intelbras

User manual

**IVP 1000 Pet Smart**

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IVP 1000 Pet Smart
Wireless passive infrared motion sensor

Congratulations, you have just purchased a product with Intelbras quality and safety.

The IVP 1000 Pet Smart motion sensor features passive infrared ray detection technology, with advanced signal analysis technology that prevents accidental triggering.

Care and safety

» This product is intended for INDOOR environments.
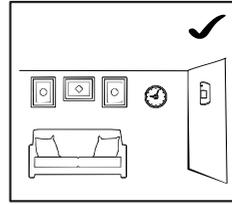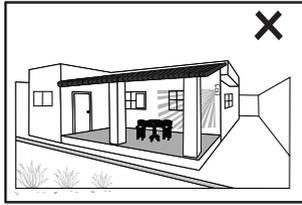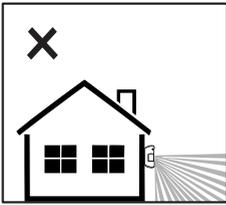
» The *Pet* function is intended for crawling animals weighing up to 20 kg. If the animal is on top of a bench, for example, the *Pet* function can be canceled.
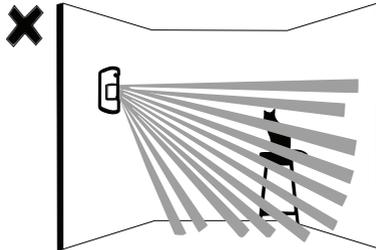
» Do not use the sensor in areas with sudden changes in temperature such as air conditioners and heaters, fans, refrigerators and ovens. Do not expose the sensor directly or to sunlight reflections.
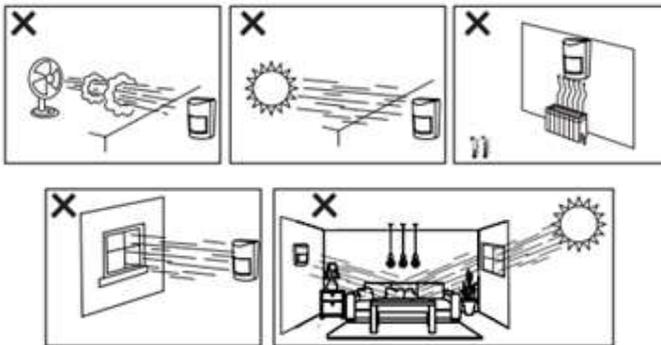

» Avoid touching the surface of the PIR, if necessary, use a soft cloth for cleaning.

» Do not place objects in front of the sensor. To secure the detection area, avoid curtains, screens, or any object that blocks the scan.

» Wireless communication technology, when exposed to environments with high power radiation, can suffer interference and have its performance impaired. Example: locations near TV towers, AM/FM radio stations, ham radio stations, routers, etc.

» The sensor must be installed where a possible intruder is easily detected, that is, where there is movement across the sensor's detection beams.
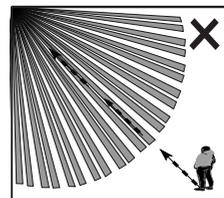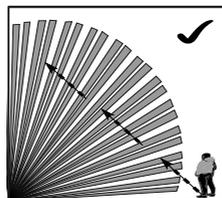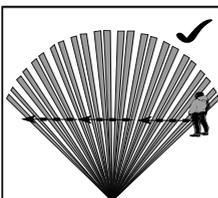
» The recommended installation height is between 2.0 and 2.40 meters. If the sensor is installed at a different height than specified, its detection and *Pet* function may be impaired in order to nullify the Pet immunity.

» LGPD – General Personal Data Protection Law: Intelbras does not access, transfer, capture or perform any other type of processing of personal data from this product.

