the US police forces, based on precision launch by means of laser point, even at a distance of 5-7 meters, of a self-tightening lace, which can be directed to wrap around the antagonist's legs or trunk.



Camouflage and undershirt jackets







Video demo 2



# KIT OF HYDRAULIC SYSTEMS FOR OPENING RAILS, DOORS AND MORE

The hydraulic systems in question find application in all cases where it is necessary to quickly and safely open railings, armored doors, vehicles, etc.

The reference is to the need for a raid by the Police Forces, to the rescue interventions of the Fire Brigade, etc.









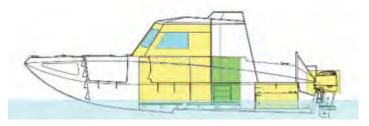
Video demo

# SPECIAL VEHICLES WITH THE POSSIBILITY OF CAMOUFLAGE

- Maritime, land, air
- With crew
- Unmanned
- Custom wiring

# LIGHT HELICOPTERS, MARITIME AND LAND VEHICLES - NEW AND USED

In addition to the marketing of helicopters and maritime and land vehicles, it is possible to create armor, camouflage for armored vehicles and customized fiber cabling inside any type of vehicle (or missile).







Video demo

# FAST BOATS VARIOUS CONFIGURATIONS FROM 44 METERS AND 27 KNOTS AND MORE

Made in Italy with reduced turning capacity.

GENERAL	
Gross tonnage	296
Net tonnage	88



Dimensions - Propulsion System - Performance	
Length OA.	44,10 mt
Length B.P.	37,25 mt
Molded width	7,83 mt
Depth modeled	3,23 mt
Empty weight	162 tons



# Video demo

# JAWS 21 – VESSEL WITHOUT PILOT

All the equipment installed are managed remotely with image display.

#### **OPERATIONAL MISSIONS:**

- Maritime surveillance within and beyond
   12 nautical miles
- Port defense;
- Search and rescue operations;
- Prevention and contrast of crimes at sea;
- Supervision of fishing areas;



# MORE INFORMATION ON THE USV «JAWS 21»

#### CONFIGURATION:

- FULLY EQUIPPED BOAT;
- CONTROL COMMAND C41;
- REMOTE MANAGED WEAPONS SYSTEM;
- MARITIME RADAR VARIOUS POWER;
- EO / IR / LRF PLATFORM;
- SONAR;
- PASSIVE SENSOR;
- ECM-ECCM SENSOR;





# **AIRCRAFT WITHOUT CREW - ETF**

Exclusive UAV made in Italy, with a payload capacity (PAYLOAD) of 100 KG. With the possibility of ballistic protection, remotely managed with the ability to transmit data and images to an operations room.

#### **APPLICATIONS**

- Tactical control of the territory with target acquisition;
- Border surveillance and area control:
- Privileged use by the armed forces and law enforcement;
- Control of maritime traffic;
- Another useful use is the exploitation of images for journalistic purposes;
- Flight autonomy of 20 days at full load

#### CHARACTERISTICS OF THE CONTROL STATION

- NAA shelter type ACEIII compliant;
- Compliant with STANAG 4586;
- Redundant command and control console;
- Ability to plan, manage, simulate and reproduce the mission;
- Intuitive MMI:
- External C4I interfaces:



#### UAV360 WITH OMNIDIRECTIONAL CAMERA WITH 360° VIDEO CAPACITY

It is a mini helicopter of small dimensions and low weight, which in the basic configuration is 17 Cm long for a weight of 160 gr.

It is self-produced, so it can be customized according to the customer's needs.

Its payload is a mini omnidirectional camera with two lenses, capable of shooting spherical videos of the surrounding area and a front thermal imaging camera.

Particularly suitable for forensic analysis and for a tactical vision in the area of operation.



# VARIOUS MODERN SENSITIVE AIRCRAFT FOR YOUR MULTIPLE FLIGHT NEEDS











# HIGH TECHNOLOGY PROTECTION FOR PEOPLE AND VEHICLES

- Personal protections
- Portable antidrone systems
- Antidrone for safety of vehicles in flight and landing vehicles

# HIGH TECHNOLOGY PROTECTIONS FOR VEHICLES, ENVIRONMENTS AND VIPS

On the side is the image of a wearable video transmitter, and its surveillance unit, which transmits video and audio streams over 3G / 4G / 5G and Wi-Fi networks, allowing in real time the acquisition of its location and simultaneous transmission of audio and video recordings.

The Mobile Wi-Fi System includes cameras with an autonomy of at least 6 months, connected to an easily concealable portable image transmission system. The system is applied in all cases where it is advisable to acquire images of sensitive sites remotely.

Ballistic protection applicable on glass of vehicles, ships, helicopters

The protection is obtained by means of a bulletproof and shatterproof film, guaranteed for life, which does not yellow, resistant of calibers 9 - 357 - 38.

Made of lightweight material, it can also be used for the ballistic protection of a vehicle.



Video demo

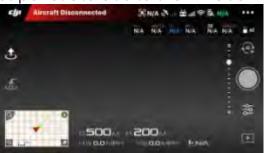


# PORTABLE ANTIDRONE SYSTEM

The proposed mobile antidrone system is currently unique in the world. It finds application on vehicles, convoys, boats, etc. without interfering with wifi and mobile telephony.

Activated, it creates a protective dome with a radius of 1 km in height and 1 km in diameter, inside which an approaching drone cannot penetrate due to the inhibition of its telemetry software.





Antenna patch per veicolo



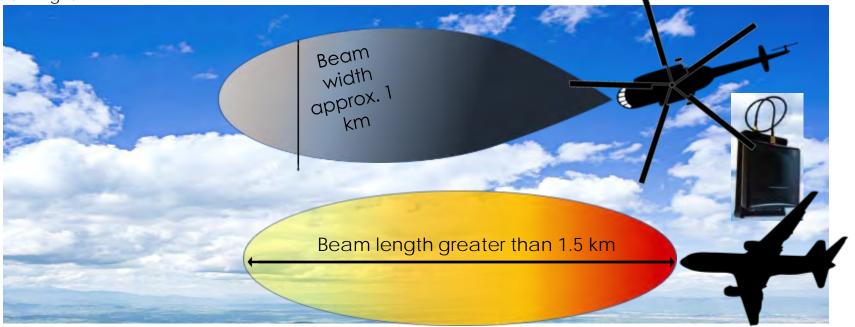






### ANTIDRONE FOR SAFETY OF VEHICLES IN FLIGHT AND FOR THE SAFETY OF LANDING VEHICLES

This solution, currently unique in the world, is portable and was created for use on board aircraft and near the landing strips to meet the needs of protection from drones or swarms of approaching drones. It has a range of 8 km for the protection of an airstrip and produces a beam with a width of one kilometer and a length of 1.5 km for the protection of aircraft in flight.



# **ANTI DRONE SYSTEM**

# DRONE DETECTION BY MEANS OF ARTIFICIAL INTELLIGENCE

It can block multiple threats at the same time, identifying the operators who manage the drones (the starting GPS position). The product is field tested and customizable







# ANTI-DRONE / UAV / QUADCOPTER JAMMING SYSTEM

The main objective is to neutralize the civilian Drone / Quadcopter / UAV communication in order to prevent the infiltration of sensitive positions, protected compounds, military bases and so on, or in order to protect a VIP from the armed attack carried out by those systems.

The system is a high power outdoor anti drone / quadcopter / UAV that can be monitored and controlled from a remote location using dedicated software.

The system can be provided as an active system or as a reactive system that works only after activating an alarm when an unknown object reaches the air safety zone.











# **COMMUNICATION SOLUTIONS**

- Border Control
- Crypto Technologies
- Network Radios
- Moving satellite transmission system for vehicle, boat and aircraft
- Communication system over the air, audio and video, on moving vehicles, even not in optical view between them (NLOS and LOS), and towards the operations room
- Tactical Communications
- Civil communication system in uncovered area
- Multi-channel system for real-time audio/video transmission
- Command and Control Systems

# **BORDER CONTROL**

### **BORDER PATROL**

360 ° field of view 20Km vehicle detection 5km man scan detection 5Km P2P connection between each unit for CCTV (video and data) MATRIX as a portable CR Satellite connection with the headquarters Autonomy of the entire system: 10 months Operating temperature: -20 / + 60 ° Through the use of various types of sensors, it allows you to control a large sensitive area.

