

VMD960-MB



Digital Video Motion Detector Single Channel Version

Characteristics

- Small size (112x102x30 mm, 0,4 kg.)
- Worldwide compatible Black & White, Color (PAL / NTSC)
- Permanency detection (unattended or removed . static object detection)
- Object counting (visitors, vehicles, etc.)
- Easy setup via OSD menu
- 1920 independently selectable sensing pixels
- Motion analysis
- Object size and image perspective analysis
- Direction Detection (LEFT / RIGHT / UP / DOWN / ANY)
- 8+1 setup profile (including alarm zones and detection parameters)
- Input for switching day and night profile
- Variable lenght autoreset time
- Marking and following moving objects
- Sabotage protection
- Alarm Lines in the VERTICAL BLANKING
- RS232 serial port

Product Description

The VMD960-MB has a special combined motion and light analysis algorithm, which makes unnecessary the sensitive setup, providing effective detection in changing environment.

VMD960-MB has 8+1 setup profile. It is possible to use different profiles at given time range.

VMD960-MB has an NO/NC input to switch profiles, for example day time profile and night time profile with photocell, etc.

Permanency detection: the video motion detector has abandoned package or stolen object detection feature. It is detecting abandoned packages (railway stations, airports). Detecting objects removed from the scene (museum, exhibitions). Another application is detecting stopped cars on highway or detecting arriving or leaving cars at a parking lot.

Detected objects are surrounded by flashing frame until acknowledge. Alarm acknowledge could be manual, remote or automatic. It is possible set minimal object size and perspective correction, too.

One of the most important new feature is counting line-crossing objects. Field of applications is including for example counting visitors entering a shop and traffic monitoring. Measured value of the line-crossed objects in each hour is displayed on the screen and available via RS232.

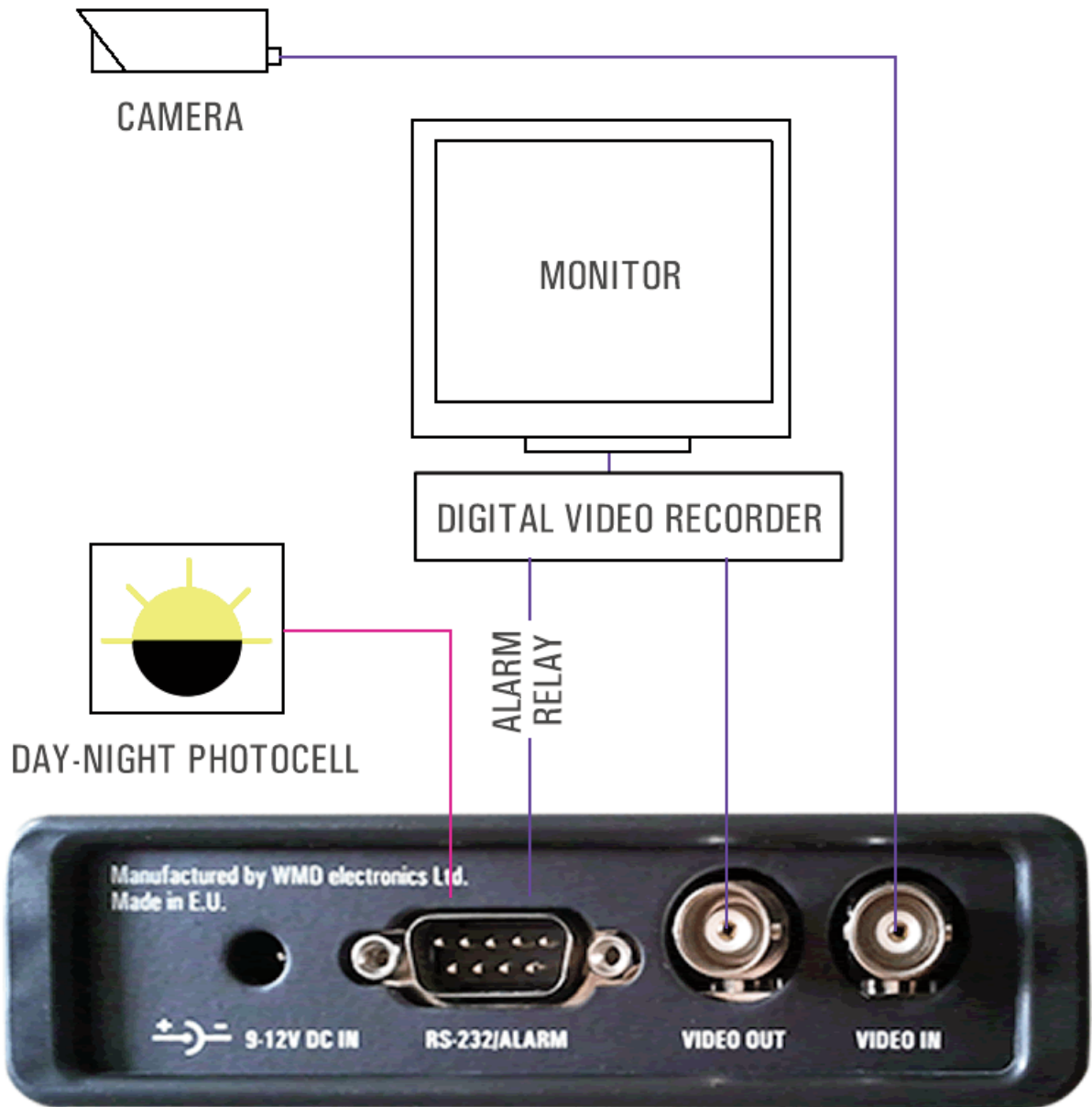
The unit analyses one camera signal for motion. Besides general applications, the units small size enables special applications.

