G.S.M ACTIVATE

GSM PERIMETER & INTRUDER ALARM

Remote Monitoring & Control using your mobile phone.

www.gsm-activate.co.uk

MODEL NUMBER IRV2

Product Information

Our GSM Perimeter and Intruder alarm system can be used for indoor and outdoor purposes. The transmitter and receiver can be placed up to 100 metres outdoors and 300 metres indoors placing two invisible beams between each other. When the beams are broken it will trigger the alarm and using the GSM technology it will send you a text message or phone call to your mobile phone or land line to alert you.

Specification

- GSM Frequency: Quad band Freq 850/900/1800/1900 MHz
- Power Supply Voltage: 12 24 Vdc 2 Amp max
- Current used in standby mode: 80 milliamps max
- IP Enclosure rating for outside installation
- 3 Amp Relay output
- Standard 2G simcard
- No Landline Required
- Dimensions L175 xW100 xH90mm Transmitter
- Dimensions L175 xW100 xH1 10mm Receiver
- Operating T emperature: -10...+40°C
- Sensor range 100m outdoors, 300m indoors
- Auto reset
- Dipswitch setting for call or text alert
- T ext for signal strength
- Stay Active Sim Function
- Proramme Simcard by text message.

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Setting up the GSM Alarm Module

New simcards will need registering before they can be used. Full details of how to do this can normally be found in the simcard pack. It will usually require that the simcard is inserted into a mobile phone, a number dialled and instructions followed.

While the SIM is in the mobile phone it would be a good time to disable any PIN codes, call diverts, ring back and disable features such as voicemail and text alerts. Details of how to do this can be found on the simcard provider's website or by calling their customer services. Please use one of the following simcard providers. (Vodafone, TMobile, O2/, Giff Gaff, or Orange, EE,)
We do not recommend the "three" network.

Please note the GSM Perimeter and Intruder alarm has a built in "sim active function" which keeps track of the units activity. If there has been no usage for 6 weeks it will send out a text message to a preset recorded number to keep the simcard alive. This then eliminates the problems of simcards being shut down if they are unused for 3 months.

Fitting the Simcard (Ref to page 4)

1: Slide back the sim door and lift it up.
2: Slide the simcard in to the door making sure that the clipped corner of the simcard lines up with the clipped corner of the sim holder.
3: Close the sim door.
4: Slide the sim door to lock the simcard in place.

Selecting Dipswitch (ref to page 4)

