OMV-VX OUTDOOR VISUAL VERIFICATION DETECTOR

Product Summary

The OMV-VX outdoor visual verification detector is a wireless, battery operated, motion activated outdoor camera designed for use in Videofied® security systems.

- Powered by 3 Lithium batteries for extended battery life.
- 4 infrared LEDs for 12m night vision.
- Fully weatherproof (IP55) and temperature resistant (-20°C/+60°C).
- 12 m (40 ft.) by 90 degree flexible detection pattern adjustable to 5 ranges
- SMDA Logic for advanced temperature compensation and environmental noise immunity.
- Easy masking of sensitive objects.
- Over spill protection
- Double Conductive Shielding against bright light disturbance.
- Transmits check-in/status signal every 8 minutes.

Installation Guidelines

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

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

> Programming/RF Testing - program detector and all other devices into the control panel and test RF communication from each intended device location to the control panel.

> Mounting - mount detector at the tested location.

Mounting

> Use proper tools and hardware.

> Mount camera between 0.8 m to 1,2 m height.

> In order to reduce false alarms, do not aim the detector toward vegetation, a road, or unlimited space.

> Do not cover the Fresnel lens.
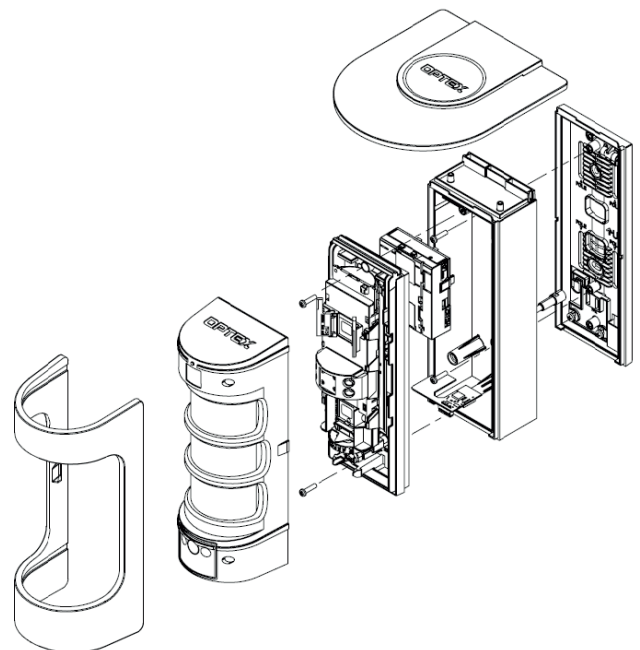
Assembly and powering

1   Untight the bottom screw.

2   Open the OMV-VX front cover.

3   Untight the upper and lower screws and take off the back box.

4   Untight the upper and lower screws and take off the back cover.
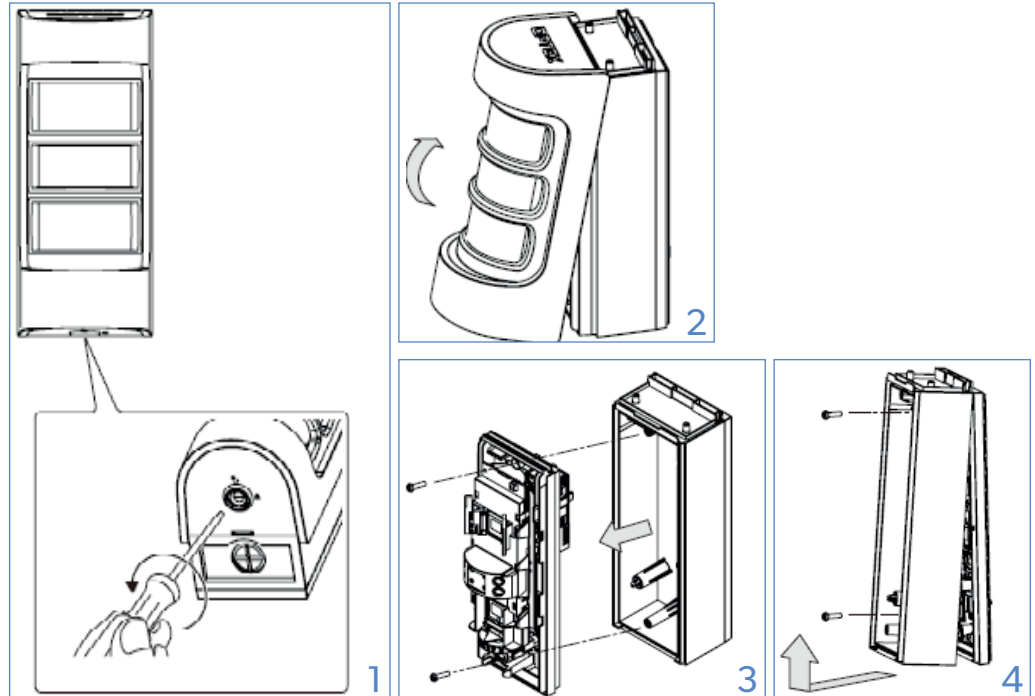
5   Mount the back cover on a wall or a pole (use a metal band with 25 mm or less in width for pole mount).

