

TOWER-30AM PG2 / TOWER-30AM K9 PG2

VisonicA Tyco International Company

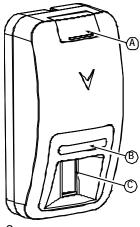
Installation Instructions

Wireless PowerG High-security Mirror Detector with Anti-masking

1. INTRODUCTION

The TOWER-30AM PG2 and TOWER-30AM K9 PG2 (pet-immune) are 2-way, microprocessor-controlled, wireless digital mirror PIR detectors which include the following features:

- Adaptive Active Infra-Red Anti-Masking technology providing the most advanced reliable protection against intentional masking attempts (patent pending)
- Includes a fully supervised PowerG transceiver.
- Incorporates patent pending black mirrors for extremely high white light immunity.
- Advanced elliptical / parabolic mirror technology (patent pending)
- Provides multiple curtain coverage (patent pending)
- V-slot® optic technology (patent pending) for improved robustness, anti-vandalism and for very high reliability.
- · Creep zone protection
- TOWER-30AM K9 PG2 can distinguish between human beings and pets weighing up to 18 kg (40 lb)
- The advanced True Motion Recognition™ algorithm (patented) allows distinguishing between the true motion of an intruder and any other disturbances which may cause false alarms.
- Built-in link quality indicators; no need for the installer to physically approach the control panel thus making installation faster and easier.
- No vertical adjustment is needed.
- Motion event counter determines whether 1 or 2 consecutive motion events will trigger an alarm.
- · Automatic termination of walk-test after 15 minutes.
- Microprocessor-controlled temperature compensation.
- · Sealed chamber protects the optical system.
- Front and back tamper protection.
- Self-test



A. Screw cover

B. LED

C. PIR optical window

Figure 1. General View

2. INSTALLATION

2.1 General Guidance (see Fig. 2)

- 1. Keep away from heat sources.
- 2. Do not expose to air drafts.
- 3. Do not install outdoors.
- 4. Avoid direct sunshine.
- 5. Keep wiring away from power cables.
- 6. Do not install behind partitions.
- 7. Mount on solid stable surface.

