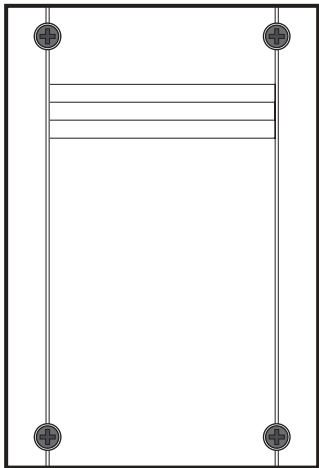


ResponseTM

SPECTRA PLUS

External Lighting Receiver



Installation Instructions

These instructions should be read in conjunction with your System Installation and Operating Manual.

INTRODUCTION

Your Spectra Switching Receiver can operate with Response 868 Security LED and LCD Control Panel to expand an existing 868MHz Security System. Alternatively, it will operate with a PIR movement detector to expand an existing Spectra Plus lighting control system (868Mhz Version). The Receiver is also compatible with Friedland Libra Plus Chimes system (Pushes).

The Switching Receiver Unit is suitable for mounting outdoors.

No Wires! - There is no physical wiring connection between the Receiver and the Security Control Panels. Instead the system uses radio technology to provide the link which makes installation even quicker and allows the Receiver to be located remotely at the most appropriate position. To prevent interference from other devices, the Receiver is coded with a unique identification code which need to be learnt into the Control Panel.

The quoted range of the system is measured in ideal conditions. Any barrier (e.g. walls/ceilings aluminium reinforced UPVC windows and metallic parts of house structures etc) between the Receiver and Control Panel will reduce the effective radio

range by an amount dependant upon the construction of and number of barriers between the Receiver and Control Panel. In extreme cases where metal barriers are involved then it is possible for the signal to be blocked out completely. Whilst the majority of installations are not adversely affected, you may have to experiment a little to discover the best location for Receiver Unit.

KIT CONTENTS

Switching Receiver

Instruction Manual

Fixing Pack containing:

- 2 x fixing screws and plastic wall plugs

- 2 x fixing screw sealing plugs

TOOLS REQUIRED

No.2 Philips screwdriver

3mm flat bladed screwdriver

Drill

6mm masonry drill bit

Wire cutter and strippers

SAFETY

Always follow the manufacturers advice when using power tools; steps, ladders etc. and wear suitable protective equipment (e.g. safety goggles) when drilling holes etc.

Before drilling holes in walls, check for hidden electricity cables and water pipes, the use of a cable/pipe locator may be advisable if in doubt.

The mains supply to this product should be installed by a competent person (e.g. a qualified electrician) in accordance with these instructions and in accordance with the appropriate clauses of the current edition of the IEEE wiring regulations (BS7671).

It is essential that all connections are made as instructed, that cables are not stressed and that terminals are fully tightened.

DANGER-230 VOLTS. To prevent the risk of electrocution, always turn off the mains electricity supply before commencing any work on the installation or opening the receiver.

Do not attempt to install or program this product while it is wet or raining.

POSITIONING THE RECEIVER

The Receiver has been designed so that it can be fitted to the wiring of an existing light fitting without the need to rewire. The cable is cut at a convenient point and the receiver connected to the cut cable ends. However, with this approach you can only use the top and bottom cable entry holes closest to terminals A and B ensuring that the supply cable is connected to Terminals A and the cable from the lights is connected to Terminals B. Important: the mains supply to existing wiring must be disconnected and isolated before installing in this way. When selecting a position for the receiver the following points should be taken into consideration:

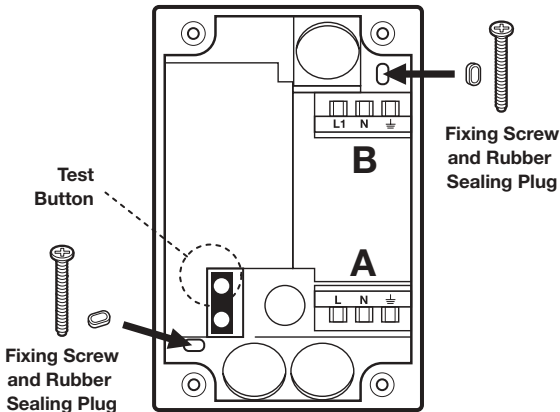
- The product should only be mounted on a sound flat surface in a vertical position, (it should not be mounted horizontally).
- The 220-240Vac 50Hz electricity supply cable must be connected to terminals A.
- The cable to the light fitting must be connected to terminals B.
- The top cable entry point hole next to terminals B cannot be used for the power supply cable.
- Only one cable (up to 14mm diameter) may be fitted through each cable grommet. The receiver unit is not designed for direct connection to conduit.

