



SECURITY
THROUGH
INNOVATION

PERIMETER SECURITY SYSTEMS
& SOLUTIONS PORTFOLIO

ADDED VALUES & UNIQUE ADVANTAGES

Operating in over 30 countries for over two decades, El-Far is a global perimeter security expert, advanced PIDS solution provider, and turnkey project leader.

Established by former members of the defense establishment together with senior software and hardware development experts, El-Far boasts comprehensive operational and technical expertise.

Combining genuine know-how and inhouse R&D with a hands-on approach, the company serves the entire lifecycle of integrated projects.

El-Far's team works closely with leading global customers across all five continents under challenging environmental conditions, answering complex operational security scenarios.

In-House R&D - A team of highly experienced engineers in charge of developing new systems and solutions that best answer arising needs and challenges, keeping the company at the cutting edge of technology and innovation.

Proprietary Software Development Team - Continuously upgrading the InSite C&C Site Management Software, creating new innovative tools for the operators to make their task as simple and intuitive as possible

Top Quality Manufacturing - All systems are manufactured in-house in the company's factory, under the highest QC & QA (ISO 9001:2015), keeping the pace with the R&D Team and supporting their cutting-edge developments.

SECTORS & VERTICAL MARKETS



TRANSPORTATION

Airports
Marine Ports
Railway & Train Stations
Parking Lots

COMMERCIAL

BTS & Antenna Sites
Residentials & Condominiums
Industrials Parks & Logistic Centers
HQs & Institution



CRITICAL INFRASTRUCTURE

Gas PRMS & Storage
Oil Farms & Refineries
Electric Power Stations
Water Recycle Facilities
Solar Farms



GOVERNMENTAL

Prisons
Borders
Military Bases & Airfields
Mega Events

STANDARDS & CERTIFICATIONS



Israeli MOD and IDF

Certified model for military applications, bases, airfields and critical sensitive sites.



MIL-STD-810

Immune to extreme weather conditions, including drastic changes in temperature (-40°C a +75°C), rain, ice, fog, dust, humidity, salinity, etc.



MIL-STD-461, CE & FCC

EMI/ RFI proof and compatible.



Intrinsically Safe System Standard (IEC / EN 60079-25:2010)

Uniquely approved for safe installation in highly volatile environment found in zero tolerance areas within core areas of energy sites.



SYSTEMS & SOLUTIONS



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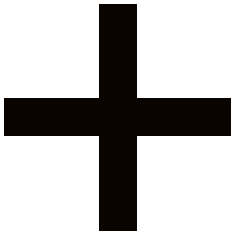
InSite

