intelbras

User guide

### IVP 8000 Pet Cam

Infrared passive sensor

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

The 8000 Pet Cam IVP sensor has a camera integrated into the detection circuit, providing the perfect solution for visual alarm verification. At the moment of intrusion, the sensor registers a picture of the environment and sends it to the AMT 8000 alarm center, being possible to visualize the picture by the monitoring application allowing an accurate evaluation of the event. The sensor also has an integrated temperature sensor for greater security to offer the same detection sensitivity in various environments (from -10 °C to +50 °C), low consumption circuitry providing long battery life, LED communication status at the sensor, low battery indication and tamper switch for violation protection. The IVP 8000 Pet Cam sensor is suitable for indoor environments with the presence of pets up to 20 kg.

Read the product introductory information carefully for the correct use of the sensor.

1. Care and security

» Follow all instructions in the manual for product assembly and installation.
» 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.
» This product has encryption in the transmission of personal data.
» This motion sensor is intended for indoor environments.
» Do not use the sensor in areas with sudden temperature changes, near air conditioners, heaters, fans, refrigerators and ovens.
» Do not install the sensor facing glass windows and doors.
» Make sure the camera lens is clean. If necessary, use a soft cloth for cleaning.
» Do not expose the sensor directly to sunlight.
» Do not touch the surface of the infrared (PIR) sensor. If necessary, use a soft cloth for cleaning.
» Do not place objects in front of the sensor. To ensure the detection area, avoid curtains, screens, folding screens, or any object that blocks the scan. Do not exceed the installation height of the sensor (2.2 m).
» The sensor should be installed where a possible intruder is easily detected, i.e. where a person makes transverse movements to the sensor beams as much as possible when entering the environment (see figure below).
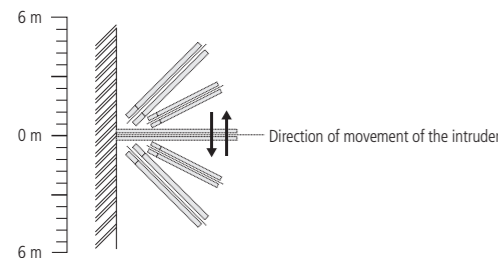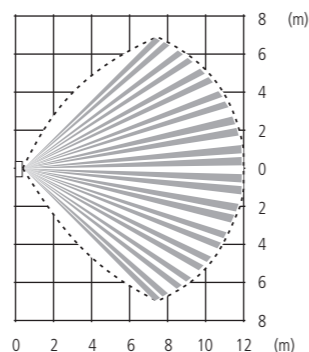

Upper view

» It is important to stress that the Pet function is designed for crawling animals, so if the animal is not on the ground but on a bench, for example, it can be detected thereby bypassing the pet function, as can be seen in the image below.
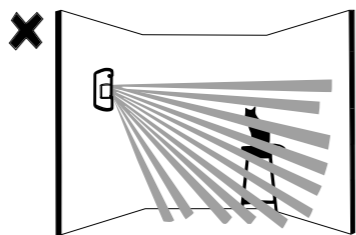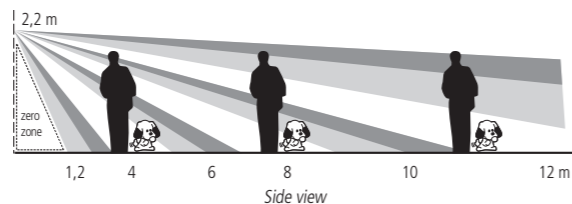

Note: *before starting the installation, it is necessary to define the height at which the sensor will be positioned, which can vary from 1.80 to 2.2 m according to the table in item 7. Installation of this manual.*

1.1. Scan (upper view)


Upper view

1.2. Detection range (side view)

Side view

2. Technical specifications

Operating voltage	3 Vdc
Operating current	8 uA
Frequency band	915 Mhz to 928 MHz
Modulation	DSSS BPSK 40 kbps
Maximum transmission power	11 dBm
Battery	LITHIUM CR123A 3 V
Angle of detection	90°
Detection range	12 m

