

DS1-PL

Single channel Video Motion Detector



MOTION DETECTION YOU CAN TRUST

Video Motion Detectors (VMD's) provide instant alarm verification by providing a video picture to security personnel and/or recording device, thus allowing for a quick and appropriate response.

VMD systems can drastically reduce installation costs as there'll be no need to install cabling over vast distances or use some type of wireless link.

A single camera can protect a large area and can be selective in its detection in that area. With the use of "masking" (selecting only a part or parts of the video scene that the VMD will protect, ignoring activity in the unmasked portions), the VMD can discriminate between multiple zones created on one camera view. Depending on the performance (and cost), the system can be extremely sensitive, down to a single pixel of video.

Foreign and domestic governments along with private contractors worldwide depend on the DS1-PL to secure areas with people or vehicles. Powerful and sophisticated real time video processing achieves 52MiPs of computing power. The straight-forward design allows for easy installation and programming for all applications.



Standard Features

- 1 Channel Video motion detection
- Foreign and domestic governments and private contractors worldwide depend on the DS-1PL to secure areas with people or vehicles.
- Powerful and sophisticated, it's straight forward design allows for quick installation and set up.
- The DS-1PL can be configured to operate in 1 of 5 different modes: Motion detection, Motionless detection, Direction Detection, PTZ Modes and Museum Mode.

Advantages

- Gives high performance outdoor video motion detection for any application where DVRs/Multiplexers leave off as they cannot handle true outdoor video motion detection
- Hazardous areas can be monitored remotely
- Target size, velocity and sensitivity programmable
- Target tracking features
- Direction Sensing
- Change (mask) detection area dimensions (full or partial screen... multi-points)
- Multiple detection zones for one camera with separate alarm outputs for each
- Ability to accommodate for gradual illumination changes such as sunrises and sunsets
- Vibration detection and alarm suppression
- Ability to discriminate between wind, rain, snow, blowing leaves, small animals or birds
- Ethernet LAN module Adaptor available
- In many cases timed alarm responses and computer communication ports to proprietary systems or large scale matrix switchers.
- Alarm Inputs to AND/OR with other motion detection technology to further reduce false alarms
- Compatible with PTZ cameras
- DSVMD windows based software to programme, control, status included free

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Motion Detection Parameters

The **DS1-PL** has 5 motion detection parameters for true outdoor performance. Up to 8 zones (A-H) can be defined independently with the following parameters which makes the DS1-PL equal to 8 VMDs in one unit using one camera view.

- 1) A pattern grid of 288 definable areas overlay the video image when setting up motion detection. Each of these areas on the grid can be independently turned on or off. This creates inactive areas where motion detection is not needed and active areas where motion is detected.
- 2) Tracking or the target velocity setting reduces false alarms from transient or unwanted motion that exceeds the speed of the desired motion. This feature can ignore lightning, birds flying through the scene or fast moving vehicles on a roadway while detecting human walking or running motion.
- 3) Target Size setting allows for alarming based on a minimum required object size. This allows the unit to reliably distinguish between people and small animals.
- 4) Sensitivity settings compensate for low light or low contrast situations. This assures reliable operation in a variety of lighting conditions.
- 5) Direction Sensing

Viewing Modes

The DS1-PL offers several viewing modes that reduce viewing fatigue and facilitate the assessment of on-screen information.

Trace Mode outlines moving objects with a "sparkle effect" and is available in four variations:

- 1) **Normal Trace Mode** - an instantaneous sparkle effect view of the motion.
- 2) **Trace Memory** - allows the trace to accumulate on-screen continuously.
- 3) **Trace Memory / F** - flashes the accumulated memory allowing to view the underlying scene clearly.
- 4) **Trace Memory / S** - this mode accumulates the memory on-screen in 1 second intervals to clearly see the target outline and motion direction.

Blackout Mode leaves the screen black except during alarms, thus reducing viewing fatigue.

Blackout and Trace Modes can be combined to show only a black background overlaid with the trace caused by movement in the scene.

Specifications

Detection Parameters

Size Settings;	0 - 65,535 pixels
Sensitivity Settings;	0 - 99 percent
Tracking Settings;	0 - 8 seconds, in 0.1 second intervals
Zone Pattern Grid	288 Zones (NTSC or PAL)
Video Input;	BNC 1 V P-P, 75 ohm terminated
Video Output;	BNC 1 V P-P, 75 ohm term. or unterminated
Alarm Outputs;	Time; 0-99 seconds
	8 Individual zone outputs, open collector transistor (20ma@5VDC)
	1 Global Form C output, either NO/NC & Com (1A Max at 12VDC)
Alarm Input;	Hi-Z 100K ohm 12VDC Max.
Programming;	On-Screen Interactive with momentary push buttons for selection, RS-232, or Optional Ethernet LAN
Backup Memory;	Non-Volatile EEPROM memory
T/D Backup;	4 days via Super Capacitor DSI-SPL card, 90 days with NiMH DS1-PL (w/o power)
Size;	230mm(D) x 130mm(W) x 38mm(H) 9"(D) x 5 1/8"(W) x 1.5"(H)
Weight;	1 lb / .46 Kg
Construction;	Computer Beige Metal Case
Warranty;	2 year parts and labor
Power;	7-15VDC 3.3W Max 12VDC @ 160mA 12VDC @ 220mA when Alarming and Buzzer
Connector:	2.1mmx5.5mm DC Power Jack
RS-232 or LAN	Programming via PC for all Setups, Functions, printing Event Log, status outputs, upload, download with included DSVMD Software. Addressable: 0-127



Unit Configurations

Motion Detection or Motionless Detection

Up to 8 sets of motion detection parameters can be programmed and independently assigned to any definable area(s) of the pattern grid. Reference frame updated to compensate for outdoor conditions.

Direction Detection

Movement between one to four pairs of zones can be configured on the same screen to achieve direction detection.

Museum Mode

An object can be selected and any movement of the object will cause and alarm, but movement around the object will not. Reference frame fixed or manually updated to detect even the slightest movement.

PTZ Mode

The DS1-PL detects when the entire camera view is moving and disables the VMD until the image becomes stable and re-acquires the image and automatically enables the VMD.

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