It is especially suitable at applications, in case of there is no standard video signal transmitted to the headquarters, for example PSTN, ISDN, LAN, WAN, etc., the unit should control the beginning of transmission. In case of microwave transmission the physical environment often influence the video signal, therefore it is not recommended to use video motion detector at the end of the transmission line. In both cases the unit should be fitted between the camera and the transmitter.

On-Screen Menu makes the programming procedure simple.

Alarm signal embedded into the video signal during vertical blanking. It can be used to send the alarm signal without external wire.

Application



Specification

Video input: 1channel 1Vpp/75 ohm, Black & White/Color (PAL/NTSC, auto select), operating range 0.5 Vpp to 2 Vpp

Video output: 1channel 1Vpp/75 ohm, + 20% Window Signal, characters

Detection Sectors: 1920 independent pixel

Setup from menu: Profiles, Alternate profile, Motion analysis, Object detection, Object counting, Object size, Image perspective, Direction detection, Display, Object clear, Cover alarm, Auto reset, Alarm insert, Field setting

8+1 profile: (including alarm zones and detection parameters)
Alternate profile disable / 0 to 8

Motion analysis: 1 to 3

Object detection:

- detection time: 10sec. to 6min.
- automatic acknowledge time: from 10 sec. to 9 minutes.
- display: flashing frame

Object counting: line-crossing time: 0,5 sec. to 4 sec. hourly and daily sum

Minimum size = pixels x S (set of pixels) S = 1 to 32 valid for the whole entire screen

Maximum size = L, L=S+(2 to 32)

Image perspective

S = minimum size at the top of the selected area

S x P (set of pixels) = minimum size at the bottom of the screen

L = maximum size at the top of the selected area

L x P (set of pixels) = maximum size at the bottom of the screen

P = 1 to 32

P = 1 perspective OFF

Direction Detection: Direction Detection without zone sequencing ANY/LEFT/RIGHT/UP/DOWN

Display: ON/CHANGE/ALARM/OFF

Cover alarm: ON/OFF

Auto reset: TIME 1 to 99 sec.

Alarm insert

7 line after equalizer pulses in VERTICAL BLANK, ON/OFF

Alternate profile input: for switching day and night profile Closed to GND: night profile, open: day profile

Condition of Alarm:

- Entering into the menu
- Movement, abandoned/removed objects
- Absence of Video signal
- Covered camera optics

Alarm out: GND independent 2 Form C Relay 30V@300mA

Alarm signals: • Front Panel LED
No Alarm: Green
Detected movement: Red
Lost Video signal: Blinking
• Flashing zone on Monitor Display
• Audio Indicator (option)

RS232: For remote control

Power Requirement: 9V to 12V DC@160mA

Power supply: 9 to 12V DC@300mA

Environmental: Operating temperature: 0°C to 55°C
Storage temperature: -25°C to 75°C

Humidity: 0-95% relative, non-condensing

Size: 112H x 102D x 30V mm

Weight: 0,4 kg.