Method of detection	PIR
Animal immunity	Up to 20 kg
Startup time	60 seconds
Operating temperature	-10 °C ~ +50 °C
RF Range	600 meters without barrier
Image format	QVGA
Camera angle of view	110 °
Dimensions (W × H × D)	73 × 68 × 129 mm
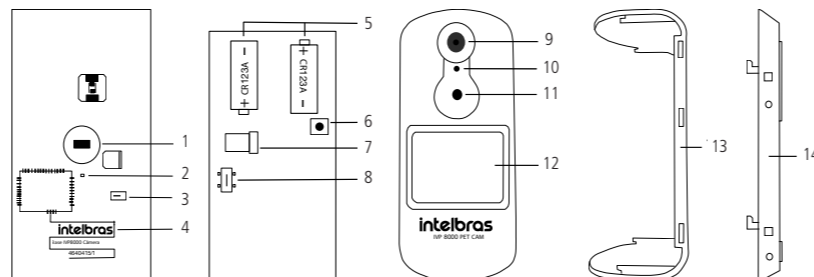
3. Product

1. *PIR* sensor
2. Blue LED
3. Front tamper key
4. Antenna
5. Battery connector
6. Synchronism key
7. Connector for source
8. Rear tamper key
9. Camera
10. Sensor status LED
11. LED IR
12. Fresnel lens
13. Product base
14. Bracket

4. Features

» Photographic record of the moment of triggering.
» Communication status check via LED.
» Wireless communication with range of up to 600 meters with direct open field view.
» Supervised wireless communication.
» Encrypted transmission.
» Microcontrolled sensor.
» Sensor operation adjustment through the AMT Remote Mobile application.
» Pets immunity up to 20 kg.
» White light immunity up to 20,000 lux.
» High RFI/EMI immunity.
» Anti-violation key for front cover and product base.
» Easy installation.

5. Registering the IVP 8000 Pet Cam sensor

To register the IVP 8000 Pet Cam sensor code in the AMT 8000 alarm center follow the procedure.

» Insert the batteries of LITHIUM 3VCC – CR123A in the sensor, the LED will flash for a few seconds (sta¬bilization time), when it goes off, register the code of the IVP 8000 Pet Cam sensor in the alarm center AMT 8000 as follows:
  » Press the synchronization key of the AMT 8000 alarm center (the blue LED will be on) then press the synchronization button of the sensor observing if the LED located on the front of it will flash green indicating the correct register. If the LED flashes red, the registration has not been performed and the procedure must be repeated.
  Note: *after pressing the synchronization button of the alarm center, the blue LED indicating the center unit will remain on for approximately 3 minutes after the last registration made, after this time it will turn off automatically and it will not be possible to make new registrations until the synchronization key is pressed again. If no device is registered, the LED indicating the center unit will go off automatically after 3 minutes.*

The sensors will be addressed according to the sequence performed. Example: the first sensor will be registered in zone 1, the second sensor in zone 2, the third sensor in zone 3 and so on.

To register other sensors through keyboard commands and more information, please check the complete manual of the AMT 8000 center.

5.1. Deleting the sensor register

If you want to delete the sensor register, just press and hold the sensor synchronism key for approximately 10 seconds, observing the indicator LED until it flashes twice in red.

6. Identifying the best place for installation

The IVP 8000 Pet Cam sensor has communication signal level indications with the AMT 8000 center, this will help you choose the best installation location. Follow the steps below:

1. Once properly registered, take the sensor to the environment you wish to protect;
2. Check the position where the sensor can cover the entire environment, respecting the installation height of 2 to 2.2 m;
3. Once chosen, position the sensor in the exact place where it will be installed and perform a transmission through a detection or tamper opening;
4. Observe the color that the LED will light up and check in the following table if the sensor can be installed in this location;

LED status	Communication level
Green	Excellent signal level (Recommended place for installation)
Orange	Regular signal level Location not recommended for installation (communication failure may occur)
Red	No communication (Do not install on this site)