INTEGRATED SECURITY MANAGEMENT SOFTWARE

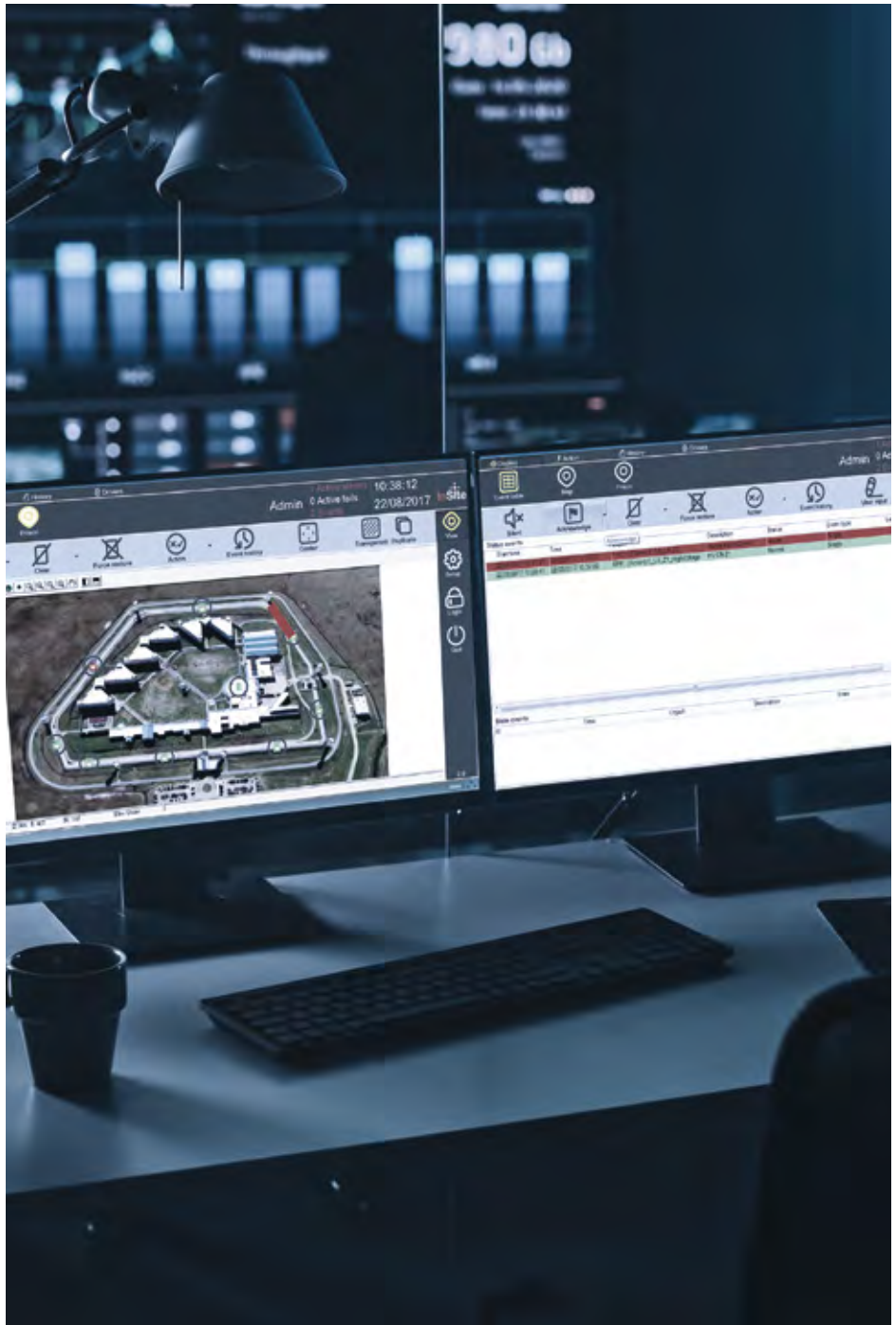
- In-house developed PSIM – a comprehensive software application for Physical Security Information Management, providing optimized balance between security requirements & logistical needs.
- GIS-based display of security events, enabling simple and intuitive situation management.
- Analyzing and fusing the flow of information from various integrated security modules and devices, such as VMS & CCTV, ACS & LPR, Power Fences, Laser Sensors, Alarm Panels, Gates & Bollards etc., with conditioned / triggered activation according to security protocols & requirements.
- Synchronized operation of video surveillance cameras for visual verification and continuous monitoring of the security event.
- Customized ruling & conditioning of analysis parameters for optimized automatic operation of security events.
- Client-Server architecture to control multiple workstations with redundancy.
- Highly efficient filtration of environmental and weather effects.
- User friendly clear GUI available in various languages.



Integrated Video Surveillance & Smart Fence Operation Display



Alarm Display on the Insite Psim Software



GIS Site Map

Clear Visualization of the Security Event

—

Intuitive Event Table

Displaying all important info in real time



InSite

MOBILE APPLICATION

- Mobile management of the perimeter system.
- Quick access to InSite features and alerts.
- Alarm location by Waze, Google Maps and web browser.
- Message distribution by WhatsApp and SMS.
- Remote activation of security devices through relays (door locks etc.).
- Priority ID settings for selected events.
- Multiple workstations control.
- Immediate arming / disarming zones according to operational protocols & logistical needs.



