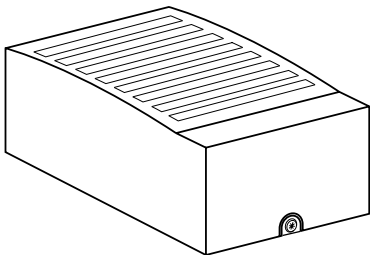


VSS7902/00T - VS79015T
VSS7905/00T - VS79055T



Security Systems

EN	Installation and Operational Manual Alarm/Action Box
FR	Manuel d'installation et d'opération Module Alarme/Intervention
DE	Installations- und Bedienungsanleitung Alarm/Aktion Box
ES	Manual de instalación y uso Caja de Alarma/Acción
NL	Installatie- en bedieningshandleiding Alarm/Actie Module
IT	Manuale de installazione ed uso Scatola Allarme/Action
PT	Manual de instalação e de instruções Caixa de Alarme/Ação
DA	Installations- og betjeningsvejledning Alarm/Handlingskasse
SV	Installations- och bruksanvisning Larm-/Åtgärdsenhet
SU	Asennus- ja käyttöohje Hälytys-/Toiminolaitteella
NO	Installasjons- og bruksanvisning Alarm/Handlingsboks
GR	Installation and Operational Manual Alarm/Action Box

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FCC DECLARATION

This device complies with part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the distance between the equipment and the receiver.
- Connect the equipment to a power socket on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

ELECTRO MAGNETIC COMPATIBILITY (EMC)

This equipment complies with European rules for EMC according to EN55013, EN55020 and EN50082-1.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

The equipment conforms with the EMC directive and low-voltage directive.

This device complies to FCC rules under test conditions that included use of system cables and connectors between system components. If you have any problems, contact your dealer.

WARNINGS

Any unauthorized modification to this equipment may cause violation of the FCC rules resulting in the revocation of the authorization to operate the equipment.

To prevent fire or shock hazard, do not expose this accessory to rain or moisture. Do not attempt to disassemble the camera. In order to prevent shock and fire hazard, do not remove screws or covers. There are no user-serviceable parts inside.



WARNING:

The exclamation mark within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

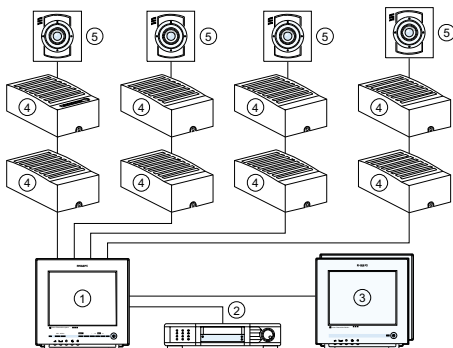
Alarm/Action Box

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INTRODUCTION

Thank you for buying this accessory for your observation system.

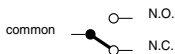


1. System monitor
2. Video recorder (VCR)
3. Slave monitor
4. Accessory boxes (0-2 per cable)
5. System cameras

The following items are included in this kit:

1. Alarm/action box
1. System cable (5m/15ft)
1. User manual
1. PIR unit (for version with PIR)
1. Cable (50 cm) for interconnection between alarm/action box and PIR (for version with PIR)

N.O. = Normally Open
N.C. = Normally Closed



The alarm/action box performs two distinct functions:

1. Action

This function, for example, opens a door remotely.

Pressing the action button of the system monitor activates a relay contact. This contact (N.O., N.C.) can activate, for instance, a door opener.

Note that the action button only activates the action box designated to the camera input whose picture is shown on the monitor screen.

2. Alarm

This function provides alarm inputs to the security system. All kinds of detectors having a N.O. or N.C. contact are supported, for example:

- infrared detectors
- smoke detectors
- magnetic door/window contacts

When a detector triggers the alarm/action box, the system monitor automatically switches to the camera input the alarm/action box is designated to. The system monitor produces an alarm and activates its alarm contact.

There are two versions of the alarm/action box: one with a Passive InfraRed (PIR) motion detector and one without. The description in this manual applies to both versions.

If the automatic camera sequence is active, it stops at the camera input in question.

INSTALLATION

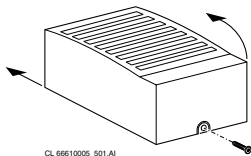
Remark: When the system configuration is altered, the system monitor needs to check and memorize the configuration of the cameras and accessories connected to its inputs.

This is done automatically when the power is switched on. Use the power switch to switch off. Operating the power save key is not sufficient.

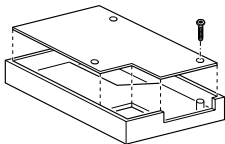
If switching off is impracticable, use the auto install option of the system monitor's install menu.

