### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>VXS-AM (W)</th>
<th>VXS-DAM (W)</th>
<th>VXS-RADAM (W)</th>
<th>VXS-RDAM (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Detection area</strong></td>
<td>Passive Infrared</td>
<td>Passive Infrared &amp; Microwave</td>
<td>Passive Infrared</td>
<td>Passive Infrared &amp; Microwave</td>
</tr>
<tr>
<td>PR Coverage</td>
<td>12 m (39.4 ft) / 10 m (32.8 ft)</td>
<td>12 m (39.4 ft) / 10 m (32.8 ft)</td>
<td>10 m (32.8 ft)</td>
<td>10 m (32.8 ft)</td>
</tr>
<tr>
<td>PR detection limit</td>
<td>2.5 to 12 m (8.2 to 39.4 ft)</td>
<td>2.5 to 12 m (8.2 to 39.4 ft)</td>
<td>2.5 to 12 m (8.2 to 39.4 ft)</td>
<td>2.5 to 12 m (8.2 to 39.4 ft)</td>
</tr>
<tr>
<td>Detection method</td>
<td>Passive Infrared &amp; Microwave</td>
<td>Passive Infrared &amp; Microwave</td>
<td>Passive Infrared &amp; Microwave</td>
<td>Passive Infrared &amp; Microwave</td>
</tr>
<tr>
<td>Detection speed</td>
<td>0.2 to 3.5 m/s (0.66 to 11.5 ft/s)</td>
<td>0.2 to 3.5 m/s (0.66 to 11.5 ft/s)</td>
<td>0.2 to 3.5 m/s (0.66 to 11.5 ft/s)</td>
<td>0.2 to 3.5 m/s (0.66 to 11.5 ft/s)</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>5.0 x 10^6 to 10^9 m/s²</td>
<td>5.0 x 10^6 to 10^9 m/s²</td>
<td>5.0 x 10^6 to 10^9 m/s²</td>
<td>5.0 x 10^6 to 10^9 m/s²</td>
</tr>
<tr>
<td>Power input</td>
<td>24 mA max. at 12 V DC</td>
<td>24 mA max. at 12 V DC</td>
<td>24 mA max. at 12 V DC</td>
<td>24 mA max. at 12 V DC</td>
</tr>
<tr>
<td>Alarm period</td>
<td>2.0 ± 0.1 sec</td>
<td>2.0 ± 0.1 sec</td>
<td>2.0 ± 0.1 sec</td>
<td>2.0 ± 0.1 sec</td>
</tr>
<tr>
<td>Tamper input</td>
<td>N.C. / N.O. Selectable Switch 10 V DC 0.1 A max.</td>
<td>N.C. / N.O. Selectable Switch 10 V DC 0.1 A max.</td>
<td>N.C. / N.O. Selectable Switch 10 V DC 0.1 A max.</td>
<td>N.C. / N.O. Selectable Switch 10 V DC 0.1 A max.</td>
</tr>
<tr>
<td>Temperature</td>
<td>-20°C to +60°C (-4°F to +140°F)</td>
<td>-20°C to +60°C (-4°F to +140°F)</td>
<td>-20°C to +60°C (-4°F to +140°F)</td>
<td>-20°C to +60°C (-4°F to +140°F)</td>
</tr>
<tr>
<td>Temperature</td>
<td>-4°C to +4°C (-4°F to 39.2°F)</td>
<td>-4°C to +4°C (-4°F to 39.2°F)</td>
<td>-4°C to +4°C (-4°F to 39.2°F)</td>
<td>-4°C to +4°C (-4°F to 39.2°F)</td>
</tr>
<tr>
<td>Environment humidity</td>
<td>95% max.</td>
<td>95% max.</td>
<td>95% max.</td>
<td>95% max.</td>
</tr>
<tr>
<td>International protection</td>
<td>IP55</td>
<td>IP55</td>
<td>IP55</td>
<td>IP55</td>
</tr>
<tr>
<td>Mounting</td>
<td>Wall, Pole (Indoor)</td>
<td>Wall, Pole (Indoor)</td>
<td>Wall, Pole (Indoor)</td>
<td>Wall, Pole (Indoor)</td>
</tr>
<tr>
<td>Mounting height</td>
<td>199.3 (7.85)</td>
<td>199.3 (7.85)</td>
<td>199.3 (7.85)</td>
<td>199.3 (7.85)</td>
</tr>
<tr>
<td>Weight</td>
<td>500 g (17.6 oz.)</td>
<td>500 g (17.6 oz.)</td>
<td>500 g (17.6 oz.)</td>
<td>500 g (17.6 oz.)</td>
</tr>
<tr>
<td>Weight</td>
<td>81.6 (3.21)</td>
<td>81.6 (3.21)</td>
<td>81.6 (3.21)</td>
<td>81.6 (3.21)</td>
</tr>
</tbody>
</table>

### Side View

- **Position 1:** Approx. 12 m/40 ft (Default)
- **Position 2:** Approx. 8.5 m/28 ft
- **Position 3:** Approx. 6.0 m/19.7 ft
- **Position 4:** Approx. 5.5 m/17.7 ft
- **Position 5:** Approx. 5.0 m/16.4 ft