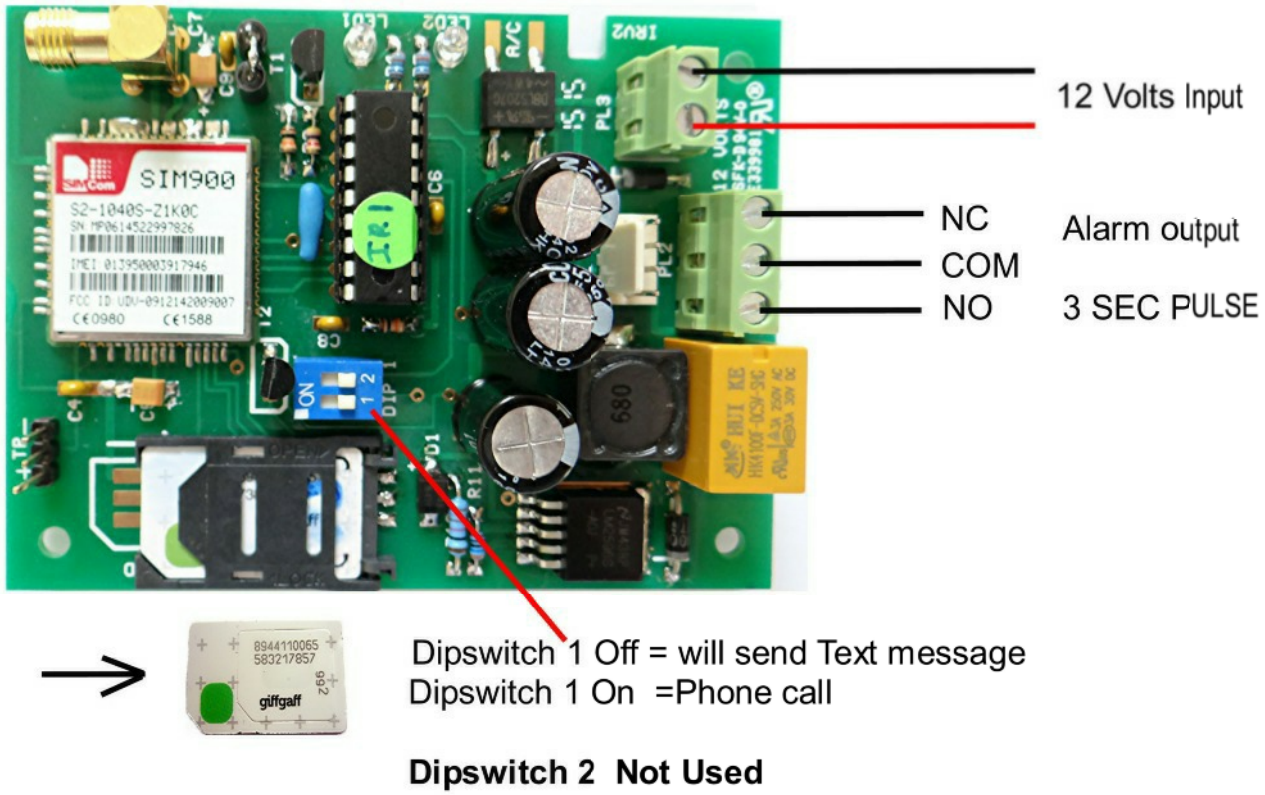
Dipswitch 1 OFF

If you select Dipswitch **OFF** position and the infrared beam has been triggered the unit will send you a text message. (ALARM TRIGGERED)

Dipswitch 1ON

If you select dipswitch **ON** position and the infrared beam has been triggered you will receive a telephone call alert. After six ring tones the call will automatically hang up. You do not need to answer the call.

DIPSWITCH 2 IS NOT USED



IMPORTANT- PLEASE READ
PLEASE MAKE SURE YOU DISCONNECT THE POWER WHEN YU FIT THE SIMCARD AND YOU PLACE THE SIMCARD WITH THE CLIPPED CORNER FACING OUTWARDS. PLEASE SEE PICTURE ABOVE.

4: Output relay.

The output relay connection can be used to trigger an external alarm system or auxiliary equipment, even a door bell.

When the infrared beam has been broken the output relay will latch on for approximately 3 seconds.

Note:
The GSM alarm system does not have to be activated for this to happen. When the IR Beam has been broken the output relay will always toggle ON and OFF.

5: Installation of the infrared beams

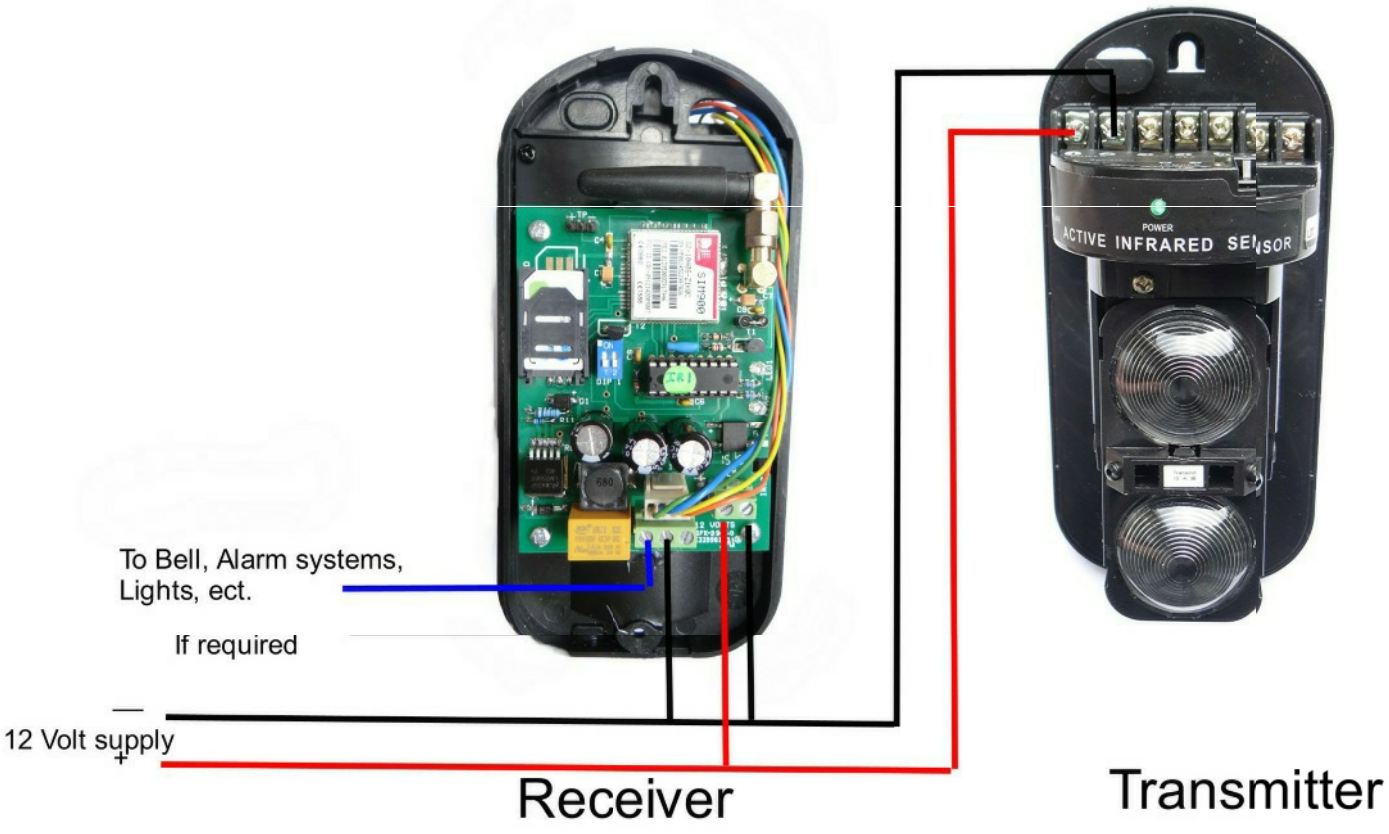
1: Find a suitable location for the transmitter and receiver and ensure the sensors are mounted on a stable structure.

