



# Multi and Mono-Guard™

## 58 kHz AM Electronic Article Surveillance Systems

### Overview

The Multi-Guard and Mono-Guard are software driven EAS systems that detect 58 kHz AM (Acousto-Magnetic) tags and labels that enter their detection field. These unique systems use digital signal processing (DSP) that feature self-tuning and laser technology. They are today's most advanced 58 kHz AM pedestal systems.

These systems are fully digital, software driven, and by using the latest in DSP technology to constantly check the environment, self-adjust to optimize performance, eliminating false alarms and minimizing the need for service calls.

The pedestals are designed for fast and efficient 'plug and play' installation. The system's default settings can meet the commissioning requirement more than 70% of the time. These settings can be adjusted on-site by using a handheld remote control and when combined with the easy decision tree process, can be used to make service adjustments.



Multi-Guard 58 kHz AM System

### Key Features and Benefits

- Self tuning electronics
- Detection range of up to 2.1 metres (7 feet)
- 'Plug and play' easy installation
- Digital signal processing
- Software driven – easy to upgrade
- System is constructed of strong, light ABS moulding
- Compatible with all 58 kHz hard and soft (AM) tags

### DETECTION DISTANCE

Invotech Tags	Mono-Guard	Multi-Guard
Description	Detection	Detection
Midi Pencil Tag	1.1 m (3.5 ft)	1.8 m (6.0 ft)
Super Pencil Tag	1.2 m (4.0 ft)	2.1 m (7.0 ft)
Shell Tag	1.1 m (3.5 ft)	1.8 m (6.0 ft)
Eyeglass Tag	0.9 m (3 ft)	1.7 m (5.5 ft)
ADT/Sensormatic® Tags		
Super Tag	1.1 m (3.5 ft)	1.8 m (6.0 ft)
Ultra Gator	1.1 m (3.5 ft)	1.8 m (6.0 ft)
DR Label	1.0 m (3.25 ft)	1.8 m (6.0 ft)
LE Label	0.7 m (2.3 ft)	1.4 m (4.5 ft)



Installation of Mono-Guard  
Virgin Megastores  
Fulham Broadway, UK

### SPECIFICATIONS

#### Receiver

Inputs: 2 ports

Operating Frequency: 58 kHz

#### Transmitter

Operating Frequency: 58 kHz

Transmit Burst Duration: 1.6ms

Burst Rate (50Hz): 37.5 Hz

Burst Rate (60Hz): 45 Hz

#### Alarm

Output Port Relay: Normally Open

Contact Switching Current: 1A

Contact Switching Voltage: 120vac

#### Regulatory

CE, FCC, UL

#### Electro-Mechanical

Dimensions per Pedestal (HxW)

1470 x 440 mm (58 x 15.5 inch)

Voltage: 100-120 vac or 200-240vac @ 50/60Hz

Current Draw: 0.5/0.25A

Input Power: 55W

#### Combined Weight

Multi-Guard: 14 kg (31 lbs)

Mono-Guard: 8 kg (18 lbs)

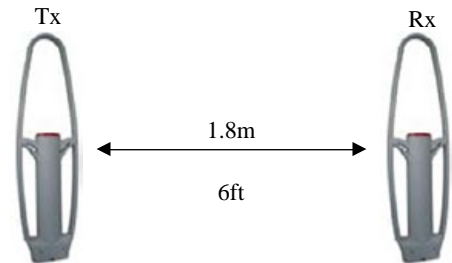
#### Environmental

Ambient Temperature: 0 - 30°C (32 - 86°F)

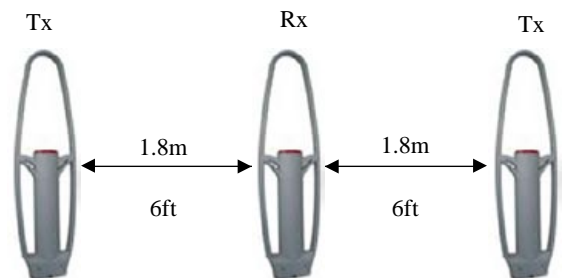
Relative Humidity: 90% Non-condensing

### Multi-Guard

#### Single Multi-Guard

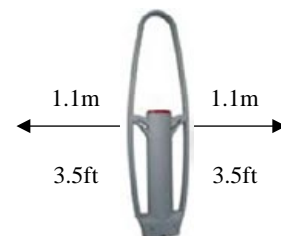


#### Split Multi-Guards



### Mono-Guard

#### Single Mono-Guard



#### Three Mono-Guards



### CONTACT INFORMATION

For more information

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