5. If the signal level is not excellent, reposition the sensor and perform the procedure again.
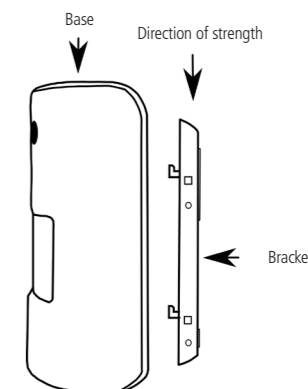
7. Installation

Before starting the installation, it is necessary to set the height of the sensor installation. We recommend that this sensor be installed according to the following table.
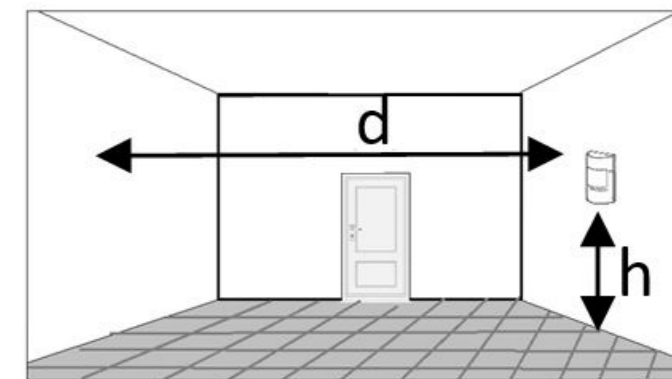

Distance (d)	Pet	Installation height (h)
Less than or equal to 4 m	Without the presence of a pet	1.8 m to 2 m
	With the presence of a pet	1.8 m to 2 m
Over 4 m to 12 m	With the presence of a pet	2.1 m to 2.2 m
	Without the presence of a pet	1.8 m to 2.2 m

The IVP 8000 Pet Cam sensor has no articulator. Therefore for its installation follow these steps:
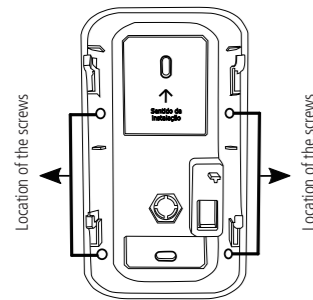
1. Separate the sensor bracket from the base as follows:

2. If the installation is done directly on the wall, use the bracket screw location as shown below;

Location of the screws

Location of the screws
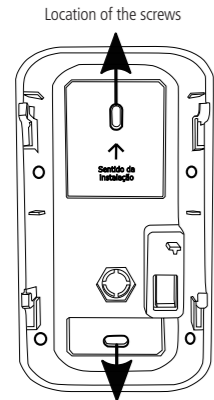
3. If the installation is done at the corner of the wall, use the bracket screw location as shown below.


8. Configuring the IVP 8000 Pet Cam Sensor

The sensor settings can be adjusted in two ways: via keyboard and via application. In order to pro¬gram the detection sensitivity, LED operation and operating mode of the sensor, it is necessary to trigger the sensor tamper, trigger or press the sensor synchronization button. The following is a step-by-step presentation of each of the settings.

8.1. Configuring the sensor through the keyboard

Using the keyboard of the AMT 8000 alarm center, go into the programming mode with the installer password, then type the following command:
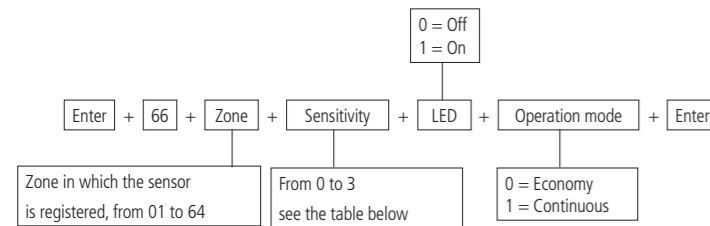
8.2. Information on sensor settings

Sensitivity adjustment table

Level	Condition
0	Minimum sensitivity
1	Normal sensitivity (factory default)
2	Intermediate sensitivity
3	Maximum sensitivity

Information on LED operation and operating mode

LED
» With the *LED* off option marked, the sensor will only light the LED for the first 15 minutes after battery insertion. Factory default
» With the *LED* on option marked, the sensor will light the LED in all motion detection.

