

# Detectors

passive infrared receiver

# Magnum Ultra

COMMERCIAL / RESIDENTIAL

## Dual Element PIR Detector

### Main Features

- Dual Element Pyro-electric Sensor
- Volumetric coverage adjustable up to 15m
- Horizontal curtain coverage adjustable up to 15m
- Corridor coverage adjustable up to 30m
- Patented Independent Floating Thresholds (IFT)
- Adjustable sensitivity settings
- Automatic Temperature Compensation
- Multi-Angular LED Indication
- Sealed Optics
- EB1 Bracket included
- ABS Plastics



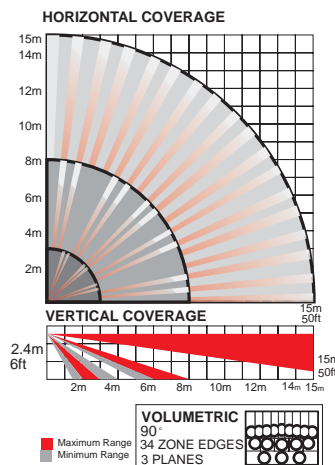
### Product Features

Features	Description	Benefits
Patented Independent Floating Thresholds (IFT)	This technology patented by Pyronix allows the detector to respond to the environmental changes by automatically adjusting its levels of immunity to background disturbances.	Greater stability, reduces risk of false alarm activations
Adjustable sensitivity settings	High sensitivity for use in areas where fast detection is required. Adjustable sensitivity settings for installations in a more hostile environment.	Ensures suitability for most environments
Automatic Temperature Compensation	When the product is used in a hot environment this technology automatically adjusts the detectors sensitivity allowing it to retain its range even when the external temperature equals the external body temperature of 32°C	Guarantees optimum performance at all times
Multi-Angular LED Indication	A clear plastic pipe channels the light from the LED to the face of the detector making the LED indication highly visible from a multitude of angles.	Enables walk testing to be undertaken with ease and accuracy ensuring the detector covers the desired area.
Sealed optics	Protects from possible infestation from insects, shields air movement in front of the pyro-electric sensor and protects against adverse reflections from inside the detector housing.	Enhances the focus of the pyro-electric sensor
EB1 Bracket included	Economy bracket included for wall or ceiling mounting. Professional bracket also available.	Allows ease of installation
ABS Plastics	3mm polished finish, reduces electrostatic interference on the PIR sensor.	Easy to clean, retains white finish.

### Lens Coverage

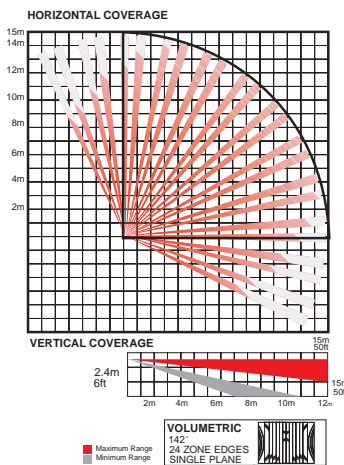
#### Supplied

#### Lens 1 - Volumetric

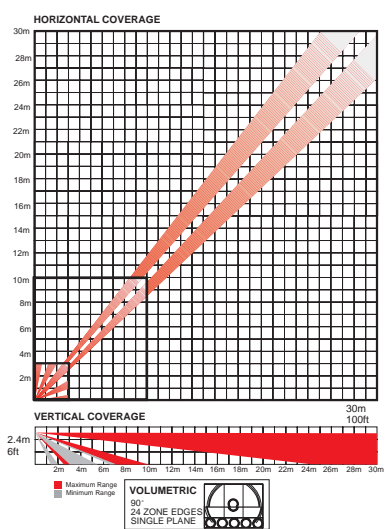


#### Optional

#### Lens 3 - Horizontal Curtain



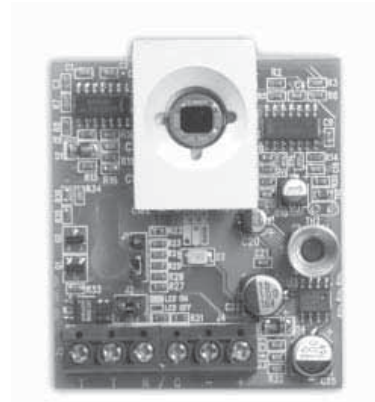
#### Lens 4 - Corridor (Long Range)



