

VMD960-8

Eight Channel, Modular Version



Characteristics

- Worldwide CCTV compatibility Black & White Color (PAL / NTSC)
- Permanency detection (unattended or removed static object detection)
- Object counting (visitors, vehicles, etc.)
- Each channel has its independent VMD960x2-M module (up to 8)
- Easy setup via OSD menu
- 1920 independently selectable pixel/CH
- Motion analysis
- Object size and image perspective analysis
- Direction Detection (LEFT / RIGHT / UP / DOWN / ANY)
- Eight setups/module
- Autonom mode based on pre - written schedules even for weeks
- Programmable AUTO STEP, ALARM STEP and AUTO RESET
- Summarized and Independent Alarm Outputs for each channel
- Selected and Independent Video Outputs for each channel
- Built-in Password and Sabotage protection
- Audio indicator
- RS232 serial port
- Table-top and Rack Mount available

Product Description

WMD's VMD960-8 eight cameras Digital Video Motion Detector consists of a maximum of 8 independent VMD960x2-M motion detector modules, an alarm control center and a timeable video selector. The adjustments can be made from the menu. The motion detector module is capable of storing eight active screen area patterns and adjustments. This means that on the Image of the same camera different screen areas can be activated for different periods of time. Such a time switching of the active screen area allows for example distinction according to working hours and non-working hours, daytime and nighttime, weekdays and weekends, or any sort of special needs.

The VMD960x2-M module has a special combined motion and light analysis algorithm, which makes unnecessary the sensitivity setup, providing effective detection in changing environment.

Permanency detection: the video motion detector module 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.

Programmable Auto step - Alarm step - Auto reset and also TIMED alarm can be set up from the On-Screen Menu. Automated Channel Test and Video Signal Detection on Power-On, eliminating complicated setup procedures.

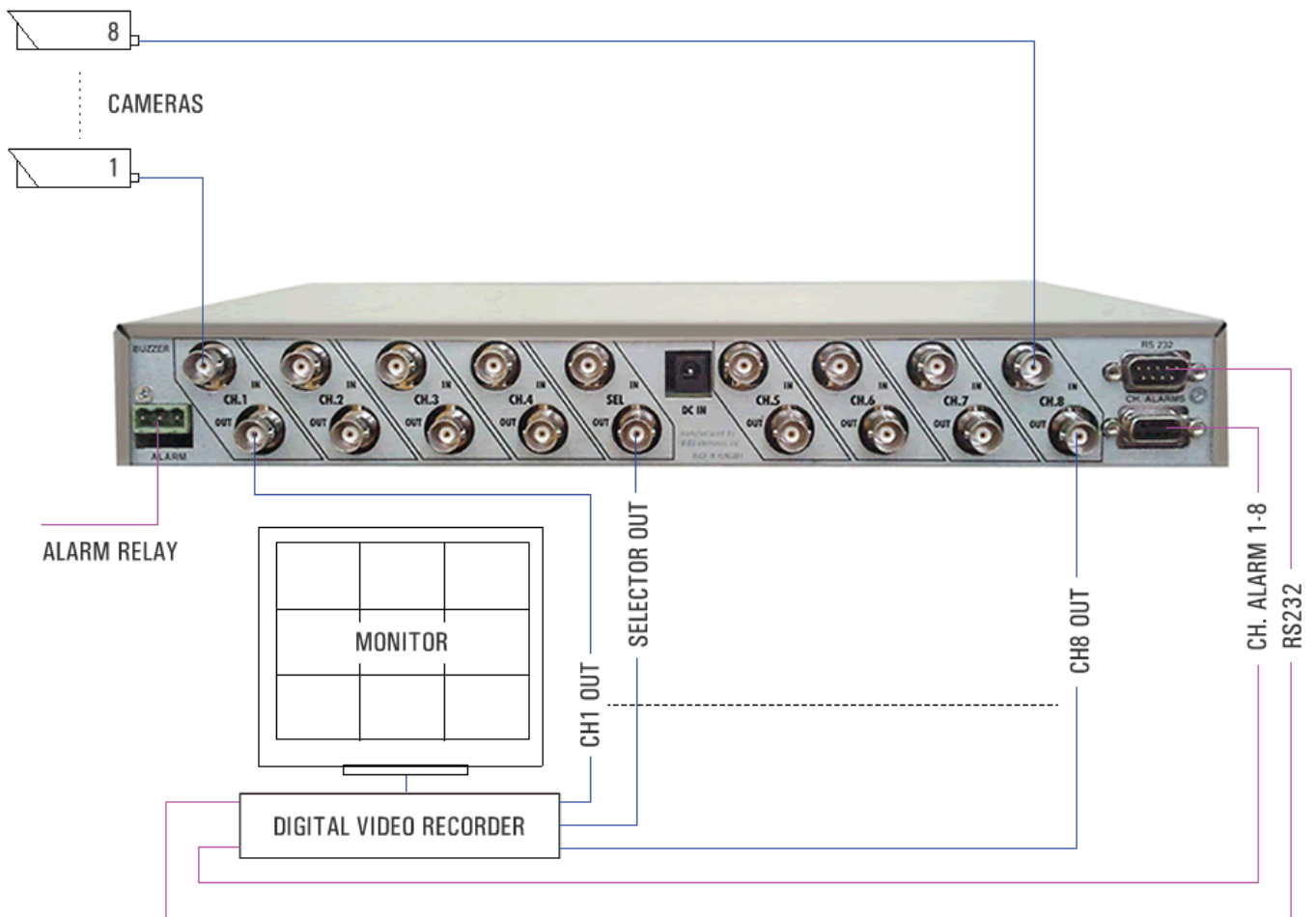
The units detects sabotage action such as video cable cut, power cut and coverage of the camera's optics. Each channel has it's independent Alarm and Video output to control an external Video Matrix, Multiplexer or VCR.