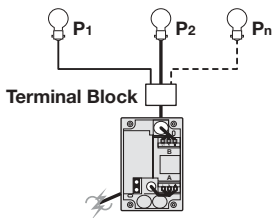
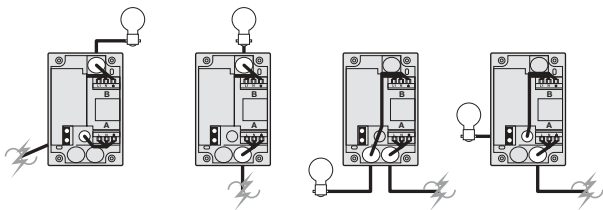
TESTING THE RECEIVER

The Receiver has a built in Test/Manual operation facility which can be operated by pressing the Learn button for under 1 second. If the lights are OFF, they will be switched on for a period of 5 seconds. If the lights are already ON, pressing the learn button will cancel any remaining time on period and immediately switch them OFF.

INSTALLING THE RECEIVER

1. Undo the four cover screws and remove the cover.

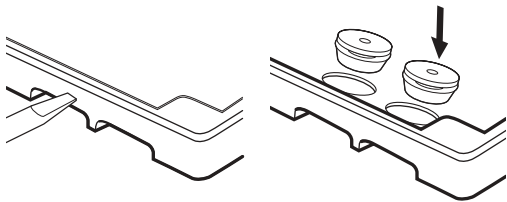




$$\sum P \leq \text{Light Bulb} \text{ } 1200\text{W}$$

$$P \leq \text{Circuit Breaker} \text{ } 250\text{W}$$

2. Select the required cable access holes according to your wiring route and prepare and fit the cable grommets as necessary. Ensure that the pierced grommets are properly positioned in the entry holes and that blank unpierced grommets are fitted in the unused entry points.



If the rear access hole is needed, use firm pressure with your screwdriver to remove the knockout and then cleanup the edges of the hole with a sharp knife to ensure a good seal for the grommet. If the cable to be passed through the access opening is too large in diameter to fit, break out the extra material with a small screwdriver or pliers to create a larger opening making sure that all sharp edges are removed.



3. Hold the receiver in the required position, ensuring that it is on a flat surface, and ensure that the cables will be able to enter the chosen entry holes and reach the terminals. Mark the position of the fixing holes and drill two 6mm holes, then insert the wall plugs (supplied).

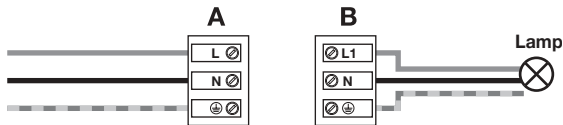
Note: If fixing to non-solid or wood surface the wallplugs will not be needed and only a small pilot hole will be required.

4. Feed the cables through the grommets as required ensuring the grommet is correctly fitted in the hole.
5. Push the fixing screws through the rubber sealing plugs. Fix the unit to the wall and tighten the screws ensuring that the rubber seals are correctly seated.
6. Cut the cable to length so that it comfortably reaches the terminals and can be neatly fitted in the enclosure without interfering with the lid when its fitted and then carefully

trim the insulation of the cable wires removing about 6mm from the ends.

7. Connect the power supply cable to Terminal Block A and the cable from the lighting load to Terminal Block B as follows:

Cable Colour	Supply Terminals A	Load Terminals B
LIVE - Brown	L	L1
NEUTRAL - Blue	N	N
EARTH - Green/Yellow		



Any bare Earth connections must be fitted with Green/Yellow Sleeving

Terminal Block A Supply Connections

Terminal Block B Supply Connections

Any bare Earth connections must be fitted with Green/Yellow Sleeving

8. Ensure the rubber gasket is correctly in position and then refit the cover and tighten the fixing screws.

Important: Do not switch on the power until the installation of the lighting is completed.

