

Wired and Wireless CCTV  
Wired and Wireless Alarms  
Detectors and Lights  
Mini Alarms  
Security Bells and Horns

## Wired and Wireless CCTV

- Wireless CCTV
- Wired CCTV
- Wired CCTV - Heavy Duty
- Wired CCTV - Professional
- Wired CCTV - Accessories
- Dummy CCTV Cameras

## Wired and Wireless Alarms

- Response Wireless Alarm Systems

## Detectors and Lights

- Spectra + Wired PIR Detectors
- Spectra + Wirefree PIR Detectors
- Spectra Detectors and Lights

## Mini Alarms

- Mini Alarm

## Security Bells and Horns

- Security Bells
- Security Horns

[www.friedland.co.uk](http://www.friedland.co.uk)

technical hotline +44 (0) 8447 369149

Friedland is synonymous with innovation and excellence, with a prestigious history of design, manufacture and supply of high quality Wirefree and Wired CCTV, Alarms, PIR Lighting and many other security products.

#### **Over 60 years committed to quality**

Our reputation for product excellence, choice, reliability and customer service stems from the continuous review of improved methods, including new product development and design innovation. We constantly seek to provide solutions to our customers' individual requirements. Our total quality management system ensures that high standards are maintained in every aspect of the business, from customer support and service through to manufacture and distribution. This commitment to being 'best in class' has been recognised with the highly valued ISO9001 quality approval.

#### **The perfect choice for any home**

The breadth of our range of CCTV, Alarms and Security Lighting offer innovation and individualism to every home. From the convenience of the wirefree security products, to the comprehensive range of traditional bells and horns, Friedland products will complement all styles of home, from traditional to modern.

#### **Innovation for the customer**

Friedland continues to build on a long history of technical expertise and innovation, these ranges offer easy installation and high quality solutions for a variety of customer needs.



Friedland Wireless CCTV systems are designed for easy installation and simply plug into your existing TV set. By installing a CCTV system, you can protect a property and improve your peace of mind. CCTV cameras act as a visual deterrent and allow you to monitor visitors or intruders on your TV screen and even catch them on video. Wireless CCTV is easy to install and ideal for protecting remote locations such as garages or outbuildings.

**Features and Benefits:**

- Simple to use, plug and play
- IP54 colour camera
- Night vision feature
- Operating open field range of 100m\*
- 12 hours per channel video recording (for DVR only)
- 60° camera viewing angle
- Motion detection feature built in the DVR

\* measured in open-field conditions. Note: Building structures, e.g. metal and thick walls will affect transmission range

## WIRELESS COLOUR CAMERA CCTV KIT

**CWFK1**



- Weatherproof CMOS camera (IP54) – suitable for both indoor and outdoor use
- Receiver with 4 selectable RF video channels
- 100m open field operating range
- 11 Infra Red LEDs for low light illumination
- Night vision feature
- Camera viewing angle 60°
- 12v DC plug in power supply
- Simple to use, plug and play set up

### CONTENTS

1 x wireless colour camera, 1 x wireless receiver unit, 1 x video output cable for wireless receiver to TV, 1 x camera fixing kit – 2 x power supply adaptors, fixings, installation and operating manual, window sticker

**UNIT BARCODE** 5017490567390

## WIRELESS COLOUR CAMERA AND 2 CHANNEL DVR CCTV KIT

**CWFK2**



- All the functionality of CWFK1 with 2 channel digital video recorder
- Time and date stamp
- Real time display and playback
- Built in SD card
- 2GB memory card supplied
- 12 hours per channel video recording or 20,000 still images

### CONTENTS

1 x wireless colour camera, 1 x wireless receiver unit, 1 x camera fixing kit – 2 x power supply adaptor, fixings, 1 x 2 channel DVR unit, 1 x video output cable for wireless receiver unit to 2 channel DVR (1m), 1 x DIN to RCA adaptor lead for 2 channel DVR, 1 x video output cable for 2 channel DVR to TV (1m), 1 x 2 channel DVR unit power supply adaptor, 1 x SD memory card (2GB), installation and operating manual, 1 x window sticker

**UNIT BARCODE** 5017490567406

## WIRELESS COLOUR CAMERA CCTV KIT

**CA3**



- Add additional cameras to your wireless CCTV system
- Weatherproof camera (IP54) – suitable for both indoor and outdoor use
- 11 Infra Red LEDs for low light illumination
- Night vision feature
- Camera viewing angle 60°
- 12v DC plug in power supply
- 100m open field operating range

### CONTENTS

1 wireless colour camera, 1 x camera power supply adaptor, fixings, installation and operating manual, 1 x window sticker

**UNIT BARCODE** 5017490567468



Friedland Wired CCTV is a range of security products that are ideal for residential and commercial building applications. By installing a CCTV system, you can protect a property and improve your peace of mind. CCTV cameras act as a visual deterrent and allow you to monitor visitors or intruders on your TV screen and even catch them on video. Wired CCTV is easy to install with expandable kits via additional accessories making the system suitable for many applications.

**Features and Benefits:**

- Easy to install
- IP54 colour camera
- Night vision feature
- 12 hours per channel video recording (for the 2 channel DVR only)
- 120 hours of video recording per channel (for the 4 channel DVR only)
- Time and date stamp
- Motion detection feature built into the DVR



## WIRED COLOUR CAMERA CCTV KIT

**CWK1**



- Weatherproof (IP54) camera suitable for indoor and outdoor use
- Plug and play with existing TV/monitor
- Colour CMOS image sensor
- Infra red LEDs for low light illumination
- Night vision feature

### CONTENTS

1 x wired colour camera with 1m cable, 1 x 10m RCA (male plug) to RCA (male plug) extension cable, 1 x power supply adaptor, fixings, installation and operating manual, 1 x window sticker

**UNIT BARCODE** 5017490567369

## WIRED COLOUR CAMERA AND 2 CHANNEL DVR CCTV KIT

**CWK2**



- All the functionality of CWK1 with 2 channel Digital Video Recorder
- Time and date stamp
- Real time display and playback
- Built in SD card
- 2GB memory card supplied
- 12 hours per channel video recording or 20,000 still images

### CONTENTS

1 x wired colour camera with 1m cable, 1 x 10m RCA (male plug) to RCA (male plug) extension cable, 1 x power supply adaptor, fixings, installation and operating manual, 1 x window sticker, 1 x 2 channel DVR unit, 1 x DIN to RCA adaptor lead for 2 channel DVR, 1 x video output cable for 2 channel DVR to TV (1m), 1 x 2 channel DVR unit power supply adaptor, 1 x SD memory card (2GB), installation and operating manual

