

TEMPESTINI SYSTEMS



SPARK
system
CONSULTING & HIGH TECH SOLUTIONS

- Defense & Safety ⚡
- Intelligence ⚡
- Military & Medical gear ⚡
- Training ⚡
- Broadcast ⚡
- Information Communication Technology ⚡

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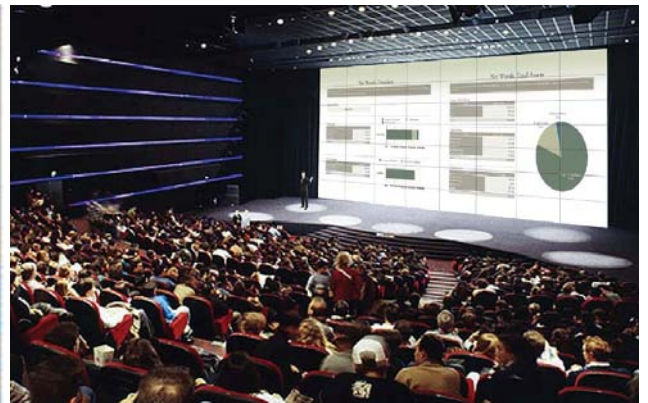
InfoLine
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SECURITY



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CONTROL ROOMS



We construct turnkey control rooms

This includes the fitting and architectural planning of operation rooms, EDP rooms and visual systems made up of video walls with various types of backlit and plasma technology. This system allows for the radar location of both stationary and mobile people and vehicles in any area. It is also possible to send and monitor the status of these and intervene when necessary using 3D cartography.

The various elements which can be monitored regarding the status of people are: the position of the person/people; supine or upright position of the person/people; fever; heartbeat; receiving alarms in emergency situations.

Regarding motor vehicles, it is possible to: block the vehicle by stopping the flow of petrol; check the level of petrol and receive various criteria for the remote maintenance of the vehicle; insert a black box which registers the actions of the driver; lock the gun cabinet and doors and set off the alarms; and any other element which needs to be activated or monitored based on the client's needs.

Regarding the monitoring of zones or areas, it is possible to interface the system and images which allows the cameras to automatically monitor "unusual behavior".

In this way, it is possible to record the history and localization of events.



Furthermore, monitoring of the area is also carried out using dogs wearing a special belt which allows an alarm to be received at the control center varying depending on the type of sound emitted from the belt.

The control center creates a database of “localized” elements and/or people and visualized areas and archives any alert signals for future reference.

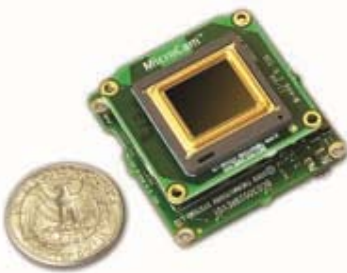
The system can be implemented using “mobile films” where the person on site can record films in an area which cannot be reached by the vehicle and, in this way, send the images directly to the operations center which decides how to best intervene. This is of vital use to fire fighters, ambulances, the Police Force and civil protection services.



Tempestini Systems provides an automotive device compatible in size with the placing of a “double DIN” so the software can be installed in hardware inserted into the dashboard of the vehicle.

SENSORS: RECORDING SYSTEMS

All sizes and ranges. Cameras from 6mm to civil and military long distance systems (up to 25km), distance control, ether and satellite transmission, integration and personalization of thermographic cameras, night and day and nocturnal vision.



HYPERSPECTRAL RECORDING SYSTEMS

Hyperspectral Research Non Invasive Subsurface Dermal Eye Visualization

Hyperspectral R SERIES

The 100R Product Line is the newest in a series of sensors that uses a convex grating reflective spectrograph design.

The 100R Series now gives our customers a choice between transmissive and reflective systems.

The 100R Series also incorporates a patented line-scanning technique (U.S. Patent No. 6,166,373) that requires no relative movement between the target and the sensor.

VNIR-HW

UV (200 - 400 nm) / VNIR (400 - 1000 nm) / SWIR (900 - 1700 nm & 1000 - 2500 nm)

Developing hyperspectral imaging applications in following areas:

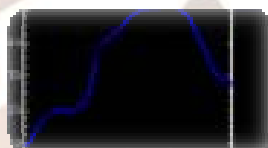
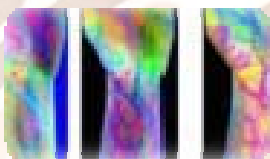
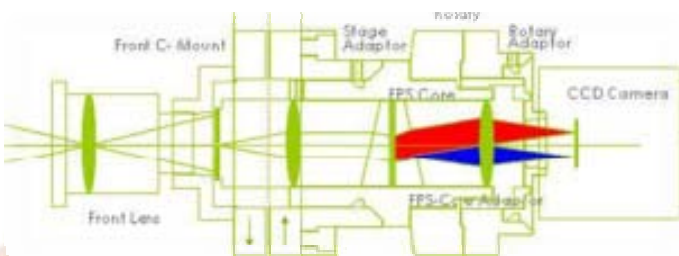
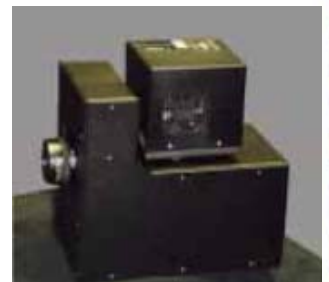
- Precision farming
- Medical research, ophthalmology, dermatology
- Resource management
- Food safety & quality
- Forensic, criminal, art and material engineering
- Gemology
- Military

Hyperspectral T SERIES

The 100T Product line is our first hyperspectral product in a series of sensors that span the spectrum from ultraviolet to infrared. The 100T measures the intensity of reflected energy from any given target at hundreds of narrow wavelengths and stores that information in a digital image format, called a hyperspectral image. Each image contains a complete reflectance spectrum from a given range (UV/VNIR/SWIR) of nanometers for every picture element in the image.

The 100T Series incorporates a patented line-scanning technique (U.S. Patent No. 6,166,373) that requires no relative movement between the target and the sensor. This unique capability eliminates the need to use liquid crystal tunable filters that suffer from relatively low throughput. The 100E Series uses a prism-grating-prism to separate incoming light into component wavelengths, a method that attenuates less energy, and is therefore especially useful when high signal-to-noise ratios are important.

UV (200 - 400 nm) / VNIR (400 - 1000 nm) / SWIR (900 - 1700 nm & 1000 - 2500 nm)



Forensic Applications

FORENSICS AND HOMELAND SECURITY

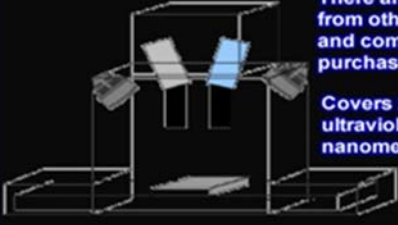
Hyperspectral Document Scanning Workstation

Document and other Forensic Evidence Scanning Product

First system will be delivered to the FBI

There are several inquiries from other forensic government and commercial entities to purchase this product.

Covers 200 to 400 nanometers, ultraviolet, and 400 to 1000 nanometers, visible/near infrared.

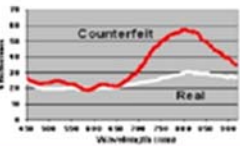




Portable Turnkey Hyperspectral Imaging Systems

Proven Application:

Work with the FBI has proven that hyperspectral imaging can be used for non-destructive measurement and analysis of various inks/documents.

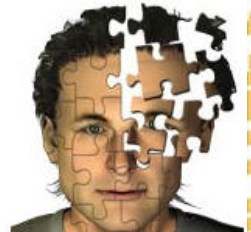

Market:

Scanning instrument to detect counterfeit currency, to help build and/or derive systems for environments such as:

- Ports of entry
- Forensic labs
- government and private R&D labs
- Airports

Facial Recognition

Facial recognition is an ideal application for hyperspectral imaging. The local spectral properties of human tissue are nearly invariant to face orientation and hyperspectral cameras provide useful discriminates for human face recognition that cannot be obtained by other imaging methods. Expression enables hyperspectral discriminates to be used for recognition over a large range of poses and expressions. Spectral measurements over the near-infrared allow the sensing of subsurface tissue structure which is significantly different from person to person, but relatively stable over time.