TESTING THE RECEIVER

The Receiver has a built in Test/Manual Operation facility which can be operated by pressing the Learn button for under 1 second. If the lights are OFF, they will be switched on for a period of 5seconds. If the lights are already ON, pressing the learn button will cancel any remaining time-on period and immediately switch them OFF.

EXPANDING YOUR SYSTEM

868MHz Security System

Your 868MHz Security system can be expanded by adding an additional Inline Receiver.

In order for the Control Panel to be able to activate the Spectra Lighting Receiver, the panels code must be learnt into memory on the Receiver. To do this the panel must transmit a code to it.



For LED Control Panel

Linking the LED Control Panel to Spectra Lighting Inline Receiver.

1. Place the Control Panel into Test Mode.

Press  ,     , 

User Access Code


- Place the Receiver into Learn Mode by pressing and holding the 'Learn' button on the module for 3s.
- Press  . ID codes will be sent from the panel to the Spectra Receiver...

Zone 1 LED will flash for 5 seconds while the codes are transmitted. The Receiver will automatically exit Learn mode.

Spectra Lighting Test

- Press  

The linked Spectra lighting will be activated for 5 seconds. Zone 5 LED will be illuminated during the test.

- Press  to exit Test Mode.

LED Control Panel Factory Settings

Spectra Lighting Status: Off

Spectra Lighting Time-on period: 3 minutes

Spectra Lighting Status

To place the Control Panel into Programming Mode.

Press ,    , 

User Access Code

Press  

The current status of the Spectra Lighting control features is indicated on the zone 1 LED as follow:

Spectra Lighting Control

Disabled (OFF): zone 1 LED OFF


Spectra Lighting Control

Enabled (ON): zone 1 LED ON

To change the setting:

Press 

The On/Off status will switch to the opposite state on each button press.

Press  to save the new setting and exit to Program Mode,
or

Press  to exit without saving.

Spectra Lighting Time-On Period

To place the Control Panel into Programming Mode.

Press ,    , 
User Access Code


Press **9** 


The current setting for the Spectra lighting time-on period will be displayed on the zone LEDs as follows:

Time on period	Illuminated LEDs	Selection Button
0	all off	press 0
1 minute	zone 1	press 1
2 minutes	zone 2	press 2
3 minutes	zone 3	press 3
5 minutes	zone 4	press 4
10 minutes	zone 5	press 5
20 minutes	zone 6	press 6

To change the setting:

Press the button corresponding to the required alarm period, the corresponding zone LED will illuminate as the setting is changed.

Press  to save the new setting and exit, or


Press  to exit without saving.


Spectra Lighting during Alarm Conditions

If the Control Panel is linked to a Spectra plus Lighting Receiver and the Spectra Lighting Control is enabled then any alarm condition (except Fire alarms) will cause the linked lighting to be switched on for the set light-on duration.

Note: Spectra lighting signal to be sent each time a Tamper or PA switch is triggered and each time a detector on an enabled zone is triggered when the panel is armed.

Spectra Lighting Manual - On/Auto switching

Press  to switch the linked Spectra lighting ON.

Press  to switch the linked Spectra lighting OFF and back to automatic operation.

For LCD Control Panel

Linking the LCD Control Panel to Spectra Lighting Inline Receiver.

1. Place the Control Panel into Test Mode.

Press  ,     , 
User Access Code

2. Place the Receiver into Learn Mode by pressing and holding the 'Learn' button on the module for 3s.

3. Scroll through the system menu until 'Link Panel to Spectra Lighting' is displayed.

4. Press 


The LCD will display 'Sending ID Code wait5s' for 5s.

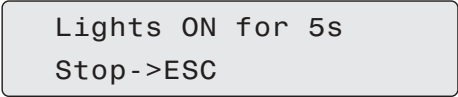
After 3 seconds a lights on signal will be transmitted by the control panel to the Spectra receiver to learn the panel's code into memory.

The Receiver will automatically exit Learn mode.


Spectra Lighting Test

1. Scroll through the menu until 'Spectra Lighting Test' is displayed on the LCD.

2. Press  to activate the linked Spectra lighting for 5s. During the test the LCD will display:



Lights ON for 5s
Stop->ESC

Press  to stop the test early.

