SPECIFICATION SHEET

# OUTDOOR MOTION VIEWER

- Wireless interactive technology
- Powered by 4 Lithium batteries for extended battery life.
- 90° wide lens (by default).
- Provided optional lenses: vertical and horizontal curtain, long range beam (up to 18m).
- 4 infrared LEDs for 12m night vision.
- Fully weatherproof (IP54) and temperature resistant (-25°C/+70°C).
- Tilt sensor tamper.
- 3 wired programmable inputs (2 supervised).
- 1 wired programmable output triggered on detection.

## Description

The **outdoor Motion Viewer** is a wireless, **battery operated** camera. The camera is triggered by **motion detection** or **wired input** activation. 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 consists of a digital camera, 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 OMV is fitted with a wired inputs/outputs module (3 inputs/1 output, 2 inputs are supervised). A video is taken when one of the inputs is triggered. **Those inputs provide video-verification to a third-party sensor** like an infrared barrier. The wired output can activate a strobe or a projector.

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 standard detection pattern is 90° and a detection distance up to 12 meters (29 ft) from the MotionViewer. 3 additional lenses are also provided : Horizontal Curtain, Vertical Curtain, and Beam.

A mounting kit must be used with the OMV in order to ensure optimal orientation and tilt. **A built-in tilt sensor triggers a tamper alarm in case of unauthorized manipulation or change of its orientation.**

Install the OMV MotionViewer to protect outdoor installations where weather protection is necessary.

When the alarm system is armed and the infrared lens detects a movement, the OMV 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 is powered by four lithium batteries for a typical battery life of **4 years** or more, 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, and software revision.

> Tamper : After setting the location of the device the tamper will alert on any movement of the device including opening of the cover or unscrewing from the mount.

> Lithium batteries : typical 4 years battery-life.

> Night illumination: up to 12 meters using four infrared LEDs.

> Motion detector—dual-element, passive infrared with fresnel lens for up to 12m (29 ft for OMV 611) long, 90° coverage pattern (by default).

> The camera captures a video segment less than 100 milliseconds after motion detection.

> Device is fully weatherproof and can withstand temperatures from -25° to 70°C.

## Applications

> Video-verification for outdoor intrusion alarms.

SPECIFICATION SHEET

# OUTDOOR MOTION VIEWER

## ELECTRICAL PROPERTIES

| | |
|---|---|
| **Panel compatibility** | W, X and VISIO series |

| | |
|---|---|
| **Power requirements** | Type C - 4 Lithium batteries 3,6 V LS14500 |
| **Battery life** | |
| Standard usage (up to 5 videos per month) | 4 years |
| High usage (about 30 videos per month) | 2 years |
| Standby current consumption | 130 µA |
| Max current consumption | 320 mA |

## RADIO PROPERTIES

| | |
|---|---|
| **RF Wiselink® technology** | |
| Radio type | Spread spectrum bidirectionnal |
| Operating frequency | • 868MHz - OMV210 (Europe, Africa, Asia)<br>• 865/867MHz - OMV310 (India)<br>• 902/928MHz - FHSS - OMV611 (USA, Canada, South America)<br>• 915/928MHz - FHSS - OMV712, OMV713 (Australia, South America)<br>• 902/907.5MHz & 915/928MHz - FHSS - OMV810 (Brazil) |
| Transmission security | AES encryption algorithm |
| Supervision | Radio, tamper, position |
| Radio antenna | Integrated |

## VIDEO PROPERTIES

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|---|---|
| **Camera** | |
| 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

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|---|---|
| **Infrared detection specifications** | |
| Technology | Passive infrared DSP |
| Type | Dual element sensor |
| Detection lens | • 90°<br>• 1 m wide curtain (vertical or pet-immune)<br>• Long distance beam (up to 1 m diameter) |

| | |
|---|---|
| **Tamper detection** | |
| Tilt | Position change, shock, wall and cover tamper |

## BOX

| | |
|---|---|
| **Physical properties** | |
| Material | Polycarbonate UL94 |
| Dimensions | 130,5mm x 102,44mm x 141,5mm |
| Weight | 261g (without batteries) |

| | |
|---|---|
| **Environmental data** | |
| Operating temperature | -25° / +70° C |
| Max. relative humidity | 95%, without condensing |
| Protection marking | IP 54 / IK 06 |

| | |
|---|---|
| **Installation / Mounting** | |
| Mounting height | 2.5 m to 3.5 m |
| Mounting angle | 5° to 10° |
| Mounting | Use mounting kit (sold separately) |

# OUTDOOR MOTION VIEWER

## STANDARDS AND CERTIFICATIONS

| | |
|---|---|
| **OMV 210** | **868MHz** |
| Europe | Compliant with Directive 2014/53/EU for RED Radio Equipment Directive |
| **OMV 310** | **865/867 MHz** |
| India | Compliant with Certification number |
| **OMV 611** | **902/928MHz - FHSS** |
| Argentina | Certification number C-17514 |
| Canada | IC (RSS-247 issue 1) Id: 8816A-MV50 |
| Columbia | |
| Costa Rica | SUTEL |
| Mexico | IFT Certification number RCPSISI17-0298 |
| Panama | Certification number 1716 |
| Peru | Certification number TRSS38397 «En Perú, este equipo diseñado para la banda de 902-928MHz, debe ser configurado para operar solo en la banda 915-928MHz con una PIRE de hasta 1W (30dBm) y sujeto a las Condiciones de Operación que establezca el MTC.» |
| USA | (Part 15C) Id: X46MV50 |
| **OMV 712** | |
| Australia | C-Tick (AS/NZ4268) |
| **OMV 713** | **915/928MHz - FHSS** |
| Chile | SUBTEL Certification number 2660/DO_36684/F26 |
| **OMV 810** | **902/907.5MHz & 915/928MHz** |
| Brazil | Certification Number 00615-17-10210 Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário. |

## OMV 210 RF TEST REPORTS EFFECTIVE RADIATED POWER

| | |
|---|---|
| **Fmin** | |
| Frequency (MHz) | 868.1 |
| E.R.P (dBm) | 9.34 |
| **Fmax** | |
| Frequency (MHz) | 869.1 |
| E.R.P (dBm) | 8.4 |
| **F Xpaq standard** | |
| Frequency (MHz) | 869.53072 |
| E.R.P (dBm) | 8.49 |
| **F Xpaq rapid** | |
| Frequency (MHz) | 869.525 |
| E.R.P (dBm) | 10.12 |

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