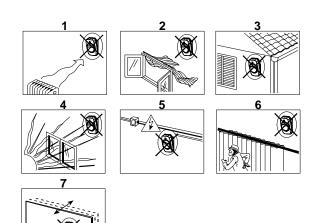


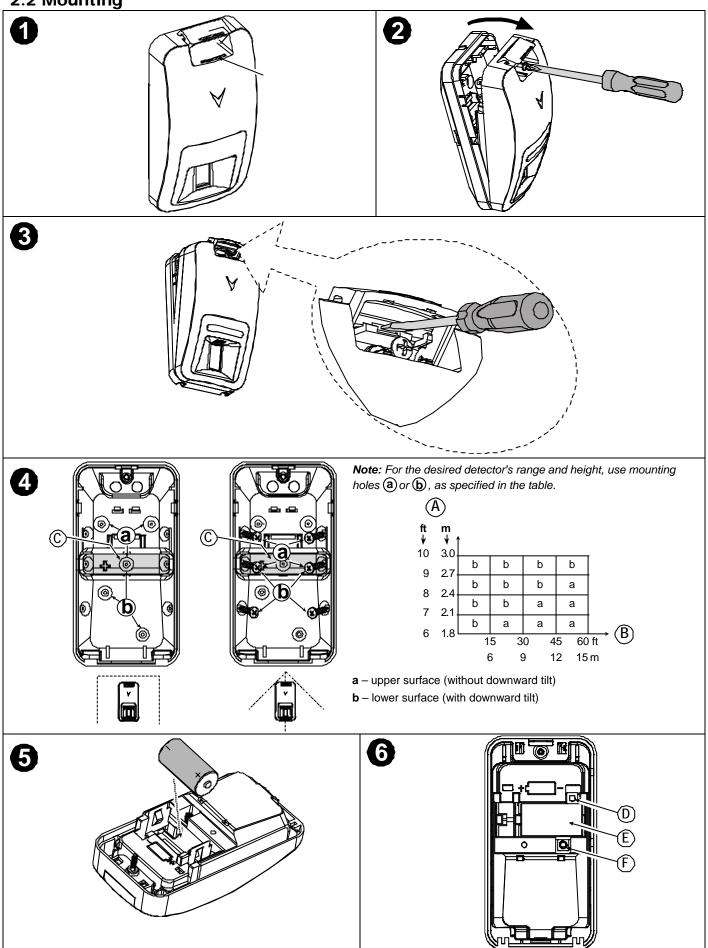
Figure 2. General Guidelines



Important! The detector is immune to 38 kg (85 lb) animals moving on the floor or climbing on furniture as long as the activity takes place below 1 m (3 ft). Above the 1 m (3 ft) height limit, the detector is immune to 19 kg (42 lb) pets, but the pet immunity will decrease as the pet gets closer to the detector. It is therefore recommended to select a mounting location that minimizes potential close proximity of animals.

WARNING! To comply with FCC and IC RF exposure compliance requirements, the PIR detector should be located at a distance of at least 20 cm from all persons during normal operation. The antennas used for this product must not be co-located or operated in conjunction with any other antenna or transmitter

2.2 Mounting



- 1. On the indicated location, lift the screw cover upward using your thumb.
- 2. Release the screw and open the cover in the direction shown by the arrow.
- 3. Insert a screwdriver into the slot and then push inward to separate the base from the cover.
- 4. Set the desired detector range.
- 5. Insert battery while observing polarity.
- A. Mounting height
- B. Coverage range
- C. Break-away base segment (shaded)
- **D.** Enroll button (use a screwdriver to press the recessed button)
- E. Battery
- F. Tamper switch

CAUTION! THE BACK TAMPER SWITCH WILL NOT PROTECT THE UNIT UNLESS THE BREAK-AWAY BASE SEGMENT IS SECURED TO THE WALL WITH AT LEAST ONE SCREW.

CAUTION! RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERY ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

Figure 3. Mounting

2.3. Enrollment

Refer to the PowerMaster control panel's Installer Guide and follow the procedure under the "02:ZONES/DEVICES" option of the Installer Menu. A general description of the procedure is provided in the following flow chart.

Step 1	Step 2	Step 3	Step 4	Step
Enter the Installer menu and select "02:ZONES/DEVICES"	Select "ADD NEW DEVICE" Option See Note [1]	Enroll the device or Enter the device ID	Select the desired Zone Number	Configure Location, Chime Para
	ADD NEW DEVICES WODIFY DEVICES OK d select	ENROLL NOW or ENTR ID:XXX-XXXX	Z14:Motion Sens ID No. 123-XXXX C	Z14.LOCATION Z14.Z Z14.SET CHIME Z14.DEV SETTINGS

Notes:

[1] If the detector is already enrolled you can configure the detector parameters via the "Modify Devices" option – see Step 2.

[2] Select the "Device Settings" option and refer to section 2.4 to configure the detector parameters.

2.4. Configuring the Detector Parameters

Enter the DEVICE SETTINGS menu and follow the configuration instructions for the TOWER-30AM PG2 PIR detector as described in the following table.

the following table.				
Option	Configuration Instructions			
Alarm LED	Define whether or not the alarm LED indication will be activated.			
	Optional settings: LED ON (default) and LED OFF.			
Event Counter	Define whether an alarm will be activated upon continued motion (low sensitivity) or upon a single alarm event (high sensitivity).			
	Optional settings: LOW sensitive (default) and HIGH sensitive.			
DISARM Activity	Define whether or not to set the activity time during disarm.			
	Optional settings: NOT Active (default), YES $-$ no delay, YES $+$ 5s delay, YES $+$ 15s delay, YES $+$ 30s delay, YES $+$ 1m delay, YES $+$ 2m delay, YES $+$ 5m delay, YES $+$ 10m delay, YES $+$ 20m delay and YES $+$ 60 n delay.			
ANTI MASKING-AM	Define the activity and the sensitivity level of the anti-masking.			
	Optional settings: LOW sensitive (default), HIGH sensitive and disabled.			

