# Indoor Motion Detector IMD 200/601/702

PRODUCT INSTALLATION SHEET

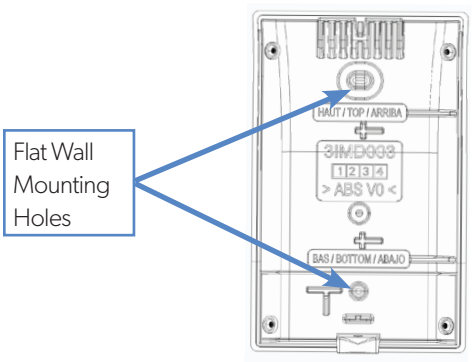
*Doc. - Ref. 214-IMD*
*Version : December 2014*

## Product Summary

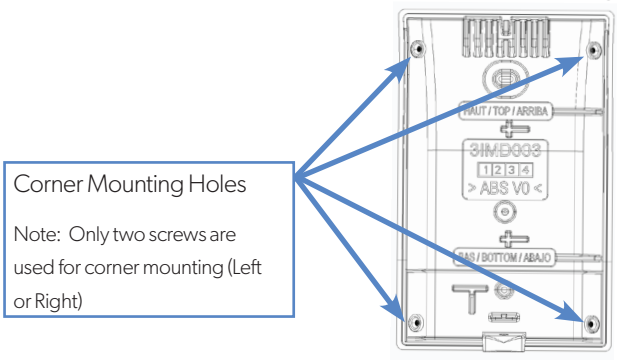
**The Motion Detector IMD 200/601/702 is a wireless, indoor motion detector designed for use in a Videofied security system. The motion detector includes the following features:**

- **Lithium batteries for long life**
- **Standard motion coverage lens (12m distance)**
- **Dual tamper function provides detection of both wall and cover tamper.**
- **Transmits check-in/status signal every 8 minutes**

## Flat Wall Mounting




## Corner Mounting




## Installation Guidelines

For an easier installation, programming and RF testing should be done to check for good communication between the control panel and all system devices before mounting.

Install the detector and other system devices in the following order:

> Programming / RF Testing: Program detector and all other devices into the control panel and test RF communication at each intended device location to the control panel.

> Mounting: Mount detector at the tested location.

## Mounting Rules

> Use proper tools and hardware.

> Mount indoors in a temperature controlled environment.

> Mount detector 2.1 to 2.3 m (6.9 to 7.5 ft.) from the floor.

> Respect Top and Bottom side of the Motion Viewer

> When possible, mount in a wall corner in order to aim at a complete room

> Mount detector on an outside wall, aimed at area to protect.

> Do not aim detector at windows, especially those that let in direct sunlight, or at heat sources such as lamps, fireplaces, radiators, and heating vents.

> Do not aim detector at moving objects such as curtains, fans or animals.

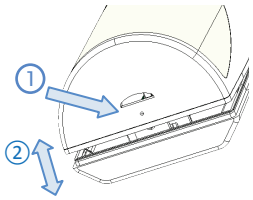
> Do not cover the Fresnel lens

## Programming/RF Testing/Mounting

The following provides summarized steps for device programming, testing, and mounting. For complete details, refer to the control panel installation manual.

1 Loosen bottom screw. ①

Separate base from IMD. ②




2 Install 1 SAFT LS14500 3.6v batteries, observing correct polarity.

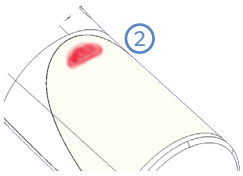
**Check that the LED flashes before staying RED*

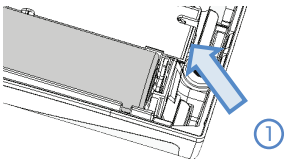
3 Put control panel into programming/configuration mode.

4 Using a programmed alphanumeric keypad, proceed through menus until the display shows ADD A NEW DEVICE.

5 Press Yes. The display shows PRESS PROGRAM BUTTON OF DEVICE.

6 Press and release program button on the IMD using your finger or a screw driver ①. The programming button is located inside the product on the top of the main PCB.
The IMD LED flashes red ②.