6   Remove the battery case cover and insert 3 Duracell CR123A Lithium batteries or 3 SAFT LS14500 Lithium batteries. Close the battery case.
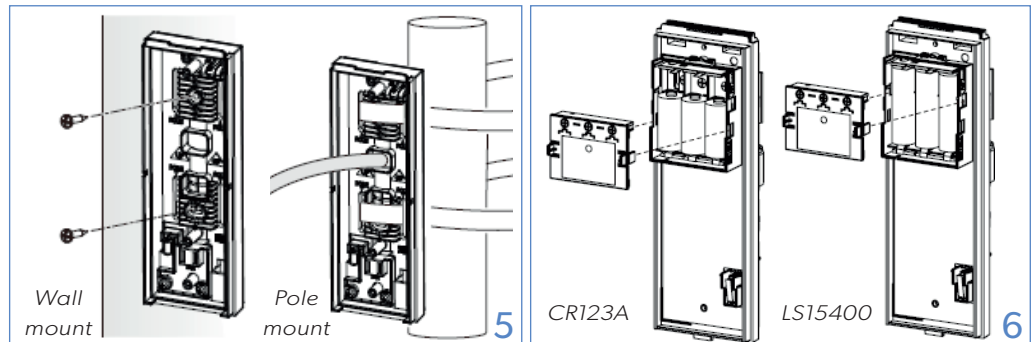
The OMV-VX red LED is now on. You can assemble the detector and and take your programming keypad to pair the OMV-VX to the Videofied® panel.
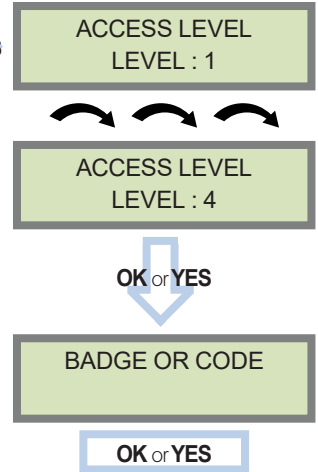
OMV-VX OUTDOOR VISUAL VERIFICATION DETECTOR

Pairing the detector

1 Using a programmed alphanumeric keypad, access to level 4.

| Tue 29/10   11:23 |
| DISARMED   LVL:1 |

➜

| ACCESS LEVEL |
| 1 |

OK or **YES** ➜

| ACCESS LEVEL |
| LEVEL : 1 |

➜ ➜ ➜

| ACCESS LEVEL |
| LEVEL : 4 |

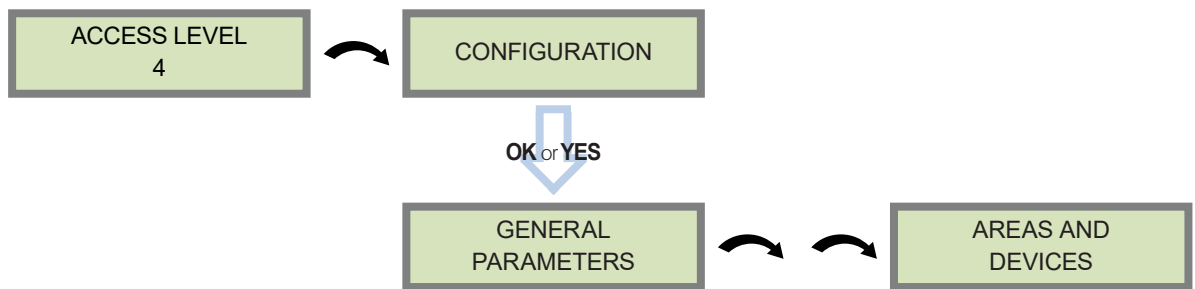**OK** or **YES** ⬇

| BADGE OR CODE |

OK or **YES**

2 To unlock and get access to the installer level 4, you need to successively enter TWO codes (in any order) :

• INSTALLER CODE (entered during intial programming)

• USER CODE (Level3): the user must authorize the installer to get access to the configuration of his panel.

3 Once in level 4, proceed through the menu to reach ADD A NEW DEVICE.

| ACCESS LEVEL |
| 4 |

➜

| CONFIGURATION |

OK or **YES** ⬇

| GENERAL |
| PARAMETERS |

➜ ➜

| AREAS AND |
| DEVICES |

OK or **YES** ⬇

| DEVICES |

OK or **YES** ⬇

| ADD A NEW |
| DEVICE |

OK or **YES** ⬇

| PRESS PROGRAM |
| BUTTON OF DEVICE |

4 Remove the OMV-VX shield to access the program button in order to pair the detector with the Videofied® panel. Press and release the programming button.

