



INTRODUCTION

This system is a Non-Linear Junction Detector for finding hidden electronic devices. The QAEM1 can be used to locate electronic devices whether in furniture, walls, ceiling fixtures or elsewhere. The QAEM1 detects semiconductor junctions to alert in the presence of electronics.

The operation is based on transmitting RF signal and receiving the return harmonic signals from target. This system distinguishes and locates electronic devices by checking the re-emitting power level from target. Target detection independent of the state of electronic device being on or off, is one of the Qaem-1's main advantages. Furthermore, this system has usage in detection of mines and explosives with electronic fuses that are embedded in path or ground. The QAEM is for professional use only.

This system is able to detect and locate all kinds of:

- Telecom transceivers, remote control systems and warning systems.
- Electronic and electromechanical timers.
- Acoustic, magnetic and optical sensors.
- Miniature concealed cameras.

APPLICATIONS

- Detection of surveillance devices - Technical Surveillance Counter Measures.
- High Risk Search Capabilities.
- Detection of remote-controlled detonators.
- Detection of mines and explosive ordnance disposal and counter terrorist applications.
- Search operations in a conventional military context and in aid to the civil power.
- Special application at airports, check points, government buildings, power plants, nuclear zone, police and military zone, oil and chemical zone and religious locations.



COMMUNICATION AND IT

TECHNICAL SPECIFICATIONS

SPECIFICATION	PARAMETER	VALUE
TRANSMITTER	Modulation Type	Pulse
	Frequency Bands	800MHz-1GHz Pulse
	Max. Output Pwr.	500mW ~ 20W
RECEIVER	Sensitivity	Better Than -105dBm
	Confine Dynamic Receiver	Better Than 50dB
MECHANICAL	Antenna Dimension	Cylinder ($\phi=20\text{cm}$, Length=10cm)
	Handel Length	50cm~120cm
	Antenna Weight & Handel	1Kg
	Transmitter & Receiver & Battery Weight	2.5Kg
ALARM UNIT	Display	LED
	Sonic	Headphone
BATTERY	Max. Pwr. Consumption	16W
	Specification Battery	17V , 2Ah, Li-Ion