Selected Features of the InSite Mobile Application

Open Event Location
with Waze / Google Maps
/ Web browser



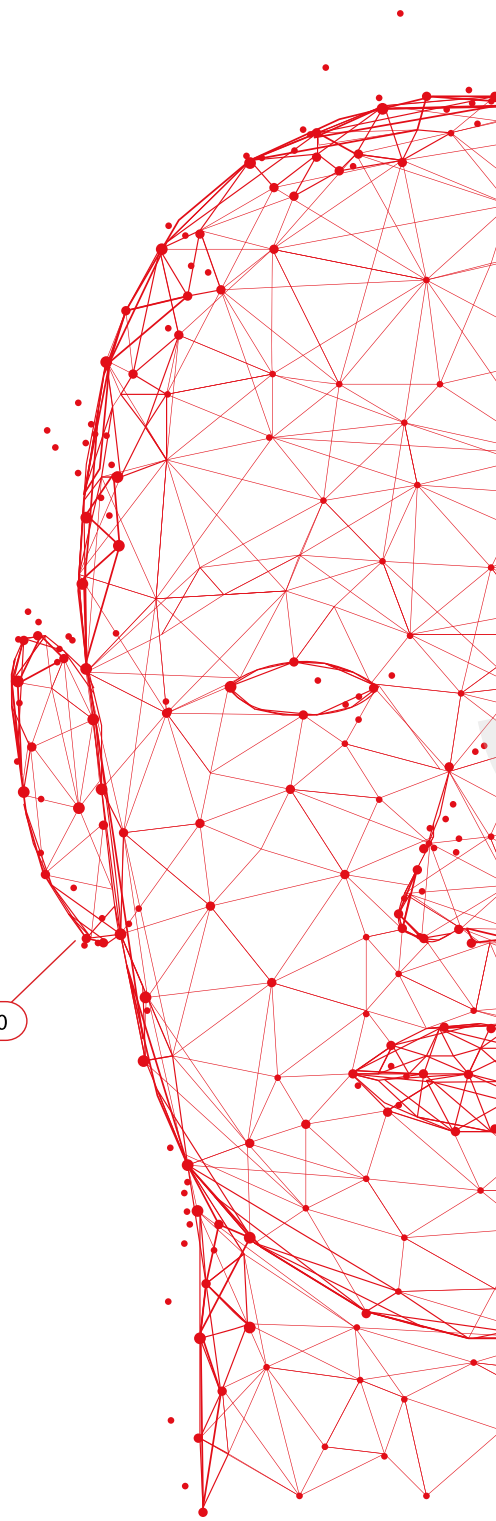
Forward Event Message
by WhatsApp / SMS



- Providing 24/7 Network Monitoring and Data Integrity.
- Online active monitoring and real-time alert on status changes across managed users, ports & network devices (LAN Ports, switches, routers etc.).
- Early detection of unauthorized access or intrusion attempts.
- Remote activation & neutralization of physical network ports.
- Bidirectional monitoring of data usage on a single port level.
- Pattern recognition and early alert on abnormal data usage.
- Complies with IEEE 802.1X protocol.

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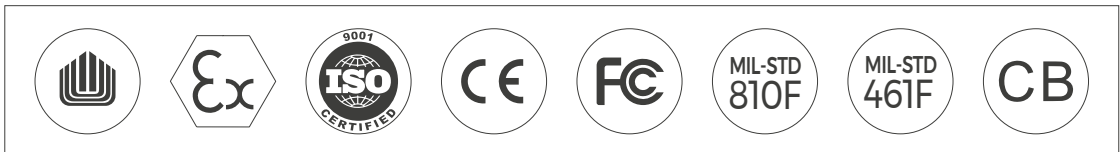
VIPER | SMART FENCE

Main Objective

Detection of real intrusion attempts to climb on the perimeter fence, damage the mesh or sensor line, cut or short in the sensor line or communication cabling.

Applied Sensor Technology

Vibration sensors deployed along most types of physical barrier – chain-link or welded mesh fences / concertina coils / walls.