Operation mode
» **Economy:** in *Economy* mode, the sensor detects and once the sensor has triggered, it is necessary to wait two minutes without movement for it to detect again.
For a better understanding of the Economy mode, please observe the following timeline.
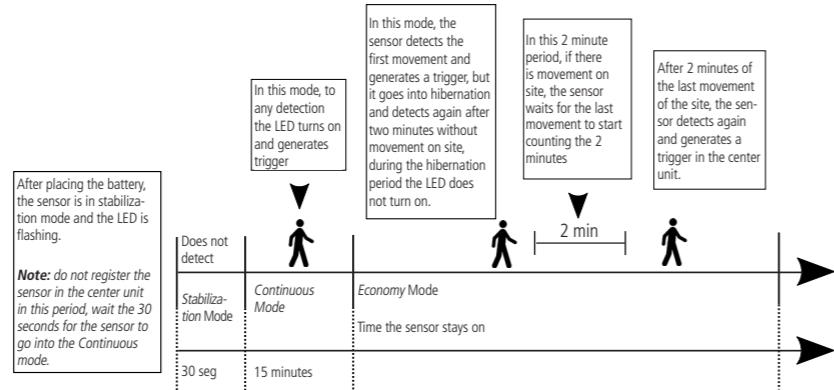
» **Advantage of the *Economy* mode:** in environments where there is a great circulation of people, the Economy mode will reduce the excessive consumption of the battery.
» **Continuous:** in *Continuous* mode, the sensor detects continuously, as in wired sensors.

Once configured, exit the programming mode and check if the sensor is detecting in the whole area that you want to protect, if not, repeat the procedure by adjusting the sensitivity until the whole area is protected.

Factory default operating mode: *Economy* mode.

8.3. Configuring the sensor through the application
1. After the application is properly connected to the alarm center, select Configure center on the main screen of the APP;

Menu	
Configure Center	>
Online	>
Events	>

2. After that, select sensors;

Settings	
General	>
Zones	>
Passwords	>
Communication	>
Event codes	>
IP monitoring	>
Ethernet/Wi-Fi	>
GPRS	>
Programed activation/deactivation	>
Sensors	>

Once you have done this, select the sensor you wish to configure, for example:
Sensor 1

Sensors	
Sensor 1	>
Sensor 2	>
Sensor 3	>
Sensor 4	>
Sensor 5	>
Sensor 6	>
Sensor 7	>
Sensor 8	>
Sensor 9	>
...Sensor 64	>

After selecting the sensor, the following adjustment screen will open.

Sensor 1	
Sensitivity	
Level 0 (minimum sensitivity)	◉
Level 1 (normal sensitivity, factory default)	○
Level 2 (intermediate sensitivity)	○
Level 3 (maximum sensitivity)	○
LED	
Always Off	◉
On when triggered	○
Modo de operação	
Economy mode	◉
Continuous mode	○
Discard changes	Save

Note: *for configuring the settings, check the sensitivity table, the explanations of LED operation and the Operation mode in item 8.2. Information on the sensor settings.*

9. Photographic record

With the alarm center activated, the IVP 8000 Pet Cam sensor registers two pictures of the environment when there is a violation (detection) and sends it to the alarm center. During the sending of the images the sensor does not make new detections.
After sending the photos, the sensor is able to detect and record other images and send to the alarm center.
Note: *the time for viewing the photos in the GUARDIAN application may vary according to the number of sensors transmitting photos simultaneously to the alarm center.*
For more information about the GUARDIAN monitoring application, see its tutorial. It is available at Android® and iOS stores.

10. Battery

Use only quality batteries with the correct sizing for the device, and with the typical use of the device, the battery life forecast is 3 to 5 years and can be influenced by the number of triggering, weather conditions and configuration mode.
The battery model should be CR123A 3V, being used two batteries per sensor.

11. Source

The IVP 8000 Pet Cam sensor has a 7 V/500 mA power input source. If used, we recommend the use of batteries to keep the environment safe in case of power outage.
» Specifications of the source:
  » Output voltage: 7 V
  » Minimum current: 500 mA
Note: *the source does not charge the installed batteries.*

12. Homologation

This equipment is not entitled to protection against harmful interference and may not cause interference to duly authorized systems.

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