



1. General Description

The Wireless VITRON is an advanced microprocessor based Acoustic Glass Break detector. Using advanced glass-breaking pattern analysis of both Low Frequency "Flex" & High Frequency "Shatter" channels, the Wireless VITRON detects the breaking of most common types of framed glass panes while ignoring false alarms

- Main Features
 Up to 9m detection range.
- Suitable for most common glass types: plate, tempered laminated and wired glass.
- Minimum size for all types of glass: 30cm x 30cm (12" x 12")
- · Wall and Front cover Tamper protection

Type of glass	Thickness	
Plate Tempered Laminated	3.2 mm - 6.4mm (1/8" -1/	
Wired	6.4 mm (1/4")	

- · Wireless VITRON will not alarm if glass pane is broken from inside or glass is dropped on floor
- · Full remote test using RG-65 Glass Break Simulator, without the need to open the unit.

 Optional ceiling/wall mount swivel adaptor for
- optimal mounting and performance (supplied with the Wireless VITRON).

2. Installation Procedure

Range of coverage:

Wireless VITRON range of coverage depends on the type of glass (see Table 1) and the installation angle between the Wireless VITRON and the glass (see Fig 1)

fold

Plate			Tempered, Laminated, Wired,		
Size	Thickness	Max. Range	Size	Thickness	Max. Range
Minimum 50x50cm (20"x20")		9m (30ft)	Minimum	6.4mm	6m
Minimum 30x30cm		6m (20ft)	30x30cm (12"x12")	(1/4")	(20ft)

Table 1: Wireless VITRON range of coverage

Angle	Percent of
(degrees)	maximum range
0	10
12	95
30	87
45	70
60	50
75	25
90	0

fold

To improve detection, It is highly recommended to us a swivel adaptor, especially for ceiling and wall installations

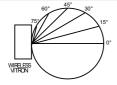


Fig 1: Percentage of Maximum Range as a function of angle between Wireless VITRON and glass.

Verify that the distance between the Wireless VITRON and the furthest point on the protected glass does not exceed the maximum specified range taking into account the reduced range due to angle (see Fig 2)

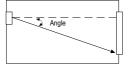


Fig 2: Angle between Wireless VITRON and glass Other factors affecting range:

- There should be no obstructions between the Wireless VITRON and the protected glass
- Curtains and blinds may reduce the effective range
- Sound absorbing materials in the protected area may reduce the range.

RISCO Group Limited Warranty

RISCO Group and its subsidiaries and affiliates ("Seller") warrants its products to be free from defects in materials and workmanship under normal use for 24 months from the date of production. Because Seller does not install or connect the product and because the product may be used in conjunction with products not manufactured by the Seller, Seller can not quarantee the performance of the security system which uses this product. Sellers' obligation and liability under this warranty is expressly limited to repairing and replacing, at Sellers option, within a reasonable time after the date of delivery, any product not meeting the specifications. Seller makes no other warranty, expressed or implied, and makes no warranty of merchantability or of fitness for any particular purpose. In no case shall seller be liable for any consequential or incidental damages for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Sellers obligation under this warranty shall not include any transportation charges or costs of installation or any liability for direct, indirect, or not be compromised or circumvented; that the product will prevent any persona; injury or property loss by intruder, robbery, fire or otherwise; or that the product will in all cases provide adequate warning or protection. Buyer understands that a property installed and maintained alarm may only reduce the risk of intruder, robbery or fire without warning, but is not insurance or a guaranty that such will not occur or that there will be no personal injury or property loss as a result. Consequently sellative no liability for any Installed and maintained alarim may only reduce the risk of intruder, robbery or rire window amining, but is not instance or a guaranty ms such will not occur or that there will be no personal injury or properly loss as a result. Consequently seller shall have no liability for any personal injury, property damage or loss based on a claim that the product fails to give warning. However, if seller is held liable, whether directly or indirectly, for any loss or damage arising from under this limited warranty or otherwise, regardss of cause or origin, sellers maximum liability shall not exceed the purchase price of the product, which shall be complete and exclusive remedy against seller. No employee or representative of Seller is authorized to change this warranty in any way or grant any other warranty.

WARNING: This product should be tested at least once a week.

CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to local regulations

3. Mounting Location

For optimal performance the Wireless VITRON should be mounted as nearly opposite to the glass area to be protected, as shown

 Opposite Wall - Mounted (For optimal results, Wireless VITRON) is centered opposite glass, see Fig. 3).



• Ceiling Mounted - (for optimal results Wireless VITRON is centered and directed towards protected glass, using the supplied



· Corner Mounted - (choose corner opposite glass to be protected see fig. 5)



Fig. 5 · Side wall Mounted - (not rended due to the fact that the Wireless VITRON is not opposite the glass - see range versus angle diagram (Fig 2). Test detection carefully at both ends of glass using RG-65 Tester (see fig. 6).

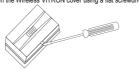


Do not mount Wireless VITRON on same wall as the protected glass

Do not mount Wireless VII RUN on same wall as the protected Avoid installing the Wireless VITRON near sources of loud nois noise or vibrations (air conditioners, fans, compressors, stereos Avoid defining the Wireless VITRON as a 24 hour zone. The Wireless VITRON should always be installed in addition to standard motion detectors.

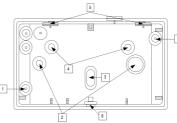
4. Mounting

Open the Wireless VITRON cover using a flat screwdriver.



- 2. Open the required mounting knockouts, according to the type of installation (corner, flat or swivel mounting, see Fig. 7)
- 3. Use the detector's back plate as a template and mark the drilling holes on the required position

Remove the PCB only if corner mounting or optional swivel mounting

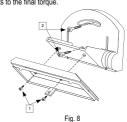


1197.	rig 7. Wileless VITTON Wouthing Milockouts	
#	Description	
1	Corner mounting knockout	
2	Wall/Flat mounting knockout	
3	Back tamper knockout	
4	Swivel mounting adaptor knockouts	
5	Cover attaching notches	
6	Snap and fastening screw	

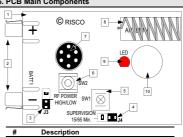
- 4. If a back tamper protection is required open the back tamper knockout (3, Fig. 7)
- Secure the back plate to the wall using the supplied screws. Snap back the PCB (if removed).
- Insert battery in place according to the correct polarity (polarity marks on PCB).

5. Swivel Mounting
When installing the Wireless VITRON with the supplied swivel mounting adaptor, maximum installation flexibility and performance is achieved.

- To install the swivel mounting adaptor perform the following:
- 1. Remove the PCB from the Wireless VITRON back plate
- 2. Open the swivel mounting adaptor knockouts (4, Fig 7).
- 3. Attach the swivel mounting adaptor to the back plate using the tv supplied screws (1, Fig 8).
- 4. Mount the Wireless VITRON on the required location (wall or ceiling) using the supplied screws (2, Fig 8). Do not
- 6. Adjust the detector so it will face the protected glass. Tighten the bolts to the final torque



6. PCB Main Components



fold

fold

		10.00 11111
ŧ		Description
1		PCB
2]	Battery holding holders
3]	J3 - RF Power selector
4	1	J4 - Time supervision selector

Front Cover tamper switch Back Plate cover tamper switch Microphone

Antenna Indication LED Positionina hole

7. Transmitter/Receiver Communication link setup

The Wireless VITRON has 3 operation modes Normal: Any loud sounds such as clapping, whistling or key- jingling should produce a flash of the VITRON's LED. This verifies that the Wireless VITRON is active. During active supervision, there is no transmission. To save power consumption the LED is activated up to 800 times per day. Alarm: On detection of framed glass being broken from outside the LED will light continuously for 2 seconds and an alarm transmission is sent.

Test: See the Testing paragraph.

8. Testing

Testing should be performed using RISCO Group's RG65 Glass Break Simulator which has been specially designed and calibrated to give accurate range test results

All tests should be conducted under worst case conditions. All sounds should be generated behind curtains or blinds.

Step 1: Entering the test mode

The Wireless Vitron will enter into test mode if one of the following is performed:

- 1. After closing the front cover the Wireless VITRON will enter into test mode for 2 minutes.
- 2. Using the RG65 tester Position the RG65 tester at a distance of 1 meter from the Wireless VITRON. Set the lower selector switch on the RG65 to CODE setting and press the operating button on the tester. The Wireless VITRON LED will blink once every 3 seconds, lasting for a period of 2 minutes.