**UNIT BARCODE** 5017490567376

## WIRED 2 COLOUR CAMERA AND 2 CHANNEL DVR CCTV KIT

**CWK3**



- Twin camera wired kit
- Time and date stamp
- Real time display and playback
- Built in SD card
- 2GB memory card supplied
- 12 hours per channel video recording or 20,000 still images

### CONTENTS

2 x wired colour camera with 1m cable, 1 x 10m and 1 x 20m RCA (male plug) to RCA (male plug) extension cable, 2 x power supply adaptors, fixings, installation and operating manual, 2 x window stickers, 1 x 2 channel DVR unit, 1 x DIN to RCA adaptor lead for 2 channel DVR, 1 x video output cable for 2 channel DVR to TV (1m), 1 x 2 channel DVR unit power supply adaptor, 1 x SD memory card (2GB), installation and operating manual

**UNIT BARCODE** 5017490567383

**WIRED HEAVY DUTY 2 COLOUR CAMERA AND 4 CHANNEL DVR CCTV KIT**
**CWK4**


- Weatherproof camera (IP54) suitable for both indoor and outdoor use
- High resolution CCD sensor
- Infra red LEDs for low light illumination
- Night vision feature
- Simultaneous recording of 4 cameras
- Motion trigger recording with sensitivity and area setting
- 160GB SATA hard drive
- Total recording time 60 hours
- Time and date stamp

**CONTENTS**

2 x wired colour heavy duty cameras, 1 x 4 channel DVR unit, 1 x optical mouse, 1 x 160GB SATA hard drive supplied fitted to DVR unit, 1 x 5 way splitter cable, 1 x 4 channel DVR unit power supply adaptor, 1 x 10m BNC (male plug) to BNC (male plug) extension cable, 1 x 20m BNC (male plug) to BNC (male plug) extension cable, 2 x BNC (male) to RCA (female) adaptors, 1 x 4 channel DVR video output cable (1m), 1 x CD backup software (suitable for Windows PC operating systems including Vista), 2 x 4 channel DVR hard drive drawer locking keys, 2 x camera fixings kit – wall plugs and screws, installation and operating manual, 2 x window stickers

**UNIT BARCODE** 5017490567413

**WIRED HEAVY DUTY 4 COLOUR CAMERA AND 4 CHANNEL DVR CCTV KIT**
**CWK5**


- Weatherproof camera (IP54) suitable for both indoor and outdoor use
- 2 x internal dome cameras
- High resolution CCD sensor.
- Infra red LEDs for low light illumination (Heavy duty camera only)
- Night vision feature (Heavy duty camera only)
- Simultaneous recording of 4 cameras
- Motion trigger recording with sensitivity and area setting
- 160GB SATA hard drive
- Total recording time 30 hours
- Time and date stamp

**CONTENTS**

2 x wired colour heavy duty cameras, 2 x wired internal colour dome cameras (no night vision), 2 x 10m BNC (male plug) to BNC (male plug) extension cable, 2 x 20m BNC (male plug) to BNC (male plug) extension cable, 1 x 4 channel DVR unit, 1 x 160GB SATA hard drive supplied fitted to DVR unit, 1 x optical mouse, 1 x 4 channel DVR unit power supply adaptor, 1 x 1 to 5 power splitter cable assembly, 1 x 4 channel DVR video output cable (1m), 1 x CD backup software (suitable for Windows PC operating systems including Vista), 2 x 4 channel DVR hard drive drawer locking keys, 4 x camera fixings kit – wall plugs and screws, Installation and operating manual, 4 x window stickers

**UNIT BARCODE** 5017490567420



## WIRED PROFESSIONAL 4 COLOUR CAMERA AND 4 CHANNEL DVR CCTV KIT

CWK6



- Professional 4 camera kit
- 2 x dome and 2 x heavy duty High resolution CCD sensor cameras.
- Infra red LEDs for low light illumination (Heavy duty camera only)
- Night vision feature (Heavy duty camera only)
- Simultaneous recording of 4 cameras
- Motion trigger recording with sensitivity and area setting
- 160GB SATA hard drive
- Total recording time 30 hours
- Time and date stamp

### CONTENTS

2 x professional wired colour heavy duty cameras, 2 x wired internal colour dome cameras (no night vision), 2 x 10m BNC (male plug) to BNC (male plug) extension cable, 2 x 20m BNC (male plug) to BNC (male plug) extension cable  
1 x 4 channel DVR unit, 1 x 160GB SATA hard drive supplied fitted to DVR unit  
1 x optical mouse, 1 x 4 channel DVR unit power supply adaptor, 1 x 1 to 5 power splitter cable assembly, 1 x 4 channel DVR video output cable (1m), 2 x 4 channel DVR hard drive drawer locking keys, 1 x CD backup software (suitable for Windows PC operating systems including Vista),  
4 x camera fixings kit – wall plugs and screws, Installation and operating manual, 4 x window stickers  
\* Heavy duty camera fitted with a 1m power cord with a 3 pin UK plug fitted

**UNIT BARCODE** 5017490567437

## WIRED PROFESSIONAL COLOUR CAMERA CCTV KIT

CA5



- Plugs directly into existing TV/Monitor
- Weatherproof camera (IP54) suitable for both indoor and outdoor use.
- Vandal resistant heavy duty housing with sun shield
- 12 Infra red LEDs for low light illumination
- Night vision feature
- Built in fan to eliminate moisture build up
- Operating temp -10°C to 50°C
- 53° camera viewing angle

### CONTENTS

1 x large wired colour heavy duty camera, 1 x 10m BNC (male plug) to BNC (male plug) extension cable, 1 x BNC (female) to RCA (male) adaptor,  
1 x camera fixings kit – wall plugs and screws, installation and operating manual, 1 x window sticker  
\* Heavy duty camera fitted with a 1m power cord with a 3 pin UK plug fitted

**UNIT BARCODE** 5017490567482

## WIRED INTERNAL COLOUR DOME CAMERA CCTV KIT

CA8



- Adjustable dome camera with pan and tilt
- IP40 – for internal use
- Camera viewing angle 72°
- Plug and play with existing TV/Monitor

## CONTENTS

1 x internal colour dome camera, 1 x 10m BNC (male plug) to BNC (male plug) extension cable, 1 x BNC (female) to RCA (male) adaptor, 1 x dome camera PSU adaptor, 1 x camera fixings kit – wall plugs and screws, installation and operating manual, 1 x window sticker

**UNIT BARCODE** 5017490567512

## WIRED HEAVY DUTY COLOUR CAMERA CCTV KIT

CA10



- Plug and play with existing TV/Monitor or use to expand an existing wired system
- Weatherproof camera (IP54) suitable for both indoor and outdoor use.
- High resolution CCD camera
- Infra red LEDs for low light illumination
- Night vision feature
- Operating temperature -10°C to 50°C
- 50° viewing angle

