1. Overview

The MP-902 PG2 is a smart, wireless outdoor curtain PIR detector with anti-masking. It is supported by the PowerMaster alarm system and uses PowerG two-way communication protocol.

The detector has the following features:

- Two channel Pyro (patented) thermal sensor output
- Microprocessor-controlled temperature compensation
- White light protection
- Adjustable pet immunity selector with three options: no pet, a small pet weighing less than 3 kg or 6.6 lb, or a pet weighing less than 18 kg or 40 lb.
- Adjustable detection sensitivity
- Parabolic and elliptical optics (patented)
- Target Specific Imaging™ (TSI) technology distinguishes between humans and pets weighing up to 18 kg or 40 lbs
- True Motion Recognition™ algorithm (patented) distinguishes between the true motion of an intruder and any other disturbances which may cause false alarms.
- Cross-direction detection: both directions, left to right, and right to left.
- Active smart anti-masking ability recognizes spray and dust (patented)
- No vertical adjustment is needed.
- Long-life battery which is due to the ultralow current consumption
- Front and back tamper protection (patented)
- Supports temperature and light level reports according to the PowerMaster panel version

Note: For UL installations, only use the device with UL listed control units.

2. Installation advice

Qualified service persons only can install the MP-902 PG2. Before you install the device, consider the following points:

Do:

- Install the MP-902 PG2 according to the Standard for Installation and Classification of Burglar and Holdup Alarm Systems, UL 681.
- Mount the detector so that the expected movement of the intruder will cross the PIR beam.
- Mount the device upright. See Figure 2.
- Direct the detector at a stable surface, such as a wall or fence, to provide a curtain detection boundary for better detection.
- Mount the device at a height that agrees with your pet immunity preference. See Setting the pet immunity for more information.
- Consider weather conditions that can trigger false alarms, such as moving tree branches or leaves, and other related environmental conditions.
- Locate the device at least 20 cm from all persons during normal operation to comply with FCC and ISED Canada RF exposure compliance requirements.

Do not:

- Install the device over sloped ground. See Figure 3.
- Install the device close to tree branches as weather conditions can cause. movement, resulting in false alarms.
- Install the device in hazardous locations.
- Install the device in areas with a pollution degree higher than pollution degree 2.
- Install the device in circuits above overvoltages category II.
- Obscure the field of view of the detector.
- Co-locate or operate the antennas used for this product in conjunction with any other antenna or transmitter.
- Mount the device on surfaces where surface vibration can occur.
Notes:

- PIR beams extend past the set range coverage distance if you direct the detector at an open space.
- To calibrate the detector sensitivity to identify persons more accurately, set the detector detection range. For more information, see Configuring the detector parameters.
- To protect a window, mount the detector on an upper corner of the window frame so that the PIR beams are parallel with the glass pane.
- In rare cases, an extreme change in environmental light can cause a false anti-masking alert. If the anti-masking feature does not automatically reset after ten minutes, disable and then enable the anti-masking setting. For more information, see Outdoor anti-mask in Modifying the MP-902 PG2.

3. Mounting the MP-902 PG2

To mount the MP-902 PG2, complete the following steps:

1. Use the uppermost and middle holes in the device bracket to mark two holes on the mounting surface. See Hole Number 1 and Hole Number 2 in Figure 4.
2. Optional: To avail of tamper protection, use the bottommost hole in the break-away segment of the bracket to mark a third hole on the mounting surface. See Hole Number 3 in Figure 4.
3. Drill the required holes in the mounting surface according to the markings and insert the wall plugs. See Figure 5.
4. Fasten the bracket to the mounting surface with screws. See Figure 6.
5. Insert the batteries into the detector and close the battery cover. For more information, see Inserting or replacing the batteries.
6. Insert the top of the detector into the bracket. As you insert the detector, choose a slot in the bracket that positions the detector to cover the area that requires protection. See Figure 7 and Figure 8.

Note:

- When you complete Step 6, a blinking LED indicates the start of the tamper self-calibrating procedure.
- When the detector is resting on the unscrewed bracket, it can be rotated freely to a more exact final position. See Hole Number 1 in Figure 9.
- While the LED is blinking, tighten the bottom screw to close the bracket. See number 2 in Figure 9.

Note: If the yellow LED stops blinking before the screw is tightened adequately, remove the detector from the bracket and wait three seconds. Repeat Step 6 to start the self-calibrating procedure.

