VIR-50

Dual Activation Video Motion Detector

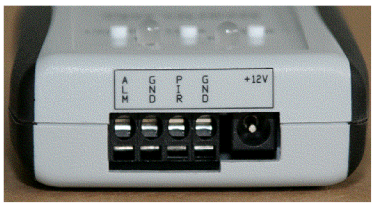
security labs

New VIR Technology

MOTION DETECTION

- Video Motion Detection w/ PIR input for dual confirmation
- False alarms are virtually eliminated
- 132 point Video Motion Detection (VMD) grid
- Selectable N.O. or N.C. PIR IN and ALARM OUT
- Programmable object velocity and size
- Menu - Set - Enter switches
- Unique power detection monitoring also eliminates false alarms caused by power fluctuations or loss of power
- Kit includes:
  12VDC power supply
  VIR-50 VMD with dual activation alarm out

(VIR-100)



VIR-50 terminal with PIR IN and dual activation ALARM OUT

VIR-50 Dual Activation Video Motion Detector

False alarms are one step closer to being solved with the creation of the VIR-50. Easily retrofit existing systems that use a PIR and camera for dual technology alarm confirmation. The VIR-50 combines video motion detection and a PIR activation signal into one smart device. The limitations of both technologies are overcome by combining their strengths in a serial format. Each element must agree on the cause for activation before an alarm output trigger is generated. Historically, passive infrared motion detectors have been plagued by false triggers from sudden heat changes or movement just outside of the desired detection zone. Video motion detection, while being able to accurately target a detection zone, can be false triggered by changes in lighting. By summing the detection devices inside of this unit, accurate detection zones without false triggers are now possible. A grid of 132 video motion detection points can be selected ON or Off to establish an exact field of coverage.

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OVERVIEW
The VIR-50 can be set to work as a stand alone video motion detector (VMD) or as a dual confirmation PIR/VMD detector. For VMD only detection, adjust the camera angle to view the area to be protected. Areas in the coverage zone that should be removed from detection are set with the on screen VMD dot grid (see below). For dual detection, a PIR (or any other N.O. or N.C. device) can be connected to the VIR-50 terminal strip. Adjust the PIR so that its detection zone overlaps the area of the camera view in which dual detection is desired In the dual detection mode, the VIR-50 will not send an ALARM out unless the PIR and VMD are both triggered.

MOTION DETECTION SETTINGS
1 - Object size (level sensitivity): This setting determines how large an object must be in order to trigger the VMD. The larger this value is set, the larger the moving object must be in order to trigger the VMD. This can be used to set the VMD to ignore pets, such as a cat or dog, but still detect movement of larger objects, such as people or vehicles.
2 - Object Velocity (temporal sensitivity): This setting determines at what speed an object must be moving in order to trigger the VMD. The larger this value is set, the slower an object must be moving in order for it to be detected. A larger setting of this value will cause the VMD to ignore things like fast moving cars, lightning strikes or other flashing lights but still detect slower moving objects such as people. A smaller setting will cause the VMD to ignore slow moving objects, but still trigger on fast moving objects.
3 - Detection Area of 132 zones (12x11grid): This setting allows the user to select which areas of the screen will respond to motion and which areas will ignore it.

PROGRAMMABLE INTERFACE
Each of the customizable settings can be configured using the 3 button interface and the on screen display driven menu system.
Button 1 = enable/disable menu system
Button 2 = select/deselect value
Button 3 = increase/decrease value
Values for object size and object velocity are displayed in a numeric value. The motion detection zones are configured by scrolling through the 12x11 grid one location at a time and selecting each individual zone as enabled or disabled.

OUTPUT OPTIONS
The VMD and the PIR can be independently enabled or disabled through the on screen menu. If both PIR and VMD are enabled, an alarm output will only occur if BOTH the VMD and the PIR detect motion. If only PIR or only VMD is enabled, an alarm output will occur only if the selected method of detection is triggered. If both methods are disabled, no alarm outputs will occur under any condition. Both the PIR input and ALARM output are programmable for either normally open or normally closed.

POWER PROTECTION/MONITORING
A "Brown out" detection feature prevents false triggers from occurring during power fluctuations, undervoltage situations, overvoltage situations, or a total loss of power.

Setting the VIR-50 VMD protection area is as simple as adjusting the camera angle. The image in the monitor is the motion detection zone. Areas in the zone (where known activity will occur) can be deactivated in the setup menu. For dual confirmation alarm detection, adjust the PIR coverage area to overlap the camera's view.