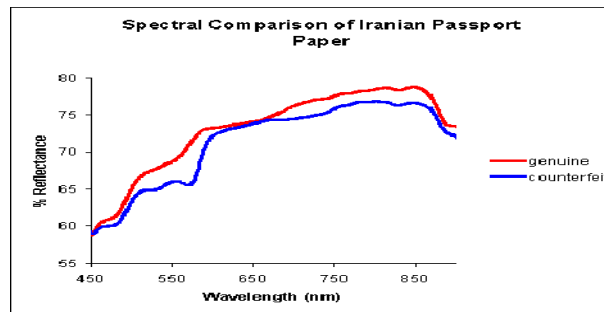
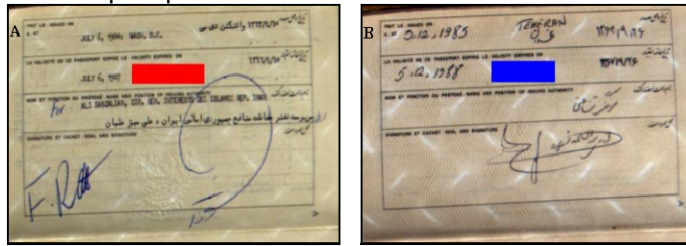
Forged Documents

The advantage of forged document analysis using hyperspectral imaging lies in the information embedded within the image. Because the images are a series of snapshots collected as a function of wavelength, each pixel within the image has a fully resolved spectrum associated with it. This method of data collection allows for better visualization and discrimination of a wider range of documents. Because the type of information contained in hyperspectral images is easier to interpret for non-scientists, the presentation of data and information to jurors in the courtroom is easy and straightforward. The analysis is non-destructive and requires little or no sample preparation, therefore decreasing the chances of possible contamination.



Identification of Counterfeit Documents

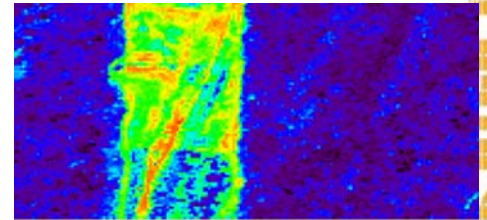
Three pairs of passports were examined to determine whether sufficient information could be gathered to differentiate between genuine and counterfeit passports. The first two pairs of passports contained one genuine and one counterfeit passport.



Remote Sensing and Vegetation Stress

Hyperspectral remote sensing of vegetation stress offers the potential for indirect sensing of activities, and provides insight into the feasibility of

- detecting stress remotely
- detecting early, non-visible, signs of stress
- relating the type of stress to a class of stress agent



Currency Fraud



A Computer Processed Reflectance Image of a bill at 360 nm Spectral curves were taken from the computer processed reflectance image using ENVI z-axis profiler tool with color-coded ROIs.

Serial number (lettering left):	Cyan
Seal border (left):	Green
Jackson image (center of note):	Red
Print sample (lettering right):	Yellow
Background:	Blue

Crime Scene Investigations

Hyperspectral Imaging will prove to be an invaluable asset to crime scene investigators. The areas that will ultimately benefit from detailed hyperspectral analysis are:

- Providing investigative leads for a case
- Linking a crime scene or a victim to a suspect
- Corroborating or refuting a suspect's statement or alibi
- Identifying a suspect
- Inducing a confession of a suspect
- Exonerating the innocent



PERIMETER SECURITY SYSTEMS

URBAN AREA SECURITY

The system is an integrated operative system which allows for the monitoring of all vehicles and main roads of a city through software which analyses the images taken by cameras, even existing ones. In this way, alarms signaling "abnormal behavior" are immediately received (e.g. the same number plate on two different motor vehicles on the same night will generate an alarm and the event can then be monitored). Furthermore, our system is unique in that it allows the operations room to directly receive video signals from mobile vehicles on site (e.g. from cameras placed on motor cycles).



Our knowhow in real-time image processing, along with the planning and realization of databases and the construction of telematic networks, has allowed for the construction of a solid hardware operating system and software which is perfectly equipped to recognize number plates in specific contexts and analyze pictures taken by cameras.

Images from a battery operated **UAV (Unnamed Aircraft Veichle)** weighing 2kg and flying above 150 meters (silent and unnoticeable) can monitor traffic and demonstrations but also the state of viaducts and the vehicle can economically reach areas which are difficult to access. The live images from the various sensors can be viewed in the operations room.



TMPSYS-Ossus - Facial Image Search Engine



This recognizes images from a wide range of visual sources including those from cameras, CCTV, E-Fit and mobile phone or portable devices.

The operator captures an image of a suspect as they move past a camera. The image is then simply uploaded to TMPSYS-Ossus and an identity search is run at unprecedented speed and accuracy on a multi-million scale.

BUILDINGS & SENSITIVE AREAS SECURITY

This system is an integrated operating system which allows for the continuous and automatic monitoring of all driveways and pedestrian walkways both internally and externally. Suspicious powders or liquids can be immediately and economically identified, as can their risk of explosion. NBC (nuclear, biological and chemical) analysis, for the identification of suspicious substances, and thermographic cameras allow for a survey of the external perimeters even in thick fog, and sniffer dogs can verify the presence of explosives. It is possible to monitor every entry based on an extremely efficient but non-invasive facial recognition system which provides images of unauthorized people who have attempted to gain access. We provide the analysis and management of persons and vehicles belonging to external firms for temporary access. Because the software is produced by us, it can be personalized based on the client's needs. A certified bullet-proof and break-proof film can be applied to glass – this does not replace armored glass which provides further ballistic protection, but it is an excellent resource in poorly protected areas and to avoid shards.

SYS-PLATE Systems

What can SYS-PLATE do?

- Log vehicles with multiple images, retrieve the relevant plate number and alert staff to vehicles of interest.
- Store all information relevant to traffic movement, including time, date and location number in a dedicated database for advanced statistical analysis.
- Streaming infrastructure to communicate in TCP/IP environment to remote sites over LAN, WAN, wireless.
- Possibility to be used with a handheld mobile device and send SMS and text messages to mobile phones.
- High speed vehicle plate recognition (200KpH) and 24HR/365 day operation.



Under Vehicle Surveillance System

The system can be set-up within a few seconds and utilises state-of-the-art cameras and LED illuminators for excellent picture quality.

An in-built video motion detector automatically starts the recording process when a vehicle comes into

view. The images from the digital recorders are displayed on 2 inbuilt 6.4" high resolution monitors. A hand held control unit is also provided to allow simultaneous operation of key functions on the digital recorders





Digital Mail/Parcel X-ray - Compact, Low-dose Color Scanner Rejects Bombs, Weapons and Threats

High capacity, high penetration, heavy-duty, conveyORIZED X-ray scanner designed to inspect carry-on bags, briefcases, mail trays and parcels.

Ideal for use at:

Airports • Seaports • Courts
Customs • Corporate Facilities
Government Buildings • Postal
Checkpoints • Loading Docks
Mailrooms • Correction Facilities
Nuclear Plants • Access Control
Special Events • Hospitals
Rail or Bus Stations
Police Stations • Military Bases

Explosives detector - CRO-P.E.T. & CRO-N.E.T.

Tempestini Systems provides invaluable tools in today's war on terrorism, offering unique solutions to meet ever-evolving security challenges. The company applies exclusive technology and unmatched expertise and innovation in the field of explosives to devise user-friendly products for fast and accurate detection of virtually any type of explosive. IEDs (Improvised Explosive Devices) represent the top threat to civilian security worldwide. The ever-increasing availability of IEDs to terrorist organizations allow them to bring down airplanes, blast buses and trains, destroy restaurants and shopping centers and inflict massive injury and death. An effective way to prevent such severe consequences is the early detection of explosives



BULLET RESISTANT, IMPLOSION RESISTANT AND SPLINTER RESISTANT COATING FOR GLASS

CHARACTERISTICS:

The main component of the coating is a thermoplastic polyester fibre made of polyethylene terephthalate (PET). This part-crystalline fibre is extremely strong and resistant to moulds and many chemical agents. The coating is produced using a specific lamination process improving its resistance by a considerable amount. Using layers of PET and acrylic based adhesive responsive to pressure, it is possible to achieve extremely resistant films, which are also completely transparent. Furthermore, the film has a 98%-99% UV filter property.

The film comes with a lifelong guarantee against discolouration, peeling, cracking and delaminating.



Tempestini s.r.l.

Via Corigliano Calabro 59 00178 Rome - Italy P.Iva 11339361005

Tel. +39 06 90209924 / 246 Fax +39 06 89281442 info@tempestinisystems.com

YOUR GLOBAL PARTNER

PORT AND COASTAL SECURITY

Our integrated solution regarding security in ports includes the monitoring of:

- containers,
- people
- vehicles
- and under water surveillance.

All operations and everything which transits inside the portal area is subject to 24h "intelligent" surveillance.

Underwater surveillance is also provided. This can be monitored locally or remotely i.e. from authorized structures which control and indicate alarms and dangerous or abnormal behavior in real time.

In more concise terms, we have realized and integrated the best today's technology has to offer.



This system allows for the automatic surveillance of all vehicles that enter the area, without the need for human verification: all number plates, driver details, vehicle bodies and vehicle images are recorded and, using a scanner, it is also possible to survey the amount transported inside the vehicle in order to identify explosive substances, arms, stowaways or suspicious objects. All this can be done without leaving the cabin and therefore without hindering or protracting the time of loading and unloading and without danger of radiation.

All movements within the port can be monitored so that the system will alert in case of entry into a limited access zone. A data file can be kept to analyze these movements, verifying in this way that only authorized personnel have been permitted entry and recording the data of these persons, the time spent in the area and the list and verification of loading and unloading from the ship. Because the software is produced by us, it can be customized, personalized and simplified based on the client's needs.



