



Professional Remote Control Systems

Applications

- Garden Lighting
- Pond pumps
- Remote outdoor Switching
- Access control
- Industrial control

Features

- 4 switched channels
1000W rated
- Systems with 250m or
1000m range
- 230Vac supply
- Completely waterproof ABS
enclosure (IP68)
- All outputs momentary,
latching or timed
- Any switch maps to any switch
or multiple switches
- Systems supplied 'ready to go'
- 868MHz Reliable FM
Technology
- EMC Compliant for Europe
- 10 Cable entry points for easy
installation.



Description

Whatever your switching application the **ELITE Remote control system** with 4 individual 230V outputs and it's completely waterproof IP68 enclosure will be a great choice.

The **ELITE remote control system** has been designed with the requirements of electricians in mind and therefore it can be used to switch all lighting types as well as other applications such as Water Features, Electric gates and Garage Doors.

Each receiver has 4 switched outputs. Using our one touch 'easy-learn' process each relay can be controlled from any switch on any compatible transmitter.

Thanks to the latest technology each of the 4 outputs on the **ELITE remote control system** can be set to operate in a timed, momentary or latching mode allowing for complete flexibility.

System Part Numbering



Part Number	Description	Receiver Power Supply	Range** (Metres)
ELITE-S4	System 4 outputs	230Vac	250
ELITE-XS4	System 4 outputs	230Vac	1000m
ELITE-RX	Receiver 4 output	230Vac	-

**Range stated is optimum—Line of Sight

Additional Transmitters

Transmitters ship with: Wall Mounting Cradle and Lanyard



ELITE-X Series 2000m Range Transmitters

Part Number	Description
ELITE-XT1	Transmitter 1 switch
ELITE-XT2	Transmitter 2 switch
ELITE-XT4	Transmitter 4 switch
ELITE-XT6	Transmitter 4 Switch + All ON/OFF
ELITE-XT8	Transmitter 8 switch
ELITE-XT16	Transmitter 16 switch (8Sw + Shift Key)
FIREFLY-TX-IPKIT	'O' Ring, Seals Transmitter to IP68

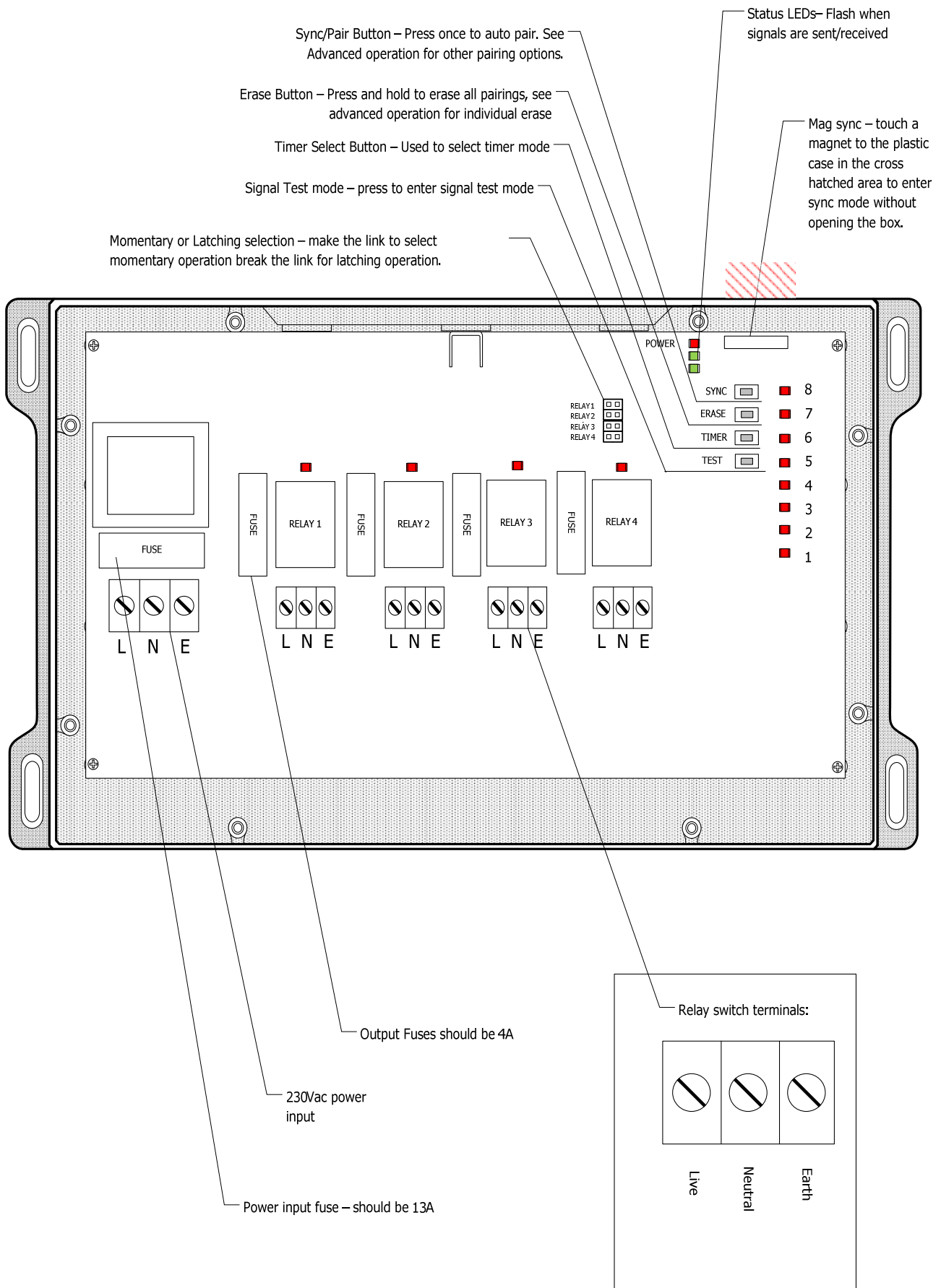
Transmitter dimensions and details on page 7