## CONTENTS

1 x wired colour heavy duty camera, 1 x 10m BNC (male plug) to BNC (male plug) extension cable, 1 x BNC (female) to RCA (male) adaptor, 1 x wired heavy duty power supply adaptor, 1 x camera fixings kit – wall plugs and screws, Installation and operating manual, 1 x window sticker

**UNIT BARCODE** 5017490567536

## 10M/20M EXTENSION CABLE KITS

CA4/CA12



- Compatible with all wired Response CCTV cameras
- BNC (female) to BNC (male) extension cable
- To extend existing cables. Carries video signal and camera power

## CONTENTS

**CA4** CCTV extension cable 10m  
**CA12** CCTV extension cable 20m

**UNIT BARCODE** CA4 5017490567475

**UNIT BARCODE** CA12 5017490567550

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## 2 CHANNEL DIGITAL VIDEO IMAGE RECORDER (DVR) FOR RESPONSE WIRELESS/WIRED CCTV KITS

CA1



- Compatible with wired and wireless camera kits
- Time and date stamp
- Real time display and playback
- Built in SD card
- 2GB memory card supplied
- 12 hours per channel video recording or 20,000 still images

### CONTENTS

1 x 2 channel DVR unit, 1 x DIN to RCA adaptor lead for 2 channel DVR, 1 x Video output cable for 2 channel DVR to TV (1m), 1 x 2 channel DVR unit PSU adaptor, 1 x SD memory card (2GB), installation and operating manual

**UNIT BARCODE** 5017490567444

## 4 CHANNEL DIGITAL VIDEO IMAGE RECORDER (DVR) FOR RESPONSE WIRELESS/WIRED CCTV KITS

CA7



- Simultaneous recording of 4 cameras
- Compatible with wired and wireless cameras
- Motion trigger recording with sensitivity and area setting
- 160GB SATA hard drive
- Up to 120 hours recording time (with x 1 camera connected)
- Time and date stamp
- BNC to RCA lead for direct TV connection

### CONTENTS

1 x 4 channel DVR unit, 1 x 160GB hard drive supplied fitted to DVR unit, 2 x BNC (male) to RCA (female) adaptors, 2 x 4 channel DVR hard drive drawer locking keys, 1 x CD backup software (suitable for Windows PC operating systems including Vista), 1 x 4 channel DVR unit power supply adaptor, installation and operating manual, 1 x 4 channel DVR output cable, 1 x optical mouse

**UNIT BARCODE** 5017490567505

## LCD SCREEN FOR RESPONSE WIRELESS/WIRED CCTV KITS

CA2



- 7" Colour TFT LCD display with integrated 2.4Ghz wireless receiver
- Monitor for 2 wired or 3 wireless cameras
- 480 horizontal lines display resolution
- Switch between wired and wireless cameras.
- IR Remote Control

### CONTENTS

1 x 7" colour LCD screen, 1 x remote control for 7" LCD screen, 1 x 3v CR2032 cell for remote control (supplied), 2 x wired camera adaptor leads for LCD screen, 1 x PSU adaptor for LCD screen, installation and operating manual

**UNIT BARCODE** 5017490567451

**DUMMY PROFESSIONAL HEAVY DUTY CAMERA**
**CA6**


- Non operating dummy camera
- Identical appearance to CA5 operating camera
- Effective Visual deterrent

**CONTENTS**

1 x dummy large heavy duty camera, 1 x camera fixings kit – wall plugs and screws, installation manual, 1 x window sticker

**UNIT BARCODE** 5017490567499

**DUMMY INTERNAL DOME CAMERA**
**CA9**


- Non operating dummy camera
- Identical appearance to CA8 operating camera
- Effective Visual deterrent

**CONTENTS**

1 x dummy dome camera, 1 x camera fixings kit – ceiling/wall plugs and screws, installation manual, 1 x window sticker

**UNIT BARCODE** 5017490567529

**DUMMY HEAVY DUTY CAMERA**
**CA11**


- Non operating dummy camera
- Identical appearance to CA10 operating camera
- Effective Visual deterrent

**CONTENTS**

1 x dummy large heavy duty camera, 1 x camera fixings kit – wall plugs and screws, installation manual, 1 x window sticker

**UNIT BARCODE** 5017490567543

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Friedland Response is a wired and wirefree range of security systems, offering a cost effective solution which is easy to install and easy to operate. Systems are available in a variety of sizes and capabilities to suit specific installation requirements. A full range of accessories are available to upgrade and expand systems.

**Features and Benefits:**

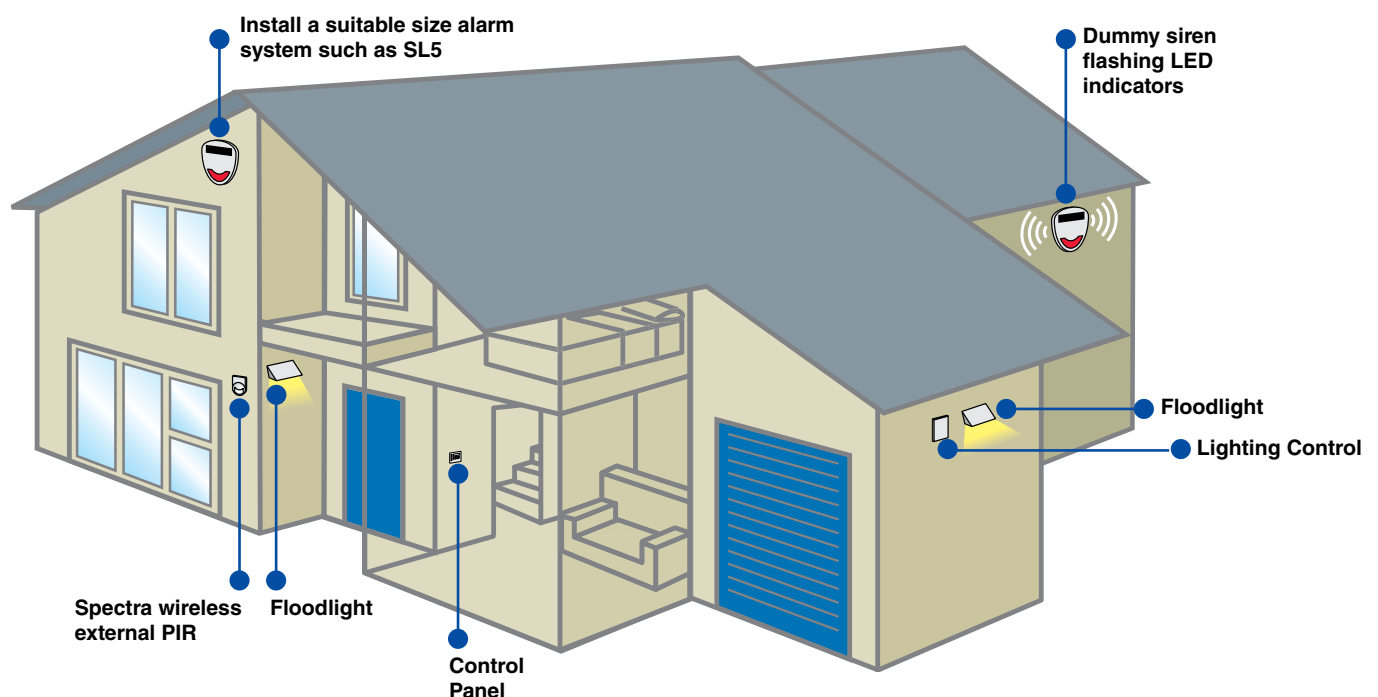
- Suitable for any home
- Secure 868MHz technology (wireless alarms only)
- Comprehensive range of accessories
- Tamper and jamming detection provides additional security and prevents interference from potential intruders
- Energy saving solar siren (wireless alarms only)