All containers will also be monitored and verified during movement with the possibility of cataloguing their identification details. In this case, the data file can also be verified and analyzed before and after while monitoring the presence of the container within the port. This file can be transmitted and surveyed remotely.



In this way, it is possible to automatically verify that only authorized containers have access and to record the details of these, the time spent in the area and verify the loading and unloading from the ship. Because the software is produced by us, it can be customized and simplified as necessary. It is also possible to verify the contents of the container without opening it and where necessary identify human blood, drugs or explosives. The system allows for investigations based on the identification of the container, statistics and other personalized

analyses. Again, the software is produced by us and can therefore be personalized and simplified based on the client's needs.

Regarding the monitoring of pedestrian transit, it is possible to have a list of all persons within the area, a copy of their document including an up-to-date photograph, so as to have a comparison and catalogue of data which is also useful for customs controls. All of this is included in a file featuring a search engine and facial recognition systems which can be transmitted and overseen from other locations. It is also possible to verify all pedestrian luggage and monitor whether persons passing through the check gates are wearing small metallic parts, weapons or detonators.



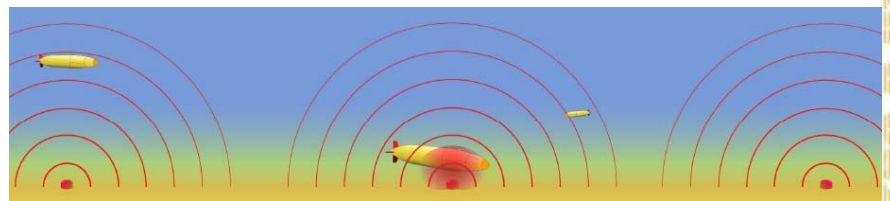
Windows in public areas can be protected by a break-proof transparent film which is resistant to 9mm bullets. All high security areas and EDP rooms can be monitored and restricted only to authorized personnel utilizing an automatic facial recognition system which memorizes the data of all persons authorized to enter high security areas.

Under water activity can also be checked, monitored and alerted through surveillance cameras and wireless video signal transmission systems. This verification is completely innovative and is not yet used by any other ports. It therefore allows the Salerno Port Authorities to become a central point in carrying out in-depth investigations, as well as being an effective deterrent. Naturally, we must not overlook the consequent positive publicity which brings

other direct benefits.

All surveillance cameras are "intelligent" as it is possible to carry out an analysis of the images and obtain information regarding abnormal behavior, people or vehicles in motion, packages left unattended or breaches of access.

The data analysis is completed by a UMS (unmanned marine surveillance), an aquatic robotic system with sensors to monitor coastal areas.



All data is monitored, archived and overseen, where necessary, by personnel in remote locations in order to obtain a more accurate service and to keep costs low. This service gives the alert signal when elements defined by the client as "abnormal" are identified.



SHIP AND OIL RIG SECURITY

OFFSHORE SURVEILLANCE

This special system for offshore surveillance comprises a high quality pan-tilt-zoom camera on the platform which transmits live video to the onshore control centre and the boat. It is possible to control the camera via boat or terrestrial control centre.

- digital COFDM transmission
- video, audio and telemetry
- fixed and mobile solutions
- transmission power up to 10W (HF)
- stable and robust transmission signal
- working in line or non-line of sight
- customized versions are available
- various systems for maximum quality, coverage and range of transmission.



Regarding security and monitoring at sea, special cameras are used which have been produced specifically for installation on ships or other marine vehicles. These cameras guarantee the monitoring of areas even in conditions of poor or zero visibility. The image shows an example of audio and video data communication between different crafts and the onshore control centre. The information is gathered by cameras positioned on the helicopter, on one of the two crafts and on a reconnaissance craft.

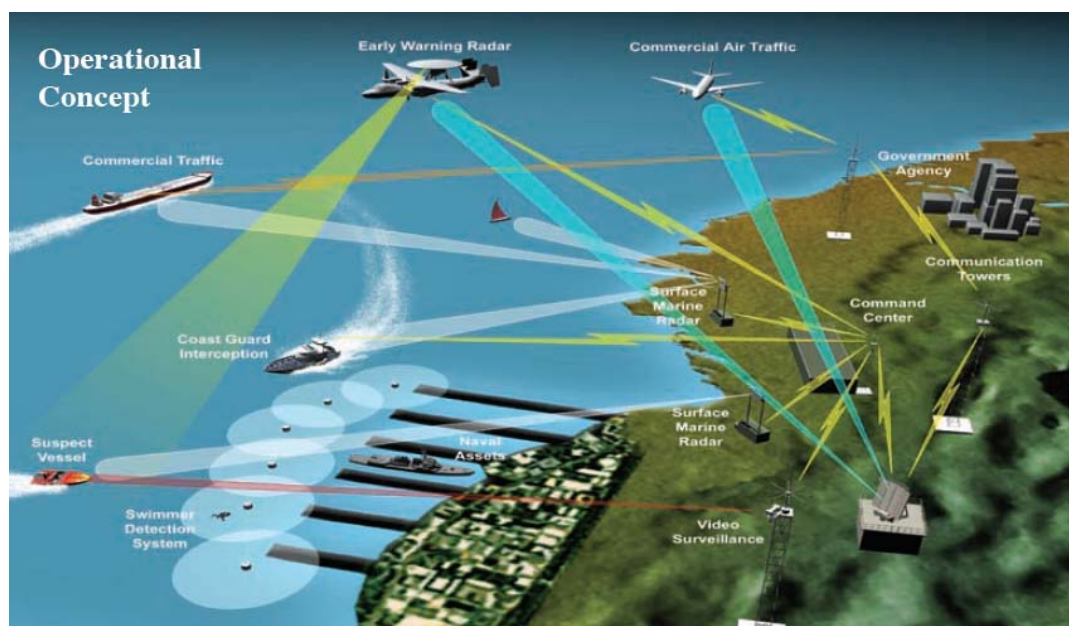
All signals are then transmitted to the base ship from which, via an antenna tower, they are re-transmitted live by satellite to the control room at the onshore control center.

The ships can also be equipped with UAV, helicopters which monitor suspicious crafts at sea (anti-piracy) both day and night and which can land on the ships even during rough sea conditions (up to force 7).

Our certified amplification systems allow communication even in the presence of hurricanes.

Our auto-tracking satellite antenna for vehicles, ships and submarines in various shapes and sizes allows for the 2-dimensional transmission of audio and video data with centralized command centers as well as the transmission of live video and audio images (satellite delay). For example, a submarine can transmit images from various cameras to an onshore command center.

The majority of satellite antennae currently on the market are simply adapted versions of fixed satellite dishes which are installed onto the vehicle's platform. This bulky design and obsolete technology is not particularly suitable for in-motion satellite communication. We have completely re-designed the satellite antenna and developed technology for movement based communication. The result is an automatic and autonomous satellite antenna which functions even if installed on a moving vehicle.



AVIONIC SYSTEMS

We install and integrate vehicles with fixed filming systems and software including hyperspectral sensors which allow the filmed area to be analyzed using aerial films.



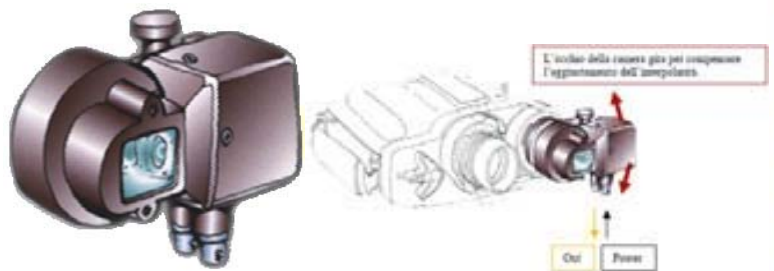
Filming systems and recording of signals from night and day binoculars

This adaptor is attached onto the binoculars and allows other users of the vehicle to visualize and record images.

Add-On Eye system for binoculars

This color, high resolution, video Add-On Eye Cam fits easily on the new lens placed on the binoculars. The Add-On Eye Cam is attached and adjusted securely with a simple thumbscrew.

The Add-On Eye Cam is fixed focus (calibrated to be IN-FOCUS with Lens Diopter Set at ZERO).



Digital audio/video recorder with 8,2" monitor



Camera Ball Operation:

The optional removable camera ball operates in three modes:

1. Simple pan/tilt
2. Earth relative (i.e., 10° below horizon)
3. Coordinate mode (i.e. X/Y coordinate)

The ball is made of fiberglass over composite.

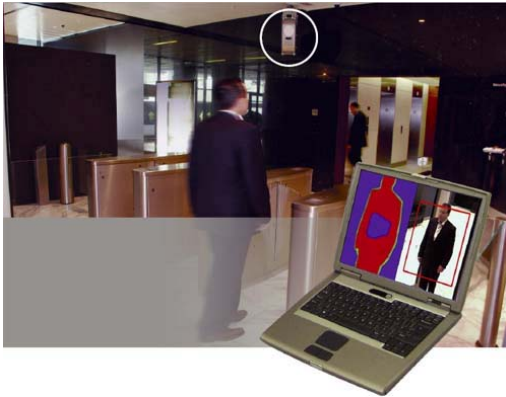
The ball is an 83cm sphere with interior dimensions of 77.5cm diameter.



