

Early Warning and Emergency Alarm system for Nuclear, Biological and Chemical threats

ELPAM Electronics Ltd. provides systems to warn public of Nuclear, Biological and Chemical threats.



The Israeli company ELPAM Electronics offers a comprehensive solution for Nuclear, Biological and Chemical threats, detection and early warning system.

About ELPAM Electronics Ltd.:

The Company's range of operation extends to cover the local and international needs and markets, introducing major electronic technological developments to meet the homeland security challenges (search & rescue).

The Company's Engineering range of capabilities includes the development of the concept, design, integration, installation, maintenance and service.

ELPAM is specialized in the most sophisticated and advanced modern solution covering the fields of Public Warning, Alarm and Control Systems.

Biological and chemical constitute a class of weapons that may cause mass physical destruction and can result in significant mass effects, and / or mass disruption of selected quality targets.

ELPAM took upon itself the task of challenges of Reducing and Detecting These Threats.

In order to minimize the risk to the public, ELPAM designs and produces systems to monitor presence of radioactive substances as well as associated warning systems. The purpose of these systems is to deliver a warning message to all residents of the threatened areas in the event of an emergency. Warning and monitoring systems must be designed to be extremely reliable, resistant, and, particularly, operable even from the physically remote backup control centers, in order to be used in emergency situations when it is necessary to evacuate the Civilians.



Elpam's warning and information systems use Nuclear, Biological and Chemical threats. Early warning and announcing outdoor systems.

The EL3000 high power electronic sirens offered by ELPAM Electronics Ltd.

The EL3000 are acoustic warning systems used to provide warnings in emergency states.

Nuclear and Biological threats: Monitoring, Detection, and Early Warning Systems

A Environmental Monitoring Station.



B ELPAM Electronic Siren:

The EL3000 high power electronic sirens Offered by ELPAM Electronics Ltd. The siren equipped with alternate batteries for the case of outage and solar cells that do not require any external power supply.

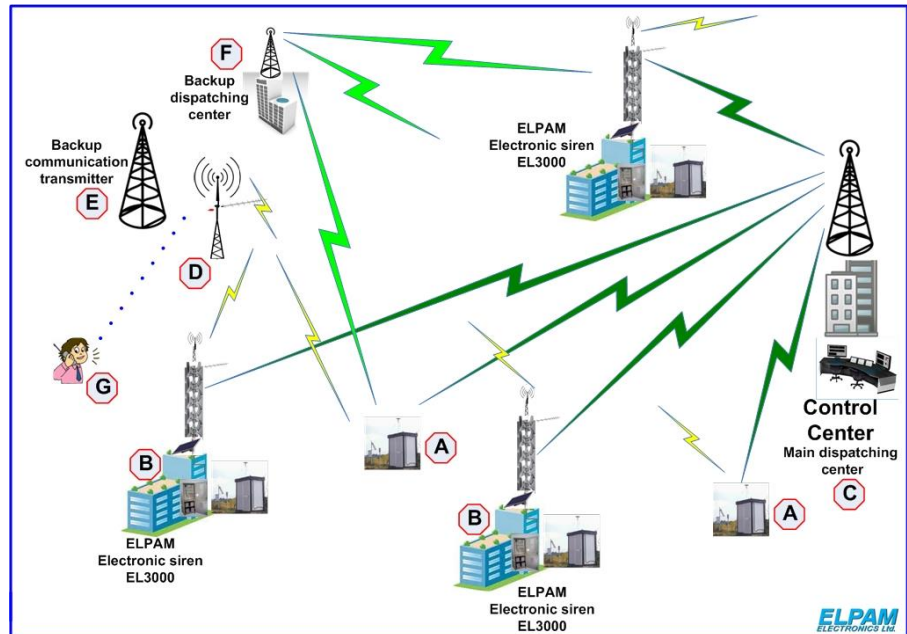
C Main dispatching center.

D Main communication transmitter.

E Backup communication transmitter.

F Backup dispatching center.

G Competent persons to be notified.



EL3000 high power electronic sirens

- Ability to connect local audio signal inputs, including a local microphone or other local signal sources.
- 300 to 3000 Watts of continuous audio power – 103dB(A) to 124dB (A) at 30m.
- Separate class “D” 300W true RMS amplifiers with up to 90% power efficiency.
- Local activation capability.
- Power supply from maintenance-free batteries.
- An RS232 port.
- Enhanced automatic testing routines, including so-called “silent” siren tests, complete functionality tests.
- Different local activation options.
- Different remote activation options.
- Intelligent battery recharging, charging current optimizing based on modern algorithms recommended by manufactures to prolong battery life.
- A stainless steel cabinet.
- Solar operation to keep the batteries charged in applications where AC is not available.
- Microphone for on-site announcements.
- 2 batteries.
- Very low standby power requirements.
- System function surveillance via microprocessor.
- Very High MTBF (Mean Time Between Failures)
- Activation of up to 7 individual alert signals and live PA.
- Built-in tone generator providing for six standard, pre-configured tones
- Weather-proof Siren Horns.
- Modular Siren Head Construction.
- 360° Omnidirectional Sound Propagation.
- Extremely high dB/W sound pressure level.
- Operating Types: Local activation, Remote activation, Activation via remote control panel and Voice announcements.
- Integrated batteries allow operation independent of mains power.
- Local operating unit, including LCD display and keypad.



Environmental Monitoring Station

The Environmental Monitoring Station is based on a modular approach that allows flexibility for customization (through selection of desired instrumentation and/or options) for specific applications in monitoring outdoor Radiation, Biological and Chemical threats. All the Monitoring Station measurement results are displayed and transmitted in both digital and analog forms.

An internal battery provides for power back-up, and several serial communication links are provided.

The control and programming functions can be performed locally as well as from a central computer.



Features and Specifications are subject to change without prior notice