3. LOCAL DIAGNOSTICS TEST

- **A.** Separate the base from the cover (see Fig. 3).
- **B.** Put back the cover to return the tamper switch to its normal (undisturbed) position, and then secure the front cover to the base with the case closure screw.
- C. The TOWER-30AM PG2 will enter a 2 min. stability period. During this time the red LED blinks.
- **D.** Walk-test the coverage area see Figure 4. Walk across the far end of coverage pattern in both directions; the red LED lights each time your motion is detected followed by 3 LED blinks.

The following table indicates the received signal strength indication.

LED response	Reception	
Green LED blinks	Strong	
Orange LED blinks	Good	
Red LED blinks	Poor	
No blinks	No communication	

IMPORTANT! Reliable reception must be assured. Therefore, "poor" signal strength is not acceptable. If you receive a "poor" signal from the detector, re-locate it and re-test until a "good" or "strong" signal strength is received.

Note: For detailed Diagnostics Test instructions refer to the control panel Installer Guide.

4. EVENT INDICATIONS

LED Indications	Event
Red LED blinks	Stabilization (warm-up 120 sec)
Red LED ON 0.2 sec.	Tamper open / close
Red on 2 sec.	Intruder alarm
Yellow LED on	AM detection – diagnostic mode
Yellow LED blinks slowly (0.2 sec. ON, 30 sec. OFF)	AM detection – Normal mode
Yellow and red LED blink simultaneously (0.2 sec. ON [both], 0.2 sec. OFF)	Self-test failure – Diagnostic mode
Yellow and red LED blink simultaneously slowly (0.2 sec. ON [both], 30 sec. OFF)	Self-test failure – Normal mode

5. SPECIAL COMMENTS

Even the most sophisticated detectors can sometimes be defeated or may fail to warn due to: DC power failure / improper connection, malicious masking of the lens, tampering with the optical system, decreased sensitivity in ambient temperatures close to that of the human body and unexpected failure of a component part.

The above list includes the most common reasons for failure to detect intrusion, but is by no means comprehensive. It is therefore recommended that the detector and the entire alarm system be checked weekly, to ensure proper performance.

An alarm system should not be regarded as a substitute for insurance. Home and property owners or renters should be prudent enough to continue insuring their lives and property, even though they are protected by an alarm system.

6. COMPLIANCE WITH STANDARDS

Compliance with Standards



Europe (CE): EN 300220, EN 301489, EN 60950, EN 50130-4, EN 50130-5, EN 50131-2-2, EN 50131-6, EN 50131-1 Grade 3 Class 2

The TOWER-30 AM PG2 and TOWER-30 AM K9 PG2 are compatible with the RTTE requirements - Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 and EN50131-1 Grade 2 Class II.

Certified by the Dutch testing and certification body Telefication BV.

USA: CFR 47 Part 15 (FCC)

Canada: RSS 210

The Power G peripheral devices have two- way communication functionality, providing additional benefits as described in the technical brochure. This functionality has not been tested to comply with the respective technical requirements and should therefore be considered outside the scope of the product's certification.

FCC Compliance Statement

This device 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 residential installations. 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 and television reception.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.

Consult the dealer or an experienced radio/TV technician.

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.

This device complies with FCC Rules Part 15 and with Industry Canada licence-exempt RSS standard(s). Operation is subject to two conditions; (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or 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.

The technical documentation as required by the European Conformity Assessment procedure is kept at:
UNIT 6 MADINGLEY COURT CHIPPENHAM DRIVE KINGSTON MILTON KEYNES MK10 0BZ. TEL.: +44(0)845 0755800 FAX: +44(0)845 0755801



W.E.E.E. 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. Directive 2002/96/EC Waste Electrical and Electronic Equipment.