AIRPORT SECURITY

Aside from important physical security systems for areas of this kind and the realization of turnkey control rooms (complete with all visualization systems, adequate furnishings, architectural structure and personalized operational consoles), we also offer specific and extremely innovative systems.

TMP-T4000 passive stand-off screening system



Screen for a wide range of concealed objects: metals, plastics, gels, explosives, composites, narcotics, currency, liquids.

Screen from a safe stand-off distance

Gain precious time to react as soon as possible.

Screen without introducing security 'bottlenecks'

Screen people at various distances as they move. There is no need for static person screening at a single point.

Safe and non-invasive

Totally passive screening technology. No privacy violation, anatomical details are not revealed.



TMP-PASS - Authentication Solution.

TMP-Pass is a face authentication system which recognizes passengers holding e-passports. TMP-Pass ensures that only the legal bearer of the e-Passport is accepted at border control's automatic gates using advanced biometric face recognition methods. TMP-Pass provides a technological breakthrough for border control posts, check in counters, security gates and boarding gates, as well as duty free shops and entrance to VIP lounges by allowing an automatic mass use of the common e-Passport (MRTD - Machine Readable Travel Document) for passenger authentication without human intervention.



SECURED AREA PASSAGE AND ACCESS CONTROL.

SGK - Security Gate Keeper

- Airport check-in, boarding gates
- Customs checkpoints, border controls
- Prison contraband detection
- Government building access and exits
- Public transportation facilities

Layered Voice Analysis (LVA) technology provides the means to examine not only what subjects are carrying, but also to highlight and determine their actual intentions in advance.

Recent terror attacks have proven that the rules of the game have changed, and that the willingness of terrorists to lose their own lives has made deterrence and prevention significantly more complicated. The search for concealed weapons, explosives and sharp objects is no longer sufficient. We are now compelled to examine not only what subjects are carrying, but to discover their motivations in advance.

The Layered Voice Analysis (LVA) technology now allows us to do just that. By having subjects answer three to five yes-no questions, it is now possible to reveal their true intentions.

SGK

SGK is a security access control system, which provides an easy-to-use voice analysis solution to determine whether or not the purpose of an individual's access to a secured area is legitimate.

SGK provides instant security verification and threat assessment before allowing access to high-risk facilities and secured and sterile zones.

Designed for rapid intention verification using input from only 3 to 5 questions, SGK will identify the overall emotional state of the subject during interrogation, allowing its operators to single out potential harmful intentions.

SGK is a state-of-the-art, reliable security measure which significantly reduces embarrassing and unnecessary inconvenience to the largely legitimate public. In border control scenarios, one encounters diverse emotional structures that are not associated with criminal intent, e.g. exhausted travelers, excited vacationers, etc. The uniqueness of the SGK system is its ability to cluster and categorize these different emotional structures by learning to identify those that signal true intention to commit crimes or acts of terror.

Different locations require different means and methods of security checks, and SGK is primed to meet a variety of challenges. The diversity and flexibility ranges from a single language manually operated system to multilingual automated posts. The system can operate from a noisy and public high traffic area to a closed intimate checkpoint. SGK is specifically designed to meet your needs for any level of security.

SGK Operation

A series of 3 to 5 specific questions are presented to the subject. The response to each question is recorded and analyzed automatically by the system. Once the questionnaire has been completed (up to 60 seconds for a full 5 question questionnaire), SGK will produce a result: either "Green" or "Red", indicating to what degree the subject fits the expected emotional profile for non-criminal intent.

SGK is intended for use in: airport check-in areas; airplane boarding gates; customs checkpoints; border controls; security stations; drug smuggling and interdiction; prison contraband detection and any entrance / exit environment that requires heightened security.

Layered Voice Analysis (LVA) Technology

Layered Voice Analysis technology enables a quick and effective decision making process based on available audio data. LVA has the ability to identify various types of stress, cognitive processes and emotional reactions which combine to build the complete "emotional structure" of an individual at the time of voice capture.

LVA uses a series of patented signal processing algorithms to detect different emotional levels within a given voice sample, and subsequently identify deceptive motivation, criminal intention, and general credibility. These tools will simplify any investigative procedure.

LioNet Technology

LioNet is a powerful learning tool designed to increase the accuracy in the identification of specific emotional signatures. This technology begins with an empty knowledge base and is trained to recognize various emotional signatures that are of interest to a particular site. Recognition accuracy and reliability increase as the knowledge base becomes more robust. LioNet technology is designed to work in tandem with these kinds of security-related products.

Providing all Safeguards

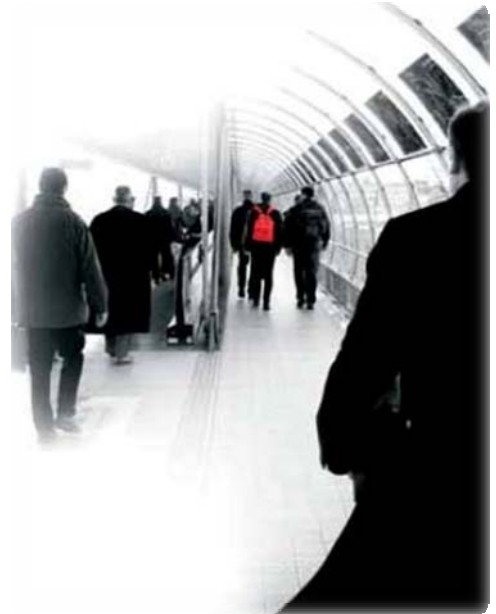
As a psychological evaluator, SGK can go far beyond any physical security equipment that is currently available. Combining SGK with traditional metal detectors and "sniffers" further tightens security.

SGK is constructed to ensure the highest reliability in the detection of threats. Three independent algorithms are used to ensure that each result is verified:

- A polygraph-like analysis, comparing emotional reactions to known questions
- An emotional profile-match test using a sophisticated learning system
- "Extreme Behavior" indicator – to flag any unknown or rare emotional profile that may indicate criminal intent with catastrophic consequences

While "Green-Lighted" individuals are processed swiftly, "Red-Lighted" subjects receive further attention and are forwarded to a secondary LVA / SGK station for further examination.

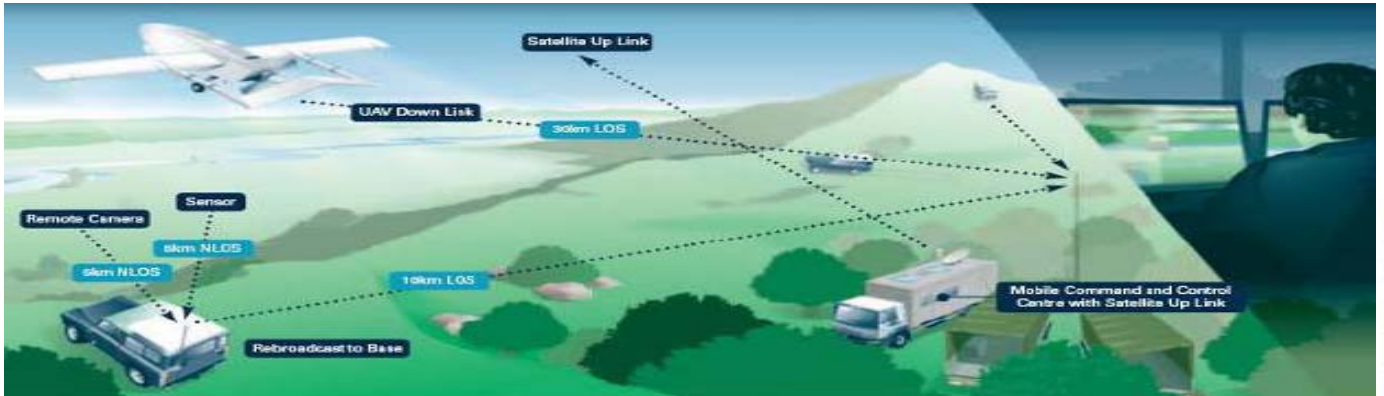
At that stage, subjects are either fully cleared or detained for a more in-depth inspection.



Advantages

- No gender, orientation, ethnicity, or age discrimination
- Determines criminal / wrongful intent in a non-intrusive manner, in less than 60 seconds
- Functions in tandem with additional security measures to deliver an efficient, non-intrusive and easy-to-use investigation technique for threat identification
- Reduces unnecessary inconvenience to the legitimate public
- Learns emotional patterns using a heuristic system to constantly improve measurement accuracy

CUSTOMS AND BORDER SECURITY



The monitoring of large unpopulated areas (eg war torn countries or borders) is particularly complex. A signal is received at the control room from an IP network (Wi-Fi, Wi max, satellite etc). The example shows how the video-audio information is gathered by a remote-controlled aircraft (UAV) and by a mobile reconnaissance vehicle and then transmitted to a mobile base camp.