*Wait for keypad display to show DETECTOR (1 - 24) PROGRAMMED.*

7 Press Yes. The display shows RADIO RANGE TEST? Press Yes again. The IMD LED starts flashing and keypad display shows TEST IN PROGRESS.

8 Move the IMD to the intended mounting location and make sure you receive a 9/9 indicating good communication with the control panel.

9 Press YES to end the Radio Range Test, then press ESC/NO.

10 The display shows AREA ALLOCATION; AREA: 1. Press either arrow button on the keypad until the desired AREA number appears, then press YES. By default all devices in area 1 will be subject to the entry and exit delays.

11 The display shows NAME + LOCATION:

Enter an appropriate device name (up to 16 characters). The name of the device should describe its intended mounting location or zone. Press YES. The display will show the device number and name for your verification.

12 Mount the IMD on the wall:

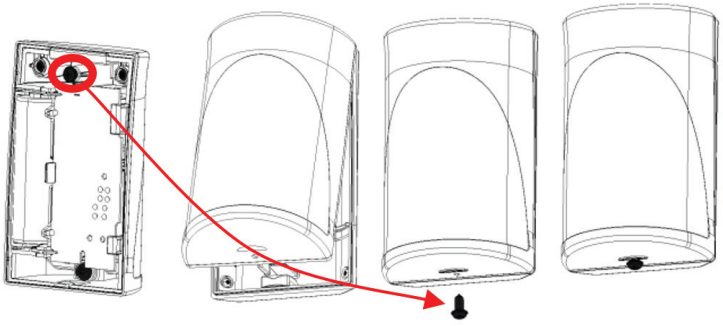
> Follow the mounting rules on page 1

> Drill desired mounting holes in the IMD base and mark the appropriate mounting holes on the wall.

> Drill pilot holes and install anchors where needed.

> Place base on mounting surface so that the pilot holes line up and secure base with appropriate screws.

> Attach detector to base and secure with screw (mandatory under EN50131 et NF&A2P standards).



13 Press YES. The display shows FUNCTIONAL DEVICE TEST? Press YES again and verify IMD operation. For example, wave your hand in front of the sensor to activate the LED which indicates detection.

14 Press YES to end the detection verification

15 The display shows ADD A NEW DEVICE? Repeat steps 1-14 for remaining Devices.

16 When finished, exit from configuration mode by pressing and holding the ESC/NO for 5 seconds.

## (EN) Security notes / (FR) Notes de sécurité / (DE) Hinweise zur Sicherheit

| English | Francais | Deutsch |
|---|---|---|
| > *Remove batteries before any maintenance!*<br>> *WARNING, there is a risk of explosion if a battery is replaced by an incorrect type!*<br>> *Observe polarity when setting up the batteries!*<br>> *Do not throw used batteries! Bring them to your installer or a collection point.* | > *Attention ! Il y a un risque d'explosion si l'une des piles utilisées est remplacée par une pile de type incorrect !*<br>> *Respectez la polarité lors de la mise en place des piles !*<br>> *Ne jetez pas les piles usagées ! Ramenez-les à votre installateur ou à un point de collecte spécialisé.* | > *Batterien vor jeglichen Wartungsarbeiten entfernen!*<br>> *Vorsicht, es besteht Explosionsgefahr, wenn eine Batterie durch eine Batterie falschen Typs ersetzt wird!*<br>> *Achten Sie beim Einsetzen der Batterien auf die Polung!*<br>> *Entsorgen Sie Batterien nicht im normalen Haushaltsmüll! Bringen Sie Ihre verbrauchten Batterien zu den öffentlichen Sammelstellen.* |

## FCC Regulatory Information for USA and CANADA

FCC Part 15.21 Changes or modifications made to this equipment not expressly approved by RSI VideoTechnologies may void the FCC authorization to operate this equipment.

FCC Part 15.105 Class B

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 in a particular installation. 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.

Radio frequency radiation exposure information according 2.1091 / 2.1093 / OET bulletin 65

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

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.

Cet appareil est conforme à la Partie 15 des règlementations de la FCC et avec la norme RSS-210 de l'Industrie Canadienne.