ELITE Series 250m Range Transmitters

Part Number	Description
ELITE-T6	Transmitter 4 Switch + All ON/OFF

Transmitter dimensions and details on page 7

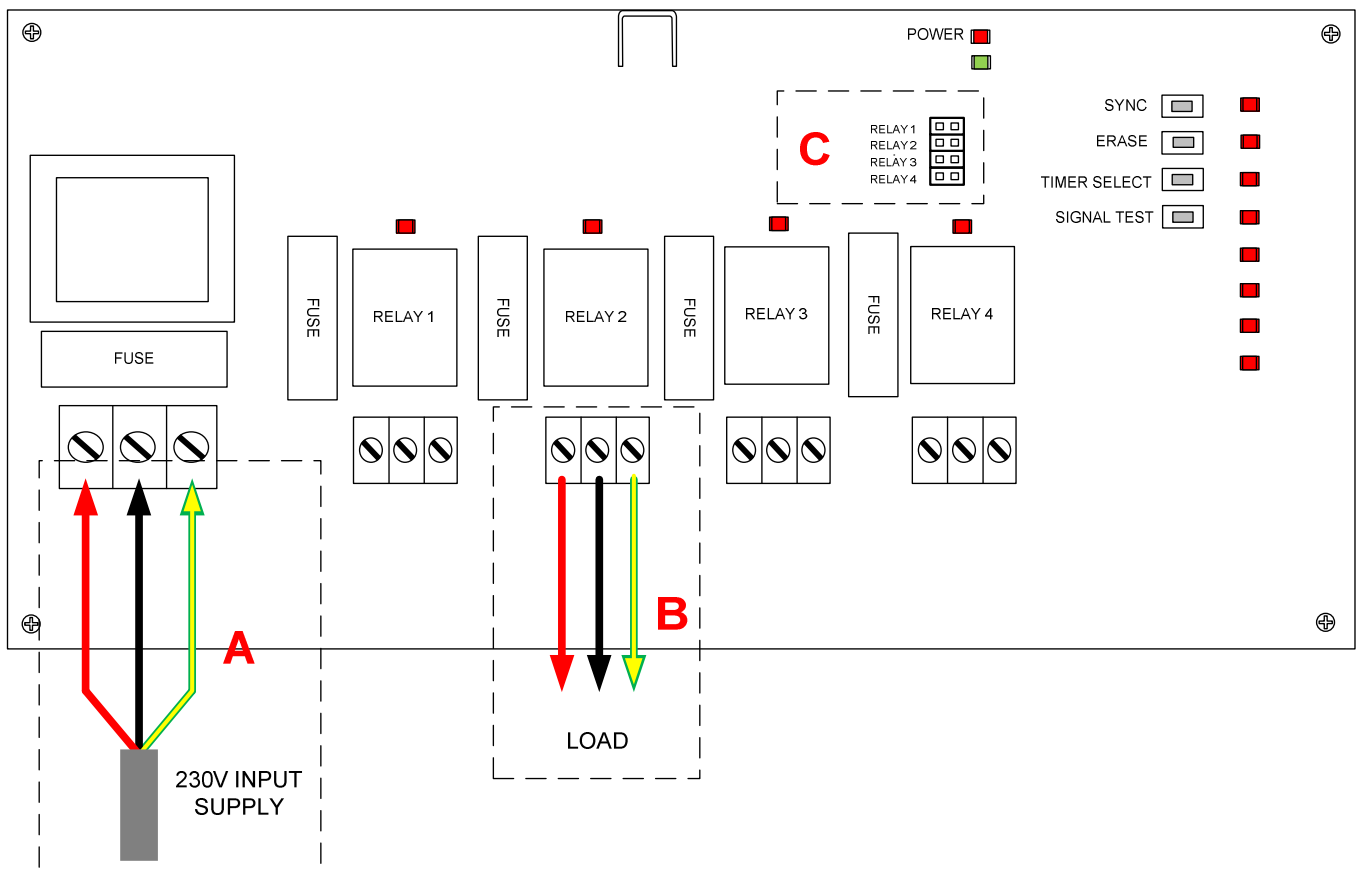




Quick Installation Guide (systems only)

The Elite system provides 4 switches each capable of switching up to 1KW (4A @ 230V). Each channel is independent and separately fused. The ELITE Remote control system provides 230V mains switched outputs via each terminal.

1. First mount the ELITE system receiver box in the wall in your desired location (see Page 7 for wall mounting dimensions and information).
2. Open the enclosure by removing fixing screws from the enclosure front and then removing the front from the enclosure.
3. Wire the LIVE Neutral and Earth connections to the power supply screw terminal as shown below **(shown as A)**.
4. Wire your load(s) as required **(shown as B)**
5. Once all required wiring is complete, use the handheld ELITE transmitter to switch the outputs on and off.
6. As supplied the handheld will operate the outputs - Button 1 to output 1, Button 2 to output 2 etc.
7. All buttons will operate in a latching mode - Press for on, press again for off. It is possible to change the operation to momentary mode by fitting the links **(shown as C)**
8. For advanced operation such as adding extra transmitters different button mapping options see advanced operation section.



Advanced operation

The ELITE system comes with one transmitter, this is already SYNC'ed and will operate the system out of the box.

To AUTO-SNYC a new transmitter

1. To SYNC a new ELITE handheld transmitter to the receiver box - simply press the SNYC button on the ELITE receiver board. (see page 3 for button locations)