From the base camp, the information is then re-transmitted via satellite to the control room of the command center which can be situated many kilometers from the monitored area.

The use of UAV systems is particularly indicated for this purpose as it avoids risk to human lives and is easy to transport and utilise. The mini helicopter can be flown either completely autonomously (after having

been programmed accordingly) or with partial remote control.

Sys-Docu: an informative solution for the identification of false and authentic documents

This system provides support in the verification of ID authenticity (passports, ID cards, licenses, Visas and residency permits) and suspicious currency.

Currently in use in the principal airport and port areas of central and southern Italy, this system is suitable for all organizations (governmental and non-governmental) which need to verify the validity of a document.

With this system it is possible to consult and add images and descriptions of security characteristics of various national and international documents to the database as well as adding pre-existing specimens.



SYSTEMS FOR THE ARMED FORCES AND SPECIAL TASK FORCES

SYSTEMS FOR THE IDENTIFICATION OF EOD DEVICES (BOMB DISPOSAL EXPERTS)

- Robots;
- Identification of explosives using luminol technology used also for the identification of TATP, anti-bomb frequency inhibitors



Advanced technology for the identification of explosives.

Tempestini Systems offers solid and reliable tools in today's war on terrorism, offering unique solutions to meet ever-evolving security challenges. The company applies exclusive technology and unmatched expertise and innovation in the field, from explosives to user-friendly devices, for fast and accurate detection of virtually any type of explosive.

IEDs (Improvised Explosive Devices) represent the top threat to civilian security worldwide. The ever-increasing availability of IEDs to terrorist organizations allow them to bring down airplanes, blast buses and trains, destroy restaurants and shopping centers and inflict massive injury and death. An effective way to prevent such severe consequences is the early detection of explosives

Hand-held detectors analyze explosives and radioactivity

Fast and reliable detection and identification of even the smallest traces of explosives as well as all radioactive materials

- Ultra-fast 1-second detection
- Advanced Infra-Red Sampling with instant read-out detects all (incl. non-volatile) explosives in Vapour Mode in real time
- Analytical Particulate Mode with detailed identification
- Simultaneous explosives and radiological detection quickly finds dirty bombs or any other radioactive contraband
- High resistance against cross-talking chemicals and overload
- The best false alarm rate



CONSULTING WITH AN EXPERT

IDENTIFICATION OF STOWAWAYS IN ADJOINING SPACES



Stereo Fiber Optical Stethoscope for audio surveillance through walls

This Stereo Fiber Optical Stethoscope enables audio monitoring through any type of wall when access to the room is not possible. It is a highly sensitive system with high intelligibility allowing also for the identification of the subject's location through the stereo heads which can be installed up to 10 meters apart. The heads can be permanently mounted and are waterproof and difficult to detect with any conventional detection device.

Features

- Designed for SWAT and Special Task Forces
- Two sensor heads for better intelligibility
- Stereo system enables localization of traced subject
- Applicable for permanent use
- Set contact sensors on wall and listen
- Lightweight and waterproof
- Passive sensor
- Difficult to detect



Optical Audio kit for through-air and through-wall audio surveillance operation

Features

- All you need for tactical audio surveillance
- Includes Optical Microphone and Stethoscope
- Non detectable, high SNR microphone and stethoscope
- Through-wall audio surveillance including false walls!
 - Battery or external power operated
 - Designed for SWAT, Special Task Forces, to capture audio
 - Easy to use: set sensor and listen



CARBON DIOXIDE SENSOR MODULE TMPSYS-TL82

This detector has been designed to identify the presence and concentration of CO₂ in any environment. It can be used both to check ventilation systems as well as continuous CO₂ monitoring.

The detector is able to automatically activate ventilation systems through the internal relays when the set threshold is reached. Its reduced size (14 x 8 x 3 cm) and ease of use make the TMPSYS-TL82 particularly manageable and practical, allowing for simple installation in homes, offices, warehouses etc.

The detector contains an internal infrared sensor which identifies the concentration of gas using phase lag methodology.



SYSTEMS FOR PUBLIC ORDER / ANTI-RIOT

In order to maintain "balanced forces" and to bring about order (while ensuring the complete safety of both the public as well as the Police), it is necessary to modernize anti-riot measures. The use of ammunition especially designed to face the new challenges in crowd control, while all the while remaining non-lethal, can help anti-riot forces to reach their goal.

New generation non-lethal ammunition

Multi Effect Grenades

Surprise Factor – Blast causes confusion and uncertainty in the crowd, deterring confrontation.

- *Safe* – soft material (composite fiberboard) minimizes blast fragmentation

Multi Effect Grenades - fragmentation.

- *Counter Throwback* ("boomerang effect"):
 - Reduces the need for increased back-up due to throwback incidents.
 - Keeps police force safe
- *Flexible* - selection of 2nd stage ammunition to fit the clients operational needs (CS Powder, Rubber bullets, Coloring Powder or sticky gel)



PepperJet

The PepperJet is a new non-lethal Oleoresin Capsicum (OC-Pepper Spray) gas-powered ejector weapon incorporating features fitting with our clients' needs. The PepperJet utilizes Optimum Pressure Technology (OPT) which provides an appropriate amount of gas pressure to generate the micron-sized fog particles that have proven very effective in deterring aggressive behavior (it can stop fighting in seconds and reduce the possibility of injuries to officers or rioters).

SINGLE SHOT RIOT GUN 37/38 MM



Tempestini s.r.l.

Via Corigliano Calabro 59 00178 Rome - Italy P.Iva 11339361005

Tel. +39 06 90209924 / 246 Fax +39 06 89281442 info@tempestinisystems.com

YOUR GLOBAL PARTNER

Personal Protective Equipment

Available in all sizes, this Level 2 protection has been designed with the aim of reducing the overall weight of the garment in order to improve performance and manoeuvrability. Comfort is enhanced by the addition of cotton covers on all elasticated straps which also reduces heat transfer.

- Shoulder /Upper Arm Guards
- Forearm/Elbow Protector
- Groin Guards for Male/Female
- Shin/Knee Protectors
- Thigh Guards
- Foot Protectors



Ballistic helmets and anti-riot shields



Gas Masks

Full face mask with a wide field of vision. One size fits all faces. Complies with EN 136 (version with air supply devices and thread comply with EN 148/3 and versions with threaded connector comply with EN 148/1). A silicon rubber version is also available for improved comfort and easier decontamination. Can be used against dust, gas and combined filters with a threaded connector conforms to EN 148/1 and with air supply devices (with thread EN 148/3).



VIP PROTECTION SYSTEMS

We carry out the armor-plating of vehicles and produce inhibitors and radio frequency jammers for the protection of VIP convoys. Furthermore, we can provide a list of all telephone numbers which will be able to operate while all others will be blocked.

Protecting VIPs from the threat of roadside bombs (IEDs or RCIEDs) has become a top priority for Governments and VIP Security Agencies internationally. The TMP-JAM-V delivers the most effective mobile RCIED neutralization, camouflaged inside a choice of several different luxury vehicles.

The TMP-JAM-V is an ultra high power broad band bomb jamming system which is permanently integrated into the vehicle. The system continuously and simultaneously blocks frequencies most commonly used by terrorists to detonate roadside bombs.



TMP-Smartshield System (GSM, 3G/ UMTS, CDMA)

Imagine you are in charge of protecting a sensitive area (government building, hotel or conference center). Our **TMP Smartshield System** provides you with a solution to effectively control all cellular mobile communication:

The system combines the following components: 3G/ UMTS Jammer; SMARTSHIELD intelligent GSM VIP Jammer; CDMA Jammer.

With 3G/ UMTS and CDMA effectively jammed, GSM is the only remaining cellular communication channel. And the full control of this channel is put into your hands by our Smartshield intelligent GSM jammer.



TMP-Tyre Protect – safety bands for tires

This is a simple but efficient solution to inconveniences, punctures, unexpected break downs and tire deflation. With TMP-TYRE PROTECT, you are able to maintain control over the vehicle in case of deflated tires – at any speed and on any type of road surface. While the tire is held together by the **TMP-TYRE PROTECT** safety band, the control over maneuvers, breaking and steering following a puncture or break down can be maintained at any speed.

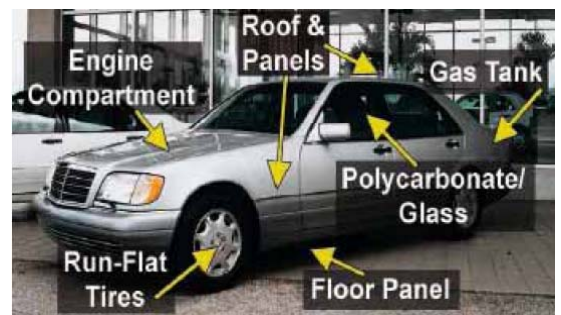


Armored Vehicles

Secure and Safe Transportation

- Armored Vehicles for VIP and Executive Protection
- Armored SUV's & Utility Trucks
- Armored Personnel Carriers
- Cash-In-Transit Vehicles

Tempestini Systems can provide upscale armored vehicles to security companies, law enforcement, homeland security, military, corporations, executives, government officials and diplomats, celebrities and high net worth individuals. The finished product cost depends on the protection level required and optional ant-kidnapping devices installed in the vehicle.