Features & Benefits

- Over 20 years of proven field experience in 34 countries over 5 continents.
- $\pm 10\text{m}$ detection resolution with only a single controller every up to 1,000m.
- Detection capability of up to 5m high fences with a single sensor line
- Can cover up to 10Km on a single power source.
- Easy and quick deployment & installation.
- Low and simple maintenance when necessary.
- Low power consumption - 5W/km on 24V DC power.
- Certified immunity to extreme weather conditions and environmental factors - complies with the highest military grade standards.
- **Unique ATEX certification - Intrinsically safe for application in highly volatile environment and hazardous areas.**



Main Objective

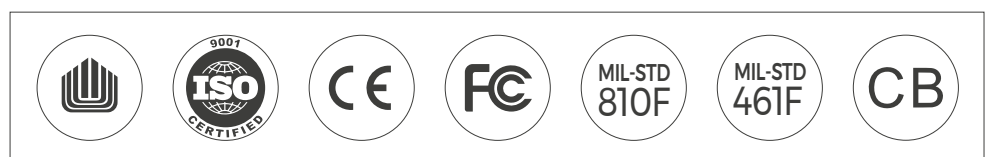
Detection of real intrusion attempts, detects any damage to the sensor line, cut or short in the sensor line or the communication cabling. Specific adaptability to rigid barrier types such as metal bar fences / profiles / anti-climb mesh fences.

Applied Sensor Technology

Electronic sensors specially designed to match rigid barriers without compromising on detection level and esthetic appearance. Deployed along the fence mesh / wall or into the fence pole itself, with unique omnidirectional detection capability (across the X/Y/Z axis) and sensitivity adjustment.

Features & Benefits

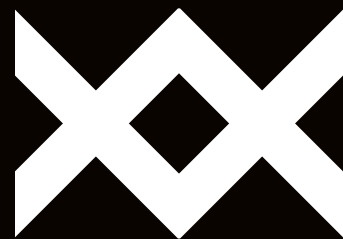
- Best match to rigid structures and metal bar fences.
- Esthetic deployment and embedded installation in decorative fences.
- Adjustable 3 to ± 10 m detection resolution.
- Sensor level detection capability.
- Low power consumption.
- Certified immunity to extreme weather conditions and environmental factors.



EL-SENS Systems Deployed in Various Sites



EL-SENS Electronic Sensors Deployment



TERRA-SENS

SEISMIC UNDERGROUND DETECTION SYSTEM

Main Objective

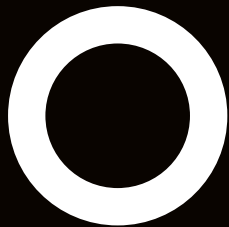
Detection of underground intrusion scenarios, including digging under the fence, as well as any damage, cut or short in the sensor line or cabling.

Applied Sensor Technology

Seismic sensors buried underground along the perimeter, connected to local interface units deployed serially along the physical barrier.



TERRASENS
Seismic Sensor
System



TERRASENS Systems Deployed in Various Sites

Features & Benefits

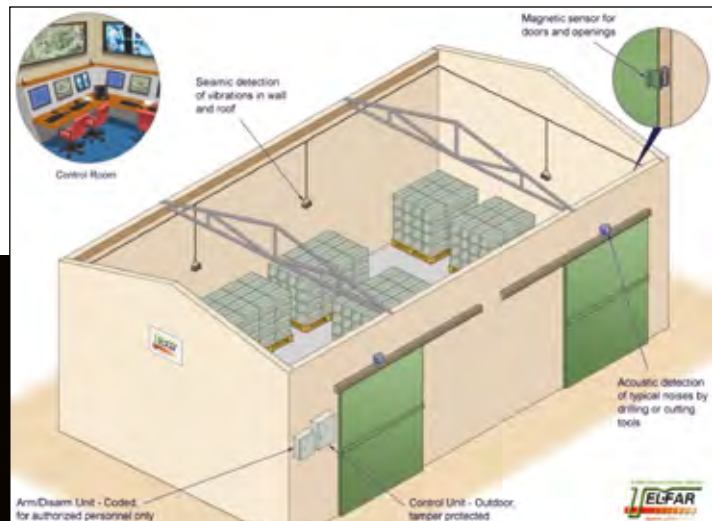
- Advanced underground detection capabilities.
- Synchronized detection and advanced analysis algorithms for nuisance event filtering.
- Certified immunity to extreme weather conditions and environmental factors.
- Unique seismic activity analysis on the InSite C&C software.
- Data fusion with the Smart Fence solutions implementing proprietary software algorithms.