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**Figure 4:** Marking the screw holes  
**Figure 5:** Drilling the screw holes  
**Figure 6:** Fastening the bracket  
**Figure 7:** Rotation slot  
**Figure 8:** Sloting into the device  
**Figure 9:** Closing the bracket
4. Enrolling the MP-902 PG2

To enroll the MP-902 PG2, from the INSTALLER menu, select 02:ZONES/DEVICES, and complete the steps in the following procedure:

Notes:
- Use only in conjunction with UL/ULC listed control panels for UL/ULC listed installations.
- If you enroll the MP-902 PG2 in PowerMaster panels with version 19.4 or lower, the detector enrolls as an outdoor PIR motion detector. The device enrolls in the panel with the device ID, 130-xxxx, and the name, Motion Outd. .

1. Select ADD NEW DEVICES.
2. When the panel displays ENROLL NOW or ENTER ID:xxx-xxxx, enroll the device with one of the following methods: pull the enrollment tab or insert the batteries to power on the device and start the auto-enrollment process.
   Note: If the device does not automatically enroll, press the enrollment button or enter the device ID:xxx-xxxx in the panel. The device ID is printed on the label.
3. To change the device number, click the arrow button or type the zone number.
4. To configure the location, zone type, and chime parameters, select Z0x.LOCATION, Z0x.ZONE TYPE, and Z0x.SET CHIME, and continue to configure the device.
5. From the MODIFY DEVICES menu, select PARTITIONS.
6. Enter the partition numbers you want to assign the device to with the keypad.
   Note: You can assign a single partition, or multiple partitions.

Notes:
- After you enroll the detector, you can configure the detector parameters and assign partitions. See Configuring the detector parameters for more information.
- The PARTITIONS option appears only if the panel supports partitioning and the feature was enabled prior to this procedure. For more information, refer to Partitioning in the PowerMaster installation guide.

5. Configuring the detector parameters

5.1. Modifying the MP-902 PG2

To modify the MP-902 PG2, enter the DEVICE SETTINGS menu and follow the configuration instructions as described in Table 1.

Table 1: Modifying the device

<table>
<thead>
<tr>
<th>Option</th>
<th>Configuring instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm LED</td>
<td>Activate or deactivate the alarm LED indication. Optional settings: LED ON (default) and LED OFF.</td>
</tr>
<tr>
<td>PIR range</td>
<td>Select one of the three ranges, according to your installation preference. See Setting the detector range.</td>
</tr>
<tr>
<td>Outdoor anti-mask</td>
<td>Enable or disable the outdoor anti-masking feature. Optional settings: Disabled (default) and Enabled.</td>
</tr>
<tr>
<td>Alarm hours</td>
<td>Set the motion detector to alarm always or only when it is dark. Note: For UL/ULC installation, only use the alarm hours feature for night protection as a supplement to the protection already covering the area. Optional settings: Day and night (default) and Night only.</td>
</tr>
<tr>
<td>Alarm direction</td>
<td>Define the detection direction. The alarm direction function can reduce the probability of false alarms by more than half when the detector is protecting a door or a gate. With this function, the device can differentiate between property inhabitants exiting and potential intruders entering the premises. Note: This feature is only available in PowerMaster panels version 20.2 and higher. Optional settings: Both (default), Left to right, Right to left. See Figure 10 for the alarm direction diagram. In Figure 10, Number 1 shows a Right to left detection pattern and Number 2 shows a Left to right detection pattern. The right and left directions refer to the point of view of the installer while observing the detector in its fixed position.</td>
</tr>
<tr>
<td>VERY HOT &gt;35°C (&gt;95°F)</td>
<td>Define whether or not the control panel reports a VERY HOT alert when the temperature rises above the threshold value for at least the duration of time specified in the alert delay value. The alert restore occurs when the temperature drops 1°C or 1.8°F below threshold for at least the duration of the restore delay value. Note: The default threshold value for VERY HOT is 35°C or 95°F. The default alert delay value and the default restore delay value is 10 minutes. Optional settings: See Table 2.</td>
</tr>
</tbody>
</table>
COLD <19°C (<66°F)* Define whether or not the control panel reports a COLD alert when the temperature drops below the threshold value for at least the duration specified in the alert delay value. The alert restore occurs when the temperature rises 1°C or 1.8°F above the threshold value for at least the duration of the restore delay value.
Note: The default threshold value for COLD is 19°C or 66°F. The default alert delay value and default restore delay value is 10 minutes.
Optional settings: See Table 2.