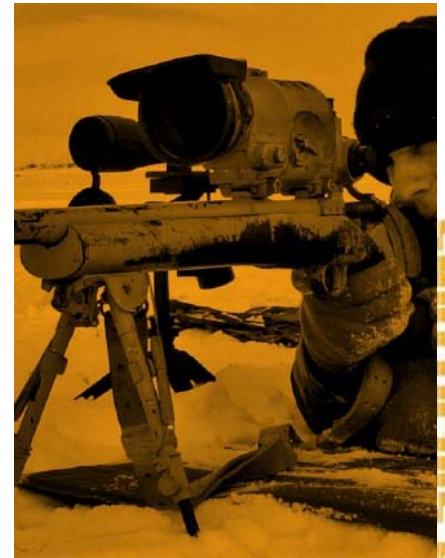
SNIPER SYSTEMS

Sniper Management System

This is a real time integrated video, audio and data communications system which allows the commander in charge of an operation to visualise what every sniper's scope is aiming at on a screen from a remote location and consequently decide to permit or forbid the agents to take action.

The main objective of this system is to:

- Obtain, based on the images from the cameras, as much information as possible regarding the type of threat and danger level it presents.
- Organize and oversee the squadron, independently of its numbers.
- Distribute images and information of any kind to all operators regarding the characteristics of the danger in real time.
- Distribute the images taken by the pan-tilt cameras to all operators (as well as to the command post).
- Distribute the images taken by the micro-cameras linked to the telescopes aligned with the rifles to all operators (as well as to the command post).



This aim correction system with Picatinny attachment allows the user to compensate for humidity and wind and includes manual setting and an incorporated range finder.

- Compact, lightweight fire control system for sniper rifles and grenade and rocket launchers
- Enhances the effectiveness of various types of sniper weapons and missile launchers
- Fitted with azimuth and elevation adjustment settings allowing the sniper to align the optical axes of the telescope with the axes of the weapon barrel and compensate for side wind and target movement
- Incorporates a single-pulse laser rangefinder operating in an eye-safe spectral range (invisible to night vision devices), a sniper telescope and a fire control computer



This ammunition for shots through glass, or inside an aircraft, is explosion-proof but gives similar results to those of other materials.



Sniper Fire Controlled Riflescope

- Measures distance by pressing a pushbutton on a soft cable. The cable may be installed practically anywhere on the weapon, to ensure maximum convenience and minimum interference
- Automatically calculates the elevation angle according to the ranged target lead, which it shows as an illuminated ballistic dot into the sight's field of view
- Withstands all possible environmental conditions as well as the shocks and vibrations caused by the operation of the host weapon
- Temperature, humidity, weapon elevation and axial angle

sensors for ballistic calculations (optional)

- Built-in CCD camera and video output for training, command and control purposes.

Tempestini s.r.l.

Via Corigliano Calabro 59 00178 Rome - Italy P.Iva 11339361005

Tel. +39 06 90209924 / 246 Fax +39 06 89281442 info@tempestinisystems.com

YOUR GLOBAL PARTNER

EOD SYSTEMS

TMP-G3 Portable Wireless Controlled X-Ray System

The TMP-G3 X-Ray System is a portable, wireless, easy to use and completely computerized Inspection System for the verifying of objects such as parcels, boxes, luggage etc. The system consists of a remote control unit, a camera box, the XRay source and accessories.

Specific customised software and computer systems enable the unit to start within a few seconds. No knowledge of computer, operating systems or software is needed to operate.

The camera unit, remote control and all accessories are placed in only one container during transport saving space and weight. The TMP-G3 system is fully digital providing the most reliable operation and best quality images.

The wireless connection allows operation at distances of up to 150m outdoors or 50m indoors.



TMP MK-5 Robot

This small and durable robot is very maneuverable in tight, awkward spaces. Its arm has five degrees-of-freedom which enables delicate movement for the most intricate tasks. The TMP MK-5 uses an advanced remote control system which has been tried and tested by leading police and law enforcement to work under the harshest operational conditions. The Hornet is extremely versatile and supports a broad range of attachments.

TMP-105 EOD Portable Wide Band Jamming System

The TMP-105EOD is a transportable RF Jammer or Bomb Jammer that uses RF Jamming signals to defeat remote controlled improvised explosive devices or RCIED. The RF Jammer theory of operation is the same as an IED jammer in that they both involve sending out RF Jamming signals to cause radio interference and attack the radio receiver of an improvised explosive device or IED and help prevent it from detonating. RF Jamming or IED Jamming of HF, VHF, UHF, and Microwave radio frequencies enable the TMP-105EOD RF Jammer to reduce the risk of remote controlled improvised explosive devices from triggering.

TMP-105EOD Features:

Expandable Design - The TMP-105EOD can detect both known threats as well as future threats determined by the user. This can be accomplished by supplying additional jamming modules to the base configuration of the system.

Additional High Power - By adding jamming modules, the power output can be increased, offering increased saturation of the electromagnetic spectrum.



NBC SYSTEMS

TMPSYS-AP4C - Hand held chemical monitoring and detection unit

Chemical Warfare Agents Toxic Industrial Materials

The TMPSYS-AP4C is a flame spectrometer allowing an easy and reliable alarm and control detection system of chemical warfare agents and toxic industrial materials.

It is easy to use, as there is no library to select, no complex menu to roam through and no calibration upon start-up. Just an on/off switch

and alarms can be immediately seen on the luminous display without any further action of the user.



The TMP-AP4C-V is a chemical agent detector for fixed or mobile applications. It is used to detect Chemical Warfare Agents and Toxic Industrial Chemicals.

Purpose

The TMP-AP4C-V is used in fixed positions (shelters, storage areas) or mobile (reconnaissance vehicles, light vehicles).

The TMP-AP4C-V detects all nerve, all blister and all blood agents.



The TMP-AP4C-F is a fixed detection system of chemical Warfare Agents and Toxic Industrial material.

Feature Highlights

- Simultaneous detection of mixed agents
- Very short response time and re-set time
- Adaptable to harsh environmental conditions
- Network with up to 10 detectors
- Requires maintenance only once per year.



TMP-MAB - Biological Alarm Monitor

This monitor continuously analyses particles in the atmosphere and searches for specific chemical signatures of bacteria or toxins such as anthrax, plague, botox, legionella etc. and gives alarm when the concentration in the air of those suspect particles increases. It triggers a bio sampler to determine the pathogenic characteristics of the detected particles.

TMP-MAB immediately detects any change in the atmospheric background and gives an alarm as soon as the measured biological characteristics exceed a pre-set limit.

TMP-MAB works on a continuous basis and in real time. Response time is just a few seconds.

It has very low power consumption (a few watts) and a reduced sound level.

TMP-MAB can be used by untrained people and is especially adaptable to the harshness of military use (fast startup, reliability, environmental resistance, continuous running for several days). It has already been selected by several military forces and equips several NBC reconnaissance vehicles, as it is not affected by diesel vapors and smoke.

LEGAL SYSTEMS

After a great deal of research into our clients' needs, we are now able to offer innovative systems not only for the physical security of buildings (made up of intelligent systems which analyze the images taken by cameras) but also remote drug detectors and the identification of inmate location and position (horizontal or vertical) through a wireless protected network which does not require elevated running costs. Aside from radio frequency inhibitors, we also have systems which can detect the use of cell phones and other means of communication and alert the operator as to which cell the signal was received from or sent to and from which telephone number. The operators can then decide whether to intercept communication instead of avoiding it altogether. We can also offer systems which forensically certify the audio and video recording of these communications.

Court hearings can now be held using media asset management systems: all hearings and documents of a specific case can be made available on the internal protected network and in just a few minutes can be consulted by all. A search engine allows for the cross-search of data and the remote viewing of trials and data. After the audio and video recordings, the system is able to catalog and archive the data. This solution also offers the possibility of modifying the files online, making them accessible to all authorized persons.

- Saves modified files for next use.
- Manages searches on contents of documents.
- Stores data.

TMP-Light - Portable 2 drive digital audio interview recorder

The TMP-Light portable Interview recorder is a PACE compliant digital audio recorder for evidential and disciplinary interviews. The portable recorder can be mains or battery powered and is suitable for recording in any location. The recorder guarantees faultless digital stereo recordings of up to eight hours on two identical CD copies. Both copies are digitally signed preserving the integrity of the recording. The AIRLight recorder is network-ready.

