



OUTDOOR VISUAL VERIFICATION DETECTOR

- Wireless interactive technology
- Powered by 3 Lithium batteries for extended battery life.
- 12 m (40 ft.) by 90 degree flexible detection pattern adjustable to 5 ranges
- SMDA Logic for advanced temperature compensation and environmental noise immunity.
- Double Conductive Shielding against bright light disturbance.
- 4 infrared LEDs for 12m night vision.
- Fully weatherproof (IP55 and temperature resistant (-20° C/+60° C).

Description

The **Outdoor visual verification detector** is a wireless, battery operated camera. The camera is triggered by **motion detection**. It can also be activated by user request. It is designed for use in a Video Verification security system. Motion- activated cameras are intended for **outdoor applications** where **video- verification** is needed.

The OMV-VX consists of a digital camera, a passive infrared motion detector, and a spread spectrum Wiselink® radio module. Wiselink® is a proprietary Video Verification interactive, **encrypted** wireless circuitry for secure two way communication with the control panel.

The camera consists of a CMOS sensor and a 90° wide angle lens. Four infrared LEDs provide a **night illumination distance of up to 12 meters**. A Fresnel lens ensures passive infrared motion detection. The detection pattern is a curtain of 1m width and an optimal detection distance of 14 meters from the MotionViewer.

Install the **Outdoor visual verification** to protect outdoor installations where weather protection and perimeter protection is necessary.

When the alarm system is armed and the PIR detector is triggered, the OMV-VX transmits a signal and activates the camera, which captures a 10 second video segment (by default). The alarm panel receives the signal and responds according to system configuration and programming. The alarm and its associated video are transmitted through the alarm panel to the security server, managed by a monitoring center or a smartphone app.

The OMV-VX is powered by three lithium batteries for a typical battery life that can go **up to 4 years**, depending on the activity of the detector.

Every detector transmits a check-in signal every 8 minutes to the alarm panel in order to supervise its status.



Features

- > Wiselink Spread Spectrum, Video Verification, Interactive, AES Encrypted wireless technology provides optimum signal integrity and security.
- > Camera : CMOS sensor with 90° wide angle lens. Resolution 320 x 240 pixels.
- > Supervised : Transmits a check-in/status signal to the panel every 8 minutes indicating the unique identification code along with the current detection sensor state, tamper condition, serial number, manufacture date, software revision, and battery status.
- > Lithium batteries : up to 4 years battery-life.
- > Night illumination: up to 12 meters using four infrared LEDs.
- > The camera captures a video segment less than 100 milliseconds after motion detection.
- > Device is fully weatherproof and can withstand temperatures from -20° to 60° C.

Applications

- > Video-verification for outdoor intrusion alarms.
- > Reliable PIR detection

OUTDOOR VISUAL VERIFICATION DETECTOR

ELECTRICAL PROPERTIES

Panel compatibility	W, X, VISIO and their variants
Power requirements	Type C - 3 Lithium batteries : <ul style="list-style-type: none"> SAFT LS14500 3,6V 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	?? μ A
Max current consumption	?? mA
Warm-up period	Approx. 60 seconds
Red LED indicator	Initial, low voltage, program button, walk test radio test, tamper

RADIO PROPERTIES

RF Wiselink® technology	
Radio type	Spread spectrum bidirectional
Operating frequency	<ul style="list-style-type: none"> 868MHz - OMV-VX 200 (Europe, Africa, Asia) 915MHz - OMV-VX 601 (USA, Canada, South America) 920MHz - 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

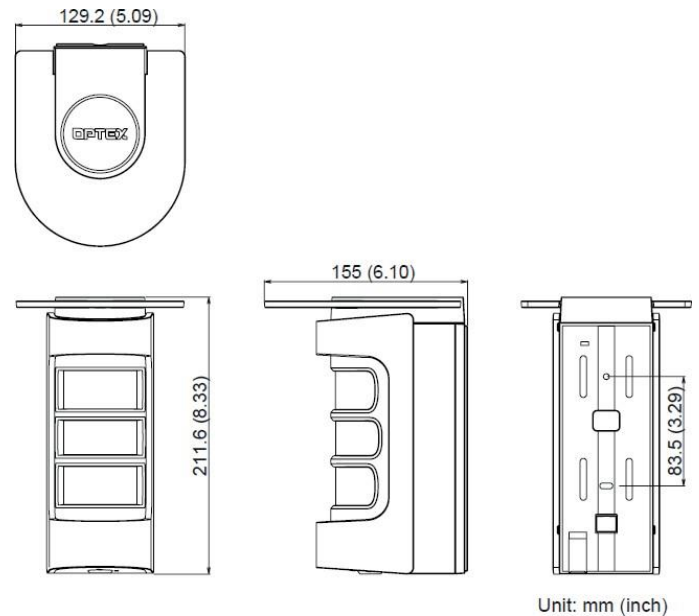
Detection method	Passive infrared
PIR coverage	12 m 90° wide / 16 zones
PIR distance limit	12 to 2.5m (5 levels)
Detectable speed	0.3 to 2.0 m/s
Sensitivity	2.0° C at 0.6 m/s
Detection adjustment	
Detection pattern rotation	90° left or right (7 positions)
Detection range adjustment	3m to 14m (5 positions)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





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)

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