# VE1012PI

**Détecteur de mouvement IRP, tolérance aux animaux, technologie V²E, 12 m, DSP, 9 rideaux**

## The power of mirror

GE Security motion sensors have the most advanced and sophisticated optics in the security industry. This unique optical mirror technology is a step and gliding focus, which creates a continuous curtain resulting in a sensor that never loses track of the object.
To increase detection coverage, the 1000 series sensors use the 3Brid orthogonal curtain design. This is a horizontal mirror structure that produces curtains with vertical orientation to detect infrared. This orthogonal invention is the key in adding curtains to the mirror without sacrificing signal strength, nor increasing the size of the sensor.

## Patented Vector pyro

Infrared signals are captured by the pyro-electric sensor that is placed in the detectors' focal point. The conventional pyro generates a one-dimensional signal (value) to detect the presence of a source, and therefore its detection probability within the area is entirely determined by the resolution of the optics of the motion detector.
Due to the unique construction of the patented Vector pyro, a thermal source will generate a multi-dimensional signal (vector), allowing the pyro to determine not only the presence but also the direction of motion of a thermal source. This now means that the detection probability is equal to the product of the resolution of the optics and the multi-dimensional output of the pyro. This is a major advance in PIR technology capability.

## V2E signal processing

The VE series of motion detectors incorporate a patented Vector Verified Enhanced (V2E) signal processing.  Each type of signal source will generate a unique vector output captured by the Vector pyro. The digital signal processing will analyze each vector's shape and pattern, allowing it to distinguish different signal sources.  It means that VE series motion sensors will not only identify non-thermal signal sources, but also filter out any potential nuisance signals such as stationary thermal sources, ventilators or strong light sources, and react only to alarm signals from intruders. PIR motion sensor with vector pattern recognition is unique to KGS .

## Easy to install

PIRs of the 1000 series are the most rewarding sensors to install:
1. Tolerate wall angle deviation and different mounting heights.
2. Limited loss of coverage when objects are placed in the field of vision.
3. No range setting is required thanks to constant range sensitivity.
4. Plug-in electronics.

## Complete family

The 1000 series are part of the KGS  range of motion sensors. This family includes motion sensors with variants in housing size, detection range, anti-masking, dual detection technology, addressable interfacing, wireless transmission and more. This range covers all



## Détails

- Détecteur de mouvement IR Passif
- 3Brid rideau orthogonal
- Plug-in électronique
- Optique scellée
- Traitement de signal V²E pour immunité aux fausses alarmes
- Tolérance aux animaux jusqu'à 15kg
- Détection d'exploration compléte
- Zone de couverture sélectionnables en utilisant des masques miroir
- Miise au point automatique avec une gamme de sensibilité constante
- Aucun réglage n'est requis pour les différentes hauteurs de montage
- Tolère l'écart d'angle de mur
- EN50131-2-2 Grade 2 certifié
- Plusieurs approbations européennes en cours

applications where security needs to be safeguarded.
The consistent family aesthetics between the various models ensure a professional approach when installing different sensor types.

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## Spécifications techniques

### General

| | |
|---|---|
| Technology | PIR |
| Application type | Wall mount |
| Anti masking | No |
| Pet immune | Yes |
| Camera | No |
| Signal processing | Vector Verified Enhanced (VE2) |
| Pry-off tamper kit | ST400 (optional) |

### Detection

| | |
|---|---|
| Max. detection range | 12 m |
| Detection range | 12 m |
| Undercrawl protection | Yes |
| Alarm memory | No |
| Alarm time | 3 s |

### Wired/wireless

| | |
|---|---|
| Wired-wireless | Wired |

### Inputs/outputs

| | |
|---|---|
| Relay configuration | Isolated or 4k7 EOL |
| Remote control lines | Walk test |

### Physical

| | |
|---|---|
| Colour | White |
| Mounting height | 2.3 to 3 m |

### Environmental

| | |
|---|---|
| Environment | Indoor |

### Regulatory

| | |
|---|---|
| EN50131 grade | Grade 2 |



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