FREEZING <7°C (<45°F)* Define whether or not the control panel reports a FREEZING alert when the temperature drops below the threshold value for at least the duration specified in the alert delay value. The alert restore occurs when the temperature rises 1°C or 1.8°F above the threshold value for at least the duration of the restore delay value.
Note: The default threshold value for FREEZING is 7°C or 45°F. The default alert delay value and default restore delay value is 10 minutes.
Optional settings: See Table 2.

FREEZER <-10°C (<14°F)* Define whether or not the control panel reports a FREEZER alert when the temperature rises above the threshold value for at least the duration specified in the alert delay value. The alert restore occurs when the temperature drops 1°C or 1.8°F below the threshold value for at least the duration of the restore delay value.
Note: The default value for threshold is -10°C or 14°F. The default value for alert delay is 30 minutes. The default value for restore delay is 30 minutes.
Optional settings: See Table 2.

Disarm activity Define the length of time that the sensor continues to detect motion during the disarm process.
Optional settings: NOT Active (default), YES – no delay, YES + 5 s delay, YES + 15 s delay, YES + 30 s delay, YES + 1 min, YES + 2 min, YES + 5 min, YES + 10 min, YES + 20 min, YES + 60 min

Notes:
- To generate an alarm or restore transmission, the temperature must pass beyond the threshold value for the required duration.
- The user can give access to the installer to remotely enable or disable the indication LED.

5.2. Configuring the temperature alerts
You can configure each of the four temperature alerts: VERY HOT, COLD, FREEZING, and FREEZER. Table 2 describes the temperature configuration setting options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Configuring instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threshold</td>
<td>Displays the last saved threshold value. To change the default value, select the back or next button to decrease or increase the value and select OK.</td>
</tr>
<tr>
<td>Disable /Enable</td>
<td>Defines whether or not the panel will report an alert or not.</td>
</tr>
<tr>
<td>Alert delay</td>
<td>Define the amount of time to pass before an alert is reported when the temperature exceeds the defined default duration. The alert delay time values are: Immediately, 1 min, 2 min, 10 min, 15 min, 20 min, 30 min</td>
</tr>
<tr>
<td>Restore delay</td>
<td>Defines the amount of time to pass before a restoration alert is reported when the temperature returns below the threshold value. The restore delay time values are: Immediately, 1 min, 2 min, 10 min, 15 min, 20 min, 30 min</td>
</tr>
</tbody>
</table>

5.3. Setting the detector range
From the PowerMaster panel installer menu, select 02:ZONES/DEVICES and follow the menu path displayed in Table 3 to configure the device detection range.

Note: If you enroll the MP-902 PG2 in PowerMaster panels with version 19.4 or lower, the detector enrolls as an outdoor PIR motion detector. The device enrolls in the panel with the device ID, 130-xxxx, and the name, Motion Outd.

<table>
<thead>
<tr>
<th>Panel</th>
<th>Device type</th>
<th>Menu path and options</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>V20.2 and higher</td>
<td>MP-902 PG2</td>
<td>&gt;02:ZONES/DEVICES&gt;</td>
<td>8 m</td>
</tr>
<tr>
<td></td>
<td>S.OutCurtain</td>
<td>&gt;DEVICE SETTINGS&gt;</td>
<td>5 m</td>
</tr>
<tr>
<td></td>
<td>ID: 129-xxxx</td>
<td>&gt;PIR RANGE&gt;</td>
<td>3 m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Short</td>
<td></td>
</tr>
<tr>
<td>V19.4 and lower</td>
<td>TOWER-20AM</td>
<td>&gt;02:ZONES/DEVICES&gt;</td>
<td>8 m</td>
</tr>
<tr>
<td></td>
<td>Motion Outd.</td>
<td>&gt;DEVICE SETTINGS&gt;</td>
<td>3 m</td>
</tr>
<tr>
<td></td>
<td>ID: 130-xxxx</td>
<td>&gt;PIR SENSITIVITY&gt;</td>
<td>8 m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Low</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>One region</td>
<td></td>
</tr>
</tbody>
</table>
The range refers to Number 2 in Figure 11.
The symbol signifies the detector point of view and the beginning of the PIR curtain.

- 1. 2 m (6.56 ft)
- 2. 8 m (26.25 ft)
- 3. 0.75 m (2.46 ft)
- 4. 1.9 m (6.23 ft)
- 5. 0.25 m (0.82 ft)

Figure 11: Detection beam pattern

6. Inserting or replacing the batteries

**Warning:** If you replace the batteries with an incorrect type, there is a risk of explosion.

**Note:** When you replace the batteries, wait one minute after the batteries are removed before you insert the new batteries.