Friedland have a successful history of providing wirefree alarm systems to homeowners across both the UK and Europe, offering quality products with simple wireless installation and easy operation.

All wireless alarm systems operate by sending signals across radio frequencies, commonly the crowded 433MHz frequency. Friedland now introduce a new range of wireless alarm systems, using the more secure 868MHz frequency that is less prone to interference from other devices than systems operating on 433MHz. The higher antenna output provides a stronger transmission enhancing the performance and range from the control unit to the accessories.

### Features and Benefits:

- Improved range between control unit and accessories – providing greater flexibility on where to install devices
- 20 bit technology gives one million house codes – maximum security virtually eliminating risk of signal jamming or hacking
- G4 is a unique protocol owned and developed by Friedland – compatible only with Friedland products
- Self learning between components and control units – faster, easier installation – no more dip switches
- Tighter regulatory restrictions for the 868MHz band than those for the 433MHz band – specifically for security and alerting products
- Solar siren – powered by light, reduces inconvenience of changing batteries





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## PREMIUM WIRELESS HOME AND AWAY ALARM SYSTEM

SL1



- Suitable for the smaller home
- Easy to install
- Advanced 868MHz technology
- Energy saving solar powered siren
- Remote control
- 125m range
- Expand system up to 12 PIRs and/or door contacts plus 6 remotes/keypads

### CONTENTS

1 x solar siren with LED indicators, 2 x door/window contacts, 1 x movement (PIR) detectors, 1 x remote control, batteries, fixings, instruction manual and installation DVD

**UNIT BARCODE** 5004100954909

## PREMIUM WIRELESS MULTI USER ALARM SYSTEM

SL2



- Suitable for the family home
- Easy to install
- Advanced 868MHz technology
- Energy saving solar powered siren
- Keypad operated
- 125m range
- Expand system up to 12 PIRs and/or door contacts plus 6 remotes/keypads

### CONTENTS

1 x solar siren with LED indicators, 2 x door/window contacts, 2 x movement (PIR) detectors, 1 x remote keypad, batteries, fixings, instruction manual and installation DVD

**UNIT BARCODE** 5004100954893

## PREMIUM WIRELESS MULTI FUNCTION ALARM SYSTEM

SL3



- Suitable for the larger home
- Easy to install
- Advanced 868MHz technology
- 6 zone LED control panel
- Energy saving solar powered siren
- Compatible with Premium Wireless external lighting control accessory (HW12)
- 125m range
- Expand system up to 18 PIRs and/or door contacts plus 6 remotes/keypads

### CONTENTS

1 x solar siren with LED indicators, 2 x door/window contacts, 2 x movement (PIR) detectors, 1 x control panel, batteries, fixings, instruction manual and installation DVD, plug in power supply for control panel

**UNIT BARCODE** 5004100954886

**PREMIUM WIRELESS TELECOMMUNICATING ALARM SYSTEM**
**SL5**


- Suitable for the larger home with added functionality for maximum security
- Easy to install
- Advanced 868MHz technology
- 36 Zone LCD control panel (32 wireless + 4 wired zones) 1 detector per zone
- Energy saving solar powered siren
- Compatible with Premium Wireless external lighting control accessory (HW12)
- Remote phone access
- 125m range

**CONTENTS**

1 x solar siren with LED indicators, 2 x door/window contacts, 2 x movement (PIR) detectors, 1 x control panel, 1 x dummy siren, batteries, fixings, instruction manual and installation DVD, plug in power supply for control panel

**UNIT BARCODE** 50041009540879

**WIRELESS ACCESSORIES**
**DUMMY SIREN**
**HW0**

**UNIT BARCODE** 5004100954978

**SINGLE PIR**
**HW2**

**UNIT BARCODE** 5004100954923

**SINGLE DOOR CONTACT**
**HW4**

**UNIT BARCODE** 5004100954930

**LIGHTING CONTROL**
**HW12**


- Wire light (lamp) to lighting control
- Wire the controller to mains
- Link the controller to the control panel

