

# OMVC OUTDOOR MOTION VIEWER

**DOC. - REF. 223-OMVC**  
**VERSION : SEPTEMBER 2017**

- Wireless interactive technology
- Powered by 4 Lithium batteries for extended battery life.
- Lens for vertical curtain detection - Detection pattern : 80cm width and up to 12m distance.
- 4 infrared LEDs for 12m night vision.
- Fully weatherproof (IP54) and temperature resistant (-25°C/+70°C).
- Tilt sensor tamper.

## Description

The **OMVC outdoor MotionViewer** is a wireless, **battery operated** camera. The camera is triggered by **motion detection**. It is designed for use in a Videofied® security system. Motion-activated cameras are intended for **outdoor applications** where **video-verification** is needed.

The OMVC consists of a digital camera, passive infrared motion detector, and a spread spectrum Wiselink® radio module. Wiselink® is a proprietary Videofied® 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.

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 OMVC MotionViewer to protect outdoor installations where weather protection and perimeter protection is necessary.

When the alarm system is armed and the infrared lens detects a movement, the OMVC 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 OMVC 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, Videofied, 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.

> 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 curtain detection up to 12m (29 ft for OMV 611) with a 1m width curtain.

> 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.

> Residential outdoor perimeter protection



## ELECTRICAL PROPERTIES

**Panel compatibility** W, XL, XT, XV and their variants

**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  $\mu$ A

Max current consumption 320 mA

## RADIO PROPERTIES

### RF Wiselink<sup>®</sup> technology

Radio type Spread spectrum bidirectionnal

#### Operating frequency

- 868MHz - OMVC200 (Europe, Africa, Asia)
- 865/867MHz - OMVC300 (India)
- 902/928MHz - FHSS - OMVC601 (USA, Canada, South America)
- 915/928MHz - FHSS - OMVC702, OMVC703 (Australia, South America)
- 902/907.5MHz & 915/928MHz - FHSS - OMVC800 (Brazil)

Transmission security AES encryption algorithm

Supervision Radio, batteries, tamper, position

Radio antenna Integrated

## VIDEO PROPERTIES

### 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

### Infrared detection specifications

Technology Passive infrared DSP

Type Dual element sensor

Detection lens 1 m wide curtain

### 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)

# OMVC OUTDOOR MOTION VIEWER

## STANDARDS AND CERTIFICATIONS

OMVC 200	868MHz
Europe	 Compliant with Directive 2014/53/EU for RED Radio Equipment Directive Intertek LSS (EN50131-2-2) Id: 16LHK0199-01
OMVC 300	865/867 MHz
India	 Compliant with Certification number
OMVC 601	902/928MHz - FHSS
Argentina	 Certification number C-17501
Canada	IC (RSS-247 issue 1) Id: 8816A-MV50
Columbia	
Costa Rica	SUTEL 00914-SUTEL-DGC-2017
Mexico	IFT Certification number RCPSIS17-0298
Panama	Certification number 1718
Peru	Certification number TRSS38410 «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

OMVC 702	915/928MHz - FHSS
Australia	 C-Tick (AS/NZ4268)

OMVC 703	915/928MHz - FHSS
Chile	SUBTEL Certification number 2661/DO_36683/F26

OMVC 800	902/907.5MHz & 915/928MHz
Brazil	 Certification Number 00615-17-10210 Agência Nacional de Telecomunicações 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.



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