To insert or replace the batteries, complete the following steps:

1. Unscrew the bottom screw of the bracket and remove the detector. See Figure 12 and Figure 13.
2. Press on the snap located at the top of the battery cover with your thumb to open the battery cover. See Figure 14.
3. Optional: To replace the batteries, remove the old batteries and insert the batteries with the (+) and (-) symbols matching the illustration found in the battery compartment. See Number 2 in Figure 15.
4. Optional: To activate the batteries of a new device, pull the battery tab while holding the batteries in place with your thumb. See Figure 16.
5. To close the battery compartment, insert the bottom section of the battery cover first and then press and hold the snap while closing the top part of the cover. See Number 1 and Number 2 in Figure 17.
6. Insert the device into the bracket and tighten the bottom screw of the bracket. For more information, see Step 6 and Step 7 in [Mounting the MP-902 PG2](#).

**Note:** Dispose of used batteries according to the manufacturer instructions and according to local rules and regulations.
7. Setting the pet immunity

The pet immunity feature allows pets to pass through the PIR curtain without triggering a false alarm.

The pet immunity selector is located in the battery compartment. See Figure 18.

Remove the battery cover and the right-hand side battery before you configure the pet selector. See Inserting or removing the batteries for more information.

Choose the device mounting height and configure the pet immunity selector according to the following guidelines:

- If you do not have a pet and do not expect other pets or rodents to enter the protected area, set the pet immunity selector to Setting 4 and mount the detector at a height of 1.6 m/5.25 ft to 2 m/6.56 ft. The best mounting height for this setting is 2 m or 6.56 ft.
- If you have a small pet that weighs less than 3 kg or 6.6 lb, or if there are rodents in the area, set the pet immunity selector to Setting 2 and mount the detector at a height of between 1.8 m or 5.9 ft and 2 m or 6.56 ft.
- If you have a pet that weighs less than 18 kg or 40 lb, set the pet immunity selector to Setting 1 and mount the detector at a height of 2 m or 6.56 ft.

Pet immunity selector

- Setting 1: Pet < 18 kg or 40 lbs (default)
- Setting 2: Small pet < 3 kg or 6.6 lb or rodents
- Setting 3: No function
- Setting 4: No pet

Note: Setting 3 in the pet mask selector has no function.
8. Performing a walk test

Before you permanently mount the device, temporarily mount the device and perform a walk test.

**Note:** The walk test is considered a local diagnostic test.

1. Insert the batteries or close the battery cover to start the 90 second stability period.
   
   **Note:** The LED flashes red during this period.

2. Walk through the far end of the detector's PIR curtain.
   
   **Note:** The LED lights red each time it detects motion and then blinks three times.

3. Compare the LED blink response to the reception value in Table 4.

4. Repeat the test until you receive a good or strong signal.
   
   **Note:** If you receive a poor signal, relocate the device until you receive a good or strong signal strength.

5. When you receive a good or strong signal, repeat the process from the other direction. See Figure 10.

The device automatically enters normal mode 15 minutes after you complete the walk test procedure.

**Notes:**

- Perform a walk test of the coverage area at least once a week to ensure that the detector is working correctly.
- For detailed diagnostics test instructions, refer to the control panel installation guide.
- The MP-902 PG2 can be configured to detect movement with the following settings: **Left to right, Right to left, and Both.** For more information, see the alarm direction setting in *Modifying the device.*

<table>
<thead>
<tr>
<th>LED response</th>
<th>Reception</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Green blinks</td>
<td>Strong</td>
</tr>
<tr>
<td>3 Orange blinks</td>
<td>Good</td>
</tr>
<tr>
<td>3 Red blinks</td>
<td>Poor</td>
</tr>
<tr>
<td>No blinks</td>
<td>No communication</td>
</tr>
</tbody>
</table>

9. LED operation

Table 5 provides the types of LED indications and their corresponding events.

<table>
<thead>
<tr>
<th>LED Indication</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red LED blinks</td>
<td>Stabilization (Warm-up 90 s)</td>
</tr>
<tr>
<td>Red LED on 0.2 s</td>
<td>Tamper open/close</td>
</tr>
<tr>
<td>Red LED on 2 s</td>
<td>Intruder alarm</td>
</tr>
<tr>
<td>Yellow LED on</td>
<td>Anti-masking detection, diagnostic mode</td>
</tr>
<tr>
<td>Yellow LED blinks slowly (0.2 s on, 30 s off)</td>
<td>Anti-masking, normal mode</td>
</tr>
<tr>
<td>Yellow LED blinks</td>
<td>Back tamper self-calibration</td>
</tr>
</tbody>
</table>

10. Temperature Display

To ensure that the zone temperature and light data display are on the correct panel, refer to 6.2 Conducting a Periodic Test in the relevant wireless panel installation guide.