Shield

Programming button
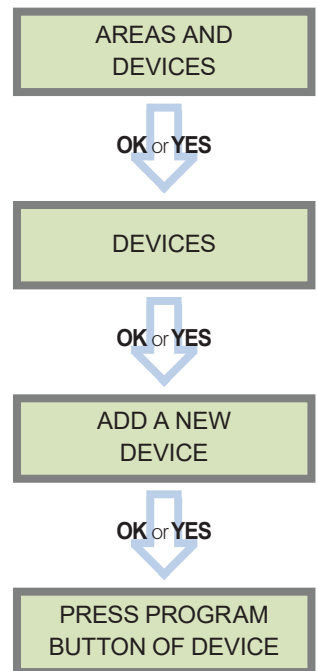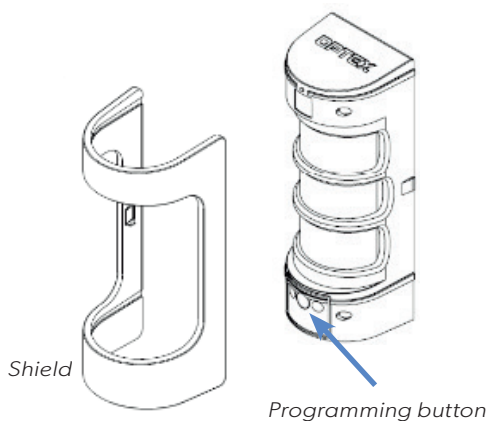
5 The OMV-VX red LED will flash until it is paired with the panel. When linked with the panel, the keypad will display :

| CAMERA (1 - 25) |
| RECORDED |
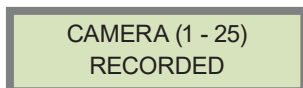
The OMV-VX is now paired with your Videofied® panel. It now needs to be configured and tested.

Configuration and test

1   Once the detector is recorded, you will be able to run a radio range test to measure the radio link between the OMV-VX and the Videofied® panel.

This test is important, it measures the strength of communication between the device and the control panel. The keypad will display a real time radio range value on a scale of 9.

Run the test with the detector installed or take it to its intended mounting location and make sure that you get at least 8/9, indicating good communication with the control panel.
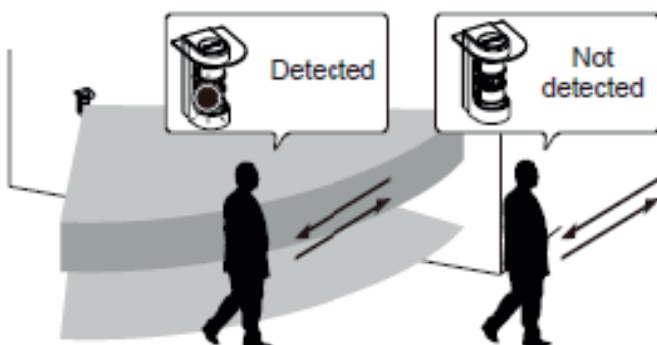
To receive the most accurate results you must run the radio range test for at least 30 seconds.

Result must be 8 out of 9 or better for reliable transmission of intrusion, sabotage and video.
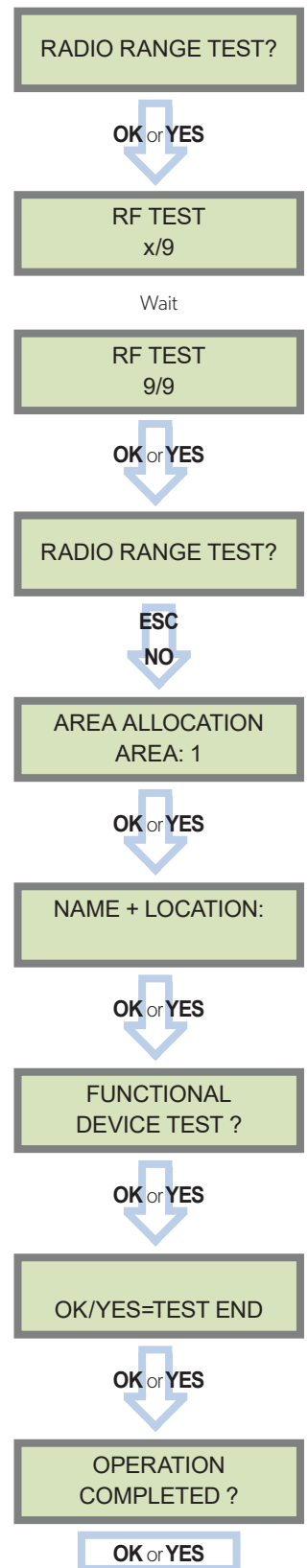
2   The next step is to assign the detector to one of the four available areas, used for delay and partial arming purposes (please refer to the Videofied® panel installation manual for more details about the areas).

3   Enter an appropriate device name and location (up to 16 characters), then accept. The display shows the device number and name for confirmation.