LCD Control Panel Factory Setting

LCD Control Panel SPECTRA Lighting Setup

Set Light-On Period:	3 Minutes
Spectra Mode:	OFF
Stop Time:	06:00
Start Time:	18:00



Navigating Through the Programming Mode Menu

(Read carefully before you start).

To place the Control Panel into Programming Mode.

Press  ,     , 
User Access Code

The programmable system parameters are arranged by group in a series of menus within programming mode. Each menu (and sub-menu) will contain all programmable system parameters related to the particular function.

Note: Some basic system parameters will be contained within the system menu because they relate to a number of different functions. At each menu level use the  and  buttons to scroll through the available options.


Note: A menu item displayed in full capitals (e.g. 'USER SETUP') indicates that there is another menu below that option. An option displayed in lower case (e.g. '1.0 Master User Access Code') indicates that this is a parameter setting and no menu below, (although there maybe setting options).

Press  to:

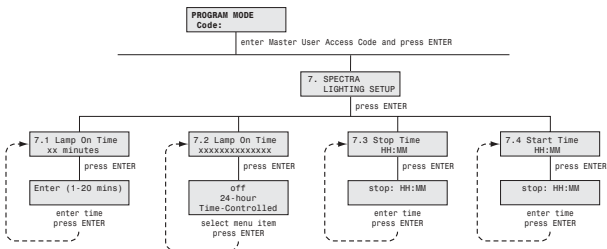
- a) select the displayed menu, or
- b) change the displayed parameter setting, or
- c) save the changed parameter setting and revert to the previous level.

Press  to:

- a) exit to the previous menu level,or
- b) revert to the previous level without saving a changed parameter setting.

Note: After programming all required functions, press  to leave Programming mode and return to Standby.

Spectra Lighting Setup



Scroll through the menu until '7.SPECTRA LIGHTING SETUP' is displayed on the LCD and press **ENTER**.

After configuring the Spectra Plus lighting press **ESC** to return to the top level programming menu.

Set Light -On Period

This controls the time period for which any linked Spectra lighting is switched on for following an alarm condition. Scroll through the system menu until '7.1 Lamp On Time' (and the current setting) is displayed.

To change the setting press **ENTER**.


Enter the required light-on period (1 to 20 minutes).

Press **ENTER** to save the new setting, or


Press **ESC** to exit without saving.

Set Lighting Operating Mode

This controls whether the Spectra Lighting is active and if it operates on a 24 hours basis or is time controlled. If time controlled it means that the user can set the time in the morning after which an alarm will no longer cause the lights to activate and the time in the evening after which an alarm will allow the lights to be activated again. This prevents the lights from being triggered during the day. Scroll through the system menu until '7.2 Spectra Mode' (and the current setting) is displayed.

To change the setting press .


Options: OFF / 24-Hour / Time-Controlled



Press  to save the new setting, or

Press  to exit without saving.

Stop Time


This controls the time of day after which triggering an alarm will no longer be able to activate the Spectra Lighting.


Scroll through the system menu until '7.3 Stop Time' (and the current setting) is displayed and press .

Enter the new time in the format 'hh:mm' using the 24 hour clock format. Press  to save the new setting, or press  to exit without saving.

Start Time

This controls the time of day after which triggering an alarm will be able to activate the Spectra Lighting.

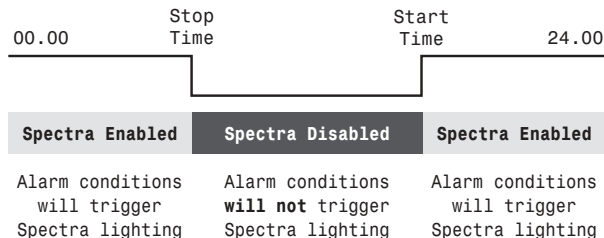
Scroll through the system menu until '7.4 Start Time' (and the current setting) is displayed and press . Enter the new time in the format 'hh:mm' using the 24 hour clock format.

Press  to save the new setting, or

Press  to exit without saving.

Spectra Lighting Status during Alarm Conditions

If the control panel is linked to a Spectra plus Lighting Receiver and the Spectra lighting Control is enabled then any alarm condition (except Fire alarms) will cause the linked lighting to be switched on for the set light-on duration.