**UNIT BARCODE** 5004100954947

**KEY PAD**
**HW5**

**UNIT BARCODE** 50041009540954

**BACK UP BATTERY**
**HW10**

**UNIT BARCODE** 5004100954961

**REMOTE KEY FOB**
**HW3**

**UNIT BARCODE** 5004100954916

**TWIN PIR**
**HW22**

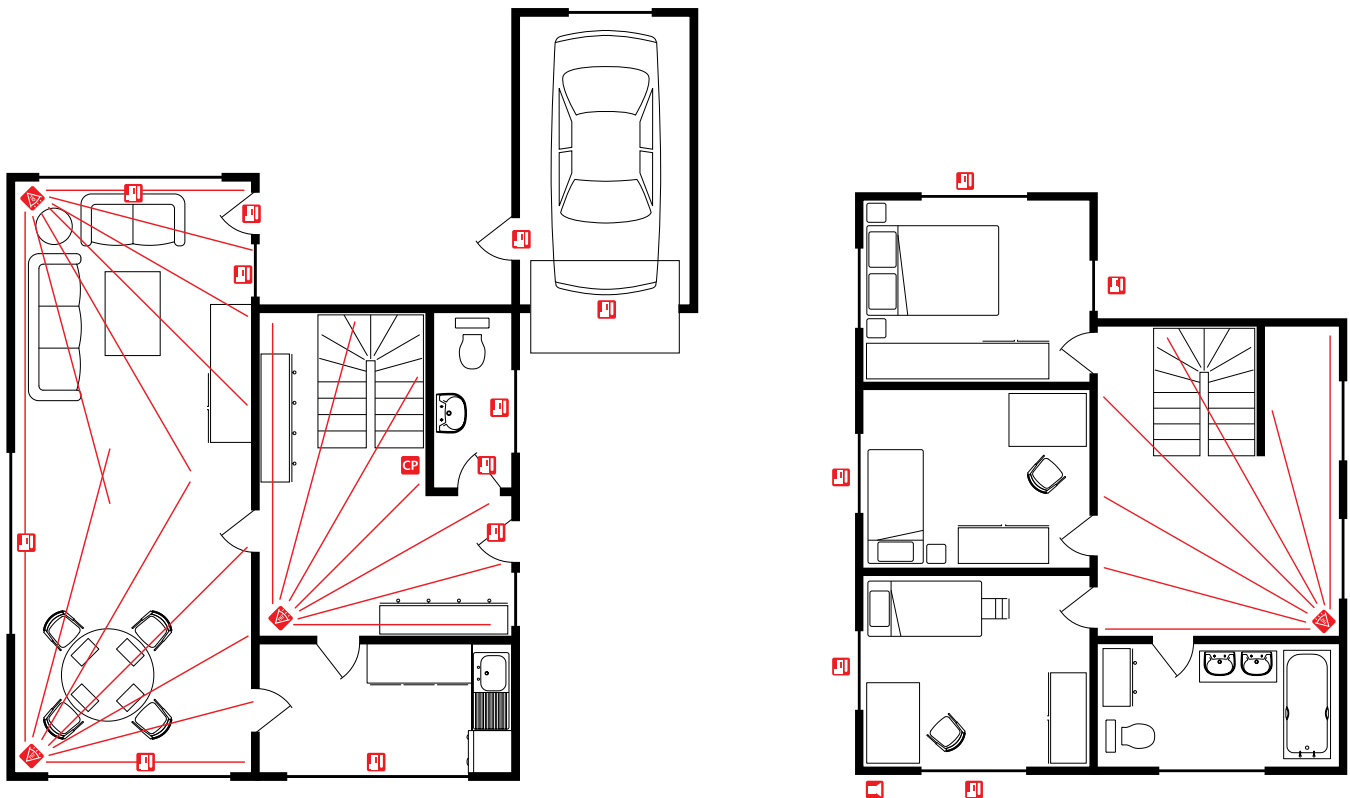
**UNIT BARCODE** 5004100954985



**TWIN DOOR CONTACT**
**HW44**

**UNIT BARCODE** 5004100954992

The Response Wirefree Alarm Systems offer internal space protection by monitoring entry points and the interior of the property. To attain maximum coverage, and to prevent false alarms there are a number of rules to follow when installing detectors.

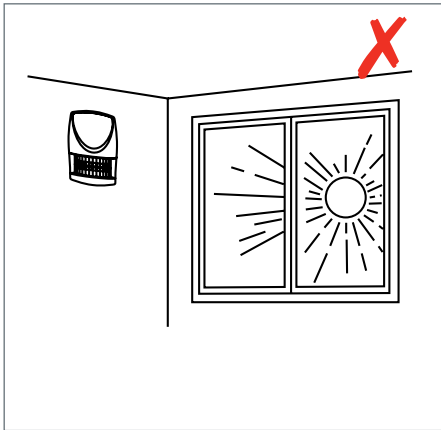
## Installation hints and tips



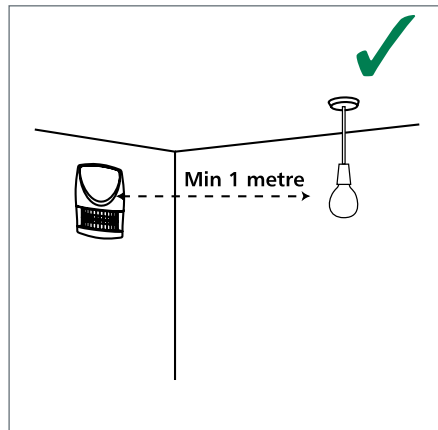
-  PIR Movement Detector
-  Control Panel
-  Solar Siren
-  Magnetic Contact

## Installation hints and tips

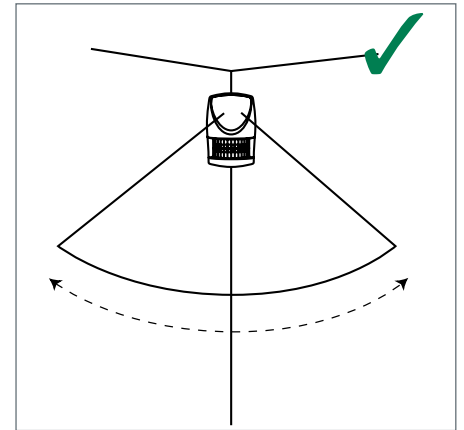
PIR detectors may be wall or corner mounted by applying different knockouts.



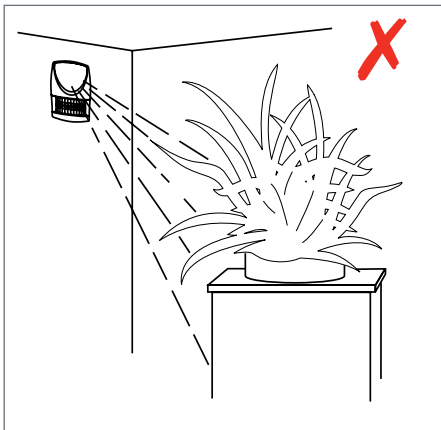
Do not install where the detector is in or facing direct/reflected sunlight or strong draughts/heaters



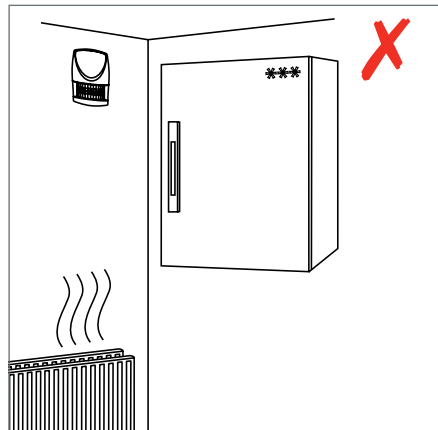
Locate the detector at least one metre away from any illumination, to avoid possible interference



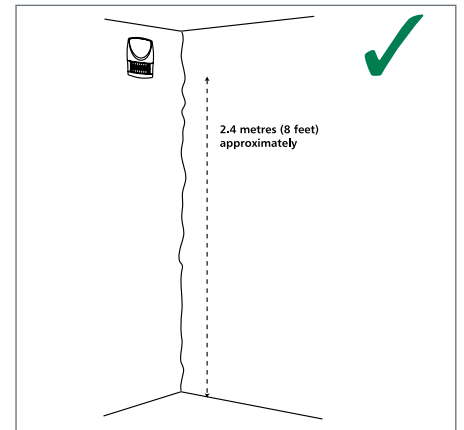
Mount in the corner of a room. PIR detectors are more sensitive to motion passing across the detection zones than toward the unit