11. Compatible receivers

This device can be used with PowerMaster panels that use PowerG technology.

- For UL installations, the detector is for use with UL listed control units only.
- Only devices operating in band 912-919 MHz are UL/ULC listed.
## 12. Specifications

**GENERAL**

| Detector type | Special two-channel PIR outputs |
| Detector lens data | Mirror type, common parabolic-elliptic surface |
| Detector mirror max. coverage | Up to 8 m or 26.2 ft/6° |
| Detection ranges | Select 3 m, 5 m or 8 m. Alternatively, select 9.8 ft, 16.4 ft, or 26.3 ft. See Table 3. |
| Sensitivity | The minimum difference between the temperature of the ambient background and a person is 3°C at 0.3 m/s. |

**OPTICAL**

| Power supply | Type C |
| Internal battery | Two 3 V lithium battery, type CR-123A. |
| Nominal battery capacity | 1450 mAh |
| Battery life (typical use) | Minimum: 1 year |
| Low battery threshold | 4 V |
| Battery power test | The power supply is type C in accordance with EN50131-6 Documentation - Clause 6. |
| Current consumption | Quiescent average: 30 μA |

**FUNCTIONAL**

| Alarm period | 2 seconds |
| Pet immunity | Up to 18 kg (40 lb) |
| Pet configurations | Setting 1: Pet < 18 kg or 40 lbs (default) |
| Software adjustments | Setting 2: Small pet < 3 kg or 6.6 lb or rodents |
| Software adjustments | Setting 3: No function |
| Software adjustments | Setting 4: No pet |

**WIRELESS**

| Frequency | Europe and rest of world: 433-434 MHz, 868-869 MHz |
| USA and Canada: 912-919 MHz |
| Note: | Only devices in frequency band 915 MHz are UL/ULC listed. |
| Max Tx power | 10 dBm @ 433 MHz, 14 dBm @ 868 MHz |
| Communication protocol: | PowerG |
| Supervision | Signals at 256 second intervals. |
| Tamper alert | Reports when a tamper event occurs and following any subsequent messages until the tamper switch is restored. |

**MOUNTING**

| Mounting type: | Wall mounting |
| Mounting height: | 1.6 - 2 m (5.25 - 6.56 ft) |
| Horizontal adjustment: | -90° to +90° in 10° steps |

**ENVIRONMENTAL**

| RF immunity | 20 V/m up to 1000 MHz, 10 V/m up to 2700 MHz |
| Operating temperatures | -35°C to 60°C (-31°F to 140°F) |
| Humidity | Average relative humidity of up to approximately 75% non-condensing. For 30 days per year the relative humidity may vary between 85% and 95% non-condensing. For UL installations: 5% to 93% with no condensation |
| Storage temperatures | -35°C to 60°C (-31°F to 140°F) |

**PHYSICAL**

| Size (diameter) | 145 mm x 71 mm x 62 mm (5.7 in. x 2.8 in. x 2.45 in.) |
| Weight (with battery) | 283 g (10 oz) |
| Color | White |
13. Compliance with standards

The MP-902 PG2 complies with the following standards:
- Europe: EN 300220, EN 301489, EN 50130-4, EN 62368-1, EN 60950-22, EN 50131-2-2 Grade 2, Class IV IP55, EN 50130-5, EN 50131-6 Type C.

Hereby, Visonic Ltd. declares that the radio equipment type MP-902 PG2 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

Certified by Applica Test & Certification AS in accordance with EN 50131-2-2, EN 50131-5-3, EN 50131-6, EN 50130-4, EN 50130-5
- USA: FCC- CFR 47 Part 15
- Canada: IC RSS - 247
- USA: UL639
- Canada: ULCS306

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

To comply with FCC Section 1.1310 for human exposure to radio frequency electromagnetic fields and IC requirements, implement the following instruction:
A distance of at least 20cm. between the equipment and all persons should be maintained during the operation of the equipment.