4   The functional test verifies the detection field as the OMV-VX LED flashes when the detector dual detection PIR is triggered.

5   Once completed, you can add other devices or exit configuration mode.

RADIO RANGE TEST?

OK or **YES**

| RF TEST
x/9 |
| :---: |

Wait

| RF TEST
9/9 |
| :---: |

OK or **YES**

RADIO RANGE TEST?

ESC
NO

| AREA ALLOCATION
AREA: 1 |
| :---: |

OK or **YES**

NAME + LOCATION:

OK or **YES**

| FUNCTIONAL
DEVICE TEST ? |
| :---: |

OK or **YES**

OK/YES=TEST END

OK or **YES**

| OPERATION
COMPLETED ? |
| :---: |

OK or **YES**

Mounting Recommendations

Please install the OMV-VX **parallel to the ground** with no tilt with a mounting height of **0.8 m to 1.2 m**.

For optimal use, the OMV-VX shall detect a movement across the detection field and not toward the detector. The detector shall not be pointed toward a **heat source** (AC units, sun or sun reflections) or **moving elements** such as flags, sails or vegetation that will generate false detection.
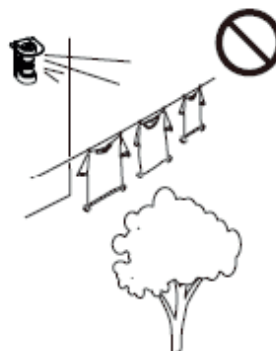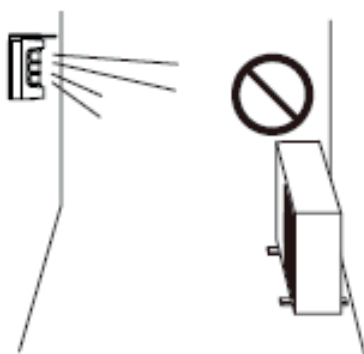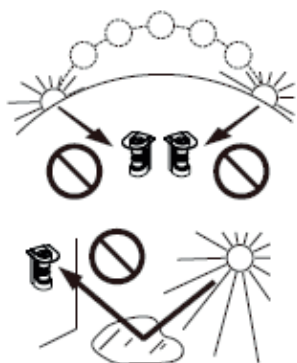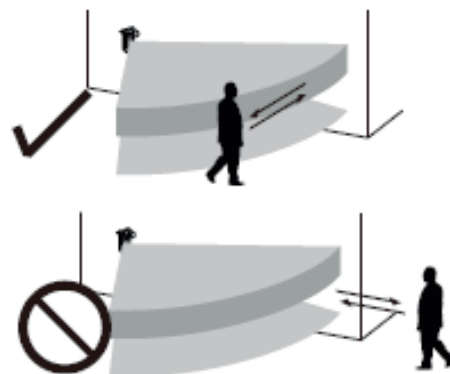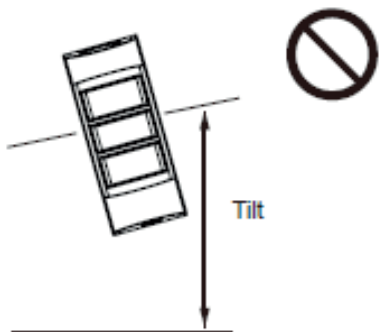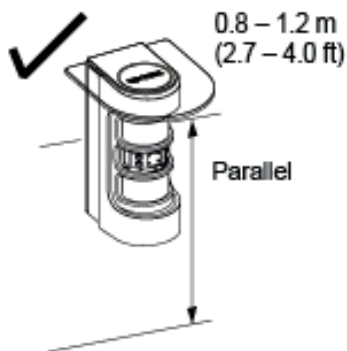
Infrared detection

The OMV-VX infrared detection has a 12 meters range with 90° detection angle.

- SMDA Logic for advanced temperature compensation and environmental noise immunity.

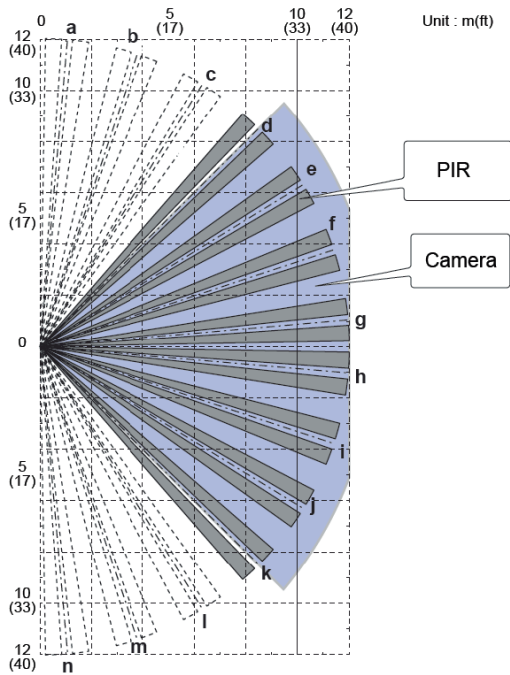- Double Conductive Shielding against bright light disturbance.