Scan (top view)
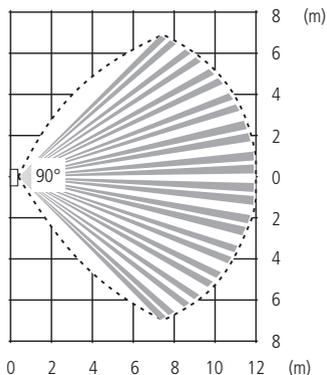
Detection range (side view)

Summary

1. Technical specifications

Battery	LITHIUM CR123A 3 V
Supervised operational current	28 mA
Unsupervised operating current	18 mA
Consumption at rest	5 uA
Detection angle	90°
Detection range	12 meters
Detection method	PIR
Immunity to crawling animals	Up to 20 kg
Sensitivity adjustment	3 levels (1P – 2P – 3P)
Startup time	Up to 60 seconds
Operating Temperature	-10° to 50°C
Transmission frequency	433.92 MHz
Transmission distance	Up to 400 m without barriers (supervised)
	Up to 200 m without barriers (no supervised)
Supervision	Supervised (FSK) or unsupervised (OOK)
Installation height range	2.0 to 2.4 meters
Recommended installation height	2.1 meters
Dimensions (W × H × P)	50 × 75 × 42 mm
Weight	0.049 kg

2. Characteristics

» Microcontrolled signal processing;

» Automatic temperature compensation to reduce false alarms;

» White light immunity of up to 10,000 lux;

» High RFI/EMI immunity;

» Passive infrared with dual element;

» Adjustable infrared (PIR) sensitivity;

» Immunity to crawling animals weighing less than 20 kg;

» Power: LITHIUM 3 Vdc battery – CR123A;

» Battery level sensor;

» Tamper switch for tamper protection.

3. Product
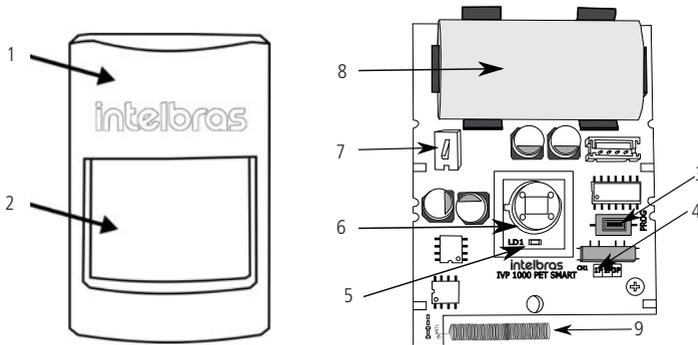
1. Cabinet;
2. Fresnel lens;
3. *PROG* button;
4. Sensitivity selector switch;
5. Bicolor LED;
6. Pyro Sensor;
7. Tamper key;
8. Battery;
9. Antenna.

4. Installation

The sensor must be installed on a flat, fixed, flicker-free surface with a height between 2.0 and 2.4 meters. It is recommended to install the sensor parallel to the wall for the greatest detection range. If the sensor is installed tilted or with the use of an articulator, its detection range and *Pet* function may be impaired in order to nullify the function.

To install the sensor, follow the procedure below:

» Open the sensor front cover using a screwdriver or similar tool.
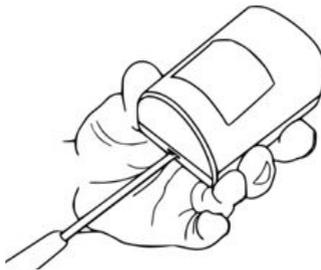
» Insert the battery observing the polarity indicated on the product plate. The LED will blink for a few seconds (stabilization time), when it goes off, the sensor will already be in normal operation.

Note: *do not register the sensor in the central during the stabilization time, wait for it to start working.*

» To register the sensor code in the alarm control panel, check the procedure in the manual of the used alarm control panel and trigger a trip or press the *PROG* button located on the sensor board.

» Install it in the location to be protected using the screw locations as shown in the following figures:

Wall mount seals

Seals for installation in corners
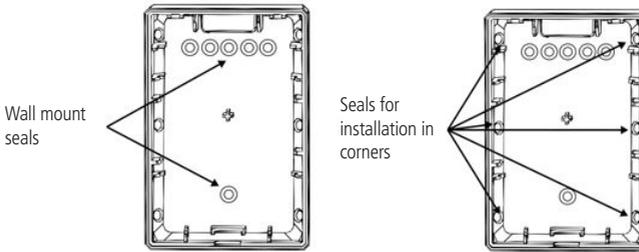
» Close the case by snapping on the top of the front cover first and descending perpendicularly towards the bottom of the sensor.