Stereo Recording

- Up to 8 hours recording.
- Wide stereo separation.
- Suitable for all room sizes

Easy-to-use

- Two button operation.
- Clear indication of recording.
- Optional pause feature



INMATE MONITORING

Electronic Bracelet For Prisoners - INTEGRATED MONITORING PLATFORM



This Integrated Platform offers a full range of interchangeable electronic monitoring tools and communication technologies, enabling operators to integrate previously separate monitoring tools and software modules onto a single platform. The implementation of this unique concept enables significant financial and operational performance enhancement and considerably improves control center and field officers workflow.

In addition, the same transmitters are compatible across the different field units and monitoring programs (RF, GPS, Alcohol Monitoring, Inmate Tracking), allowing for seamless and flexible transfer of offenders across different monitoring programs, resulting in enhanced programs and caseload management capabilities.

There is a host of applicable combinations to accommodate varying levels of supervision and cater to the evolving needs of intensive supervision schemes.

TMP-ENTRY - Biometrical Facial Recognition



YOUR FACE IS YOUR ENTRANCE KEY

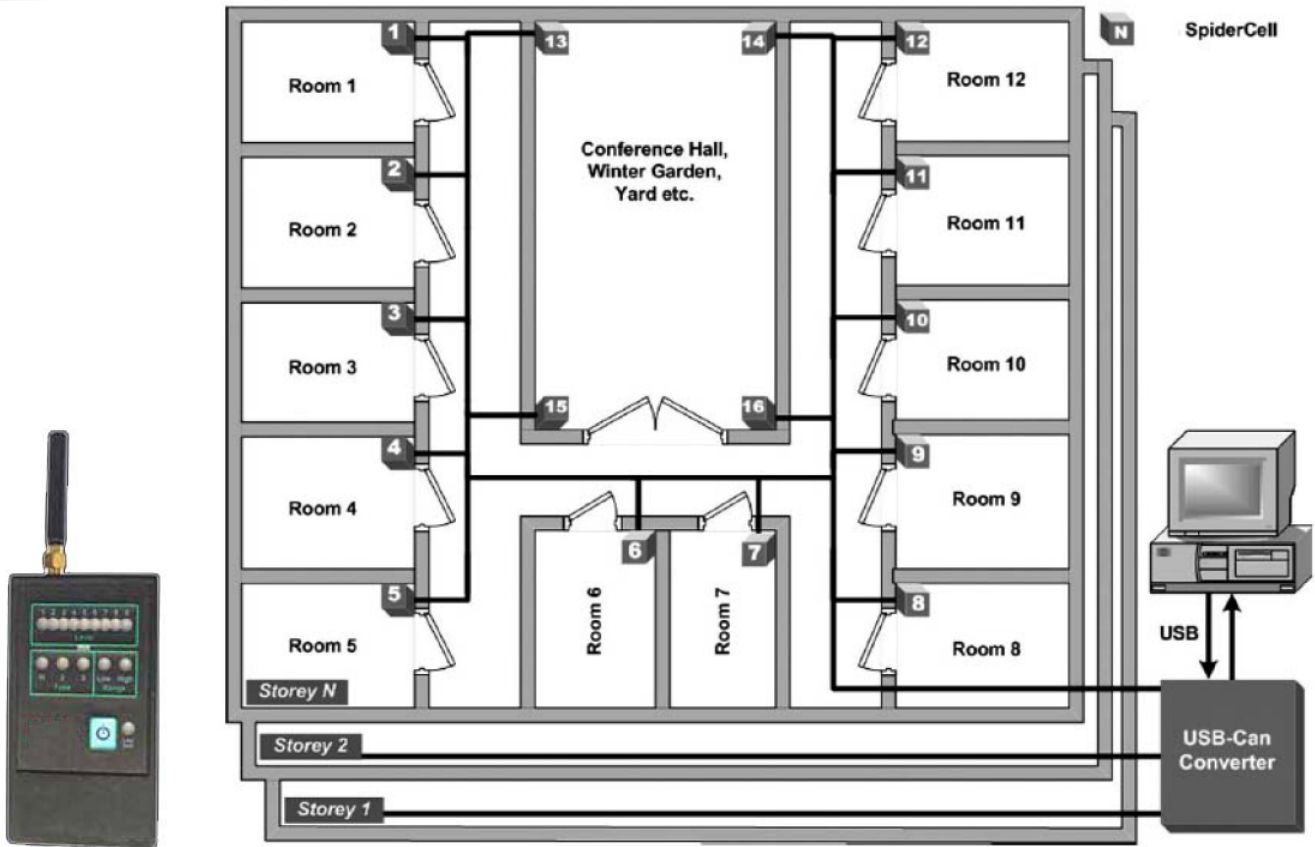
TMP-entry is an innovative and advanced biometric solution that uses an individual's face as a key to grant access of use to premises which needs to be secured against unauthorized individuals.

The ability to permit or deny the use of a particular resource by a particular entity is based exclusively on positive authentication of the individual.

Biometrics overcomes the trouble caused by an access card/key changing hands, getting lost, broken etc. Within the biometric field, face recognition is perceived to be the most precise, non intrusive, fast and customer friendly.

To enable access, the person's face picture must be taken and stored into TMP-Entry's database (i.e. enroll process).

Thereafter, when the person approaches the access door TMP-Entry takes his picture again and verifies it with the person's faces in its database. If a match is found the system unlocks the door and logs the transaction.



TELEPHONE ANALYSIS / LINE RECORDING

Cellular Telephone and other communication Detector

The GSM96 can detect both 2G (GSM900 & GSM1800) and 3G (WCDMA / UMTS 2100) mobile phones. For situations where greater accuracy is required and / or specific monitoring is required in areas containing multiple phones, a specially designed directional antenna system can be used with the 96.

The use of mobile phones in today's prisons is becoming more acute. Not only are the phones being used for relatively innocent communications with friends and relatives outside but more worryingly the phones are being used for criminal activities. The main use is in the supply and distribution of drugs within the prison.

Since we started supplying the handheld mobile phone detectors, staff have been able to detect and locate illicit mobile phones used within prisons. No matter how successful they have been, current research seems to indicate that they are only tackling the tip of the iceberg. Only when officers are in the area with detectors will they pick up signals from illicit phones. Up until now there has been no way of accurately measuring the level of mobile phone abuse within an establishment.

The system works by having detectors distributed throughout the prison which are all linked by radio to a central hub normally located in the security office. The system will report **where** (detector number), **when** (hub time stamps all alarms) and **how** (type of phone 2/3G and whether it is being used for text or voice calls) phones are being used. This allows officers to be pro-active by being in the right place at the right time with a GSM196 to pinpoint the cell from which a phone is being used.

SMART CITY: SYSTEMS FOR MUNICIPALITIES

The idea of "smart Cities" that we intend to develop is based on modern concepts of "Smart Cities – smart home – smart citizen".

The guide lines where we can intervene are:

- Energy saving and Self-sufficiency for "zero" CO2 emissions
- Absence of vehicle traffic and optimization of the internal transport (mobility)
- Improved quality of life for people through specific services that take into account the different needs of both residents and visitors
- Development of business opportunities with services related to the "Green Economy"
- Social services and high-level public services

The project will need to be totally autonomous from an economic-financial point of view. A "future city" society will take the responsibility of the realization of the whole project by creating:

- infrastructures and public services;
- self sustainable homes that will be offered on the open market;
- facilities for business activities that will be offered to major international groups;
- small mono and two-roomed apartments, ("social housing") that will be rented "a low cost" to subjects living in a transitional situation or having permanent difficulties.

A second company "future city" will take over the entire investment in services and will sign a ten (minimum) year agreement for providing the following services:

- electrical and heat supply;
- separated waste collection;
- maintenance and management of the public lighting and (if required);
- information services;
- Inland Transport (passengers and freight);
- parking lots;
- telecommunications;
- agriturismo;



DATA ANALYSIS SECURITY

Implementation in the Intelligence and Armed Forces sectors

LEA recognition

- Object Identification
- Tapping of phone calls from suspicious mobile phones (withheld numbers\pay-as-you-go) originating from specific devices
- Monitor public/pay phones and calls from offices/hotels/PBX
- *Landline tapping in homes* – focused on calls made by suspects and filtering members of the family
- Voice extraction – tapping of international and local calls using biometric wildcard and voice information
- Verification link - automatic identification of one specific voice among a certain group in a call



FreeSpeech - Biometric speaker verification system

FreeSpeech is able to verify customers within seconds independent of conversation content, the language spoken and accent. Verifications take place in the background of natural conversations between the customer and contact center agent. By eliminating cumbersome authentication processes, FreeSpeech enhances the customer experience, reducing call times and associated costs, and allows agents to focus on providing quality service.

FreeSpeech 6.5 enables real-time operational and transactional risk management by biometrically analyzing callers' voices. Fraudsters watch lists can be used to identify fraudulent activity.



Sys-Docu: an informative solution for the verification of document authenticity

This system provides support in verifying ID authenticity (passports, ID cards, licenses, Visas and residency permits) and suspicious currency.

Currently in use in the principal airports and port areas of central and southern Italy, this system is suitable for all organizations (governmental and non-governmental) which need to verify the validity of a document.