Ensure that there are not any obstructions (plants, screens, furniture etc.) in the field of view which may cause incorrect cover/operation of the detector




Avoid locating the detector in areas which contain equipment that may change the environment temperature rapidly. For example: above radiators



Install the detector at the recommended height on a rigid, even surface

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WIRED ALARM KIT	PL4
	<ul style="list-style-type: none"> <li>• Easy to install</li> <li>• 4 zones</li> <li>• 2 wire connections</li> <li>• Keypad operated</li> <li>• Tamper proof alarm</li> </ul> <p><b>CONTENTS</b></p> <p>1 x siren with strobe, 1 x door/window contacts, 1 x movement (PIR) detector, fixings, instruction manual keypad control panel and 50m of 2 core alarm cable, plug in power supply for control panel</p> <p><b>UNIT BARCODE</b> 5004100954831</p>

## Wired accessories

DOOR CONTACT	PW1
	
<p><b>UNIT BARCODE</b> 5004100954862</p>	

PIR	PW2
	
<p><b>UNIT BARCODE</b> 5004100954855</p>	

DUMMY SIREN	PW3
	
<p><b>UNIT BARCODE</b> 5004100954848</p>	



The wired and wirefree Spectra+ range provides an easy to install detection solution.

The NEW range of PIR Movement Detectors consists of high specification models that will turn new and existing lighting into security lighting for safety and convenience. The PIR's can control a wide range of lighting from 600W fluorescent, 2300W tungsten/halogen to 20x20W Compact Fluorescent Lamps and LEDs.

#### Features and Benefits:

- Up to 15m detection range
- Wirefree operation on the 868MHz technology
- 140° 200° and 360° detection areas
- Wired versions supplied with remote control to switch between ON/OFF and AUTO mode
- Adjustable sensitivity level (on specific models)
- Adjustable lux level to switch on the lighting at various brightness levels upon movement detection.
- "Walk test" allows easy setting and adjustment during daylight
- Adjustable Time On period – up to 20 minutes
- Pan +/- 45°
- Tilt - down 30°
- Incorporated with manual override mode to switch ON/OFF lighting using external wall switch
- IP55 rated
- 16A relay rating
- Fixings included
- Battery for remote control included
- 2 Year guarantee



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## SPECTRA+ WIRED 140° PIR

**L310**



- Detector can control lighting up to 2300W tungsten filament/halogen or 600W fluorescent tubes or 20x20W Compact Fluorescent Lamps
- 140° detection area – effective protection for vulnerable areas of approach
- 12m detection range
- IP55
- Remote Control for indoor use only
- Time on duration 5 seconds to 20 minutes

### DIMENSIONS

158x115x82mm

### COLOURS UNIT BARCODE

L310WHI	5004100960634
L310BLK	5004100960641

## SPECTRA+ WIRED 200° PIR

**L320**



- Detector can control lighting up to 2300W tungsten filament/halogen or 600W fluorescent tubes 20x20W Compact Fluorescent Lamps
- 200° detection area – effective protection for vulnerable areas of approach
- 15m detection range
- IP55
- Remote Control for indoor use only
- Time on duration 5 seconds to 20 minutes

### DIMENSIONS

158x115x82mm

### COLOURS UNIT BARCODE

L320WHI	5004100960658
L320BLK	5004100960665

## SPECTRA+ WIRED 360° PIR

**L330**



- Detector can control lighting up to 2300W tungsten filament/halogen or 600W fluorescent tubes or 20x20W Compact Fluorescent Lamps
- 360° detection area – effective protection for vulnerable areas of approach
- Corner-mounting/Wall-mounting/Ceiling-mounting options
- 10m detection range
- IP55
- Remote Control for indoor use only
- Time on duration 5 seconds to 20 minutes


### DIMENSIONS

158x115x140mm


### COLOURS UNIT BARCODE

L330WHI	5004100960672
L330BLK	5004100960689


WHI - White  
BLK - Black

SPECTRA+ REMOTE CONTROL		L300REM
	<ul style="list-style-type: none"> <li>• Remote access to your lighting</li> <li>• Switch between ON/OFF and AUTO mode</li> <li>• 5m transmission detection range (line-of-sight)</li> <li>• For indoor use only</li> <li>• 1 x 3V CR2032 coin cell battery included</li> </ul>	
	DIMENSIONS	
	82x68x32mm	
	WHITE	UNIT BARCODE
	L300REM	5004100960696

SPECTRA+ WIREFREE 140° PIR		L630
	<ul style="list-style-type: none"> <li>• Works with Wirefree Inline Receiver and Libra+ Chime</li> <li>• 140° detection area – effective protection for vulnerable areas of approach</li> <li>• 12m detection range</li> <li>• IP55</li> <li>• Time on duration 5 seconds to 20 minutes</li> <li>• Requires 1 x 9V PP3 Alkaline Battery</li> <li>• Complete with dusk/dawn sensor to switch between day and night operation for use with Chimes and lighting respectively</li> </ul>	
	DIMENSIONS	
	158x115x82mm	
	COLOURS	UNIT BARCODE
	L630WHI	5004100960702
	L630BLK	5004100960719


SPECTRA+ WIREFREE 140° PIR AND RECEIVER		L620
	<ul style="list-style-type: none"> <li>• Receiver can control lighting up to 2300W tungsten filament/halogen or 600W fluorescent tubes</li> <li>• 140° detection area – effective protection for vulnerable areas of approach</li> <li>• 12m detection range</li> <li>• IP55 for PIR, IP54 for Receiver</li> <li>• Time on duration 5 seconds to 20 minutes</li> <li>• The PIR detector can be positioned up to 200m* from the receiver unit</li> </ul>	
	DIMENSIONS	
	158x115x122mm	
	COLOURS	UNIT BARCODE
	L620WHI	5004100960726
	L620BLK	5004100960733


\* measured in 'open-field' conditions.