Important: the IVP 1000 Pet Smart was designed for indoor and closed areas and with the presence of animals of up to 20 kg, so do not use it for protection of outdoor or open areas and with the presence of animals of more than 20 kg.
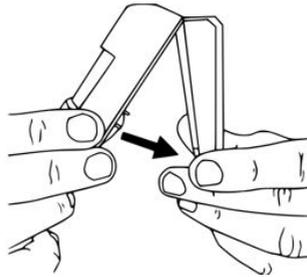
5. Sensitivity setting

The sensor has a selector switch for sensitivity adjustment, where it is possible to adjust between the 3 detection levels.

» **1P:** maximum sensitivity for motion detection;
» **2P:** medium sensitivity (factory default);
» **3P:** minimum sensitivity for greater robustness against accidental shot.
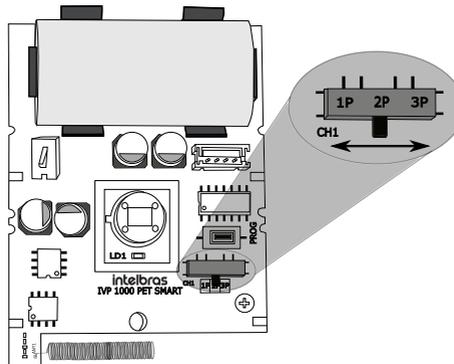
6. Operation

When energizing the sensor, it runs in test mode for 15 minutes so that all sensor positioning adjustments can be made. During this period, at any motion detection the LED lights up and a trigger is generated.

After the test mode, the sensor goes into economic operating mode, so that when it detects movement it turns on the LED, triggers and goes into hibernation, remaining for a period that can last from 30 seconds (environment with little movement) up to 2 minutes (environment with a lot of movement). During this sleep period the LED is not activated and no new triggers are generated, as a notification has just been sent to the control panel.

After the sleep time, the sensor goes back to monitoring the environment until detecting a new movement.

This ability to learn from the movement of the environment means that periodic and non-continuous shots are generated in places with high movement, in turn, saving battery.
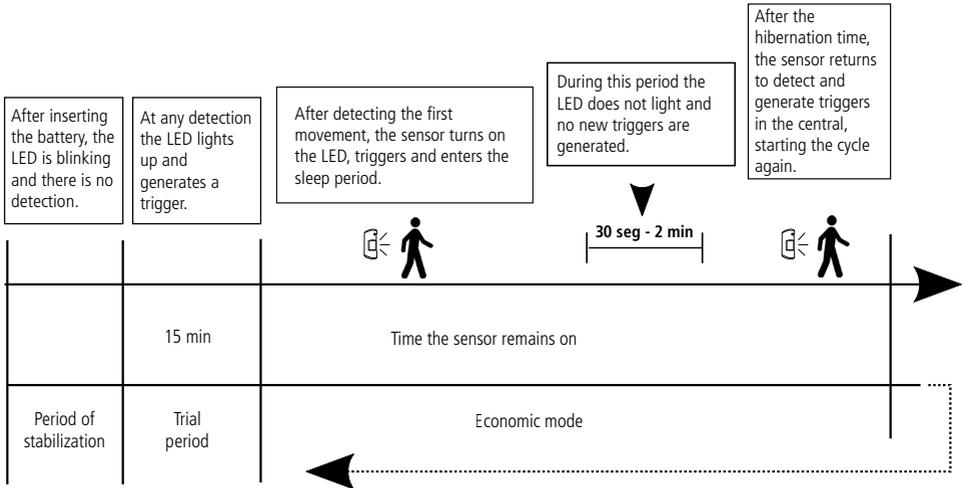
LED

> » **Blue LED:** indicates the sensor is in supervised mode,
> » **Red LED:** indicates the sensor is in unsupervised mode.