- 5 detection range adjustments.

IMPORTANT
BOTH DETECTION AREAS MUST BE BLOCKED FOR DETECTION

Both upper and lower detection area are blocked

Detection!

Only upper detection area is blocked

NO Detection

Only lower detection area is blocked

NO Detection

Important :

It is essential to monitor the proper functioning of the infrared detection using the FUNCTIONAL TEST feature in the panel MAINTENANCE menu.

A red status LED lights up when the OMV-VX is detecting. Use that test to determine the pattern of the detection field.

SIDE VIEW

Unit : m(ft)

Length limiting position 1 (Default)

Length limiting position 2

Length limiting position 3

Length limiting position 4

Length limiting position 5
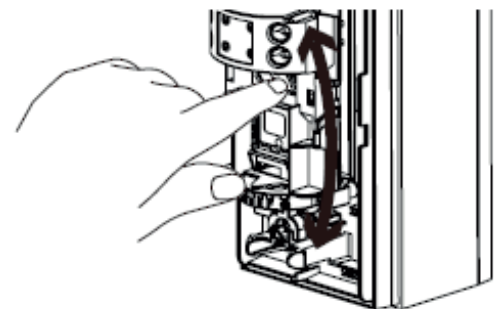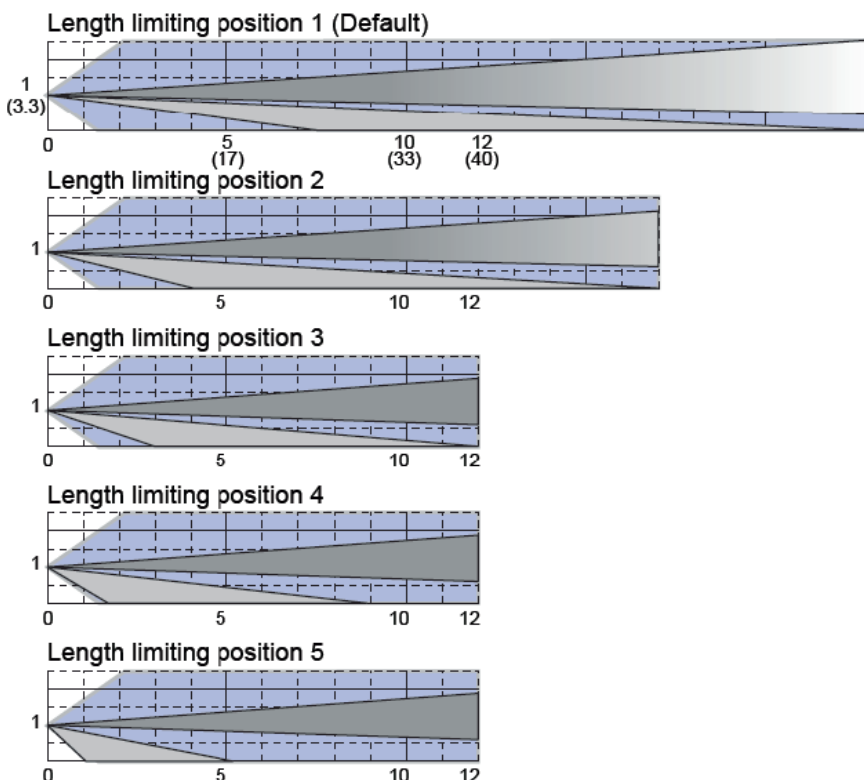
Horizontal detection adjustment
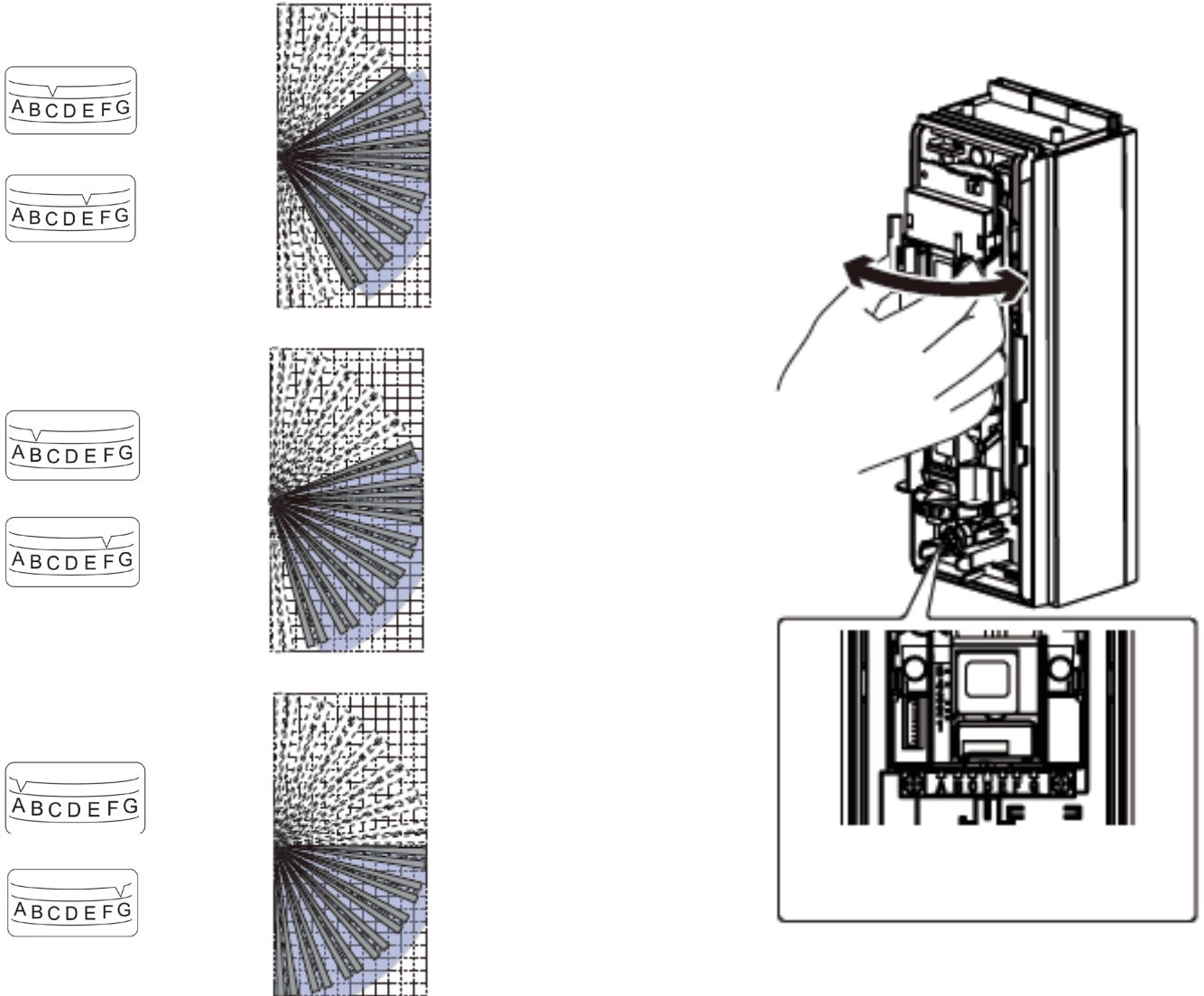
Memory clear - product reset