2. The ELITE receiver will flash all of its relay output LEDs at a high rate to show that it is ready for AUTO-SYNC.
3. Press ANY button on the transmitter handheld that you wish to SNYC to the receiver.
4. All flashing LEDs will go out, LED 8 will flash quickly for 2 seconds then go out.
5. The ELITE receiver will then exit SYNC mode and return to normal operating mode - you may now use the transmitter to switch the outputs.

MANUAL-SYNC individual transmitter buttons (advanced)

1. To SYNC a specific ELITE handheld transmitter button to a specific output on the ELITE receiver box - press the SNYC button on the ELITE receiver board. (see page 3 for button locations).
2. The ELITE receiver will flash all its relay output LEDs at a high rate to show that it is ready for SYNC.
3. Press the SYNC button again - the ELITE receiver will flash output LED 1 only - this is showing that output 1 is selected. Pressing the SYNC button again will select output 2 and so on to output 4.
4. Once you have selected the required output (that output LED only is flashing) press ANY button on the transmitter handheld that you wish to SNYC to the receiver.
5. The flashing LEDs will go out, LED 8 will flash quickly for 2 seconds then go out.

NOTE: After a successful pairing the Elite-RX will exit SYNC mode automatically.
You cannot SYNC ALL and MANUAL SYNC a single transmitter.

Erasing ALL transmitters:

1. Open the case and apply power
2. Press and hold the ERASE button for 10 seconds
3. All relay LEDs flash together and then go out
4. Erase complete, you can now follow the pairing process to pair your transmitters to the receiver.

