SPECIFICATION SHEET

OMV OUTDOOR MOTION VIEWER

DOC. - REF. 223-OMV
VERSION : NOVEMBER 2015

- Wireless interactive technology
- Powered by 4 Lithium batteries for extended battery life.
- 90° wide lens (by default).
- Included 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 **OMV outdoor MotionViewer** is a wireless, **battery operated** camera. The camera is triggered by **motion detection** or **wired input** activation. It is designed for use in a Videofied® 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 S2View® radio module. S2View® is a proprietary Videofied® 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 an optimal detection distance of 12 meters 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

> S2View® 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 up to 12 m 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.

OMV OUTDOOR MOTION VIEWER

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 µA
Max current consumption	320 mA

RADIO PROPERTIES

RF S2View® technology	
Radio type	Spread spectrum bidirectionnal
Operating frequency	• 868MHz - OMV 210 (Europe, Africa, Asia)
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	• 90° • 1 m wide curtain (vertical or pet-immune) • Long distance beam (up to 1m 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)

STANDARDS AND CERTIFICATIONS

CE **868MHz (OMV 210)**

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

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

Measures for OMV210 effective radiated power show levels **below** the ETSI EN 300 220-1 and ETSI EN 300 220-2 limits.

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