WHI - White  
BLK - Black

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SPECTRA LITE		L110N
	<ul style="list-style-type: none"> <li>Automatic security light with 110° passive infrared movement detector</li> <li>Lamp type: max 60W tungsten filament or energy-saving compact fluorescent</li> <li>Detector can also control lighting up to a total power loading of 1200W tungsten filament or 1200W tungsten halogen lighting</li> </ul>	
	DIMENSIONS	
	257x115x110mm	
	WHITE	UNIT BARCODE
	L110NWHI	5004100311092

SPECTRA MINIFLOOD 150W		L510N
	<ul style="list-style-type: none"> <li>Automatic security floodlight with 140° passive infrared movement detector</li> <li>Weatherproof energy-saving 150W halogen floodlight</li> <li>Halogen lamp supplied - 100W class 'c' rated</li> <li>Detector can also control additional connected lighting up to a total power loading of 1000W tungsten filament or 500W halogen tungsten lighting, however, it is unsuitable for fluorescent lighting control</li> </ul>	
	DIMENSIONS	
	185x135x105mm	
	COLOURS	UNIT BARCODE
	L510NWHI	5004100410887
	L510NBLK	5004100410863

SPECTRA SUPERFLOOD 500W		L540N
	<ul style="list-style-type: none"> <li>Automatic security floodlight with 140° passive infrared movement detector</li> <li>Detector can also control additional connected lighting up to a total power loading of 1000W tungsten filament or 500W halogen tungsten lighting, however, it is unsuitable for fluorescent lighting control</li> <li>Halogen lamp supplied - 400W class 'c' rated</li> </ul>	
	DIMENSIONS	
	235x180x130mm	
	COLOURS	UNIT BARCODE
	L540NWHI	5004100411051
	L540NBLK	5004100411013

WHI - White  
BLK - Black



Friedland Mini Alarm is a range of individual components which can be used together or singularly. The range includes window alarms, entry alarms, motion alarms and personal alarms.

**Features and Benefits:**

- Easy installation, independent wireless window alarm and entry alarm
- Simple operating instructions, motion alarms incorporate operating keypad, alternatively a remote control option is available
- The Panic Alarm is ideal for use when travelling
- 1 year guarantee

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## SHED ALARM

ML1



- Plug and play shed alarm for simple installation
- Simple functional protection of your shed or outbuilding
- Any unauthorised attempt to interfere with the door contact wiring when armed will activate the alarm
- Requires 1 x 9v PP3 alkaline battery (not supplied)

**UNIT BARCODE** 5004100954800

## WINDOW ALARM TWIN PACK

ML2



- Sensor detects the vibration of a window during an attempted forced entry
- Mounts directly onto window
- Door/Window warning sticker supplied
- Self adhesive pad supplied – no tools required
- 2 sensitivity settings
- Each unit supplied and fitted with 4x1.5v (LR44) alkaline batteries
- For internal use only

**UNIT BARCODE** 5004100954787

## DOOR/WINDOW ALARM TWIN PACK

ML3



- Alarm sounds when magnetic contact is separated
- Mounts onto door or window frame
- Door/Window warning sticker supplied
- Self adhesive pad supplied – no tools required
- 2 settings – Chime or Alarm
- Each unit supplied and fitted with 4x1.5v (LR44) alkaline batteries
- For internal use only

**UNIT BARCODE** 5004100954794

## DOOR/WINDOW ALARM

ML4



- Keypad controlled alarm – sounds when magnetic contact is separated
- Mounts onto door or window frame
- 4 digit user code protected
- Entry and exit delays
- 2 settings – Chime or Alarm
- Door/Window warning sticker supplied
- Fixings supplied
- Batteries not included (requires 3 x 1.5v LR03 (AAA) Alkaline)
- For internal use only

**UNIT BARCODE** 5004100954817

## SINGLE ROOM PIR ALARM WITH KEYPAD

ML5



- Keypad controlled alarm – sounds when a movement is detected in the room
- Mounts on wall
- 4 digit user code protected
- Entry and exit delays
- 2 settings – Chime or Alarm

- Door/Window warning sticker supplied
- Mounting bracket and fixings supplied
- Batteries not included (requires 3 x 1.5v LR6 (AA) Alkaline)
- For internal use only

UNIT BARCODE 5004100954770

## SINGLE ROOM PIR ALARM WITH REMOTE CONTROL

ML6



- Keypad controlled alarm – sounds when a movement is detected in the room
- Mounts on wall
- Convenient Remote controlled on/off
- Entry and exit delays
- 2 settings – Chime or Alarm
- Panic Alarm

- Door/Window warning sticker supplied
- Mounting bracket and fixings supplied
- Batteries (1 x 3v CR2032 Lithium) (not supplied 3 x 1.5v LR6 (AA) Alkaline)
- For internal use only

UNIT BARCODE 5004100954763

## SINGLE ROOM PIR AND PERSONAL SAFETY ALARM KIT

ML7



- Remote controlled alarm – sounds when any movement is detected in the room
- Mounts on wall
- Convenient Remote controlled on/off
- Entry and exit delays
- 2 settings – Chime or Alarm
- Panic Alarm

- Door/Window warning sticker supplied
- Mounting bracket and fixings supplied
- Door contact magnet prewired for approx. 2 metres
- Batteries 1 x 3v CR2032 Lithium) (not supplied 3 x 1.5v LR6 (AA) Alkaline), PA alarm 4 x 1.5v A76 (LR41)
- For internal use only

UNIT BARCODE 5004100954756

## PERSONAL PANIC ALARM

ML9



- Alarm sounds by removing pull cord
- Supplied with belt clip
- Continuous operation after removal of cord
- Ideal for: joggers, children, elderly
- Batteries supplied (4 x 1.5v (LR41 alkaline)
- LED Torch

UNIT BARCODE 5004100954824



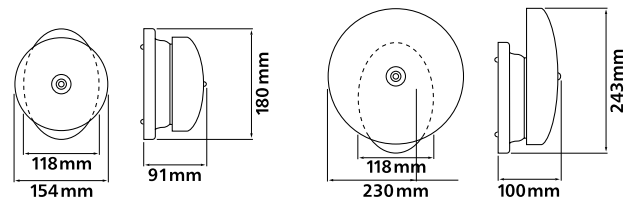
## Features and Benefits:

- Designed for long-life and total reliability
- Solenoid operated
- Compatible with all leading intruder alarm control panels
- Suitable for use in fire alarm systems and general industrial/commercial signalling applications
- Masterbell available in red and grey in a wide choice of voltages
- Wall bracket included

AC MASTERBELL AND BIG BELL/DC MASTERBELL 56-/59-/66



DIMENSIONS



			COLOUR	VOLTAGE	MAX POWER VA/W	SOUND LEVEL DB@1M MAX*	SOUND FREQUENCY HZ	UNIT BARCODES
<b>MASTERBELLS</b>								
56-012	Masterbell	12V AC	Grey	2V~	9VA	100	300 to 12kHz	5004100810694
56-024	Masterbell	24V AC	Grey	24V~	10 VA	100	300 to 12kHz	5004100810700
56-230	Masterbell	230V AC 50Hz/60Hz	Grey	220/240V~	10 VA	100	300 to 12kHz	5004100810724
56-230R	Masterbell	230V AC 50Hz/60Hz	Red	220/240V~	10 VA	100	300 to 12kHz	5004100810779
66-06SP	Masterbell	6V DC	Grey	6(12)V	4 W	91-94	300 to 12kHz	5004100810885
66-12SP	Masterbell	12V DC	Grey	12(24)V	4 W	91-94	300 to 12kHz	5004100811301
66-24SP	Masterbell	24V DC	Grey	24(42)V	4 W	91-94	300 to 12kHz	5004100810847
6624SPR	Masterbell	24V DC	Red	24(42)V	4 W	91-94	300 to 12kHz	5004100810892
<b>BIG BELL</b>								
59-230	Bigbell	230V AC 50Hz/60Hz	Grey	220/240V~	10 VA	106	300 to 10kHz	5004100810939
<b>CONDUIT BOX (168 x 102 x 48mm)</b>								
56-66	Conduit Box		Grey					5004100890207