ERASE Individual Transmitters:

1. Open the case and apply power
2. Press and release the ERASE button
3. The LED next to ERASE should remain lit and all relay LEDs will be flashing
4. Press any button on the transmitter to be erased
5. All output LEDs will go out to show that the transmitter has been erased
6. The ELITE will exit to normal operating mode

Erasing ALL Timers:

1. Open the case and apply power
2. Press and hold the TIMER button for 10 seconds,
3. A single relay LED will be flashing
4. When all Relay LED flash together and then go out the timer erase process is complete.
5. All relays will operate as per their jumper settings.

Advanced operation continued...

Installation TEST MODE

The ELITE comes with an in-built test mode which allows a user to check the signal strength of any compatible handheld:

1. Press the SIGNAL TEST button on the PCB
2. Press any button/activate the transmitter which you want to test
3. LEDs 1-8 will show a bar graph of the signal strength - the more LEDs on the better the signal

TIP: Try the transmitter in the location where it will be used to make sure it will work once installation is complete.

Note: When in test mode and paired transmitter will still activate its relay.
For reliable communications please ensure at least 3 LED's are lit.

Installation TIMER SELECT MODE

NOTE: As default all timers are set to 0 seconds.

The ELITE has a timer option which can be set individually on each output. Meaning that you can set any output to de-activate after a different amount of time should you wish

1. To enter timer select mode - Press the TIMER SELECT button
2. Select your chosen output by pressing the TIMER SELECT button to scroll through each relay in turn
3. When the LED for the required output is flashing wait until it becomes solidly LIT
4. Press the TIMER SELECT button again to increase the timer delay in line with the table below
5. When you have selected the required delay, wait 3 seconds. All Red LEDs will flash to show that the setting is saved

0 LED	1 LED	2 LED	3 LED	4 LED	5 LED	6 LED	7 LED	8 LED
0s	½ s	5s	10s	30s	1m	10m	30m	1hr

Note: Settings are saved even after power is removed.

When zero LED's are lit the relays will operate as per the jumper links. Momentary or latching.

Setting MOMENTARY / LATCHING links

NOTE: As default all relay switches are latching.

It is possible to set the relay switches on the ELITE receiver to either momentary or latching operation (Latching - one press for on, one press for off, Momentary - On while button is held only)

1. Remove all power from the receiver and then open the ELITE-RX receiver enclosure. Unscrew the antenna and slide out the PCB.
2. The Momentary/Latching Setting links are in the position shown as **(C)** page 4.
3. To set a relay switch to momentary, simply set the links as per the below table for the appropriate relay switch.
4. Re-assemble the ELITE-RX and re-apply the power.

Technical Specifications

Transmitters: ELITE-Tn

Enclosure Rating: Not waterproofed
 Battery Type: CR2032 (supplied)
 Battery Life: 3 years @ approx 50 1/2second presses p/day
 Dimensions: 86 x 54 x 7 mm

Changing the Battery: Carefully squeeze in the battery lock tab on the base of the transmitter, and then pull out the battery tray

Electrical Characteristics	Min	Typical	Max	Units
Supply Voltage		3V		V
Frequency:		869.500		MHz
RF Output Power (ERP) @ 868 MHz	-	3		mW

Transmitters: ELITE-Xn

Enclosure Rating: Standard IPx8
 Battery Type: 3 x AAA (supplied)
 Battery Life: 5 years @ approx. 50 1/2second presses p/day
 Dimensions: 90 x 54 x 27 mm

Changing the Battery: Remove the six fixing screws. Remove 2 battery compartment screws and replace batteries, taking care of cables and battery polarity

Electrical Characteristics	Min	Typical	Max	Units
Supply Voltage		4.5V		V
Frequency:		869.500		MHz
RF Output Power (ERP) @ 868 MHz	-	50	100mW	mW

Receiver Decoder: ELITE-RX

Enclosure Rating: IP68
 Dimensions: 267 x 148 x 78 mm (not including antenna)
 Storage Temperature: -10 to +70° Celsius.
 Operating Temperature: -10 to +50° Celsius.