The system communicates directly with the control room (unicast), also portable, in turn connected to an operations room

The system provides for the use of fixed and mobile sensors connected via satellite with localization of the sensors used on a digital map.

Communications are encrypted.





# MINI SUBMARINE WITHOUT PILOT

The system, customizable, produced in Italy, can be used for the surveillance and control of marine areas with the possible addition of the demining function.

It is managed remotely and allows you to send video and data to an operations room

Portable and light, it can also be managed remotely by two people on board an inflatable boat.

#### Technical features:

- tethering mode included (i.e. surface radio buoy connected to the vehicle via a Kevlarcoated optical fiber);
- 6 brushless electric motors (2 main propellers + 4 side / azimuth thrusters)
- ability to hover and rotate points;
- weight <30 kg</li>
- dimensions 1.7 m high x 20 cm diam
- MOD -500 mt
- ability to avoid obstacles
- route followed and bathymetric navigation
- Wi-Fi + RF surface communications + underwater acoustic communications
- Rugged PC with GUI software
- Equipped with:
- Integrated full spectrum bottom profiler and side scan sonar
- Sonar
- Altimeter + depth sounder (digital)
- Equivalent AUV class sensors + UW camera



# <u>CRYPTO-PHONE E1 - SECURE COMMUNICATION</u>

It uses a point-to-point and / or multi-point voice cryptographic card through an algorithm that guarantees the highest level of communication protection, eliminating most of the major mobile security breaches.

It finds particular application in the security needs of companies, for national security and for the

police forces,

#### **Overview Security Module Features**

Encryption algorithm: AES-256bit

Authentication algorithm &

key exchange: RSA 1024 bit/ RSA 2048 bit

Authorization algorithms: BlackList/ WhiteList / CUGList

Hash algorithms: RIPEMD-160/SHA256

Digital Certificates: X509v3

Transportation data formats: CSD, V110

Crypto Cards: Deutsche Telekom/ T-Systems Int. GmbH

Netkey Cards: ITSEC Certification Level 4, mech. strength HIGH.

**Encryption Services**: Speech & SMS

Option: Customer Key management



# **BTE – NETWORK RADIOS**

Network radios offer the innovative opportunity to communicate in crypto through cellular or Wi-Fi networks, without using dedicated radio frequencies.

These are the main advantages:

- 1) It is not necessary to make a radio frequency request to local government authorities
- 2) Quick and simple assembly (no need for on-site infrastructure)
- 3) Worldwide coverage through global cellular data network
- 4) High flexibility in service configuration (intercommunicating or isolated groups)
- 5) Straightforward design
- 6) Guaranteed communication security through data encryption process
- 7) Telemetry management (real-time location system, log of connected devices)



# **BTE – NETWORK RADIOS**

Thanks to BTE technology it is therefore possible not only to communicate in a simple and fast way, but also to transmit data such as the position of the vehicles in which the radio is installed, possibility of programming alarms in the event of a fall ("man down" alarm), restrict the "access to a specific geographical area or group of people and monitor everything through the Server Manager web interface.

The fields of application are the most varied. These include in particular wherever there is a need for communication both inside and outside, such as perimeter controls, road traffic management for construction sites, concierge services in hotels, rescue for bathers on beaches and swimming pools, order service etc ...





# **BTE – NETWORK RADIOS**

#### The radios

In addition to the BTE servers, the system includes both vehicular and handheld radio models.

Every transceiver is TAC, CE and FCC certified, in order to be available for sale in Europe and worldwide. The aforementioned certifications guarantee the high quality of products and constructive processes as well. In particular, our handheld radios are built to resist to the most extreme conditions and are IP67 certified



# MOVING SATELLITE TRANSMISSION SYSTEM FOR VEHICLES, BOATS AND AIRCRAFT

Two-way satellite VSAT transmission
1- and 2-way satellite communication in motion

It uses mobile and fixed satellite antennas, without the need for setting, with two-way audio and video and data transmission capabilities to various operational centers.









# COMMUNICATION SYSTEM VIA AIR, AUDIO AND VIDEO, ON MOVING VEHICLES, EVEN NOT IN OPTICAL VIEW BETWEEN THEM (NLOS AND LOS), AND TOWARDS THE OPERATING ROOM



## TACTICAL COMMUNICATION SOLUTIONS

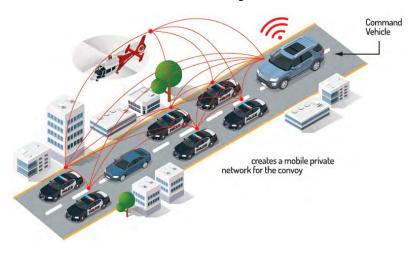
#### Tactical team scenario



Each of the team members in a tactical environment is connected to the command vehicle by means of a self-produced microwave communication device.

The Commander will then be able to share audio, video and data with all units so that it can transmit provisions, information and updates.

# VIP convoy scenario



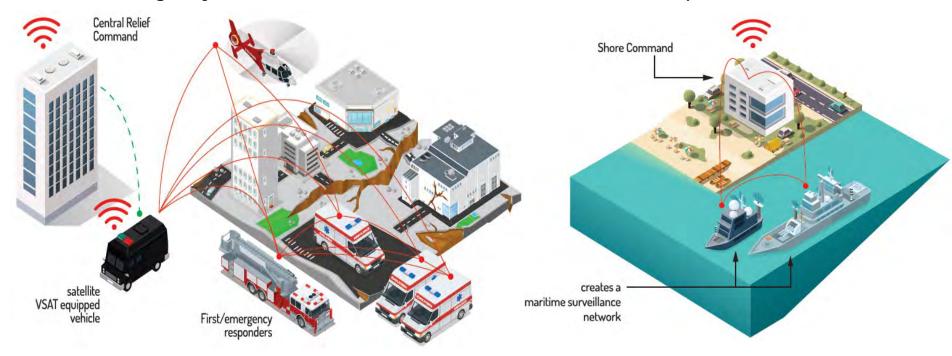
Each of the vehicles is integrated into an ad hoc microwave network that includes a system of cameras equipped with audio.

This allows all security personnel to have a complete view of the convoy in motion.

# OTHER TACTICAL COMMUNICATION SOLUTIONS

# **Emergency services scenario**

### Maritime protection scenario

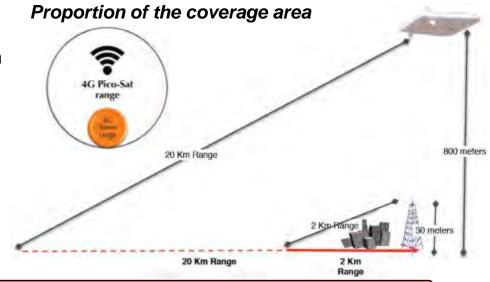


### CIVIL COMMUNICATION IN NOT COVERED AREA

The system consists of a mini airship that allows the activation of multiple 4G / 5G telephone lines and pay TV through a combination of satellite technology and mobile network service. The system offers full IP voice web access and TV services up to 47MBit / sec

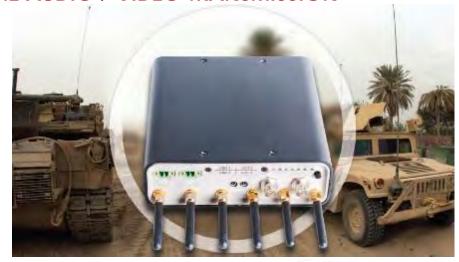
#### Peculiar technical characteristics:

- 4G P-Sat covers over 60 times the area covered by the standard telecommunication tower where the mobile device can connect to the Base Transceiver Station (BTS)
- 4G P-Sat can reach 800m of altitude compared to 30m of 4G BTS with tower



## MULTI-CHANNEL SYSTEM FOR REAL-TIME AUDIO / VIDEO TRANSMISSION

Multichannel is an innovative technology that allows live video and audio transmission, with recording capabilities, in any condition via multiple 3G, 4G, 5G and Wi-Fi or satellite networks.





