

# FarmGuard External Wireless Security

**Designed and produced in the UK for rugged agricultural use.**

The FarmGuard system is designed to provide instant protection against the spiralling scourge of rural theft without the hassle and expense of running cables. It is based around a series of wireless infra-red sensors, which signal back to the farmhouse immediately an intrusion is detected. It has been proven to be an economical, simple and incredibly versatile way to protect hundreds of thousands of pounds worth of machinery and stock from theft and vandalism.

Using FarmGuard, selected vulnerable areas can be protected by an invisible infra-red cordon. Any intrusion through this cordon will trigger an alarm in the house. This alarm will alert you to the intrusion, providing instant indication of the location.

Where remote monitoring is needed, the receiver is connected to a telephone dialler, which will immediately alert you or a neighbour in the event of an intrusion. Up to eight numbers can be called in sequence. A high-power siren may also be installed, to act as a very effective deterrent.

As the sensors are wireless, absolutely no preparatory groundwork is required, and the sensors can be installed in a matter of minutes. If the need arises, it's a simple matter to relocate sensors to provide protection just where you need it. It really is that easy... and because there are no cables to run, it works out extremely cost-effective.



## Gateway Alarm:

Detection range - 30m narrow-angle 'beam'  
Transmitting range - 1 mile (line-of-sight)  
Sensor power source - Two internal AA batteries  
Battery life - up to 18 months  
Installation time - 5 minutes

By far our most popular system. A weatherproof PIR 'beam' sensor / transmitter and a single-channel plug-in receiver. Completely wireless and highly immune to false alarms.



## FG/30 External 30m 'beam' PIR sensor:

Detection range - 30m narrow-angle 'beam'  
Transmitting range - 1 mile (line-of-sight)  
Power source - Two internal AA batteries  
Battery life - up to 1 year  
Installation time - 5 minutes

Supplied pre-programmed complete with mounting bracket and batteries. Ideal for protecting perimeter and entrances. Protective cages available to prevent accidental damage and vandalism.



## FG/12 External 12m wide-angle PIR sensor:

Detection range - 12m wide-angle  
Transmitting range - 1 mile (line-of-sight)  
Power source - Two internal AA batteries  
Battery life - up to 1 year  
Installation time - 5 minutes

Supplied pre-programmed complete with mounting bracket and batteries. Ideal for protecting workshops, out-buildings and yards. Protective cages available.



## FG/R1 Single-channel receiver / buzzer:

Built-in buzzer (90dB) or mini-siren (105dB)  
Receiving range - 400m with built-in antenna or 1 mile (line-of-sight) with yagi antenna  
Power source - connects to mains  
Installation time - 1 minute



## FG/Quad:

A highly selective vibration detector with integral transmitter. Attaches to the quad-bike and transmits a warning signal whenever anyone tries to tamper with it. Transmission range up to 400m. Battery-powered and completely self-contained, so no connections to vehicle-wiring required.  
Installation time - 10 minutes

### General Purpose Transmitter:



A FarmGuard transmitter with built-in batteries. Transmitting range to the receiver is about 400—500m. This can be extended using a whip or yagi antenna. It can be triggered by a relay contact (normally-open or normally-closed), a float switch, a mains-failure module, a thermostat or any other switching mechanism.

Housed in a rugged weatherproof and tamper-protected enclosure.

### Mains Failure Protection:



A single-phase mains failure module. It simply plugs into a 13A socket and triggers the instant the power goes off. It can be connected to an existing alarm system, or to a FarmGuard transmitter (see above) which will transmit the alarm to a receiver in the farmhouse or site office.

### Bells-only Mains Failure Protection:



A single-phase mains failure module. It simply plugs into a 13A socket and triggers the instant the power goes off. It features a built-in mini-siren and a battery backup to raise the alarm when a critical power failure occurs.

The internal battery is kept continually charged by the mains.

### GSM Mains Failure Protection:



A single-phase mains failure module. It simply plugs into a 13A socket and triggers the instant the power goes off. It features a battery backup and a GSM dialler to raise the alarm when a critical power failure occurs and report the condition to your mobile phone by text message or voice call. It will report to up to ten phone numbers (landline and mobile) and comes supplied with a SIM card and a linked swipe-card for easy topping up.

### Under / Over-temperature Protection:



A thermostat designed for connection to our general-purpose transmitter or GSM dialler to provide instant warning of a critical temperature in a greenhouse / poultry shed etc. Will monitor for under-temperature or over-temperature. Set-points between -5 and +35 degrees.