### Table of Detection Distance by Positions

<table>
<thead>
<tr>
<th>Position</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12 m</td>
</tr>
<tr>
<td>2</td>
<td>8.5 m</td>
</tr>
<tr>
<td>3</td>
<td>6.0 m</td>
</tr>
<tr>
<td>4</td>
<td>5.5 m</td>
</tr>
<tr>
<td>5</td>
<td>5.0 m</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>1290.5</td>
<td>930.0</td>
<td>841.9</td>
</tr>
</tbody>
</table>

### PIR Coverage

- **Position 1:** Approx. 8.5 m/28 ft
- **Position 2:** Approx. 6.5 m/21.3 ft
- **Position 3:** Approx. 5.5 m/18 ft
- **Position 4:** Approx. 4.5 m/14.8 ft
- **Position 5:** Approx. 3.5 m/11.5 ft

### Accessories

- Screw (4 x 20 mm) x 2
- Masking seal x 3

### Options

- **PLUG-IN KDJ (PEU)**
- **VXS face cover (White / Silver / Black)**
- **VXS option cover unit (Black / White)**
- **BATTERY BOX (RBS-01)**

### Additional Information

- **Battery included:** (1/2 AA battery in series) 1/2AA x 6 (7.2 V DC x 3)*, 1/2AA x 3 (3.6 V DC), CR123A x 3 (3.0 V DC)
- **Battery not included.**

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* Specifications and designs are subject to change without prior notice.
* These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.

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*Copyright (C) 2016 OPTEX CO., LTD.  No.77087-17378-01-1703*
**Reliable**

12 m / 40 ft Wide and Triple Layer Detection Area

**PIR DETECTOR with anti-masking**

VXS-AM (wired model), VXS-RAM (battery operated model)
Active IR anti-masking detects covering objects on lens surface when monitoring of the detector status is required.

**PIR / MW DETECTOR with anti-masking**

VXS-DAM (wired model), VXS-RDAM (battery operated model)
Integrated algorithm of both PIR and Microwave provides the ultimate stability in detection performance. In a field where strong sun hits the land or facing direct light beams from traffic, DAM/RDAM offers higher false alarm immunity.

**Digital Triple Layer Detection**

Both the upper/lower PIR detection areas and MW detection area must simultaneously be crossed to generate an alarm. Each activation is independently analyzed so that spurious events can be filtered and ignored. This technology virtually eliminates nuisance detection of smaller animals in the premises.

**SMDA (Super Multidimensional Analysis) logic**

All VXS models are equipped with a digitally enhanced signal recognition logic called SMDA. By analyzing detection patterns and environmental information, SMDA improves immunity against various noise factors such as climate changes and vegetation sways, and can distinguish between the cause of nuisance false alarms and genuine intrusions.

**Convenient**

Optional Color Variation Easy Operation and Setting

**Easy to install and set-up**

55° degrees rotation rotate Easy to open / close cover
Blue components Easy to recognize where to touch
Easy to adjust the detection area

**Automatic Walk Test Mode**

Walk test mode starts when closing the cover.
Walk test mode expires 3 minutes and return to Normal mode.

**5 Types of Area Masking Seals**

Pre-cut masking seals are included in all packages.

- Black cover / Black body
- Silver cover / Black body
- White cover / Black body
- White cover / White body

**Product Features**

**Battery life for the battery-operated models**

<table>
<thead>
<tr>
<th>Model</th>
<th>VXS-RAM</th>
<th>VXS-RDAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery mode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CR123A</td>
<td>6 years</td>
<td>5 years</td>
</tr>
<tr>
<td>CR2</td>
<td>5 years</td>
<td>3 years</td>
</tr>
<tr>
<td>1/2AA x 3</td>
<td>3 years</td>
<td>3 years</td>
</tr>
<tr>
<td>1/2AA x 6</td>
<td>6 years</td>
<td>4 years</td>
</tr>
</tbody>
</table>

Calculation based on: single type of battery, no power sharing with the transmitter, LED off and anti-masking on.

**Multipurpose Back Box for VXS-RAM / VXS-DRAM only**

BATTERY BOX (RBB-01)

*Battery not included.

12V DC x 3 (3.0 V DC)
10V DC x 3 (3.0 V DC)
5V DC x 3 (3.0 V DC)

6 years 5 years 4 years 3 years

**EOL Module Socket (VXS,AM,DAM only)**

Optional EOL (End of line) resistor modules are available.

**SHIELD Housing**

IP55 Protection
UV Resistant ASA Body

**Versatile design**

- Black cover / Black body
- Silver cover / Black body
- White cover / Black body
- White cover / White body

**Web based manual for wired models**

http://navi.optex.net/manual/50105

**Web based manual for battery operated models**

http://navi.optex.net/manual/50109

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**Basic common features**

- Double Conductive Shielding
- Area Masking Seals
- Sensitivity Adjustment Switch
- Cover Tamper
- Battery saving timer

**Wide optical lens creates the atmosphere that the premises are protected.**

**Smooth surface matches the wall.**

**Robust and weather proof housing.**

**Secure**

A sense of security Designed for you

**SHIELD: the new shape of security**

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