APPENDIX: SPECIFICATIONS

GENERAL **Detector Type Lens Data**

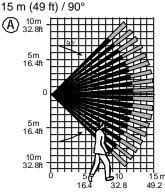
Dual element low-noise pyroelectric sensor

No. of Beam Elements:

18x3=54 far parabolic mirror segments

No. of Curtain Elements:

Max. Coverage



A. Horizontal view

B. Vertical view

C. 18 near curtains

D. 18 far curtains

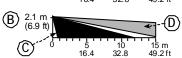


Figure 4. Coverage Pattern & Walk-test

Up to 38 kg (85 lb)

ELECTRICAL Power Supply Internal Battery

Pet Immunity (only)

3V Lithium battery, type CR-123A or equivalent

Note: For UL installations use Panasonic, Sanyo, GP or Varta only. Use only the above battery.

1450 mA/h 2.45 V 7 years

Nominal Battery Capacity Low Battery Threshold Battery Life (for typical use)

FUNCTIONAL

True Motion Event Verification

WIRELESS

Alarm Period

2 remote selections - 1 (OFF) or 2 (ON) motion events 2 seconds

Europe and rest of world: 433-434, 868-869 USA: 912-919

Frequency Band (MHz) Communication Protocol PowerG

Supervision

Tamper Alert

Signaling at 4-min. intervals

Reported when a tamper event occurs and in any subsequent message, until the tamper switch is

restored

MOUNTING

Height **Installation Options ACCESSORIES**

1.8 – 3.0 m (6 - 10 ft).

Surface or corner

BR-1: Surface mounted swivel bracket, adjustable 30° down and 45° left/45° right.

BR-2: BR-1 with a corner adapter BR-3: BR-1 with a ceiling adapter

ENVIRONMENTAL

RFI Protection Operating Temperatures >20 V/m up to 2000 MHz, excluding inband frequencies

-10°C to 50°C (14°F to 122°F) indoor

Storage Temperatures Humidity

PHYSICAL Size (H x W x D) Weight (with battery) Color

PATENTS

-20°C to 60°C (-4°F to 140°F)

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

115 x 60 x 48 mm (4-1/2 x 2-5/16 x 1-15/16") 90 g (3 oz).

White

U.S. Patents 5,693,943 ● 6,211,522 ● D445,709 (another patent pending)

WARRANTY

Visonic Limited (the "Manufacturer") warrants this 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 tv (12) months from the date of shipment by the Manufacturer.

This Warranty is absolutely conditional upon the Product having been properly installed, maintained and operated under conditions of normal use in accordance with the Manufacturers recommended installation and operation instructions. Products which have become defective for any other reason, according to the Manufacturers discretion, such as improper installation, failure to follow recommended installation and operational instructions, neglect, willful damage, misuse or vandalism, accidental damage, alteration or tampering, or repair by anyone

neglect, willful damage, misuse or vandalism, accidental damage, alteration or tampering, or repair by anyone other than the manufacturer, are not covered by this Warranty.

The Manufacturer does not represent that this Product may not be compromised 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 in all cases provide adequate warning or protection. The Product, properly installed and maintained, only reduces the risk of such events without warning and it is not a guarantee or insurance that such events will not occur.

THIS WARRANTY IS EXCLUSIVE AND EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS OF ALL OTHER WARRANTIES, OBLIGATIONS 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 ASSISTED FOR 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 LIBILITY (IF ANY) SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer.

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.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so these limitations may not apply under certain circumstances.

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The Manufacturer shall be under no liability whatsoever arising out of the corruption and/or malfunctioning of any telecommunication or electronic equipment or any programs.

The Manufacturers 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 insurance and insurance costs are the responsibility of the Purchager and are not included in this 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 autorize 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 directly, indicently, incidentally, consequentially 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.

This Warranty is in addition to and does not affect your legal rights. Any provision in this warranty which is contrary to the Law in the state or country were the Product is supplied shall not apply.

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.





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