7. IVP 1000 Pet Smart sensor supervision adjustment

The IVP 1000 Pet Smart sensor allows you to select between supervised (FSK) and unsupervised (OOK) modes. To switch between supervision modes press and hold the *PROG* button for approximately 5 seconds until the LED flashes 2 times. When the LED flashing blue it changed to supervised mode (FSK), when the LED flashing red it changed to unsupervised mode (OOK). Factory default: unsupervised.
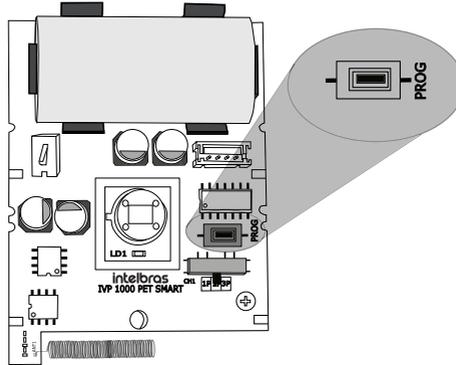
When changing the modulation on the sensor, it is necessary to delete the sensor from the alarm center and register it again.

The type of supervision to be used will depend on the receiver's compatibility with the control panel.

8. Tamper function

This function sends a tamper trip to the control unit, in case the sensor is violated through its front cover. This function can be enabled when the sensor is configured to operate in supervised mode (FSK).

For this function to work, the zones must be configured to identify the Tamper.

When the sensor is opened, the zone will be open and the Tamper event will be generated. The zone will remain open until the sensor is closed.

This function is available on the AMT 4010 Smart (from version 5.0) and ANM 24 NET (from version 6.1.0) control panels.

To configure on the switch: enter programming mode with installer password, then enter the following command.

AMT 4010 SMART

Note: the zones that can be configured with this function are 17 to 64. And they can be programmed according to the command below:
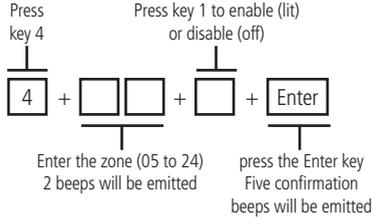
Enter + 78 + G + Enter

(G) - Zone Group	Zones
0	1 to 8 (not applicable)
1	9 to 16 (not applicable)
2	17 to 24
3	25 to 32
4	33 to 40
5	41 to 48
6	49 to 56
7	57 to 64

ANM 24 NET

If this functionality is enabled, that is, if key 1 is lit, the wireless sensor will send a tamper trip to the control panel, in case it is violated through its front cover. To disable this functionality, press the 1 key so that the key is unlit. To complete the setup process press the Enter key.

If you have typed the command to configure the tamper function and want to cancel the operation, just press the *Cancel* key.

Note: *the zones that can be configured with this function are 05 to 24. And they can be programmed according to the command below:*

Press
key 4

Press key 1 to enable (lit)
or disable (off)

4 + ☐☐ + ☐ + Enter

Enter the zone (05 to 24)
2 beeps will be emitted

press the Enter key
Five confirmation
beeps will be emitted

9. Test

Once installed and energized, walk in the area to be protected simulating a possible intrusion. Observe if the sensor is able to detect your movements during the journey, by lighting the lens. Adjust its sensitivity if necessary or reposition the sensor installation.
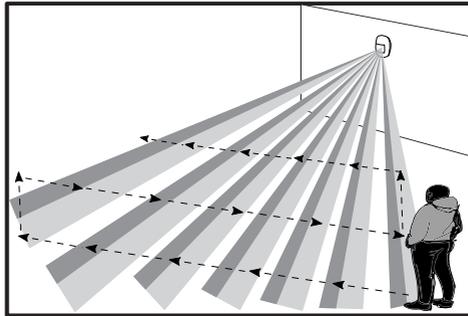
10. Low battery sensor

The IVP 1000 Pet Smart sensor controls the battery level and if it is critical (equal to or below 2.5 V) it sends the information to the control panel during triggering. In addition, the sensor also signals through the LED, after each activation of the sensor the LED lights up (as usual) and then flashes indicating low battery.