# **COMMAND AND CONTROL SYSTEM**

Command-360 is a video management platform that allows the control of multiple scenarios in 3D cartography, with the ability to send video from the operations room to the units engaged in the field, allowing rapid decision making.



# MILITARY SYSTEMS

- Istar on vehicles and vessels
- Wearable antidrone
- SMK UAV Detection & Defense
- Air Defense Radars
- Compound Passive Mobile Sensors
- Remote Weapon Management Systems
- Equipment for Military

# ISTAR ON VEHICLES AND VESSELS ISTAR (Identification, surveillance and target acquisition of objectives)

It is a command and control system which, through the use of various sensors (radar, thermal imaging camera, uav, compasses, goniometric system, etc.) acquires data and images, which are processed by software also equipped with three-dimensional cartography, enriched with NATO messaging, allows the planning of an operational mission in an area of interest

Everything can also be transmitted over a distance.





# **Functional description**

#### ISTAR VEHICLE SYSTEM

MAIN FEATURES;

Easy installation and maintenance;

Lightweight and portable;

Modular to tactical needs;

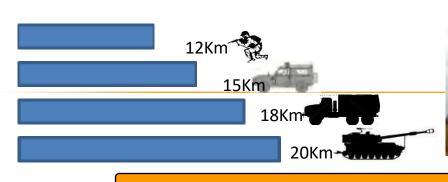
HF / VHF / UHF combat radio;

Operational area of digital maps;



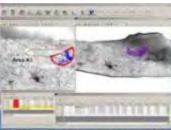
#### SOFTWARE CONSOLE

- Operating system: WINDOWS LINUX;
- GIS: ERDAS Imagine Post / Quantum GIS;
- "Raster and Vector" digital map;
- DTED "Digital terrain elevation data"
- Library symbol;
- Standard message formatting;
- C4l interoperability.









# "RAIDER 11" MILITARY PLATFORM

Platform, made in Italy, launchable, mobile, installed on the vehicle, equipped with the same istar functionality previously described.

It is also used in land surveillance and control operations.

Allows connection with UAVs to have an additional operating range of 30 km; this allows you to acquire the images taken by the UAV, which combined with geolocation, can be sent to the operations room also enriched with NATO messaging

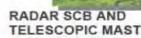
All this allows you to have a complete view of the operational area for the evaluation of operations and

logistics planning.

#### **Features**

- Reliability;
- modularity;
- Mobility;
- Flexibility;
- Low running costs;
- Easy maintenance and repairs;
- Interoperability with all operating units





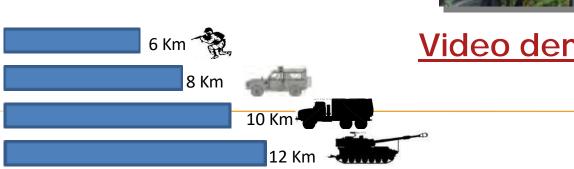


# **OBJECTIVE ACQUISITION STATION**

Lightweight station under 20 kg, for backpack Laser Designator

#### PERFORMANCE;

- Easy installation and maintenance;
- Lightweight and portable;
- Modular to tactical needs;
- HF / VHF / UHF combat radio;
- Operational area identified by digital maps.





### TERRESTRIAL MILITARY STATION FOR THE ACQUISITION OF SELF-PRODUCED OBJECTIVES

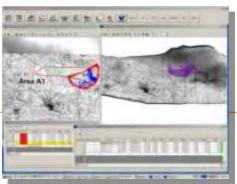
### HARDWARE GCS

- CPU: Intel 17;
- RAM: 16 GB;
- SSD: 512 GB;
- DISPLAY: 10 "LED, opt. Touch screen;
- KEYBOARD: Backlit keys, waterproof;
- Weight: <3.0 Kg;
- Serial ports: RS 232/422/485;
- USB ports: 3;
- Ethernet port: 2

### **SOFTWARE GCS**

- Operating system: WINDOWS LINUX;
- GIS: ERDAS imagine GIS Post / Quantum;
- "Raster and Vector" digital map;
- DTED "Digital terrain elevation data"
- Library symbol;
- Format standard message;
- C4l interoperability



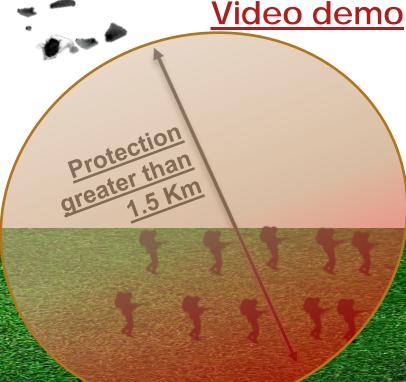


## WEARABLE ANTIDRONE

Unique in the world, small, light, it allows the security of the military on operational ground for the entire range of coverage of the system.

The system includes an antenna and a battery weighing only 350 grams in a backpack.

An equipped backpack therefore offers anti-drone coverage, even armed, to the whole team over an area greater than 1.5 KM in diameter.



### **SMK - UAV DETECTION & DEFENSE**

SMK is the new generation of award winning Counter-UAV solution Anti-Drone-Sys. The system is a state-of-the-art solution for UAV detection, identification and neutralization, based on Radar and RF detection, optronic identification and RF jamming.

SMK is suited with our 3D-Ku-band radar, offering instrumental detection ranges of 10 km. Micro-drones such as the DJI Phantom are detected at a radius of 3 km.

The defense system consists of a jamming system blocking UAV remote control frequencies as well as the frequency bands of Global Satellite Navigation Systems.



DETECTION

UAV detection by Radar



RF detection (UAV/pilot)

### **IDENTIFICATION**

Identification by Optronic System



Command & Control Station



**NEUTRALISATION** 

Jamming System







### AIR DEFENSE RADAR AT VERY SHORT DISTANCE

Very Short Air Defense Radar (VSHORAD)

The system is designed for in-flight target detection and tracking, including a wide variety of low RCS and low altitude targets such as fighter aircraft, ultralights and UAVs.

### Main features:

- Track when scanning over 100 targets
- 3D radar with 360 ° azimuth coverage
- It works locally or via remote command and control system
- Autonomous or integrated operation with additional air defense radars integrated with IFF (option)
- Ethernet LAN communication (wired or wireless)
- High reliability full solid state design
- Extended ECCM functionality
- Digital technologies:
  - Digital Beam Forming (DBF)
  - Digital compression of pulses
  - Digital receivers
- Integrated GPS
- Extended BIT
- Low energy consumption



### RADAR, AERIAL SURVEILLANCE SUBSYSTEM

MULTIMISSION HEMISPHERIC RADAR PLATFORM

The MHR is an advanced software-defined pulse-doppler radar platform that can accommodate various operational missions, which can be performed separately or interleaved over time.

It has an AESA (Active Electronically Scanned Array) S-band antenna, which covers over 90 ° in azimuth and elevation. It is solid-state, digital, compact and mobile and has unprecedented affordability. When 4 MHR are set as a system, hemispherical coverage is achieved.

The MHR can detect all types of moving objects, at an extremely wide range of speeds. Implement ground and lateral multipath erasing techniques and capabilities and techniques that enable coexistence with other identical systems nearby.

### COMPACT MISSILE SYSTEM R-SKY2 FOR AIR DEFENSE

R-SKY2 is a fast, affordable, mobile and modular low-altitude air defense system with C3 command, control and communication capabilities The R-SKY2 system:

- Bring MANPADS missiles to their maximum operational range
- Provides decision support in target detection and firing processes, overcoming the limitations of the human operator and increasing the likelihood of success
- Offers continuous surveillance and operational readiness, 24/7 operational capabilities, automatic passive detection capability and missile signal in the acquisition of detected targets
- It offers a flexible solution for timely defense of strategic assets, essential air corridors, and rapid deployment forces

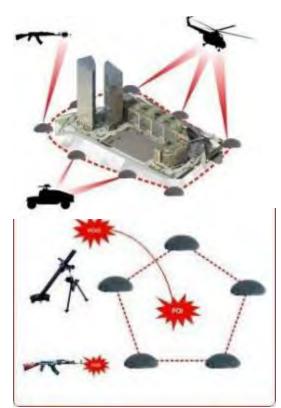


### PASSIVE MOBILE SENSOR «COMPOUND 11»

The Compound 11 wireless system is based on its unique Acoustic Vector Sensor (AVS) technology, unique in the world, which offers the possibility to locate hostile fire, including small arms, artillery, mortars and missiles.