Le dispositif doit tre place a une distance d'au moins 20 cm a partir de toutes les personnes au cours de son fonctionnement normal. Les antennes utilisees pour cet produit ne doivent pas etre situ es et exploites conjointement avec une autre antenne ou transmitteur.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

- This Class B digital apparatus complies with Canadian ICES-003.
- Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WEEE. Product Recycling Declaration
For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.

WARRANTY

Visonic Limited (the "Manufacturer") warrants the product only (the "Product") to the original purchaser only (the "Purchaser") against defective workmanship and materials under normal use of the Product for a period of twelve (12) months from the date of shipment by the Manufacturer.

This Warranty is absolutely conditioned upon the Product having been properly installed, maintained and operated under conditions of normal use in accordance with the Manufacturer's recommended installation and operation instructions. Products which have become defective for any other reason, according to the Manufacturer's discretion, such as improper installation, failure to follow recommended installation and operational instructions, neglect, willful damage, misuse or vandalism, accident, damage, alteration or tampering, or repair by anyone other than the manufacturer, are not covered by this Warranty. There is absolutely no warranty on software, and all hardware products sold as a user barren under the terms of the software license agreement included with such Product. The Manufacturer does not represent that this Product may not be damaged and/or circumvented or that the Product will prevent any death and/or personal injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will prevent all cases of illegal or inappropriate use. In no event shall the Manufacturer be liable for any consequential, indirect, punitive or exemplary damages of any kind, including but not limited to lost profits, losses or damages caused by the use of the Product or inability to use the Product, even if the Manufacturer has been advised of the possibility of such damage.

Conditions to Void Warranty: This warranty applies only to defects in parts and workmanship relating to normal use of the Product. It does not cover:
- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of the Seller such as excessive voltage, mechanical shock or water damage;
- damage caused by an unauthorized attachment, alteration or failure of foreign objects being used with or in conjunction with the Product;
- damage caused by the Seller not complying with the Seller's product compatibility guide;
- damage caused by failure to provide a suitable installation environment for the Product;
- damage caused by the use of the Product for purposes other than those for which they were designed;
- damage from improper maintenance;
- damage resulting from any misuse, mishandling or improper application of the Product.

Items Not Covered by Warranty: In addition to the items which void the Warranty, the following items shall not be covered by Warranty: (i) theft costs to the repair centre; (ii) customs fees, taxes, or VAT that may be due; (iii) Products which are not identified with the Seller's product label and lot number or serial number; (iv) Products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection or testing to verify warranty claim. Any accessories or tags returned with the Product without legible warranty will be credited or replaced at the Seller's option.
THIS WARRANTY IS EXCLUSIVE AND EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS OR LIABILITIES, WHETHER WRITTEN, ORAL, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. IN NO CASE SHALL THE MANUFACTURER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS WARRANTY OR ANY OTHER WARRANTIES WHATSOEVER, AS AFORESAID.

The Manufacturer shall in no event be liable for any special, indirect, incidental, consequential or punitive damages or for loss, damage, or expense, including loss of use, profits, revenue, or goodwill, directly or indirectly arising from Purchaser's use or inability to use the Product, or for loss or destruction of other property or from any other cause, even if Manufacturer has been advised of the possibility of such damage. The Manufacturer shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function; however, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty, the Manufacturer's maximum liability (if any) shall not in any case exceed the purchase price of the Product involved, which shall be fixed liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply under certain circumstances.

When accepting the delivery of the Product, the Purchaser agrees to the said conditions of sale and warranty and he recognizes having been informed of.

The Manufacturer shall be indemnified whatsoever arising out of the construction and/or malfunctioning of any telecommunication or electronic equipment or any program.

The Manufacturer's obligations under this Warranty are limited solely to repair and/or replace at the Manufacturer's discretion any Product or part thereof that may prove defective. Any repair and/or replacement shall not extend the original Warranty period. The Manufacturer shall not be responsible for dismantling and/or reinstallation costs. To exercise this Warranty the Product must be returned to the Manufacturer freight pre-paid and insured. All freight and insurance costs are the responsibility of the Purchaser and are not included in this Warranty.

This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of this warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether direct, indirect, incidental, consequential or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products. This Warranty is exclusive to the original Purchaser and is not assignable.

Governing Law: This disclaimer of warranties and limited warranty are governed by the domestic laws of Israel.

Warning: The user must follow the Manufacturer's installation and operational instructions including testing the Product and its whole system at least once a week and to take all necessary precautions for his/her safety and the protection of his/her property.

* In case of a conflict, contradiction or interpretation between the English version of the warranty and other versions, the English version shall prevail, 4/18.