**Note:** A very wide variety of environmental conditions can be monitored by the FarmGuard range. The general-purpose transmitter and diallers can be connected to any sensor that provides a switching output, and all our systems have been designed to work in remote locations and in the absence of mains electricity and telephone landline.



### **FG/R8 8-channel receiver:**

Built-in sounder  
Receiving range - 400m with built-in antenna or 1 mile (line-of-sight) with yagi antenna  
Power source - connects to mains. Battery back-up optional.  
Installation time - 5 minutes

Supplied pre-programmed. Provides visual indication of location of intrusion (8 separate intruder zones plus fire and panic). Low sensor-battery warning. Can be connected to siren and / or auto-dialler.



### **FG/REMOTE Remote Control for 8-channel receiver:**

Allows remote arming and disarming of 8-channel receiver  
Incorporates panic-button facility  
Transmitting range up to 200m (with whip receiving antenna)  
Installation time - nil



### **FG/R8+ 8-channel receiver with individual zone outputs:**

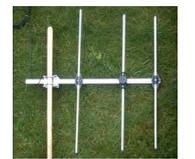
Built-in sounder  
Receiving range - 400m with built-in antenna or 1 mile (line-of-sight) with yagi antenna  
Power source - connects to mains. Battery back-up optional.  
Installation time - depending on application

Supplied pre-programmed. Provides visual indication of location of intrusion and a separate relay output for each zone. Low sensor-battery warning. Ideal for CCTV applications and linking into existing alarm.



### **FG/ANT1 Whip Antenna:**

Connects to any FarmGuard receiver and extends range to 800m  
Fitted with 10m low-loss coax and BNC plug for instant connection  
Supplied with wall & pole mounting hardware  
Omni-directional (i.e. receives signals from all directions)  
Installation time - 10 minutes



### **FG/ANT2 Yagi Antenna:**

Connects to any FarmGuard receiver and extends range to a mile  
Fitted with 10m low-loss coax and BNC plug for instant connection  
Supplied with pole mounting hardware  
Directional (i.e. needs to point towards most distant sensors)  
Installation time - 20 minutes



### **FG/RP1 Repeater / booster:**

Located mid-way between sensors and receiver, it effectively doubles the transmitting range of system  
Mains-powered with 24 hour battery backup  
Completely maintenance-free  
Up to 4 repeaters may be used in a chain, providing unparalleled transmitting range  
Installation time - 15 minutes



### **FG/AD1 Auto-dialler:**

Automatically calls up to 8 numbers when activated  
Simple 3-wire connection to FarmGuard receiver. Requires a landline. See next page for GSM dialler.  
Armed and disarmed with separate 4-digit passcode  
Separate channels and pre-recorded messages available for fire, panic and intrusion  
Installation time - 10 minutes



### **FG/SIREN External weatherproof siren / strobe:**

High-power siren provides powerful deterrent  
Eye-catching strobe  
Fully tamper protected with internal back-up battery  
Supplied pre-wired with 20m cable  
Installation time - 15 minutes

# Pager & Transmitter



Designed as an add-on to our top-selling **FARMGUARD** system. The **FARMGUARD** system sounds a buzzer or siren in the house the instant an intruder is detected coming through a gateway or into a farmyard etc. The pager system will relay the alarm directly to you anywhere within a 1km radius of the receiver (can be extended if required. Call for advice)

The pager transmitter is wired into and located inside the FarmGuard receiver, and must therefore be ordered at the same time as the receiver. **£99**

## GSM Dialler

### When no landline is available... Operates on the mobile network

A remarkably versatile little unit. As well as carrying out the functions of a traditional auto-dialler (but without the need for a landline), this piece of kit will text up to ten different numbers and immediately report a problem.

It features multiple input channels, with a different programmable message for each.

The unit can be armed and disarmed remotely by text message or locally by a key-switch, and has outputs that can be activated remotely by text message, allowing you, for example, to stop a stolen vehicle in its tracks or to trigger a CCTV camera with built-in image storage simply by sending an SMS .

The dialler is ideal for temporary or permanent installation in remote properties with or without mains power, as it operates on a 12 volt supply. It will run happily on a leisure battery for typically 2 months between charges.

Two versions are available; a 2-input channel / 1 output unit and a 4-input channel / 3 output channel unit.