The system is fully configurable at various size levels and can be integrated with existing command and control systems.

It allows to identify the origin, locating it, of direct fire up to 1 km away and indirect fire up to 6 km away.



REMOTE SHOOTING MANAGEMENT SYSTEM





It is touch screen and made in Italy

Video demo





### **EQUIPMENT FOR MILITARY**

Holsters: double locking Duty Glock 17 with thumb opening

Material: polymer

Certification: CE, RoHS, SGS, REACH

Fits both Glock 17 Gen 1,2,3,4,5 guns (insert block to fit Gen 1-4,

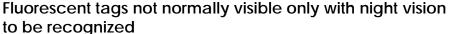
without block to fit Gen5.)

Fits standard viewfinder and taller viewfinder.

Taser certified by ministry of health for prison

Fluorescent tags not normally visible only with night vision to be

recognized



Thermal identification panels and patches made of passive material, intended for outdoor use, when exposed to the open sky reflect the thermal energy of the sky (on a clear day the sky temperature can drop to -30 ° C) and appears as a contrasting cold area on the thermal device.

Same material for 3-5 microns and 8-12 microns.

















## INVESTIGATION SYSTEMS

- Long distance mobile phone interception
- <u>Tactical mobile phone interception</u>
- People locator
- Wi-Fi Interception Systems
- Social interception (WhatsApp, Telegram, VoIP, ...)
- The Fastest Investigation Platform
- Strategic and tactical thuraya satellite interceptor
- Custom vehicles installations solutions with hidden cameras
- Directional microphone
- Micro Microphones and Transmitters
- Micro cameras and GPS and environmental
- Audio and video microtransmitters, hidden devices
- DELTA v2.0 Wireless Digital Audio Surveillance System
- Polygraph systems (lie detector)
- Long range camera
- Thermal Imaging Handheld Cameras

### LONG-DISTANCE INTERCEPTION MOBILE PHONE







- The solution allows the interception and location of targets in cases of mobile telephone communications up to a distance of 120 km

The system uses an antenna of only 120 cm. in diameter, which allows it to be autonomous and not need to be supported by a telephone operator.

It also offers the possibility of recording and listening to telephone communications, copying text messages, capturing telephone numbers and data from a single telephone and locating a selected target.

### TACTICAL INTERCEPTION MOBILE PHONE

This solution also provides autonomy from telephone operators

It can be configured in different solutions:

- Acquisition of phone and calling card data (IMSI and IMEI Catcher)
- Vehicle installation
- Handheld

All systems can be integrated with each other and can be customized according to needs.





### TEL - FLEXIBLE HIGH-POWER 2G/3G/4G/5G IMSI CATCHER AND MITM SYSTEM

High-power | Long range | Fast | Automatic setup | Full content interception | Cyber capable

### Target identification, localization and exploitation

TEL is a portable GSM, UMTS, LTE and NSA 5G IMSI receiver, based on high power software-defined radio (SDR). Significantly improved range and probability of interception thanks to dedicated power amplifiers for each frequency band and Doherty technique.

The speed of identity acquisition exceeds 1000 phones per minute for BTS.

Optionally, TEL comes with Kelpie integration for quick and easy IT operations.















## **PEOPLE LOCATOR: "Positioning device"**

This solution that can be integrated with the data acquisition function of the target phone allows to locate the same even in the presence of crowds.

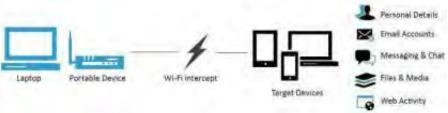
### **FEATURES**:

- Precise location
- Interference resistance
- Operable via smartphone



### Wi-Fi INTERCEPTION SYSTEMS

The tactical / mobile MDS solution allows you to intercept the data traffic of any device operating on Wi-Fi networks (including Voice over IP VoIP, e-mail, HTTP, web mail, Messenger, chat and FTP, etc.)





### Wi-Fi NetMonitor SSM



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The Wi-Fi NetMonitor SSM is a cutting-edge surveillance product that has been designed in close cooperation of intelligence units in order to create a powerful, covert and easy-to-use product for law enforcement agencies.

It provides a wide range of features for undercover operations from gaining access to Wi-Fi networks, detecting and monitoring Wi-Fi clients, jamming WiFi devices and networks, recording and redirecting network traffic.

All features scanning, monitoring, cloning and deauthorization can be performed separately or simultaneously in real-time.

SSM works standalone or in a multiple system with other SSM units connected through a VPN tunnel to a central unit.

## IMSI AND IMEI DETECTOR AND WIFI FOR ADVANCED INVESTIGATIVE

**TACTICAL APPLICATIONS** 

### Characteristics

- Fully passive scanning of the network environment
- List of all cells around the system in real time
- Automatic filtering of false cells based on defined criteria
- Search for the origin of the selected cell

#### **Functions:**

- The device can predefine what information from the network environment must be acquired during detection.
- The software will inform the user about the progress of the scan, highlighting the RAT (Radio Access Technology Bluetooth, Wi-Fi, 2G / 3G4G) scanned at that moment, displaying the detected cells through the animation of an icon.
- The user can see the Provider logo, the Provider name, the timestamp indicating the time of the last detection and the RAT of the detected cell.
- You can view the following information about the detected cell:
- LAC, Cell ID, Channel, BSIC, PCI, Scrambling code.
- Any cell detected can be marked as normal and suspect.
- Depending on the factory settings, it can also detect Jammer.





# SOCIAL INTERCEPTION (WHATSAPP, TELEGRAM, SKYPE, VOIP, ETC.)

The system allows you to intercept communications that take place on social networks (whatsapp - telegram, skype, voip, etc.) by means of a Troian sent remotely.



- Acquisition of calls, SMS, IVR and data
- ICloud Collection Acquisition

Remote monitoring (locations, photos, contacts, storage, agenda ...)

### Operating mode:

- Creation of a fictitious cellular network: allows you to acquire all users included in the coverage of the system
- 2. Capture the target
- 3. Infect the target
- Remote data collection





## **THE FASTEST INVESTIGATION PLATFORM**

Powered by AI and Automation





### THE FASTEST INVESTIGATION PLATFORM



Powered by AI and Automation

Target Profiling and Surveillance



Powerful Collection from Closed Croups and Forums



Social Engineering



Complete coverage of all popular social media platforms



Automatic Report Generation



Deep analytics with drill-down capability



Highly secure solution

## **THE FASTEST INVESTIGATION PLATFORM**

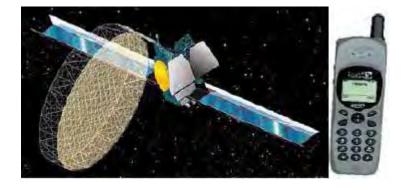


## TST- THURAYA SATELLITE INTERCEPTOR, tactical

### **Tactical version**

The "Tactical" version of the TST system provides a control and monitoring system based on a frequency Down - Converter and relative reception unit combined with a portable PC

It can be easily mounted on a vehicle as the unit is "Rugged" and is also inserted in a "Pelicase" type unit designed to withstand water.





### **CUSTOM VEHICLE INSTALLATIONS SOLUTIONS WITH HIDDEN CAMERAS**









# DIRECTIONAL MICROPHONE COMPLETE SYSTEM IN STEREO VERSION

Directional microphone remotable via streaming and relaunch, valid for crowded venues and customizable, the difference with Norwegian competition and more, this live on hears without side background noises. You can also combine a forensic certification attesting the target's voice with that of the target's databases. RSWT (Remote Sound Wave Tunnel) audio processing: this directional stereo microphone uses a special algorithm that emphasizes human voices and at the same time reduces any unwanted noise especially in outdoor environments.

It allows you to hear only the human voice with a unique quality, in any environmental condition.