SPIDER-SENS

STRUCTURE PROTECTION SYSTEM

Main Objective

Protection of warehouses, containers and other structures holding valuable assets, such as safe rooms, vaults and ATMs. The SPIDER-SENS provides 24/7 monitoring and real-time detection of any unauthorized access, breach or intrusion attempts (e.g. climbing, cutting, drilling, etc.) into the protected structure, either through the walls, roof or openings.



Applied Sensor Technology

The SPIDER-SENS system combines a variety of sensing technologies in a single array, installed in strategic points within the protected structure according to threat analysis. The system can detect vibrations and unique patterns caused by the intruder's impact on the structure's surfaces (roof, walls, windows, doors), by the burglary tools in use, such as hammers, rams, electric drills and discs.

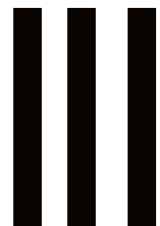
The detection data is transmitted and analyzed by sophisticated algorithms to determine and verify alarm events for real-time alert and display on the C&C Center security monitors. The Control Unit is located in a tamper protected outdoor enclosure and the system can be armed /disarmed by access code, for authorized personnel only.



SPIDER-SENS System Deployed in Various Sites

Features & Benefits

- 24/7 remote surveillance of the valuable assets, no guards necessary.
- Real-time alert and protection for any unauthorized access from the roofs, walls and openings.
- Combination of different sensors to comprise a complete operational solution.
- Identification and detection of a variety of burglary tools & instruments.
- Sensitivity adjustment according to site-specific criteria and operational needs.
- Weather proof – filtering climate factors (rain, wind, thunder etc.).
- Fully integrated with EL-FAR's Perimeter Smart Fence Systems and InSite C&C Management System.
- Easy and seamless integration with 3rd party security platforms.
- Simple and swift installation with minimal maintenance necessary.
- Alert by SMS – directly to the CSO's mobile.



LASER-SENS

LASER DETECTION SYSTEM

Main Objective

The LASER-SENS is a short to mid-range laser scanner, monitoring selected areas of interest. The LASER-SENS system provides a detailed mapping of the scanned area to include existing items and obstacles (such as trees, rocks, structures etc.). Once recognized and registered these items no longer affect the system, which is left ready to detect, alert and track any new movement within its range. Targets will be alerted only when entering the pre-defined alarm zones.

Features & Benefits

- Detects all moving targets within its range, but alerts only when entering the pre-defined alarm zone.
- Unaffected by existing stationary objects.
- Scalable detection of various targets (human, vehicles etc.).
- Variable effective range of 20-500m (up to 250m radius).
- Adjustable sensitivity with continuous scanning every 1msec.
- Low power consumption (24V on DC power).
- Managed by the InSite C&C Software.

Deployed LASER-SENS Systems



CU-07

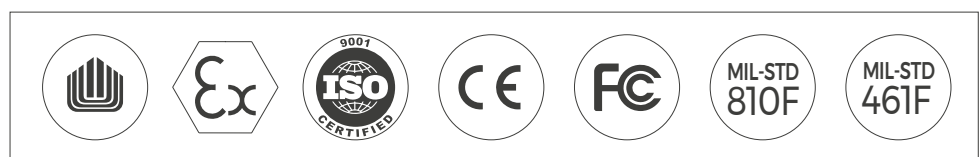
REMOTE SITE PROTECTION SYSTEM

Main Objective

The CU-07 is a non-computerized perimeter system, designed as a stand-alone solution to secure remote and usually unmanned sites of small scale (up to 800m in perimeter), such as guard posts, radar stations and observation towers, telecommunication networks (BTS, Antenna & cellular sites etc.), energy substations (LNG PRMS & Distribution sites, solar power points etc.) and more. The CU-07 application consists of a single Control Unit and a single sensor line of the required type (according to detection requirement). The detection data is transmitted from the CU-07 Control Unit to any designated device or network through existing communication paths for remote management of the unmanned site.

Features & Benefits

- A single Controller and sensor line per site.
- Entire site installed in a single day's work.
- Dry contacts / RS-232 interface - no local management software necessary.
- Synchronized activation of surveillance equipment installed on-site: cameras, sirens, lights, alarm systems etc.
- Close to zero maintenance.
- Certified immunity to extreme weather conditions and environmental factors.