To clear the OMV-VX memory in order to pair it with a new panel programming, follow the procedure below :

1. Remove the batteries from the OMV-VX.

2. Leave the battery case empty for about 30 seconds.

3. Reinsert the batteries inside the OMV-VX.

4. Follow the programming procedure described on page 2.

Sensitivity adjustment

The OMV-VX detector comes with the capability of adjusting the sensitivity level of the PIR. It can improve the detection or, on the contrary, reduce false alarms. Raising sensitivity will raise detection range, the detection field will be larger and smaller thermal signatures will be detected. You should only use this feature when the site has been diagnosed as needing this adjustment. It cannot be used to optimize detection as the adjustment may be too high and generate either false alarms or missed intrusions.
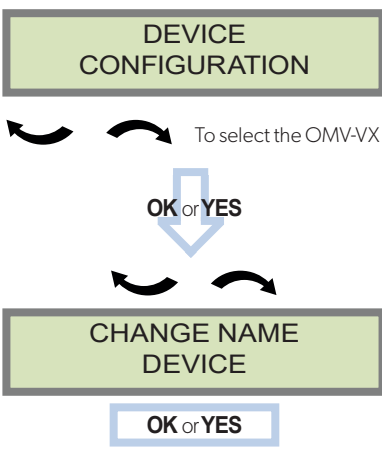
Examples : Plant growth, pets.

Please note that the detector must be installed to prevent intrusions (aim the detector towards an access point), sensitivity adjustment will have no effect if the installation doesn't comply with the installation recommendations described in this document.

Adjust sensitivity for the OMV-VX MotionViewer

To change the OMV-VX sensitivity, you need to change the **detector name**:

DEVICE CONFIGURATION

To select the OMV-VX

OK or **YES**

CHANGE NAME DEVICE

OK or **YES**

Enter the detector name then enter the **$** symbol at the end and the chosen digit (without space). The number following $ will depend on the necessary adjustment:

$ Symbol

CMA keypad : Press @ repeatedly until $ is displayed

XMA/XMB keypad : Press **1** repeatedly until $ is displayed

	SENSITIVITY ADJUSTMENT
MINIMAL SENSITIVITY	detector_name**$2**
LOW SENSITIVITY	detector_name**$1**
DEFAULT SENSITIVITY	detector_name
HIGH SENSITIVITY	detector_name**$8**
MAXIMAL SENSITIVITY	detector_name**$9**

Masking lens

The OMV-VX detector is provided with a masking kit. With this kit you can inhibit specific zones in the detection field because elements in those zones can generate false alarms, like a tree or a road.