Power supply: 3 to 12 V Absorption: about 12 mA Stereo output: 0.2V audio

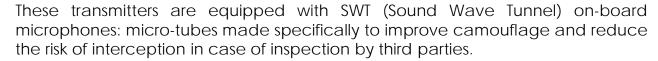
Audio connector: Binder or Lemo (on request)

Dimensions: 100x10x9 mm



### MICRO MICROPHONE SERIES AND TRANSMITTERS

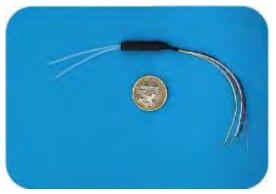
These microphones are equipped with a technology based on advanced voice algorithms that allow you to pick up perfectly distinct voices in real time, even in critical environmental situations

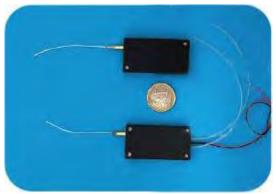


The receiver, when necessary, allows you to turn the transmitter off or on remotely.

The optional AES 128 bit encryption guarantees confidentiality even between different departments, even when they use the same devices.

All our products are customizable on request.





### AUDIO DIRECTIONAL SURVEILLANCE WITH LASER

The second solution proposed is that which provides audio surveillance with laser technology.

the system works by detecting the vibrations of the glass of a window in the room where the targets are collected, translating the detected vibrations into audio.

### **FEATURES**:

- Range up to a distance of approximately 500 meters
- Invisible infrared beam for camera pointing
- Integrated camera



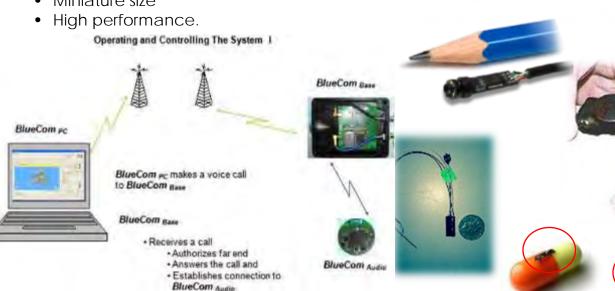


### MICRO CAMERAS FOR USE IN THE PRESENCE OF LOW AMBIENT LIGHT,

GPS AND AUDIO WITH BLUETOOTH, ENVIRONMENTAL AUDIO WITH WIFI

### **Features**

Miniature size



# Phantom - Microphone for spy

This is an environmental device

Since it is made of plastic and glass, it is undetectable.

It is powered by ambient light.

Resists electromagnetic interference.

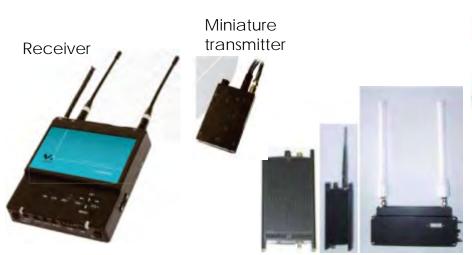


### MINIATURIZED VIDEO AND AUDIO TRANSMITTERS - VARIOUS TECHNOLOGIES

It is an over-the-air transmission system with COFDM technology, which allows wearable micro-cameras to operate even in non-visible optical conditions. All the images collected are transmitted in real time to the operations room.

Clip11 - H264 mini video recorder with digital audio

It operates in 3G - 4G 5G LTE and it is possible to transmit data in remote Wi-Fi video streaming.







### HIDDEN DEVICES FOR DISCRETE REGISTRATION

Wireless cameras with Live View

Have you ever needed / wanted a hidden camera?
Here are some of the reasons why you might buy one of ours.

- Capture footage inside your home
- Burglary
- Domestic violence
- Monitor pets
- Monitor babysitters
- Traitor partner

All with Live View via mobile app

- Capture movies outside the home
- Secretly capture criminal footage











## DELTA v2.0 - Wireless Digital Audio Surveillance System

an advanced digital portable wireless system for transmission of audio signals designated for use in surveillance operations. It consists of a receiver and transmitter. Wireless communication is encrypted to prevent third-party interception.

The transmitters have three operationalmodes: continuous transmission, VOX (voice-activated) transmission and sleep mode. RF output power is adjustable in five levels to achieve optimal power consumption and to reduce the possibility of detection. The built-in AGC (Automatic Gain Control) adapts the gain of microphone preamplifiers according to the level of the input sound. All functions of transmitters can be remotely controlled by TMPSYS-DELTA receivers. Both transmitter and receiver are protected against wrong polarity connection.

#### SYSTEM SPECIFICATIONS

Remote control frequency

RF frequency 410.25-425.25MHz (307.5-322.5MHz opt.)

RF modulation FSK
Frequency deviation ±53 kHz
Data bitrate 250 kbit/sec

RF channels

Repeater channels 10 (available with high-power transmitter only)

143.9875 MHz

Remote control frequency modulation FSK
Remote control channel bandwidth 12.5 kHz
Audio sampling frequency 22.727 kHz
Audio bandwidth (-3 dB) 150 Hz - 8.9 kHz



### **POLYGRAPHIC SYSTEMS (Lie detector)**

The system allows during an interrogation to automatically ascertain whether the interviewee's answers are true or false through the remote analysis of visual stress

In addition to obtaining the behavioral model of a suspect in real time, with this platform it is possible to create a profile archive of the suspect and to analyze pre-recorded video material at any time and in offline mode. This allows for the comparison of profiles and the acquisition of further information and understanding for any investigation.

### Features

- Automatic and in-depth analysis of video files recorded during the interrogation process with system alerts in the presence of a false response ascertained by analyzing involuntary movements of the iris.
- Export functionality of the processed video in CSV, PDF files. Each processed video file is converted to a custom encrypted storage file type.
- Interactive video reports
- Graphs that provide a wide-ranging behavioral picture of the respondent.
- Flexible and modular customizable interface.





### GHOST VAN – VEHICLE OF SURVEILLANCE AND INTELLIGENCE

### Operating systems

The vehicle is equipped with a wide range of operational tools and intelligence applications. Ghost SIV is equipped with detection and location devices with data capture of the target's phone.

It allows the identification of the characteristics of the target, such as gender, personal data, nick name, including device details, information on the email account, messages, calendar, contacts, images and web browsing activity, through social.

The system has the ability to capture hundreds of MSISDN devices without interfering with the cellular network.



### **Features**

- Quick and easy installation:
- Undetectable interception
- Dual Mode Operation: Can be used in standalone mobile mode or fixed mode at important sites



### PORTABLE LONG DISTANCE OBSERVATION SYSTEM

Portable Model: The portable long distance observation system is designed to meet all surveillance needs in city and rural areas.

The system guarantees the acquisition of the target at a very great distance (at 7 km it is possible to frame the facial features or a plate; at 12 km it allows a clear view of the images) using a combination of day / night sensors, providing a noticeable magnification superior to all products currently on the market. FEATURES

easily transportable and for immediate use in the field. remote use is possible.

Fixed station model (ICCD-08): allows detection for 24 hour use, day / night; combines color CCD, IR sensitive black and white CCD and 1/2 "or 1" image intensifier (XD4 or XR5 technology) with fiber optic CCD sensor.

Allows sensor switching with focus / zoom compensation manually or automatically via external light sensor.







Video demo 1

Video demo 2

### THERMAL IMAGING HANDHELD CAMERAS

- ◆Large size high resolution (1440\*1080 pixels), high-performance OLED display.
- ◆Built-in high-resolution (1920\*1080 pixel) low-light camera.
- ◆Support low-light mode, infrared thermal imaging mode, and dual-light fusion mode to meet the needs of day and night observation and law enforcement.
- ◆1000m accurate laser ranging with independent switch laser indicator.





## **ELECTRONIC COUNTERMEASURES**

- Microphone Inhibitor, Jammer
- Meeting room security
- Rooms shielded against electromagnetic emissions
- Environmental detector
- Frequency detector for remediation
- Hardware destroyer system: phones, hard-disks, usb ...

## Microphone inhibitor

The device prevents unauthorized recording of professional digital recorders, such as EDIC-mini, Gnome, analog recorders and smartphone types iPhone, iPad.

The product is camouflaged in a carrying case and can work either stationary or portable.