A Built-in Audio Indicator and the Front Panel LED provide audible and visual warning.

All programmed information is protected from power cut.

The VMD960-8 can be Remotely controlled from the RS232 Serial Port, which makes it's application in complex computerized security systems simple.

Applications



Specification

Video input: 1 to 8 channel 1Vpp/75 ohm, Black & White, Color (PAL/NTSC, auto select), operating range 0.5 Vpp - 2 Vpp

EXT. Video Input: 1 channel 1Vpp/75 ohm

Video output: 1 to 8 channel 1Vpp/75 ohm, + 20% Window Signal

Selected video output: 1 channel 1Vpp/75 ohm, +20% window signal+characters

Characters:

- Channel number and ALARM symbols
- Covered camera optics: black bulb
- Menu at time of programming

Menu: password protected (8 symbols)

Programmable Functions of MODULE:

Number of settings: 8 + 1 (8 can be set)

Area selection: number of pixels: 1920

Movement 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

Direction detection: OFF / RIGHT / LEFT / UP / DOWN

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

Modes for screen display: ON - the active field markings and the displaying of the image's changes are both visible.

CHANGE - only the image's change displaying is visible.

ALARM - only the alarming motion displaying is visible.

OFF - the displaying is switched off.

Time editor: time switching between the 1+eight settings of the VMD960x2-M module:

- Weekly timing, program number 32
- The time based switching can be suspended.

Programmable function of alarm control center: • Automatic stepping: 0 to 99 sec.
• Stepping of alarmed channels: 1 to 99 sec.
• ALARM audio indicator
• AUTO RESET: 0 to 99 sec.

Condition of Alarm: • Movement, abandoned/removed objects, displayed by its own symbol.
• Video signal loss
• Covered lens
• Setup from menu

Alarm acknowledge: • AUTO RESET: 0 to 99 sec.

CH Alarm outputs: Open collectors for each channel, OPEN/CLOSED selectable @max.100 mA

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

Alarm signal: • On front panel LED
• Flashing zone on Monitor Display, each alarm type is alarm symbol and channel number, correcting symbol in case of video signal loss
• 7 line after equalizer pulse in VERTICAL BLANK (insert: ON/OFF)
• Audio Indicator

Alarm reset: • Auto
• Manual (front panel push button)

RS232: For remote control, WMD and Pelco protocol

Power requirement: +5V DC@1,0 A

Power unit: PSA15W-050

Enviromental: Operating temperature: 0°C to 55°C

Storage temperature: -25°C to 75°C

Humidity: 0-95% relative, non-condensing

Dimension: 320 x 200 x 45 mm (with adapters for RACK Mount application)

Weight: 2,5 kg