2: When installing the receiver take care to position the receiver out of direct sunlight as this will reduce the sensitivity.

3: Ensure the sensors line of sight is free from false alarm sources such as bushes, trees, etc. Pay attention to these they may change seasonally.

4: It is important to have the correct Power Supply to operate this device successfully. You will need a 12 volt 2 Amp supply or 12 volt battery. You can purchase both of these from our website www.gsm-activate.co.uk.

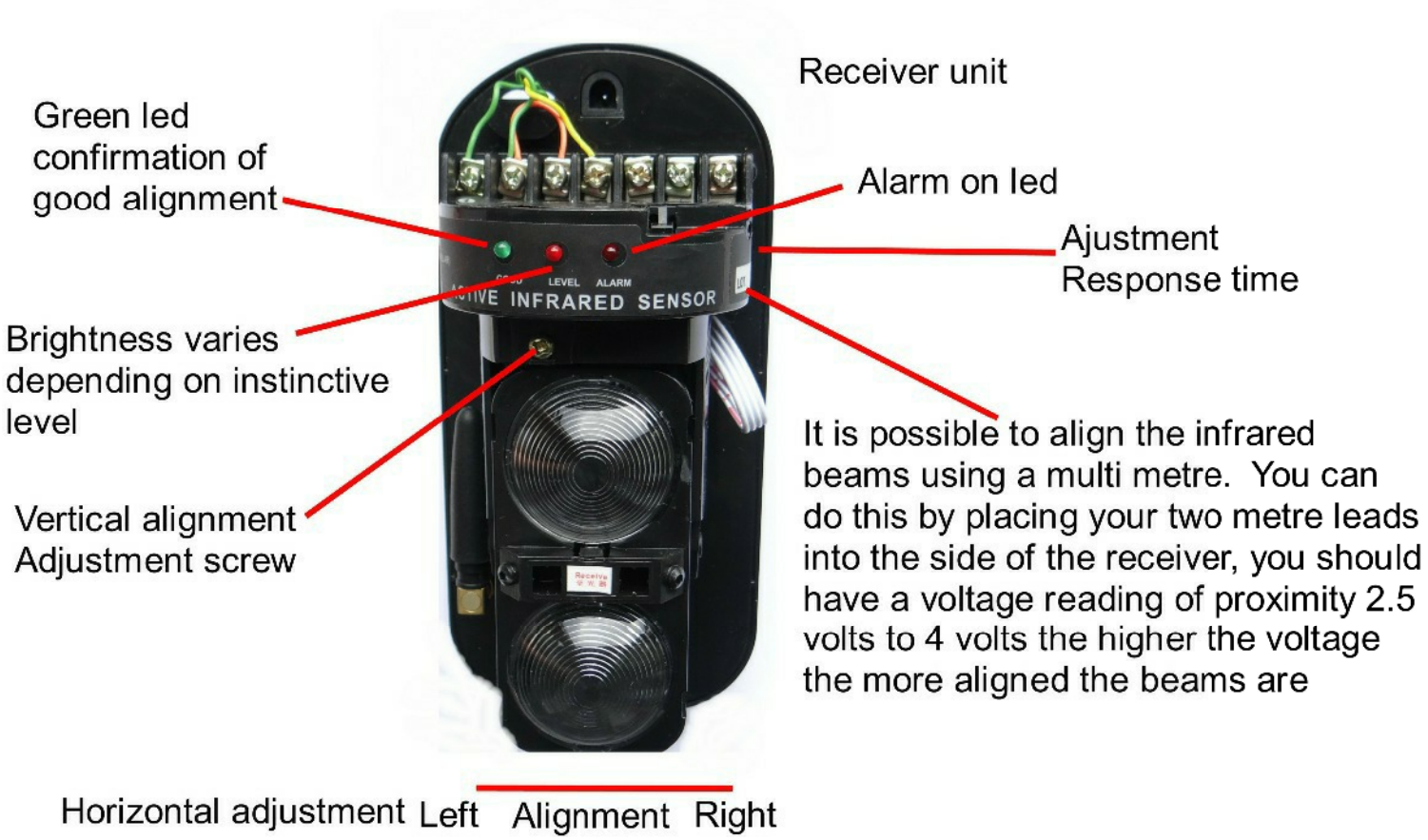
5: Below is a photograph of how to connect the transmitter and receiver, if you are going to use the relay alarm output you will need to refer to the diagram below