After disassembling the detector, detach the precut elements from the kit and place them directly behind the lens at the detection beam location you wish to mask.

Once it is done, put the OMV-VX elements back together as shown below.

Disassembly

Unwanted object (Tree)

Reassembly

OMV-VX OUTDOOR VISUAL VERIFICATION DETECTOR
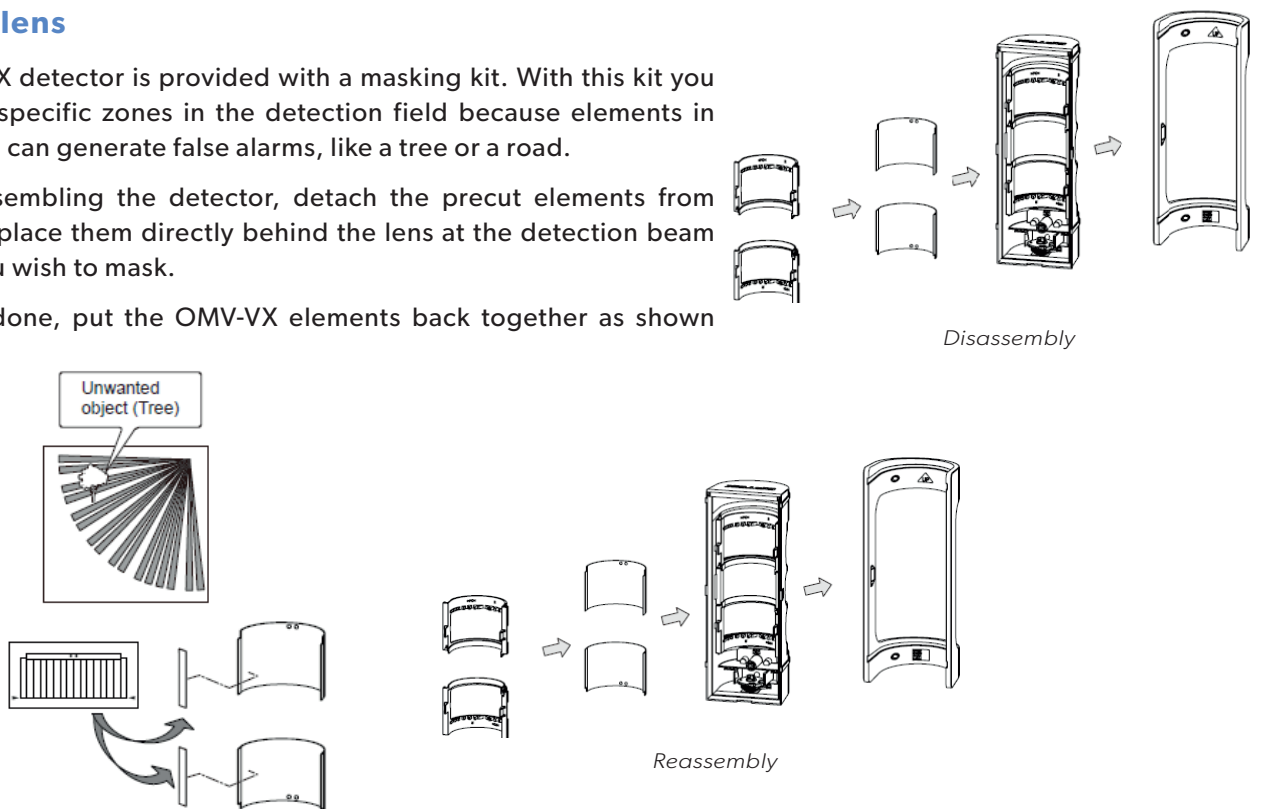
Security notes / (FR) Notes de sécurité / (DE) Hinweise zur Sicherheit

English

- *Remove the batteries before any maintenance !*
- *WARNING, there is a risk of explosion if a battery is replaced by an improper model !*
- *Observe polarity when setting up the batteries!*
- *Do not litter the batteries when they are used! Dispose of them properly according to Lithium Metal requirements*

Français

- *Retirez les piles avant toute opération de maintenance !*
- *Attention ! Il y a un risque d'explosion si la batterie utilisée est remplacée par un mauvais modèle !*
- *Respectez la polarité lors de la mise en place des piles !*
- *Ne jetez pas les batteries usagées ! Ramenez-les à votre installateur ou à un point de collecte spécialisé.*

Deutsch

- *Batterien vor jeglichen Wartungsarbeiten entfernen!*
- *Vorsicht, es besteht Explosionsgefahr, wenn eine Batterie durch eine Batterie falschen Models ersetzt wird!*
- *Achten Sie beim Einsetzen der Batterien auf die Polung!*
- *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 Video Technologies 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.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé.

Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

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.

OMV-VX OUTDOOR VISUAL VERIFICATION DETECTOR

ELECTRICAL PROPERTIES

Panel compatibility	W, X, VISIO and their variants
Power requirements	Type C - 3 Lithium batteries : • SAFT LS14500 3,6 V • Duracell CR123A 3V
Battery life	
Standard usage (up to 5 videos per month)	4 years (LS14500) 2 years (CR123A)
High usage (about 30 videos per month)	2 years (LS14500) 1 years (CR123A)
Standby current consumption	?? µA
Max current consumption	?? mA
Warm-up period	Approx. 60 seconds
Red LED indicator Programming, low voltage, program button, walk test, radio test, tamper	

RADIO PROPERTIES

RF Wiselink® technology	
Radio type	Spread spectrum bidirectionnal
Operating frequency	• 868MHz - OMV-VX 200 (Europe, Africa, Asia) • 915 MHz - OMV-VX 601 (USA, Canada, South America) • 920 MHz - OMV-VX 702 (Australia, South America)
Transmission security	AES encryption algorithm
Supervision	Radio, batteries, tamper
Radio antenna	Integrated

VIDEO PROPERTIES

| **Camera**	
Angle	Wide angle 90°
Sensor type	CMOS
Daylight video	Programmable : Color or B&W
Night video	Automatic black & white infrared
Infrared illumination	Automatic with 4 IR LEDs
Infrared illumination distance	Up to 12m
Video	
Video format	MJPEG-WMV, MJPEG-DIFF
Frame rate	5 images per second
Video duration	Programmable (10 seconds by default)
Video resolution	QVGA (320x240)
Average video file size	220 kb
Image	
Format	JPEG
Resolution	VGA (640x480)
Average image file size	8 kb

DETECTION PROPERTIES

Detection method	Passive infrared
PIR coverage	12 m 90° wide / 16 zones
PIR distance limit	12 to 2.5 m (5 levels)
Detectable speed	0.3 to 2.0 m/s
Sensitivity	2.0° C at 0.6 m/s
Detection adjustment	
Detection pattern rotation	90° left or right (7 positions)
Detection range adjustment	3m to 14m (5 positions)
Masking	PIR cells masking kit

BOX

Environmental data	
Operating temperature	-20°/+60°C
Max. relative humidity	95% max
Protection marking	IP 55

Installation / Mounting	
Mounting height	0.8 m to 1.2 m
Mounting support	Wall, pole (outdoor or indoor)
Accessories	Screw (4x 20 mm) x2, Masking seal x2
Weight	700g (without batteries)

Unit: mm (inch)
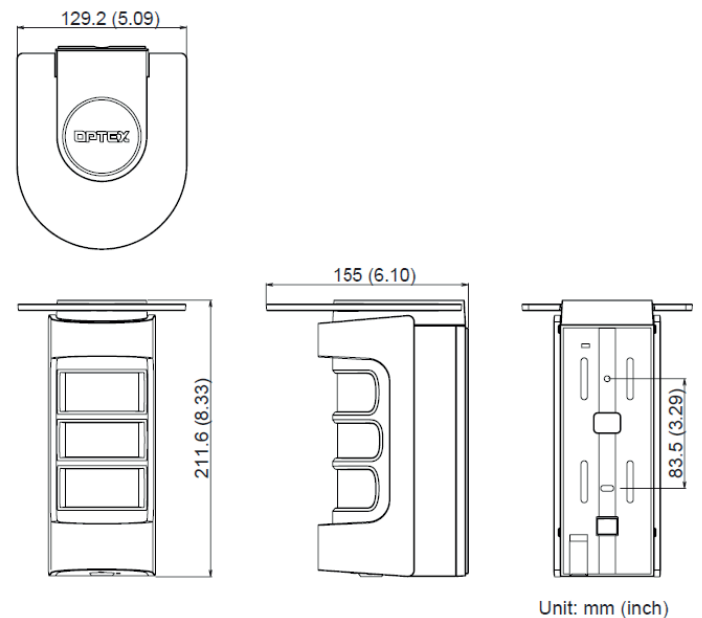
STANDARDS AND CERTIFICATIONS

868MHz (OMV-VX 200)

Compliant with the annex IV of the R&TTE Directive 1999/5/EC

915MHz (OMV-VX 601)

USA FCC	Part 15C
Canada IC	RSS-247 Issue 1

920MHz (OMV-VX 702)

Australia C-Tick	AS/NZS4268

This symbol on the product or on its packaging indicates that this product should not be treated as household waste. It must be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health. The recycling of materials will help to conserve natural resources.

For more information about recycling of this product, please contact your local municipality, your waste disposal service or the company that installed the product.

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The EC declaration of conformity of this product is available by flashing that QR code :