### Hidden jammer for audio

Speakers virtual screen
GENERATOR FOR GSM, DCS, UMTS 900mhz
- 1800mhz - 2100mhz

Inhibition standard: GSM 900, GSM 1800, DCS 1800, UMTS

Frequency bands: 900mhz - 1800mhz - 2100mhz

Time inhibition mode: constant Modulation format: non-impulsive

Capacity to maintain inhibition: continuous 24 h

Triband Output Type: Simultaneous Delation of suspended emissions: <sup>3</sup> 30db Delation of harmonic emissions: <sup>3</sup> 40db Intermodulation delay: <sup>3</sup> 20 db in band and <sup>3</sup> 30 db out of band

Frequency stability: within 100kHz



It is a frequency inhibitor, equipped with 18 transmitters. Each of them works by creating an inhibition range of up to 60 meters, of all mobile devices.

Output port	Frequency
<u> </u>	<del>  ' '</del>
CDMA	850-894MHz
GSM	925-960MHz
DCS/PCS	1805-1990MHz
868	868MHz
3G	2110-2170MHz
WIFI2.4G	2400-2500MHz
GPSL1	1575MHz
4G LTE	790-826MHz or 725-770MHz
4G WIMAX	2620-2690MHz or 2345-2400MHz
Lo-jack	167-175 MHz
UHF	400-470MHz
VHF	135-174MHz
GPSL2-L5	1170-1230MHz
GPSL3-L4	1370-1390MHz
315	315 MHz
433	433MHz
5.G	3.400-3.700MHz
5G	700-740MHz



## **MEETING ROOM SECURITY**

### USB - CryptoBridge Unlimited Privacy

USB-CryptoBridge protects your privacy: you can turn USB sticks and removable hard drives into a transportable small-sized encrypted media



## Private conversation protector

Private Conversation Protector allows you to protect private conversations from voice recorders, microphones and direct human listening.

- Simple to use device
- Two modes of protection
- Very discreet appearance
- It can be customized
- Managed from the mobile app

# CEFI30Plus detects cell phones, weapons and other products

Thanks to the ferromagnetic detection technology (FMDS), it detects the presence of small microphones, also hidden inside the human body

CEFI30Plus features and benefits include:

- Simple installation, implementable and concealable.
- use indoor and outdoor environments.
- Battery powered or landline connection.
- Detect cell phones on or off.
- Possibility for the operator to receive an alarm in covert mode.
- Harmless to the health of the persons under the control and of the operators.





### OMN360 it is a small microphone

Round in shape, it can be installed in a visible and invisible way in order to inhibit the function of microphones and prevent recording. For use in meeting rooms.





### **KOM31 Ultrasonic jammer**

The system differs from the previous one as a portable version.

This suppressor creates complex structured ultrasonic noise that inhibits the microphone diaphragm.

### Bug detector with real-time remote monitoring functionality

Protect from eavesdropping with RF transmitters and laser monitoring system. Detect:

- RF Bugging Devices
- Cell phones and modems (CDMA450, GSM 900, GSM 1800, 3G)
- Wireless data transmitters (4G, WLAN, BLUETOOTH 2.4 and 5GHz)
- Cordless telephone systems (DECT) and special technical devices that use these data transmission standards
- Analogue radio listening devices





#### ROOMS SCREENED AGAINST ELECTROMAGNETIC EMISSIONS

Advantages and characteristics of the electronic conductive fabric to obtain shielded environments:

- Low construction costs
- Easy installation
- Perfect adaptation to the internal conformation of the room to be shielded
- Little need for maintenance
- Short construction times



# Frequency detector device

The detector is an indispensable tool for the quick and safe detection of devices containing semiconductor components.

It can be used for the reclamation of premises with identification of hidden devices, including repeaters.



#### RF detector frequency meter

The device provides detection of:

- mobile phones compliant with GSM900 / 1800, UMTS (3G), CDMA450 standards;
- DECT phones;
- Bluetooth and Wi-Fi devices;
- wireless cameras;
- radio transmitters with analog modulation (AM, FM, PM);
- radio transmitters with digital modulation and continuous carrier (FSK, PSK, etc.);
- radio transmitters with broadband modulation up to 10 MHz of bandwidth.



#### ST 031M "Piranha" - Multipurpose search device

Allows you to determine the position of radio emission devices, The system mainly includes:

- Radio microphones;
- Telephone transmitters;
- Radio-stethoscopes;
- Hidden video cameras equipped with a radio channel for the transmission of information;
- technical means or systems for radiofrequency space radiations;



## DATA DESTROY21: HARDWARE DESTROYER SYSTEM

Hardware destruction system: cell phones, usb, hard disk (also sdd type), CD, DVD. In a maximum time of 20 seconds it produces enormously small parts for which the data is irrecoverable.

Transportable, sturdy, with standard 220 Volt power supply.

#### Technical specifications

Shredding Materials		
Crushable Materials	Hard Disk / Solid State Drive / CD / Floppy / Mobile Phone /	
Security Level		
Security Level (DN 66399)	0-1, T-1, E-3, H-4	
Blade thickness	18mm	
No. of Cutting Shaft	2	
No.of Blades	6	
Performance		
Throughout hard drive per hour	> 300pcs	
Shredding Time	< 20s	
Hardware		
Insertion width	155 x 110 mm	
Bin Capacity	20L	
Power/ Voltage / Frequency	2.2KW 1 230V or 380V / 50HZ	
Noise Level	<70dB	
Machine Weight	560kg	
Machine Size	1130 (L) x 570 (W) x 1150 (H) mm	
l Warranty	12 magniths	
-	12 months	



video demo

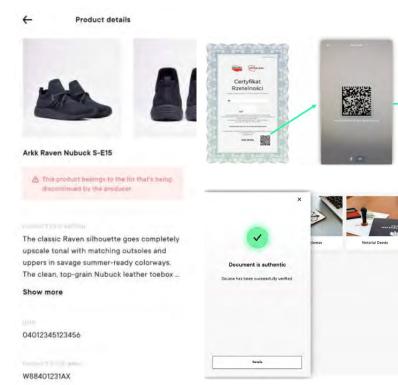
# CERTIFICATION OF THE AUTHENTICITY OF THE PRODUCTS

Autentica21: flagship product used to certify and verify the authenticity of products, as well as to trace them within the supply chain (Track & Trace component). The system is built on the basis of block-chain technology (DLT).

The Autentica21 system certifies, tagging products and / or their components, using cryptographic and steganographic mechanisms to protect QR codes, Data Matrix codes and / or NFC (RFID) tags, thus also allowing verification of their authenticity. This guarantees the responsibility of the manufacturer and allows you to acquire information on the products themselves, even of high quality or high value (branded watches, high fashion clothing, etc.)

Authentication21 Visor: allows you to label and monitor equipment and products (military equipment, etc.) through cryptographic identification, providing the recording and management of monitoring activities and technical inspections.

Autentica21 Doc: tags, protects and verifies the authenticity of all types of documents.



# **SOLUTIONS FOR PENITENTIARIES**

- Mobile phone detector, weapons and contraband products
- Audio detection system and break-in attempts
- Audio Video Recorder for interrogation with Forensic value
- Electronic bracelets
- Penitentiary management system

# DETECTOR OF MOBILE PHONES, WEAPONS AND SMUGGLING MATERIAL

The device detects the presence of cell phones, even if they are turned off, weapons and other illicit material also inside the human body.

#### **FEATURES**

Mobile or fixed

Can also be used in the presence of an armed operator,

The sensor unit can be positioned vertically, horizontally or in any angle for control and in particular conditions (linen, mattresses, etc.)

Can be used inside the detention rooms and outdoors

Control capacity of 40 inmates per minute

Verification capability with alarm not visible to the inmate







#### PORTABLE MOBILE PHONE DETECTORS

Easy to use, the Cellir22 can detect 2G (GSM900 & GSM1800) and 3G (UMTS900 & UMTS 2100), 4G (LTE800 & LTE2600) and 5G (758-788) mobile phones. For situations where greater accuracy and / or specific monitoring is required in areas with multiple phones, a specially designed directional antenna system can be used with the Cellir22

The system, in addition to allowing to detect the signals, also allows you to download the data (list of telephone calls made and received and sms with indication of date and time, via USB port).