Detectors

## Pyronix Dual Element

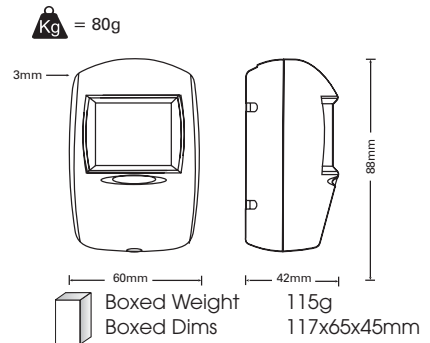
The Magnum Ultra has a pyro-electric sensor containing two sensing elements and when projected through a lens form zones as illustrated on the right. In order for an alarm to be triggered one or more of these zones would need to be crossed.



### Technical Specification

ELECTRICAL	
Operating Voltage	9 - 16VDC (12v nominal)
Current Consumption - No Alarm State	11mA (12V nominal)
Current Consumption - Alarm State	13mA (12V nominal)
Relay	Solid State
Relay Output	60VDC, 50mA, Protected
Tamper Switch	12V max, 50mA max
RFI Immunity to Continuous Wave (CW) 10-1000MHz	50V/m
RFI Immunity to Amplitude Modulation (AM) 10-1000MHz	20 V/m
RFI Immunity to Pulse Modulation (PM) 10-1000MHz	20 V/m
OPERATING FEATURES	
Alarm period of	2.5 seconds
Detection Speed	0.3 - 3m/s
Operating Temperature	-30°C to +70°C
Storage Temperature	-40°C to +80°C
OPTICAL	
White Light Filter	6500 Lux
Optics	Sealed
Lens	Fresnel array, 'Grooves in' infrared compensated
Protection	Ultraviolet Light Filter
Tilt Adjustment	0° - 12°
MOUNTING	
Optimum Coverage Height	1.8-2.4m

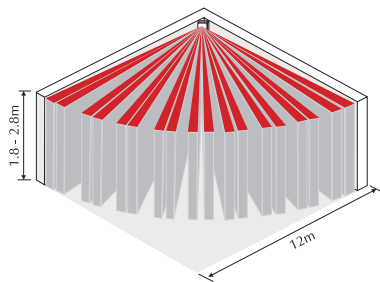
### Weights & Dimensions



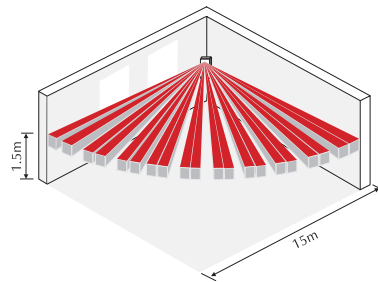
## Applications

Features	Applications
Lens library	A selection of lenses are available as detailed below, ensuring that Magnum Ultra is the ideal choice for a variety of applications.

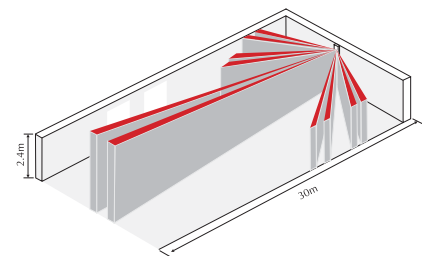
### Volumetric



### Horizontal Curtain



### Corridor (Long Range)



COMPLIANCE		PYRONIX PRODUCT CODE
Europe	CE	FP05802
Belgium		FP05871
China		FP05802CN
Denmark	F&P	FP05802
Russia		FP05802
Italy		FP5802

PACKING INFORMATION	ACCESSORIES	PYRONIX PRODUCT CODE
Min Pack:	50	PB2bracket
Pack Weight:	5.6kg	Lens 3
Warranty:	5 Years	Lens 4
Manufactured:	UK	

For use in EN50131-1 Systems - Environmental Class 2 Security Grade 2

As part of the continued development programme  
specifications may change.

Matrix, PCX, Sterling, Vocaliser, KX, Colt, ME, Magnum, Kudos, Octopus,  
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