If the spectra lighting is configured as 24-hour then the lights will be triggered at any time an alarm occurs. However, if it is configured as time controlled then the lights will only be triggered if the alarm occurs either before the programmed stop time or after the start time. If the alarm occurs between the stop and start times the lights will not be triggered.

Notes:

1. Spectra lighting signal to be sent (subject to mode and timed programmed settings) each time a Tamper or PA switch is triggered and each time a detector on an enabled zone is triggered when the panel is armed.
2. Spectra lighting will not be triggered by Smoke Alarm events.

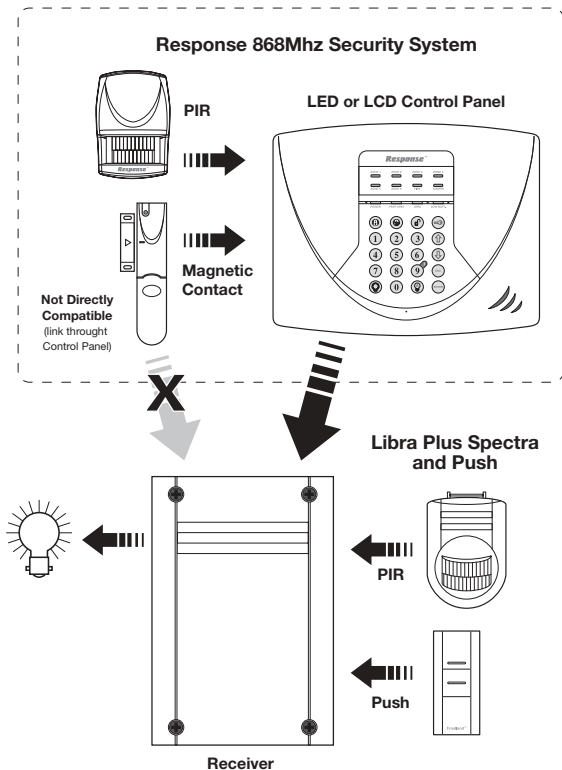
Spectra Lighting Manual-On/Auto switching

Press  switch the linked Spectra lighting ON.

Press  to switch the linked Spectra lighting OFF and back to automatic operation.

Note: Refer to respective Security System Instruction Manual for details on other settings change on the control panel.

Spectra Plus lighting control system (868Mhz version) & Friedland Libra Plus Chimes system



Your Spectra Lighting control system can also be expanded by adding additional PIR detectors and your Friedland Libra Plus Chime system can also be expanded by linking in Libra Plus door chime pushes. Up to a maximum of 10 PIRs or Chime Pushes may be linked to the receiver. Remember that if you have more than one PIR Detector in the same system the light or lights will stay on until the last detector no longer detects any movement, and then continue to be illuminated for the duration of the 'light on' timing you have chosen.

Important: Do not attempt to reset your Receiver or learn the codes of additional devices to expand your system if it is set or raining and always follow manufacturers' guidelines when using ladders.

Notes: Signals from existing linked devices will not activate the lights while the receiver is in program mode. If no signal is received within 3 minutes the receiver will automatically exit program mode.

ADDING A SPECTRA PLUS WIRELESS PIR DETECTOR

To program an additional PIR into the receiver first activate the PIR and configure it for "Walk Testing". Undo the four cover screws and remove the cover from the Receiver. Press and hold the program button for approximately 3 seconds until the LED starts flashing slowly and program mode is activated.

The LED will continue to flash slowly waiting for a signal from a device. Trigger the PIR detector by moving around in front of it, the receiver will record the ID code of the door push into memory and automatically exit program mode.

ADDING A LIBRA PLUS CHIME PUSH SWITCH

The receiver can be linked to a Friedland Libra Plus Door Push which will activate the lighting for a fixed time period of 3minutes. To program a Libra Plus Door Push into the receiver first undo the four cover screws and remove the cover. Press and hold the program button for approximately 3 seconds until the LED starts flashing slowly and program mode is activated.

The LED will continue to flash slowly waiting for a signal from a device. Press the button on the Libra Plus Door Push, the receiver will record the ID code of the door push into memory and automatically exit program mode.