Use only quality batteries with the correct sizing for the device, and with typical use of the device, the expected battery life is 1 to 2 years, which may be influenced by the number of activations, weather conditions and mode of settings. The battery model must be CR123A 3V, using one (1) battery per sensor.

11. Battery replacement

To replace the product's battery:

- » Remove the dead battery;
- » Press the *PROG* button or wait a few seconds for the circuit to completely discharge;
- » Connect new battery.

12. Homologation

 18970-21-00160

This equipment is not entitled to protection against harmful interference and may not cause interference in properly authorized systems. This is a product approved by Anatel, the approval number can be found on the product label, for queries go to the website: *sistemas.anatel.gov.br/sch*.

Warranty term

It is established that this warranty is granted upon the following conditions:

Client's name:
Client's signature:
Invoice number:
Date of purchase:
Model: Serial number:
Retailer:

1. All the parts, pieces and components of the product are guaranteed against possible manufacturing defects, which may arise, for the term of 1 (one) year - this being 90 (ninety) days of legal warranty and 9 (nine) months of contractual warranty –, counting from the date of purchase of the product by the Consumer, as appears in the product purchase bill of sale, which is an integral part of this Term throughout the domestic territory. This contractual warranty includes the free exchange of parts, pieces and components which have a manufacturing defect, including the expenses with labor used in this repair. If there is no manufacturing defect, but defect(s) arising from misuse, the Consumer shall bear these expenses.

2. The installation of the product shall be executed in accordance with the Product Manual and/or Installation Guide. If your product requires the installation and configuration by a qualified technician, seek a suitable specialized professional, the costs of these services not being included in the product amount.

3. Having perceived the defect, the Consumer shall immediately contact the nearest Authorized Service which appears in the report offered by the manufacturer – they are the only ones authorized to examine and remedy the defect during the warranty term foreseen herein. If this is not respected, this warranty shall lose its validity, as it shall be characterized as product infringement.

4. If the Consumer requests home service, it shall contact the nearest Authorized Service to inquire about the technical visit rate. If it is necessary to remove the product, the ensuing expenses, such as those of transportation and insurance of the taking and return of the product, shall be the Consumer's responsibility.

5. The warranty shall lose its validity totally in the occurrence of any of the following cases: a) if the defect is not one of manufacture, but is caused by the Consumer or by third parties foreign to the manufacturer; b) if the damage to the product arises from accidents, disasters, agents of nature (lightning, floods, landslides, etc.), humidity, voltage in the electrical network (excess voltage caused by accidents or excessive fluctuations in the network), installation/use in disagreement with the user's manual or arising from natural wear of the parts, pieces and components; c) if the product has undergone effects of a chemical, electromagnetic, electrical or animal (insects, etc.) nature; d) if the serial number of the product has been falsified or erased; e) if the appliance has been infringed.

6. This warranty does not cover loss of data; therefore, it is advisable that if it is the case of the product, the Consumer makes a backup regularly of the data which appears in the product.

7. Intelbras is not responsible for the installation of this product, or for possible attempts at fraud and/or sabotage in its products. Maintain the updates of the software and applications used up-to-date, if it is the case, as well as the network protection required for defense against hackers. The equipment is guaranteed against defects in its usual conditions of use, it being important to bear in mind that, as it is electronic equipment, it Is not free of fraud and scams which may interfere with its correct functioning.

8. After its useful life, the product must be delivered to an authorized Intelbras service center or directly disposed of in an environmentally appropriate manner to avoid environmental and health impacts. If you prefer, the battery, as well as other unused Intelbras brand electronics, can be disposed of at any Green Eletron collection point (waste management facility to which we are associated). If you have any questions about the reverse logistics process, please contact us at (48) 2106-0006 or 0800 704 2767 (Monday to Friday 8am to 8pm and Saturdays 8am to 6pm) or via -mail support@intelbras.com.br.

These being the conditions of this complementary Warranty Term, Intelbras S/A reserves the right to alter the general, technical and esthetic features of its products without prior notice.

All the images of this manual are illustrative.

Product benefiting from the Legislation of Informatics.

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