ELECTRICAL CHARACTERISTICS	MIN	TYPICAL	MAX	DIMENSION
Supply Voltage for +230 VAC		230Vac		VDC
Relay Rating* (230Vac) RLY1-4		5rms	12peak	A
Supply Current : Quiescent All relays operating*		40 140		mA
Time delay from Tx on Switch to Rx Relay operation			30	mS
Time delay from Tx sw relax to Rx Relay release			30	mS

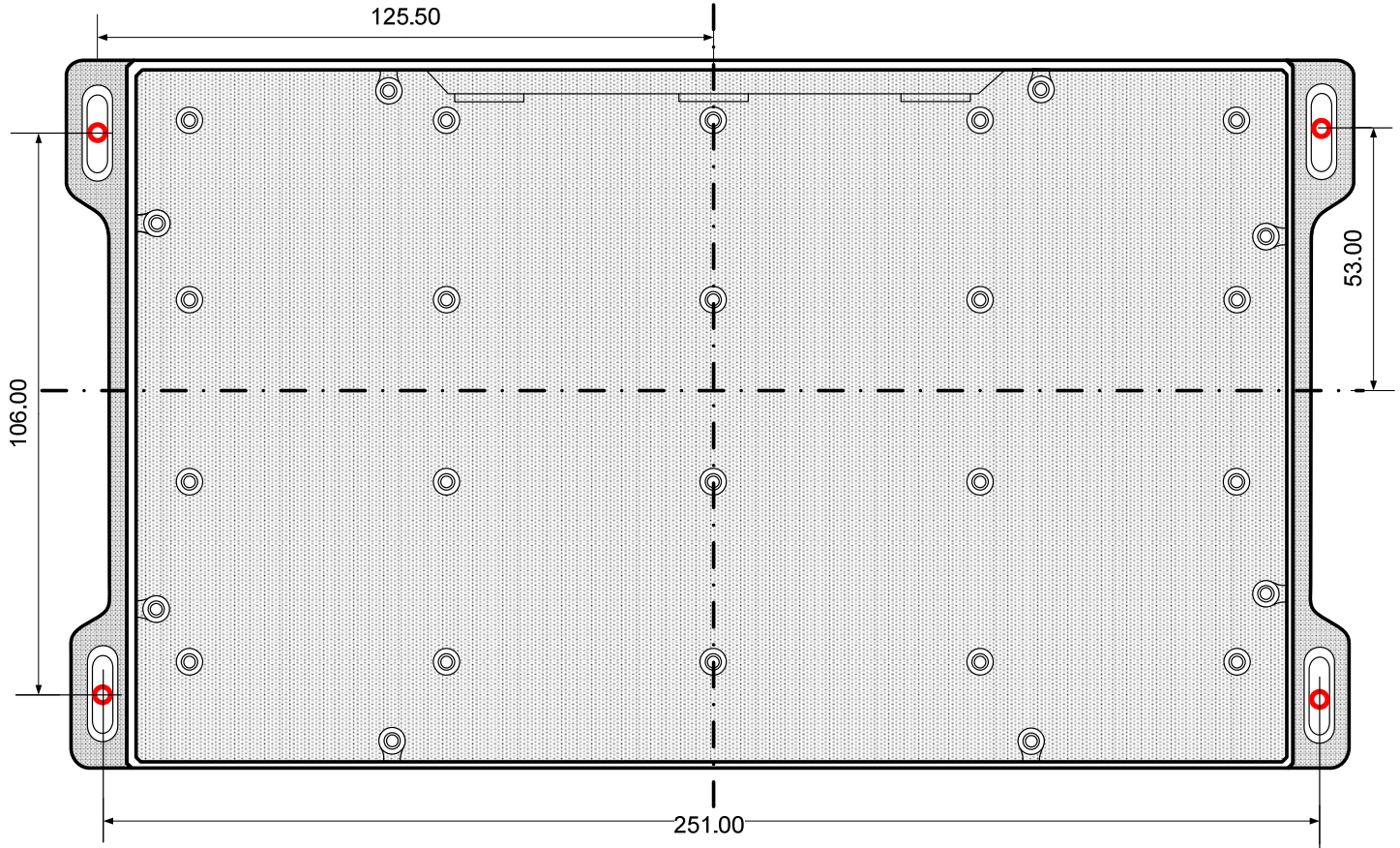
***The relay contacts in this unit are for functional use only and must not be used for isolation purposes**

Approvals Information:

- All RF Solutions products are manufactured in accordance with our ISO:9001 Quality System
- ELITE Systems are manufactured to CE standards
- Further information available on request.

Wall Mounting template (not to scale)

All Dimensions in mm



RF Solutions Ltd. Recycling Notice

Meets the following EC Directives:

DO NOT

Discard with normal waste, please recycle.

ROHS Directive 2002/95/EC

Specifies certain limits for hazardous substances.

WEEE Directive 2002/96/EC

Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfills its WEEE obligations by membership of an approved compliance scheme.

Waste Batteries and Accumulators Directive 2006/66/EC

Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

Environment Agency producer registration number: WEE/JB0104WV.

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