RESETTING THE RECEIVER FOR ALL SYSTEMS

If for any reason you need to completely reset the receiver and erase all linked devices:

First undo the four cover screws and remove the cover. Press and hold the program button for 10 seconds until the LED

starts flashing quickly. The LED will continue to flash for 5s while any linked devices are being erased. The LED will then flash slowly waiting for a signal from a device to be linked.

The Receiver will now have to relearn the identification codes of any devices in your system.

TROUBLESHOOTING

If your wireless system fails to work properly, complete the relevant test or tests which follow.

Note: Also refer to the troubleshooting guide in your Security System, Chime or PIR and Switching Receiver Kit manual.

The linked devices does not activate Switching Receiver and lights at all.

1. Check that the battery in the PIR is not exhausted.
2. Check that the power to the Receiver is switched ON.
3. Check the bulb and replace if defective. Ensure that the light bulb is correctly fitted.
4. Turn OFF the power to the unit and check the wiring connections as per the wiring diagram. Ensure all connections are correct and terminals are tight. Check the connections at the Security Control Panels, switch, PIR and Light.
5. Check that the fuse or Miniature Circuit Breaker (MCB) supplying the lighting circuit has not blow nor tripped. Before replacing the fuse or resetting the MCB be sure to check for the cause.
6. Check that the Receiver has correctly learned the Control Panel or PIR identification code by following the test procedure. If necessary reset the Receiver and relearn the code.

PIR activates Switching Receiver during the day and not during the night.

1. Check that the PIR operating switch is set to the NIGHT position.
-

PIR activates Switching Receiver during the day as well as at night.

1. The ambient level of light at the Detector may be too low for the current dusk setting permanently simulating night-time. In normal daylight, adjust the dusk control slightly anti clockwise. Wait outside the detection area until the light goes out, then re-enter it to see if the movement activates the light. If necessary continue to adjust the dusk setting until movement does not activate the light. In extreme cases it may be necessary to reposition the PIR.
-

SPECIFICATION

Switching Receiver

Power supply: 230 Vac ~ 50 Hz

Load switching capacity:

Tungsten Filament: 1200 W

Tungsten Halogen: 1200 W

Fluorescent: 250 W

Note: Not suitable for compact fluorescent lamps

Protection: IP54

Operating temperature: - 20°C to +50°C

Operating frequency: 868 MHz

RF range: see transmitter device spec

No of linkable devices: 10

MAINTENANCE

The product may be cleaned with a soft damp cloth and then wiped dry. Do not use abrasive, solvent based or aerosol cleaners as this may damage and/or discolour the product. Take care not to accidentally move the detector head. Do not allow water to enter or attempt to clean inside the units.

Changing the PIR battery: Change the PIR battery immediately the low battery indication is noticed, (i.e. the red LED behind the detector lens flashes 5 times after each movement detection). Only fit a new Alkaline PP3 (6LR61) battery.

DISPOSAL AND RECYCLING

Batteries and waste electrical products should not be disposed of with household waste. Please recycle where these facilities exist. Check with your local authority or retailer for recycling advice.



DECLARATION

Novar ED&S hereby declares that this product is in compliance with the essential requirements and other relevant provisions of the Radio and Telecommunications Terminal Equipment (R&TTE) directive, 1999/5/EC.

CUSTOMER HELPLINE

Most issues can be solved over the phone in a few minutes.

Please contact our Helpline Team on the number below for any installation and general advice regarding our products:

0844 736 9149

Lines open 9.00am to 5.00pm, Monday to Friday.
Calls charged at service providers national rate.

GUARANTEE

Novar ED&S undertakes to replace or repair at its discretion goods (excluding non rechargeable batteries) should they become defective within 1 year solely as a result of faulty materials and workmanship.

If the product has not been installed, operated or maintained in accordance with the instructions, has not been used appropriately or if any attempt has been made to rectify, dismantle or alter the product in any way the guarantee will be invalidated.

The guarantee states Novar ED&S entire liability. It does not extend to cover consequential loss or damage or installation costs arising from the defective product. This guarantee does not in any way affect the statutory or other rights of a consumer and applies to products installed within UK and Eire only.

If an item develops a fault, the product must be returned to the point of sale with:

1. Proof of purchase.
2. A full description of the fault.
3. All relevant batteries (disconnected).

Response is a trademark of Novar ED&S.



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