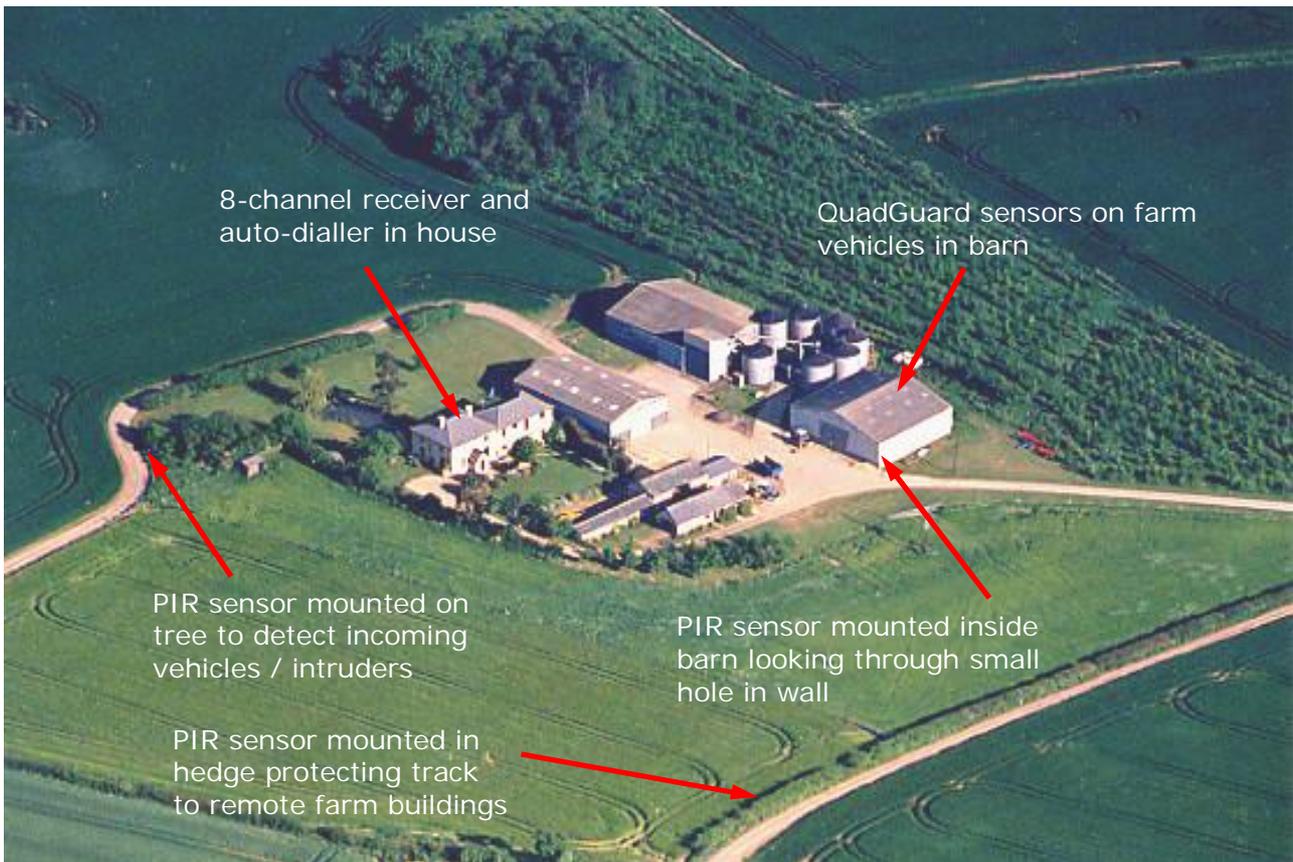
Price (2-channel) - (including a SIM card on a network of your choice)  
Price (4-channel) - (including a SIM card on a network of your choice)



# TYPICAL APPLICATION

Below is a typical simple application, in which a couple of PIR sensors are used to protect the two farm entrances. Smoke detectors, QuadGuard sensors etc. may be added to the system at any time.

All sensors are completely wireless and self-contained, so can be installed in moments and moved as required with the minimum of fuss.



## Notes:

Each PIR sensor has a detection range of 30m, and a transmitting range of 400m. Transmitting range is increased by connecting an aerial to the receiver.

The system is armed and disarmed at the receiver.

Remote monitoring can be achieved using a pocket pager or an auto-dialler, which will dial up to ten numbers and report the problem immediately.