



INTRODUCTION

This system is a Non-Linear Junction Detector for finding hidden electronic devices. The QAEM2 can be used to locate electronic devices whether in furniture, walls, ceiling fixtures or elsewhere. The QAEM2 detects semiconductor junctions to alert in the presence of electronics.

This operation is based on transmitting RF signal and receiving the return harmonic signals from target. The system distinguishes and locates electronic devices by checking the re-emitting power level from target. Target detection independent of electronic device is on or off, is one of the Qaem-2'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.

APPLICATION

- 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.



TECHNICAL SPECIFICATIONS

SPECIFICATION	PARAMETER	VALUE
TRANSMITTER	Modulation Type	Pulse
	Frequency Bands	800MHz-1GHz Pulse
	Max. Output Pwr.	20W~400W Pulse
RECEIVER	Sensitivity	Better Than -105dBm
	Confine Dynamic Receiver	Better Than 50dB
	Max. Detection Range	15m
MECHANICAL	Antenna Dimension	Cylinder ($\phi=30\text{cm}$, Length=15cm)
	Antenna Weight	1Kg
	Transmitter & Receiver & Battery Weight	2.5Kg
ALARM UNIT	Display	LED
	Sonic	Headphone
BATTERY	Max. Pwr. Consumption	20W
	Specification Battery	53V, 2Ah, Li-Ion