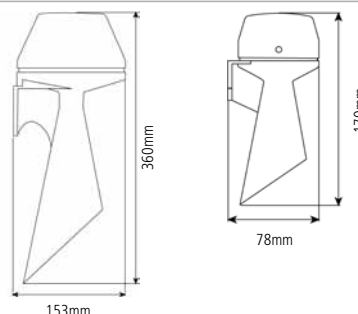
\*Sound levels measured in 'open-field' conditions

Security Bells are IP42, but when used with the addition of conduit box, the IP rating increases to IP44

**Features and Benefits:**

- Selection of horns for industrial and commercial applications

**HORN AND MINI HORN**

**DIMENSIONS**


			COLOUR	VOLTAGE	MAX POWER VA/W	SOUND LEVEL DB@1M MAX*	SOUND FREQUENCY HZ	UNIT BARCODES
HORNS								
E2620/5	Horn	220V AC 50Hz/60Hz	Grey	220V~	11 VA	100	300 to 10kHz	5004100311375
E2622/1	Mini Horn	6-8V AC	Grey	6-8V~	3.5 VA	90	300 to 12kHz	5004100311313
E2622/5	Mini Horn	220V AC 50Hz/60Hz	Grey	220V~	3 VA	90	300 to 12kHz	5004100311337
E2621/6	Mini Horn	12V DC	Grey	12V	1 W	90	300 to 12kHz	5004100311344
E2621/7	Mini Horn	24V DC	Grey	24V	1 W	90	300 to 12kHz	5004100311351

\*Sound levels measured in 'open-field' conditions

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Product Code	Range	Page Number
CA1	2 Channel Digital Video Image Recorder (DVR) for Response Wireless/Wired CCTV Kits	11
CA2	LCD Screen for Response Wireless/Wired CCTV Kits	11
CA3	Wireless Colour Camera CCTV Kit	5
CA4	10m Extension Cable Kit	10
CA5	Wired Professional Colour Camera CCTV Kit	9
CA6	Dummy Professional Heavy Duty Camera	12
CA7	4 Channel Digital Video Image Recorder (DVR) for Response Wireless/Wired CCTV Kits	11
CA8	Wired Internal Colour Dome Camera CCTV Kit	10
CA9	Dummy Internal Dome Camera	12
CA10	Wired Heavy Duty Colour Camera CCTV Kit	10
CA11	Dummy Heavy Duty Camera	12
CA12	20m Extension Cable Kit	10
CWFK1	Wireless Colour Camera CCTV Kit	5
CWFK2	Wireless Colour Camera and 2 Channel DVR CCTV Kit	5
CWK1	Wired Colour Camera CCTV Kit	7
CWK2	Wired Colour Camera and 2 Channel DVR CCTV Kit	7
CWK3	Wired 2 Colour Camera and 2 Channel DVR CCTV Kit (Twin Pack)	7
CWK4	Wired Heavy Duty 2 Colour Camera and 4 Channel DVR CCTV Kit	8
CWK5	Wired Heavy Duty 4 Colour Camera and 4 Channel DVR CCTV Kit	8
CWK6	Wired Professional 4 Colour Camera and 4 Channel DVR CCTV Kit	9
E2620/5	Security Horn	28
E2621/6	Mini Horn	28
E2621/7	Mini Horn	28
E2622/1	Mini Horn	28
E2622/5	Mini Horn	28
HW0	Dummy Siren	16
HW2	Single PIR	16
HW3	Remote Key Fob	16
HW4	Single Door Contact	16
HW5	Key Pad	16
HW10	Back Up Battery	16
HW12	Lighting Control	16
HW22	Twin PIR	16
HW44	Twin Door Contact	16

Product Code	Range	Page Number
L110N	Spectra LITE	23
L300	Spectra+ Remote Control	22
L310	Spectra+ Wired 140° PIR	21
L320	Spectra+ Wired 200° PIR	21
L330	Spectra+ Wired 360° PIR	21
L510N	Spectra Miniflood 150W	23
L540N	Spectra Superflood 500W	23
L620	Spectra+ Wirefree 140° PIR and receiver	22
L630	Spectra+ Wirefree 140° PIR	22
ML1	Shed Alarm	25
ML2	Window Alarm Twin Pack	25
ML3	Door/Window Alarm Twin Pack	25
ML4	Door/Window Alarm	25
ML5	Single Room PIR Alarm With Keypad	26
ML6	Single Room PIR Alarm With Remote Control	26
ML7	Single Room PIR and Personal Safety Alarm Kit	26
ML9	Personal Panic Alarm	26
PL4	Wired Alarm Kit	19
PW1	Door Contact	19
PW2	PIR	19
PW3	Dummy Siren	19
SL1	Premium Wireless Home and Away Alarm System	15
SL2	Premium Wireless Multi User Alarm System	15
SL3	Premium Wireless Multi Function Alarm System	15
SL5	Premium Wireless Telecommunicating Alarm System	16
56-66	Conduit Box	27
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56-024	Masterbell	27
56-230	Masterbell	27
56-230R	Masterbell	27
59-230	Bigbell	27
66-06SP	Masterbell	27
66-12SP	Masterbell	27
66-24SP	Masterbell	27
6624SPR	Masterbell	27

Friedland acknowledges the environment as a business issue. In pursuit of business successes, the company recognises the need to conduct its activities in an environmentally responsible manner.

The company is concerned with the need to find solutions to potentially adverse environmental impacts of our business activities and is committed to the prevention of pollution and a programme of continuous improvement.

The company believes that the impact its activities may have on the environment are not confined to our manufacturing processes or indeed within the confines of our site facilities. Rather they can be spread over the life cycle of a product or service, and may contribute to adverse environmental effects in a number of indirect ways. From production of raw material through to end of life disposal of a product, we aim to minimise harm to the environment in every aspect over which we have an influence.

For more information, full technical specification and downloadable installation manuals please visit [www.friedland.co.uk](http://www.friedland.co.uk)

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Reference UKFR007-0112b-EN  
January 2012  
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