Mounting the box

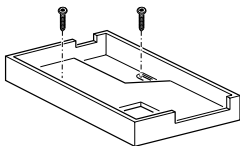
1. Loosen the screw holding the cover and remove the cover.



2. Remove the circuit board¹.



3. Fasten the bottom plate of the box with two screws.



4. Fit the circuit board.
5. Now make the connections as described in section '**Action output**'.
Remark: See section '**Installation and setting of an optional Passive Infra-Red (PIR) detector**', for installation and connection of an PIR-detector.
6. **IMPORTANT:** Adjust the settings of the circuit board switches to configure the box according to your system. See section 'settings'.
7. Fit the cover and secure the screw holding it.

Installation and setting of an optional Passive Infra-Red (PIR) detector

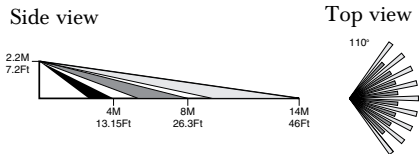
Location of the PIR

The position of the PIR determines its view.

Select a location where an eventual burglar is most likely to be detected.

Place the sensor at a height of ± 2.2 m to accomplish the largest field of view (see figure below).

Sensor range (lens position 0°)

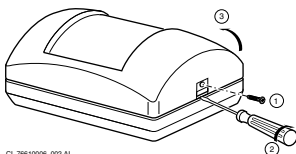


Be aware of the following before mounting the PIR:

- Avoid a location of the PIR near to radiators, heating/cooling ducts or air conditioners.
- Do not point the sensor's field of view to windows subject to direct sunlight or drafts.
- Do not block the sensor's field of view by placing large objects in its line of sight (e.g. curtains, potted plants, furniture).

Installation of the PIR

1. Remove the fixation-screw (1) and open the housing by releasing the locking latch (2). Both are located at the bottom of the unit.

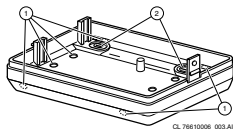


2. Remove the circuit board by loosening the fixation-screw (1).

**WARNING:**

Never touch the face of the PYRO sensor (refer to lay out drawing next page).

3. Knock out the desired mounting holes (1) and wiring holes (2) in the bottom plate.



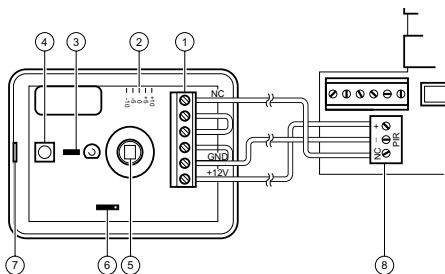
4. Thread the wires through the knocked out wiring hole(s).
5. Fasten the bottom plate with two screws, using the mounting holes.
6. Fit the circuit board.

Adjust lens position (0° , -5° or -10°) according to desired maximum sensor range (see table below).

Remark: Do not use positions $+5^\circ$ or $+10^\circ$ as they do not apply to this PIR.

Sensor height	Maximum sensor range (m) / Lens position ($^\circ$)		
	0°	-5°	-10°
2.5 m	14 m	12.5 m	11 m
2.0 m	12 m	10.5 m	9.5 m
1.5 m	10 m	8.5 m	8 m

7. Make the interconnections between the PIR and the alarm/action box with the cable supplied (see figure below).



- 1 Terminal block (for interconnection with alarm/action box)
- 2 Lens position (sensor range adjustment)
- 3 Jumper (walk test LED activated/deactivated)
- 4 Tamper switch
- 5 PYRO sensor
- 6 Jumper (1, 2 or 3 pulse count)
- 7 Locking latch
- 8 Terminal block in alarm/action box

8. Adjust settings of **walk test LED** and/or **pulse counter**, if required.
See section '**PIR settings**'.
9. Fit the front cover. Check if it is locked to the bottom side.
10. Fasten the fixation-screw.

Remark: The PIR detector will start detecting movement approximately 2 minutes after mains power-on.

PIR settings

There are 2 jumpers to set the PIR to your own requirements:

- Walk test LED
- Pulse counter (1, 2 or 3)

See previous figure for the location of the jumpers.

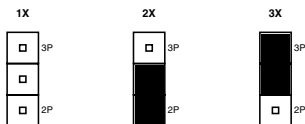
Walk test LED

- jumper installed:
Walk test LED is activated. When the PIR sensor is triggered, the LED will light.
- jumper not installed:
Walk test LED is deactivated.

Pulse counter

Set this jumper to select the number of times the sensor must be triggered (1, 2 or 3 times) before an alarm is generated.