CU-07 Security Design for Antenna / BTS / Tower Sites



POWER-SENS

ELECTRIC POWER FENCE SYSTEM

Main Objective

Deterrence, detection and alert of intrusion attempts along the perimeter's deployed electric fence, with complete compatibility and control by the InSite site management software application. The system administers a non-lethal electric shock when triggered, using an array of high-voltage wires on elegant supporters. Daytime neutralization of the high-voltage (active alarm only) and low amperage ensures safety of use for non-intruders.

Applied Sensor Technology

An array of high-voltage wires administering approx. 7,000V when triggered. Every zone can trigger an electric shock, an alarm or both. Operational tools on the InSite software enable remote activation or neutralization of high-voltage zones.





Features & Benefits

- Top Materials – zinc dipped steel profiles and wires, fiberglass enforced polyester, high grade plasticinsulators, dual tension springs.
- High Versatility – customized solutions to any need, matching any physical barrier, covering different gate types and openings.
- TUV Certified, compatible with EN-IEC 60335-2-76:2005/ A11:2008 for use under environmental conditions, operational scenarios and safety regulations.
- Passive daytime operation – safe for use in urban environment, inducing alarms only during the day and fully active at night.
- Synchronized operation, notification for fence maintenance (growing grass or present debris) and various efficient tools for the operator.
- Completely managed by the InSite site management software application.



ISS | INTEGRATED SECURITY SYSTEM

The ultimate Command & Control platform – an Integrated Security System (ISS) which provides 24/7 monitoring and real-time alert on any unauthorized access or intrusion attempts into the protected site, from private residences to airports, big or small. The ISS monitors and controls all security subsystems, devices and modules and provides audio-visual display of synchronized video surveillance system with PIDS, ACS, alarm system, controlled gates etc., for real-time situation awareness, enhanced security management and ongoing event monitoring.

The ISS utilizes the proprietary InSite PSIM software for comprehensive site management, optimally paired with the SiteNet add-in to provide a unique cyber protected layer of data integrity and network monitoring, with real-time alert on any attempt to change or connect to Ethernet ports and devices within its network. The ISS can further accommodate and integrate customized external devices, while offering the operator advanced tools and features for simple and intuitive management of all security aspects, maintaining optimal balance between operational & logistical needs.

Features & Benefits

- Real-time situation awareness, enhanced security management and ongoing event monitoring, displaying synchronized video surveillance system integrated with video analytics, PIDS, Laser Sensors, Power Fences, ACS, LPR, alarm panels and controlled gate arrays.
- Optimized balance between security protocols & logistical requirements.
- GIS-based display of the security events, enabling simple and intuitive situation management.
- Remote activation of security means and devices - right from the site map (e.g. doors, locks, sirens, lights etc.).
- Continuous analysis and fusion of information flow from all integrated security modules and devices for synchronized operation.
- Adapted ruling & conditioning of analysis parameters for optimized and automatic operation of security events.
- InSite APP - Complete mirroring of all data and features on mobile devices.
- Unique Cyber Protection features, providing real-time network monitoring and data integrity, providing automatic alert on changes in Ethernet ports of connected devices.
- Customized workflows and reports to ensure and follow security protocols and actions by the operator.



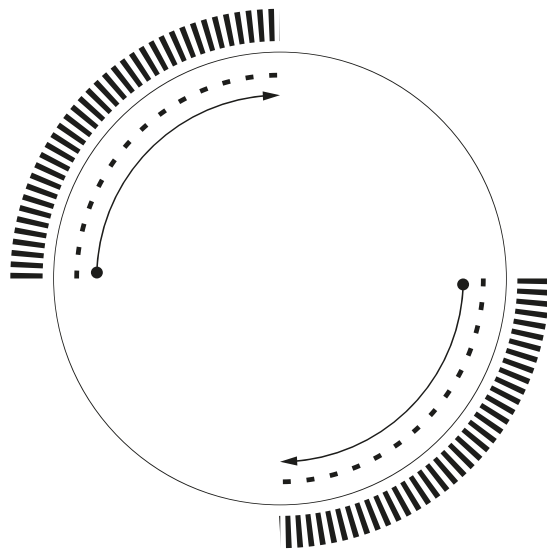


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