Installation of the infrared beams continued…

6: Now you have the transmitter and receiver fitted to the location you can carry out alignment. You will now need to turn the power on.

7: Alignment of the infrared beams. There are two adjustments, left and right, and up and down. The photo below should give you the indication of how to do this.



The voltage adjustment is only available on the receiver unit

8: When you are satisfied that the transmitter and the receiver are in alignment, which will be indicated by the green led turning on you can then carry out a walk test.

By interrupting the infrared beam the red alarm light on the receiver should come on for approximately 4 seconds. If this is the case then the unit is now working properly.

You are now ready to start programming the GSM module. This will allow the unit to send a text message or phone call, depending on how you set the unit up, but first you need to program the simcard with the telephone numbers. (maximum 3 numbers.)

Example: (hash) (1, 2 or 3) (Star) (phone number) (Star)

#1*01798123456* Then send this as a text to the simcard.
#2*01798856323*
#3*01798898765* Max 3 numbers.

NOTE You can only send one number at a time. It is important to wait until you receive the text acknowledgement “STORED” before sending the second number. This may take some time depending on how busy the network is.

If you wish to cancel a number follow this example.

(Hash) (1,2 or 3) (star) (star)

#1** Then send this as a text to the simcard.

Below is a notepad to help you remember the names and numbers that you have saved to your simcard, in the event you need to modify or delete In the future.

#1* _____*
#2* _____*
#3* _____*

Now you have the simcard programmed please make sure that you have set

Dipswitch 1 ON if you would prefer to Receive a Phone call.

Dipswitch 1 OFF if you would prefer to Receive a text message.

How to turn on the alarm module

At this point to turn on the alarm module you simply need to send the text message command **#Activate** to the alarm. It will send you a text message acknowledgement reading **ALARM ON**

To switch the alarm OFF send the text command **#Deactivate**

When the alarm has been triggered it will revert to standby. To reactivate the alarm you will need to re-send the command **#Activate**

Alarm output relay

This is a dry contact relay which can be used to activate auxiliary equipment or external alarm systems.

The relay has a COM N/O N/C contacts @3Amp Load (max)

Signal Strength

To help make sure that you place the unit in a suitable position you can text the unit to see how much signal strength you have by texting **#SS** this will indicate the strength of the signal. You will receive a text message reading either good, average or poor signal. We strongly recommend that you place the unit where you can get at least average signal. You will find that with a poor signal it will be unreliable and is not suitable.

A 3 metre signal booster cable is available on our website.

Quick reference

Send Text	**Operation**	**Acknowledgment**
#Activate	Turn Alarm on	Alarm on
#Deactivate	Turn Alarm off	Alarm off
#SS	Check signal strength	Good, Ave, Poor
#1*12345679989*	To store phone number 1	Stored
#1**	To delete phone number 1	Deleted

For more technical support please browse the FAQ's on our website **www.gsm-activate.co.uk** Alternatively email our technical support team at **technical@gsm-activate.co.uk** and we will do our best to reply within 24 hours Monday - Friday.