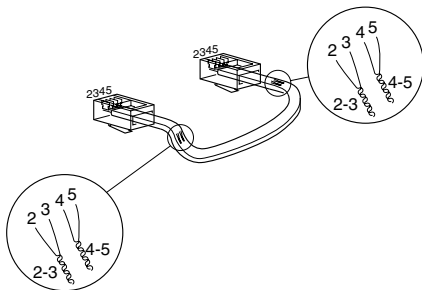
The following jumper settings are possible:



Remark: The PIR detector is equipped with a 'detection window'. In case of an alarm, 15 seconds after the last movement has been detected, a new alarm can be generated.

System cable

For the interconnections between the monitor, accessories and camera a system cable is supplied. For optimum picture and sound quality you should always use 4-wire dual twisted-pair cable when extending the connection (max. 300m/900ft). The cable and plugs are available in the hobby and professional trade. Pay attention that the connectors are fixed to the cable corresponding to the figure below.



If the cable length between monitor and camera exceeds 200m/600ft after an accessory is inserted in the line a mains power adapter should be used to power the camera (see accessories).

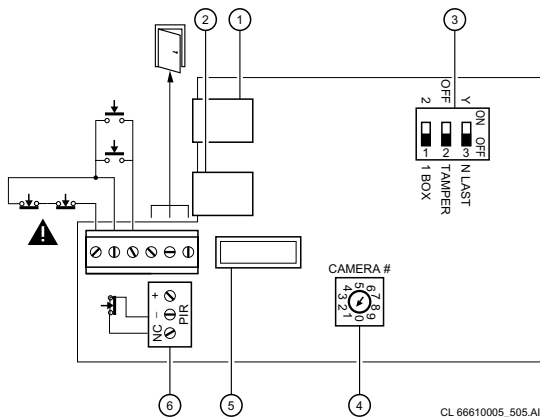
**CAUTION:**

The plugs used for the observation system have the same dimensions as standard telephone plugs. Never connect the security system with telephone equipment!

The two sockets for the system cable are interchangeable. One socket connects the box to the system component previous in the cable, the other to the next (if any).

Action output

The figure below shows the screw terminals to which, for example, a door-opener circuit can be connected.



CL 66610005_505.AI

1. System-cable input
2. System-cable output
3. Switches 1, 2 & 3

4. Rotary switch (designates the box to a camera input)
5. Tamper switch
6. Terminal block for optional Passive Infra-Red detector

Alarm input

The alarm/action box provides inputs for detectors with N.O. and N.C. contacts. The figure above shows how they are connected to the screw terminals of the box.

- Note:**
- When no detectors with N.C. contacts are used terminals **1** and **2** must be interconnected with a wire.
 - When no PIR detector is used terminals **NC** and – of terminal block (6) must be interconnected with a wire.

SETTINGS

Four switches - located inside the case, on the circuit board - are used to configure the circuit according to the system.

- The rotary switch designates the box to a particular camera input.
- The three small slide switches have the following functions:

Switch	Off	On	Description
1 BOX	1	2	number of accessories
2 TAMPER	TAMPER	OFF	tamper-switch override
3 LAST	N		

Restrictions:

- Maximum one Alarm/Action Box and/or Intercom Box per camera input.
- Box always designated to camera in line.
- Camera is always last in line.

Dedicated settings for Eazeo color systems:

- Switches 1, 2 & 3
 - #1 Any position
 - #2 OFF tamper switch active, ON override tamper switch (tamper OFF)
 - #3 always OFF (N last)
- Rotary switch
 - Any position (automatically linked to camera in line)
- PIR terminal block (Alarm/Action Box only)
 - Link NC to - when no PIR is used.

Tamper switch active

On the circuit board a tamper switch secures the box. When opening the box this switch triggers an alarm on the monitor. To suppress a continuous alarm message while servicing the system, the tamper-switch override is set in the **OFF** position.



CAUTION:

Don't forget to **reactivate** the tamper switch by switching the override to the **TAMPER** position!

Technical specifications

Alarm/Action Box

Power supply	through the system cable (24V _{DC})
Contact rating action relay	30V, 5A AC/DC
Alarm input trigger threshold	> 150 Ohm (N.C. input) < 150 Ohm (N.O. input)
System connectors	RJ11E modular ('telephone' connectors)
System cable	4-wire dual twisted pair cable e.g. VSS2906/00 or VSS2930/00
PIR angle of sight	
• horizontal	110°
• vertical	20°
Dimensions	
• without PIR	119 x 77 x 40 mm
Ambient conditions	Ammonia resistant
Temperature	
• operating	+10°C - +45°C
• storage	-25°C - +70°C
Humidity	
• operating	20... 90%RH
• storage	20... 99%RH

Specifications may be changed without notice.

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