One external and one internal antenna

Color display



#### NLJD LOCATOR

Detection of prohibited electronic devices (including voice recorders, mobile telephones, SIM-cards, digital memory devices). Detection of improvised explosive devices (IED electronic control systems) in cabin baggage and on the "operator's" body on the background of complex industrial disturbance from the town development.

Detection of electronic devices for secret information retrieval.

Name	Value
Range of detection:	
SIM card	100 mm
Radiated signal	EIRP less then 500mW frequency 2,45 GHz band
Receiving signals	second and third harmonic of radiated signal sensitivity -140dBm
Power supply	2 rechargeable battery
	LiFePO4 type AA or Li-ion type 14500
Current consumption	Less than 350 mA
Continuous operating time of a set of 2 batteries	Not less than 2 hours
Operating conditions: operating temperature	
range	+5C+40C
operating temperature limits during	-10C+50C
transportation and storage	
Dimensions of the main unit of the product (not more than)	140*140*80 mm
Weight of the main unit (not more than)	400g, including batteries



#### ALARM SYSTEM WITH VIBROACOUSTIC DETECTION

In order to raise the level of effectiveness of the control and prevention actions carried out by law enforcement operators, it is possible to use a high-tech alarm system to help prevent break-in attempts to damage grates. and doors, also useful for listening in rooms specifically used for this purpose.

The reference is to the system called "Structural Vibro-acoustics".

This system is based on the use of sensors with piezoelectric capacity of the thickness and dimensions of a small postage stamp, absolutely undetectable because they are "passive", which make every flat surface or piece of furniture "active", allowing to receive alarms and record conversations.





#### AUDIO VIDEO RECORDER FOR INTERROGATORSO WITH FORENSIC VALUE

Only two buttons control the recording. The device provides three cameras with various simultaneous functions, digital signature and two different simultaneous recordings.





## **ELECTRONIC BRACELET OR ANKLET**

The device is self-produced and customizable In addition to the traditional function of surveillance of house arrest detainees, the device also has the function of anti-stalker (alarms if the stalker approaches the victim).

The system goes into alarm even if the prisoner runs and tries to tamper with it.

#### **FEATURES:**

Area limits setting, Event history function

Accelerometer to signal impact, accident, fall and intention of tampering

Dynamic position report in real time based on time interval or distance traveled

Mileage report and overspeed warning

Call function by the control room

Data security with password protection

Operating time over 40 hours with single battery charge IP 67 waterproof

GSM / GPRS Quad-band 850/900/1800 / 1900MHz

High sensitivity GPS for indoor and outdoor use





Security Lock Band



Tamper Detection Alert

### **ELECTRONIC BRACELET OR ANKLET - SOFTWARE**

Our company has its **own GPS system - with proprietary software**. The system could also be activated for the tracking of bracelets dedicated to judicial use. The bracelet must contain an accelerometer and a safety lock on both connected to the sensor present in the device in order to detect any deviations from the area of competence of the surveillance, or tampering with the device.

In our opinion, the transmission carrier on which to perform the service should not be the GSM network, which is too vulnerable to transmission and in any case less suitable for the subject's back-up tracking: in this case the first position will be detected by the GPS sensor (this is not is sufficient for this type of activity) and a second survey will be offered by the positioning service. In fact, using a GSM telephone operator it is possible to determine the position of the device by calculating its distance from one or more mobile phones. However, this is not enough for this application and it is preferable to use a radio or wireless wi fi network dedicated to the service, so that the positioning service on the network will be obtained by triangulating the position of the devices on the links, with good approximation and with greater stability and security. of the GSM network. The security of data transmission is indeed a "must" in this application, as is the determination of the location. The system has a rechargeable battery with an indication to the user which is central to the charge level of the unit. In the event that the bracelet goes off, the control panel will immediately receive an alarm and can send a precise indication of the personal security location. This is also the case when the target moves away from the authorized residence





#### PENITENTIAL MANAGEMENT SYSTEM

A prison service specialized in consulting, training and integration of technologies for prisons and parallel organizations.

#### Coverage:

- Assessment of risks, needs and threats.
- Penitentiary planning, updating and integration.
- Consulting and writing of SOPs.
- All levels of staff training.







# TRAINING SOLUTIONS

- Virtual simulation
- Real fire training simulator
- Combat training
- •Inert sampling of explosive devices, weapons and training devices
- Simulator for skydivers

# **VIRTUAL REALITY TRAINING SIMULATOR**

#### Real movements in a simulated world

#### Features:

- Customizable environments.
- VR precision technology for precise location tracking.
- The user has a real optical and tactile vision.
- Accurate shooting with weapons of the same weight as real ones.
- High quality HMD headphones.
- Wireless headset technology and virtual reality headset
- Specific customizable software

#### Applications:

- Military
- Special forces
- Police forces





### VIRTUAL REALITY SIMULATOR





## Virtual-SIM training simulator

Most effective virtual IMMERSIVE SIMULATOR for LEADERSHIP, TEAM TACTICAL AND MISSION REHEARSAL TRAINING AVAILABLE TODAY!

It involves the use of sensors applied to the human body and virtual reality viewers

#### REAL FIRE FIGHTING TRAINING SIMULATOR

The system, which can be customized, provides for the combined action of software and a real fire situation up to 2.5 meters in height. In the simulation, all the equipment normally used for aerial-mobile interventions for homes, ships, trains, etc. are used.









Video demo









#### **COMBAT TRAINING**

Systems capable of producing real fog and sounds. The use of real copies of weapons and inert explosives is envisaged, with the possibility of creating operational situations in the presence of fog. The sounds produced are real.











IDZ

## TRAINING SIMULATOR FOR PARACHUTISTS

Hot air balloon for paratroopers training





Video demo

- tunnel

Wind tunnels



Video demo



# <u>MEDICAL</u>

- Exoskeleton
- Monitoring of compromised health situations
- Portable Medical System
- •Medic Van, Air ambulance
- Mobile hospitals
- •Frame (Tunnel) Aanti-Coronavirus Sanitation
- Coronavirus Protection Cream (Spray)
- <u>Telemedicine, remote viewing glasses</u>
- Detection of metal objects for medical clinic
- •Medical device for skin care
- SCR Technology
- •MED-CARE Cloud Health Management
- •RUFT Food
- Ozone-Oil Therapy

#### **EXOSKELETON**

The exoskeleton called ONIX is a robotic system to support human activities (tutor), consisting of a flexible structure that adapts to the torso, hips and legs.

The system was developed to support the walking even of people with deficit, minimizing the weight that weighs on the person in favor of a general greater maneuverability.

It allows you to get up from sitting and vice versa, to walk and drive the vehicle: all in complete autonomy as it leaves your hands free.



# MONITORING COMPROMISED HEALTH SITUATIONS

The system designed involves the use of a wearable mini sensor in continuous contact with an operating room (hospital or other) where an alarm is automatically sent in cases where a compromised health situation occurs.



The reference by way of example goes to the circumstances of people buried in rubble and to clinical parameters of the person concerned that record an alteration that could result in an emergency health situation (example: heart attack prevention)

When the alert is sent to the connected operations room, the system also automatically offers the exact location of the patient.



#### PORTABLE MEDICAL SYSTEM

It is a complete solution for emergency services that provides paramedics with the tools they need to bring the doctor closer to the scene.

The system consists of a case equipped with a high resolution video camera, wireless stethoscope, screen and multichannel device that provide real-time transmission of video and data to the hospital or medical team for immediate real-time remote medical assistance.

The transfer of patient data takes place via multiple cellular communication with 4-level security.



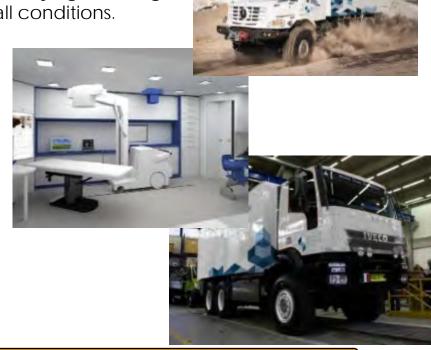
#### TERRESTRIAL AND AIRCRAFT MOBILE HOSPITALS

## Medic-van

The medical van is a mobile first aid device capable of carrying out long-term missions and providing high-level health services, in all conditions.