Step 2: High frequency (audio) test - Position the Glass Break Simulator at the farthest point on the protected glass and face it into the room. Set lower selector to GLASS setting and upper to type of glass to be simulated. Generate glass-break sound by pressing the operating button. Verify that Wireless VITRON LED is lit for 2 seconds and an ALARM message is transmitted while the red LED is on

fold

fold

Step 3: Environmental Test

This test is performed to verify interference produced by environmental conditions or facilities.

To perform the test, operate all devices in the protected

region that may interfere with the detector, including ai conditioners, fans, radios etc.

Observe the Wireless VITRON and note any disturbances If disturbances occur, re - position the unit in diferent and

Turn all noise generating equipment off and wait until unit returns to NORMAL mode.

Note: The Wireless VITRON will return to normal mode after two minutes. Setting the "CODE" switch and pressing the "Manual button at any time will initiate another two minutes Test Mode.

Step 4: User test

9. Jumpers settings

Description

Power High/Low

Supervision
Defines the Wireless VITRON

J3

The Wireless VITRON can be tested by the installer or the user while in normal mode by clapping, whistling or key-jingling under the detector. The LED will flash. No report will be established.

Jumper position

Power

For FCC

Every 15 Min

High Power

Every 65 Min

For FCC

Electrical	
Current consumption (standby)	22 uA at 3 VDC, without acoustic signal
Current consumption	15 mA at 3 VDC (Max. with LED ON)
(Alarm transmission)	10 mA at 3 VDC (Max. with LED OFF)
Modulation type	ASK
Battery life	3 years, at 65 minutes supervision
Supervision	Every 15/65 minutes.
transmission	
Address codes	16 Million
Range (loss)	300m (1000 feet)
Voltage requirements	CR123A 3VDC Lithium Batteries
Frequency	RWT6G086800A - 868.65MHz RWT6G043300A - 433.92MHz
Phisical	
Size (LxWxD)	87 x 50.7 x 28.6 mm
	(3.4 x 2.0 x 1.1 in.)
Environmental	
Operating/Storage	0°C to 50°C (-32°F to 122°F)
temperature	
RF immunity	20V/m (80MHz to 2GHz)

11. Ordering Information

Part Number	Description	
RWT6G086800A	Wireless VITRON-868.65MHz	
RWT6G043300A	Wireless VITRON-433.92MHz	
Note: The detector contains a Swivel Adaptor		

FCC Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 Increase the separation between the equipment and the
- receiver.
- · Connect the equipment into an outlet on to a different circuit from that to which the receiver is connected.

 Consult the dealer or an experienced radio/TV technician for

Changes or modifications to this equipment which are not expressly approved by the party responsible for compliance (RISCO Group) could void the user's authority to operate the equipment.

FCC ID: JE4RWT6G Valid for P/N RWT6G043300A IC: 6564A - RWT6G Valid for P/N RWT6G043300A

fold

fold

RTTE Compliance Statement

Hereby, RISCO Group declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC (Valid for P/N RWT6G086800A).



fold fold

fold

Contacting RISCO Group

RISCO Group is committed to customer service and product support. You can contact us through our website www.riscogroup.com) or at the following telephone and fax numbers:

United Kingdom Tel:+44-161-655-5500 sales@riscogroup.co.uk technical@riscogroup.co.uk

Italy Tel: +39-02-66590054

support@riscogroup.it

info@riscogroup.it

Tel:+34-91-490-2133 sales-es@riscogroup.com support-es@riscogroup.com Tel: +33-164-73-28-50

sales-fr@riscogroup.com

support-fr@riscogroup.com

Spain

Tel: +32-2522 7622 sales-be@riscogroup.com support-be@riscogroup.com

support-br@riscogroup.com Tel:+305-592-3820

Tel:+55-11-3661-8767 Tel: +972-3963-7777 sales-br@riscogroup.com info@riscogroup.com support@riscogroup.com

Tel: +86-21-52-39-0066 sales-usa@riscogroup.com sales-cn@riscogroup.com support-usa@riscogroup.com support-cn@riscogroup.com

All rights reserved

No part of this document may be reproduced in any form without prior written permission from the publisher.



© RISCO Group 12/07 5INT6G B

cut fold fold cut