Son fonctionnement est soumis aux deux conditions suivantes :

1 Cet appareil ne doit pas causer d'interférences nuisibles et

2 Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.

## Properties

**Panel compatibility**

W, XL, XT, XV, Visio ranges and their variants

**Power requirements**

| | |
|---|---|
| Format | AA |
| Nominal voltage | 3.6V |
| Low battery limit | 2.7V |
| Battery type | SAFT, AA, Lithium, LS14500 |
| Quantity | 1 |
| Estimated battery life | Up to 4 years |

**Current consumption**

| | |
|---|---|
| Standby (average over 1h) | 40µA |
| Max | 37mA |

**RF technology** S²View® Bidirectional

868MHz - IMD200 (Europe, Africa, Asia)
915MHz - FHSS - IMD601 (USA, Canada, South America)
920MHz - FHSS - IMD702 (Australia, South America)

| | |
|---|---|
| Radio Type | Spread Spectrum Bidirectional RF |
| Transmission security | AES algorithm encryption |
| Supervision | Panel polls devices every 8 minutes |
| Antenna | Integrated |

**Tamper security**

Wall and cover tamper. Electromagnetic immunity.

**PIR specifications**

| | |
|---|---|
| Technology | Passive infrared DSP |
| Type | Dual element |
| Lens | 22 facets Fresnel |
| Detection Angle | 90° |
| Detection Distance | Up to 40 ft/12m |
| Init delay | 10 seconds |
| Recovery delay | 90 seconds |

## Physical and environmental properties

**Temperature**

-10°/+55° C

**Max relative humidity**

75% without condensing

**Protection and shock marking**

IP30/IK04

**Material**

ABS—ULV0

**Dimensions**

51.2 x 80.9 x 36.8mm

**Weight**

58 g (without batteries)

## Installation / Mounting

**Mounting height**

2.1 to 2.3m

**Wall mounting**

| | |
|---|---|
| Mur | 2 screws |
| Angle | 2 screws |

**Casing locking**

Closing by clip and screw if required by local legislation

## Certifications / Standards

**868MHz - IMD200**

**Certifications** CE / EN50131 / NF&A2P
**Standards** EN60950-1:2006+/A11:2009+/A1:2010
EN300220-1 V2.4.1
EN300220-2 V2.4.1

**NF&A2P – 2 boucliers –** suivant le référentiel **NF324-H58**
**Matériels de sécurité électroniques, détection d'intrusion**

**DETECTEUR DE MOUVEMENT A INFRAROUGE PASSIF**

| | |
|---|---|
| Commercial brand : | **Videofied** |
| Product reference : | **IMD200** |
| Certification number : | 2623200006A0 |

**Standards:**

| | |
|---|---|
| NF EN50130-2-2: | 2008 Grade 2 |
| RTC 50131-2-2: | 2011 |
| NF EN50130-4: | 1995; A1:1998; A2:2003 |
| NF EN50130-5: | 1998 Class II |

**Certification body :**
**CNPP Cert.**
Route de La Chapelle Réanville CS22265
F—27950 SAINT MARCEL
Phone : +33(0)2.32.53.63.63
Fax: +33(0)2.32.53.64.46
http://www.cnpp.com
e-mail : certification@cnpp.com

**Certification body :**
**AFNOR Certification**
11, rue François de Pressensé
93571 Saint Denis La Plaine Cedex
Phone : +33(0)1.41.62.80.00
Fax: +33(0)1.49.17.90.00
http://www.afnor.org
& http://www.marque-nf.com
e-mail : certification@afnor.org

| | | |
|---|---|---|
| **Other certifications** | Netherlands | NCP |
| | Singapour | IDA |
| | South Africa | ICASA |

**915MHz - FHSS - IMD601**

| | | |
|---|---|---|
| Certifications | USA | FCC Part 15C (FCC47 CFR Part 15) |
| | Canada | IC (RSS-210 Issue 8) |

**920MHz - FHSS - IMD702**

| | | |
|---|---|---|
| Certifications | Australie | C-Tick (AS-NZS4268) |



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