

# MX794i Long Range Multiplex PIR Detector

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The MX794i is a PIR intrusion detector that provides a variety of coverage patterns through the use of interchangeable mirror modules. It is designed to connect to the Multiplex Bus of a control panel and optionally to an auxiliary 12 VDC power source. It is compatible with DS7400, DS7400X, or DS7400Xi Series Control Panels, with a DS7430 or DS7436 Multiplex Expansion Module, or with GV2 and G Series Control Panels with a D8125MUX Module installed.



## Notice

The DS7400 and DS7400X require ROM version 1.07 or greater.

## Functions

### Interchangeable, Pointable Mirrors

The detector comes with a standard broad pattern mirror and two optional mirrors are available: a long-range pattern mirror and a barrier pattern mirror. To change the mirror, just pull it out from its resting grooves. The mirrors are adjustable from +1° to -18° vertically by sliding the mirror forward or back and ±10° horizontally by rocking the mirror side to side.

- ▶ Interchangeable mirror modules
- ▶ Mounting bracket supplied
- ▶ Selectable sensitivity
- ▶ Built-in tamper switch

### Selectable sensitivity

Selectable for Standard, Intermediate or High:

- **Standard:** Tolerates environment extremes on this setting. Not recommended for OA200 coverage.
- **Intermediate:** The recommended setting for OA200 coverage or for locations where an intruder is expected to cover only a small portion of the protected area. Tolerates normal environments on this setting.
- **High:** The setting for fast response to intruder signals. For use in quiet environments where thermal and illumination transients are not anticipated.

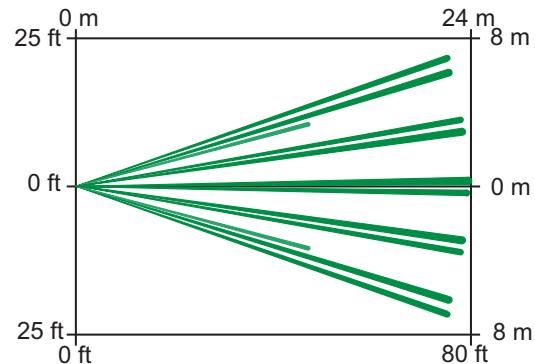
### Internal Tamper Switch

The internal tamper switch sends a signal to the panel's Multiplex Bus for display at the keypads when the detector's cover is removed.

## Certifications and approvals

Region	Certification	Details
Europe	CE	89/336/EEC, EN55022: 1998, EN50130-4: 1995, EN60950: 2000, EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11
USA	UL	ANSR: Intrusion Detection Units (UL639)

## Installation/configuration notes



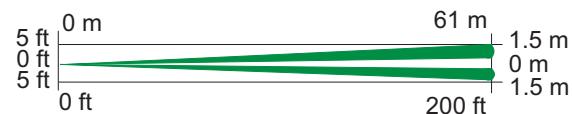
### Top View

A80 Mirror Module: 24 m x 15 m (80 ft x 50 ft)



### Side View

A80 Mirror Module: 24 m x 15 m (80 ft x 50 ft)



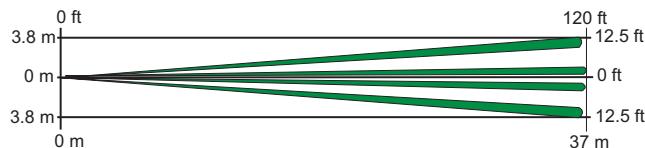
### Top View

A200 Mirror Module: 61 m x 3 m (200 ft x 10 ft)



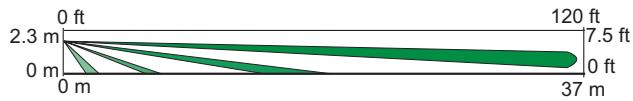
### Side View

A200 Mirror Module: 61 m x 3 m (200 ft x 10 ft)



### Top View

Optional A120 Mirror Module: 37 m x 8 m (120 ft x 25 ft)



### Side View

Optional A120 Mirror Module: 37 m x 8 m (120 ft x 25 ft)

### Coverage Information

The recommended mounting height is:

- 3.1 m (10 ft) for the A200 mirror
- 2.3 m (7.5 ft) for the A80 and A120 mirrors

### Mounting Considerations

The detector may be surface or corner mounted, but use of the B334 Mounting Bracket (included) is strongly recommended. Because variations exist in the surfaces of most mounting walls, most units are not mounted at perfect angles to the floor or walls. This may cause the pattern to point away from the "ideal" direction. To ensure proper catch performance, mounting the detector on a bracket permits the flexibility needed to adjust the direction of the coverage pattern.

Misalignment of the detector when using an optional mounting bracket might reduce the range and increase dead zones.

### Wiring

Do not use shielded cable. Use wire no smaller than 0.8 mm (#22 AWG) to connect the detector to the control panel.

## Technical specifications

### Environmental Considerations

Temperature (Operating):	-29°C to +49°C (-20°F to +120°F). For UL Listed Requirements, the temperature range is 0°C to +49°C (+32°F to +120°F).
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### Power Requirements

#### Current Draw (2-wire):

LED Off:	< 350 µA draw on mux bus
In Alarm; LED On:	2 mA draw on mux bus

#### Current Draw (4-wire):

LED Off:	< 350 µA draw on mux bus, 0 mA draw on Aux. power
In Alarm; LED On:	< 350 µA draw on mux bus, 3 mA draw on Aux. power

#### Standby Power:

There is no internal standby battery. Connect to DC power sources capable of supplying standby power if primary power fails. For each hour of standby time needed, 350 µAh are required. For UL Listed Requirements, 1400 µAh (4 hrs.) minimum is required.

#### Voltage (Input):

12 VDC from panel's mux bus and optionally from an auxiliary power supply.

## Ordering information

### **MX794i Long Range Multiplex PIR Detector**

Provides a variety of coverage patterns through the use of interchangeable mirror modules

Order number **MX794i**

### **Accessories**

#### **OA120-2 Mirror**

A 36.5 m (120 ft) optical array module. Shipped in packages of two.

Order number **OA120-2**

#### Represented by:

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