#### Features:

- Customizable
- Connection with any healthcare facility located anywhere in the world;
- Display, integrate and transmit video, audio, HD images and any other digital information necessary for diagnosis;
- Perform instant urine and blood tests.
- (including blood cell counts and cardiac enzymes);
- Real-time ECG tracking, printing or transmission;
- Perform ultrasound and X-rays;
- Access hospital databases referring to the treated patient.



### **MOBILE HOSPITALS**

It consists of a mobile hospital trailer made with newly designed composite wall panels in compliance with the EU fire testing requirements, which allows for the availability of 24 beds in 8 large expandable trailers fully equipped for healthcare and telemedicine.





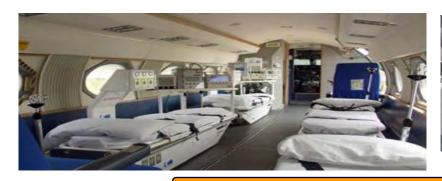


### THE AIR AMBULANCE

Solution for the urgent transfer of patients, by means of aircraft equipped for health care and telemedicine.









## FRAME (TUNNEL) ANTI-CORONAVIRUS SANITATION

DIMENSIONS: 2180 mm / 1500 mm / 458 mm.

Assembly instructions included.

External material (alcobond).

Main source 220v (secured). 12v secondary circuits.

Metal internal structure combined with PVC.

Easy assembly with 4 bolts (included).

Automatic start with photocell.

LED lights at startup.

Two built-in tanks of 10 liters each, placed at the base of the structure, one on the right and one on the left with locking caps.

Nebulizers - 6 pieces (posted in such a way not to create any discomfort when pulverizing the sanitizer).

PRIVATE LABEL - laser written on the horizontal part above.

OPTIONAL: On request you can ask to add the logo including the lights also on the sides, at additional costs.

Total weight; aprox. 60 kg.

COLORS: white, silver, anthracite gray, red and black (combined between inside and outside).



Video demo 1

## CORONAVIRUS PROTECTION CREAM (SPRAY)

A SAFE AND NATURAL INGREDIENT THAT CAN PROTECT AGAINST THE CORONAVIRUS WHILE REJUVENATING YOUR SKIN.

The active ingredient in GF2 is called Hypochlorous acid (HOCl) and is a naturally produced molecule also known as our immune molecule. In fact, this is the basis for our body's immune system, and it is formed in the white blood cells. It has many health benefits and contributes to the rejuvenation of the skin but also has very powerful disinfection properties. HOCl has been shown to be 80 – 100 times more effective against viruses than bleach chlorine1 and it is completely natural and safe.



The active ingredient is completely natural and safe. It can be used:

- in the mouth
- on the skin
- in the eyes
- by pregnant and breastfeeding mothers
- on babies and children.





















#### SMART GLASSES FOR AUGMENTED REALITY

This type of glasses has been specially designed for health professionals in order to make their work more effective and safe even in infectious disease wards through an augmented reality vision and the possibility of connection for telemedicine It is used in healthcare facilities in general, including airports, ports and railways.



Video demo 1





## DETECTION OF METALLIC OBJECTS FOR THE MEDICAL CLINIC

The system in a fixed position allows the detection of the presence of metallic material that could be worn by a patient who must undergo an MRI scan.

Easy to install and use, its indispensability is evident to avoid serious accidents during the clinical examination.

Comply with international quality standards ISO 9001.





## MEDICAL DEVICE FOR SKIN CARE

The product consists of a gel to be applied on the portion of injured skin, which forms a second biological protective skin, accelerating the regeneration process (burns, bruises, stretching, flaking ... etc.).

It is totally organic, adheres well to the skin, no bandage is required, it is elastic, breathable and waterproof.

It prevents skin maceration and it is possible to wear clothing

on the treated body parts,

#### Treatment of wounds and burns

A disruptive force in the treatment of infected wounds, the control of inflammation and the stimulation of wound healing.

Video demo





#### **SCR TECHNOLOGY**

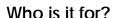
#### FOR TREATMENT OF DRUG-RESISTANT CHRONIC NEUROPATHIC & CANCER PAIN

A proven, unique, non-invasive method for rapid treatment of chronic intractable

#### **Indications for Use:**

Chemotherapy-Induced Peripheral Neuropathy (CIPN) Intractable Cancer Pain Failed Back Surgery Syndrome Sciatic and - Lumbar Pain Post-Herpetic Neuralgia (PHN) Post-Surgical Pain Brachial Plexus Pain Low Back Pain (LBP) Chronic Neuropathic Pain





SCR Therapy is a new electroanalgesia methodology specifically studied for neuropathic and oncologic pain, and in general for pain nonresponsive to other types of drugs and forms of electroanalgesia.



# MED-CARE HEALTHCARE AT YOUR FINGERTIPS

#### Solution: MED-CARE + MED-Live-Med

- Understand your health status
- Tracking health with trend and record
- Al cloud algorithms for prescreening the abnormal
- Medication reminder and one click SOS helping
- Portable and convenient for 8 in 1 measurement
- Suggestions to improve the health



**Anytime Measuring** 



Health Reminder



# PRODUCT: MED-CARE DEVICE/App/CLOUD SERVICE



- Six design highlights 8 in 1 Measurement
- Instant Report w/ Suggestions
- Health Journal in Cloud
- Waveform Recording
- Medication Reminder
- One Click for SOS + Positioning

MED-CARE 8 in 1 Monitoring Device



## **CLOUD HEALTH MANAGEMENT**

- Cloud Health APP is a personal healthcare management. It is able to connect to several devices for a full range of healthcare
- Measurement results are transmitted to the mobile device via Bluetooth, and then to cloud database via wireless network
- Any abnormal data occurs, the system will sent email to the users and their families.



## **Healthcare Management**

heart spectrum analyze, blood pressure, blood sugar, body temperature, uric acid, cholesterol, hemoglobin, blood flow velocity, pulse, blood oxygen and non-invasive blood glucose monitoring

## **RUFT FOOD**

RUFT presents itself as a dietary food, a ready-to-use product.

75 Calories, without sugars, also valid for diabetics.

The portions will be based on age and weight groups (children or military) and will be customizable with various flavors ranging from fruit to creams.

#### **INGREDIENTS:**

peanut paste, vegetable oil, milk powder, icing sugar, vitamins, minerals.

- high protein, highly performing.
- cold product to avoid regurgitation or digestive difficulties,
- reduced % of allergens
- customizable according to the environment and needs of the applicant (a cold country cannot request a product intended for a hot country in which sweating and electrolytes are values to be considered a priori in the formulation.)
- dozens of customizable flavors with real natural substances and not synthetic flavors and artificial colours
- with natural and highly nutritious oils and butters
- with MCT
- without palm oil, without hydrogenated fats
- without low quality vegetable proteins
- without hydrolyzed animal waste usually used for low-cost food recycling
- GMO-free
- without ingredients derived from BSE risk sources
- without ingredients derived from H5N1 risk sources
- gluten-free
- without pesticides, without antibiotics, without AMPA derivatives
- additives with performance ingredients used according to physiology and related DGA.

## **OZONE-OIL THERAPY**

An oil rich in active ingredients such as: ozonated sunflower oil, bisabolol, perilla, baobab, borage, vitamin E, neem oil, tea tree oil and rosmarinus officinalis flowers oil, adjuvant in the treatment of all skin types with emollient, soothing, purifying and regenerating action.

#### Gauze - Soaked in ozonated oils 15 x 15 cm, 15 sachets

Gauze soaked in a lipophilic vegetal mixture based on: ozonated sunflower oil and tea tree oil, adjuvants in the treatment of all skin types with emollient, soothing, purifying and regenerating action.

#### Composition

Ozonized sunflower seed oil, Melaleuca alternifolia oil, limonene, linalool.

Not sterile but self-preserved as they are ozonated.





All systems can be integrated with each other and can be customized according to customer needs.

As you can see, most of the systems allow for the detection of data, with the possibility of remote integration and transmission for correct mission planning and risk assessment.

The company specializes in video systems and transmission.

# Thank You!