With this system it is possible to consult and add images and descriptions of security characteristics of various national and international documents to the database as well as adding pre-existing specimens.



Suspect Detection System

This **TMP-SDS** core technology is based on exclusive software; it is an "expert system" that emulates an investigator's Method of Operation (MO) by incorporating artificial intelligence techniques and algorithms. All hardware elements are the best the market has to offer. This system is comprised of a front-end - the 'Test Station' - and a back-office where multiple-station and multiple-site data is stored, managed and distributed. **"TMP-SDS"** is a fully automated system which does not require human control and/or operation.



INFORMATION SECURITY

Datacenter Protection and Cloud - Based systems



Many companies are today consolidating physical servers onto virtual structures with the aim of reducing costs, improving flexibility and increasing productivity by steering IT architecture towards Cloud Computing. The more traditional approach to security does not offer adequate protection against the many modern threats to security which are in constant evolution and which often evade perimetral security checks.

Thanks to the close collaboration with world leaders in the sector, such as TREND MICRO, we are able to offer innovative and avant-garde solutions in providing "multi-level" network protection which includes everything from the marketing to

the configuration of security architecture with certified and highly qualified personnel.

Object orientated RAD software development and new generation web

Thanks to new generation RAD (Rapid Application Development) and years of experience using the best methods, we are able to design and develop software applications extremely rapidly (up to 5 times faster) on multiple platforms such as desktops, mobiles, web and databases compliant with Windows (32/64bit) and Mac iOS.



Company training

The assistance we offer to companies and organizations is specific to the security sector and covers both general aspects as well as those more closely linked to classified information. We also offer the possibility of carrying out courses in house or at the client's place of work.

Data Recovery

The risk of losing data has increased with the reduction in costs of hardware and mass memory with a consequent increase in storage capacity (from GB to TB). Data recovery from both physically as well as logistically damaged systems is one of the most important among the services we offer. In order to safeguard a company's assets comprised of data managed by an information system, it is important to immediately contact a firm specialized in data recovery in case of data loss, so as to avoid further compromising the possibility of recovering this data.



COMPANY PROFILE

Who Are We

Tempestini Systems is a solid company with over twenty years experience on the Italian market in the development and marketing of technological solutions in the sectors of Communication (Broadcast, IP TV and ICT) and Security. In both sectors, Tempestini Systems has matured significant experience with private firms and with Public Administrations, combining the best current technology on the market with the ability to design, realize and manage complex projects based on the client's needs.

Our Mission

Tempestini Systems' mission is to realize innovative projects using avant-garde technology starting from a careful analysis of the client's needs and providing the best possible solution which is simultaneously both effective and economic. The objective is that of co-operating with our clients in the business analysis and evaluation of the most suitable solutions, selecting the best technologies to produce innovation and competitive advantage, and supporting them with suitable consulting services, technical support and training.

Our Offer

Tempestini Systems is characterized by our flexible offers, designed to optimize evolution and to suit new markets and new technological trends. It is possible to distinguish two sectors among the various products, solutions and services offered by the principal markets:

- **COMMUNICATION** including Media (Broadcast and IP TV) and that more closely linked to the Information & Communication Technology;
- **SECURITY** which refers to video surveillance, investigation and intelligence systems and products for the Armed Forces and Police Force.

Tempestini Systems is therefore a competent and reliable partner for all that concerns **audio-video management**, in this case the visualization, transmission, recording and analysis of information and data according to various available technological standards.

While guaranteeing assistance and maintenance of the products offered, we have always chosen to be **independent from manufacturing firms**, instead aiming at a continuous trial of technologies present on the market with the purpose of guaranteeing an excellent quality-price ratio.

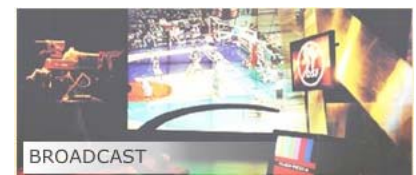
In both the sectors, Tempestini Systems uses technological tools and a state-of-the-art methodological approach. The client's needs always come first while guaranteeing a personalized solution.

Communication

The Communication sector can be divided into two macro areas: Media and ICT which, while differing in many aspects, also have much in common. Below is a summary of the main products/services offered for each macro area:

Media

- Realization of mobile vehicles for satellite transmission and television filming
- Digital video recording systems of any duration
- Duplication and trans codification systems
- Systems for the realization of presentations and advertisements
- Production and post-television production systems
- Camera handling systems (steady cams)
- Planning, management and production of special effects, e.g. chroma key, virtual set, room tracking and 3D graphics
- High definition encoding, streaming and assembly tools
- Training courses in computer-graphics, virtual sets, management of television studios in 3D and studio max.
- Trade-in and second-hand equipment
- Rental equipment for single events or long term, complete with technical support during the event and technical assistance before and after the rental



IP TV

- Transmission of audio and video signals with various wireless technologies (C. O. F. D. M., TCP/IP, WI FI and fiber optics)
- Systems for the conversion/adaptation of traditional video material for Web TV
- Systems to create, manage and distribute web content
- Direction solutions able to manage the distribution of audio-video images via GSM e.g. advertisements

Information Communication Technology

- Screening of video presentations through a broad selection of displays (Videowall, LCD Monitor and plasma, etc)
- Monitoring systems and control rooms
- Videoconferencing and streaming solutions
- Systems of e-learning
- Fitting of multimedia laboratories
- Interactive kiosks and other information/entertainment systems
- Systems of cataloguing, indexing and storage of audio-video
- Solutions for the management of dynamic advertisements through IP, satellite and ADSL video transmission.
- Electronic voting and conference systems
- Training courses in networking
- Equipment rental for individual events or long term, complete with technical support during the event and technical assistance before and after the rental.



Security

A leader for over ten years in the field of **video surveillance, security and intelligence** installations, Tempestini Systems designs, manufactures and implements customer oriented solutions which guarantee total control and therefore greater security in many areas of application.

In summary, it is possible to identify the following types of systems and products:



- Video surveillance systems, including behavioral analysis
- Automatic vehicle control systems (plates and bodywork)
- Surveys
- Detection of drugs, explosives etc in parcels, persons, vehicles and equipment cargo using radiogenic and molecular equipment, both

onsite and remotely.

- Access Control using biometric data and voice recognition
- Document authenticity recognition
- Systems for the management of mobile radio-localization vehicles on encrypted networks and with maps on a global scale
- Encrypted data and voice TRANSMISSION SYSTEMS
- EOD systems (robots, environmental renewal systems, inhibitors)
- Fixed or portable surveillance systems (telescopes, thermographic cameras etc.), also with integrated Audio-Video management systems (e.g. suitcases with DSS technology)
- Products for the Armed Forces and Police Force (bullet-proof vests, special ammunition, etc.)
- Interception and intelligence systems and products dedicated to the Armed Forces and Police Force
- Training courses for the Armed Forces and Police Force on environmental renewal systems (knowledge of explosive substances devices and safety measures).

PRIMARY CLIENTS

Public Administration



Army & Police Forces



Media & Broadcasting



University & Research Institutes



Health



Finances



Other private companies



PRINCIPAL REFERENCES

Some of Tempestini System's main references can be found in the following table and include clients from various markets and projects concerning all sectors of activity.

For further information concerning specific projects or fields of interest, please see the complete document entitled "Detailed References".

Client	Project Description
General Command Of Carabinieri 	- Integration and installation of operation rooms at the regional command of the Carabinieri corps, located throughout the entire Italian territory (108 halls). - The system has the main purpose of viewing the position of police cars stationed on the territory on special maps and, as a secondary purpose, of managing different types of video and audio signals coming from the cars. - Implementation of management methods and mobile command; software and vehicle modifications and preparation of equipment for the transmission of audio signal and live video.
Home Office 	- Implementation of 10 operational centers of the Carabinieri mostly located in Southern Italy. Supplies of investigation and conference room apparatus - Supplies of investigation apparatus for the central management services Anti-Mafia - Supply of codec for surveillance systems linked to central city operational police in 80 cities of Italy (IBM /Teorematika)
Ministry of Defence 	Supplies of investigation and conference room apparatus (R.U.D.)
Difence General Staff 	Acquisition of a multimedia system
Armed Forces General Staff 	- Photographic archiving and burning systems - Construction of control room at the " Rossani barracks " in Verona
Navy 	Design and creation of a "briefing" room with display systems.
E.N.E.A (Italian National agency for new technologies, Energy and sustainable economic development) 	RVM and DVD post-production system and operations room.

Lecce University 	▪ Television production, an 8x3 meter large-screen display of audio and video recording systems ▪ Streaming and production of programs for e-learning
Salerno University 	▪ Design and creation of television Studio complete with set design and virtual courses in the use of new technologies.
Bari University 	▪ Educational classrooms.
Laterna Museum (VT) 	▪ Post-production filming and video. Back-lit projection displays and realization of audiovisual content and interactive multimedia

NB:

For all the above-mentioned services, personal on-site technical support was provided during installation, integration and testing.

Further technical assistance was also offered based on the various operational needs of each specific case.