This DECT ULE GBD is an advanced, fully

supervised, low-current Shock & Glass Break

wireless detector including a DECT ULE transceiver

The DECT ULE GBD provides detection coverage of 360° measured from the sensor to the point on the

The DECT ULE GBD transmits series of messages for full communication administration - Alert, Keep

Frequency Band: All DECT Standard Bands

Bi-Color LED indications for monitoring & Pairing.

INTRODUCTION

for reliable system operation.

glass farthest from the sensor.

Alive, Tamper & Battery status, etc. • DECT ULE RF protocol

Battery life: up to 4 years Back Tamper (removal protection) Keep Alive & Battery status transmissions

Configurable over-the-air

Low current Technology
Powered by a 3 Volt Lithium battery

Range up to 500m on open space.

Detector Bracket

DECT ULE-GBD

WIRELESS GLASS BREAK DETECTOR

CR-DU-GBD-FU



ELECTRONIC ENGINEERING LTD.

INSTALLATION INSTRUCTIONS P/N 7101220 REV. A (O.Z.)

Issue Date: May 29th, 2017

This DECT ULE GBD transmits the following

(configurable) indicating detector's presence.

ALARM - Alarm transmission triggered by the

level (2.5V), a Battery Low signal will be sent. When Battery level drops below Cut Off level (2.3V)

will blink for 10 seconds and then turned Off.

the device will stop functioning and the Red LED

TAMPER - Whenever the detector unit is removed

from its base or the device is tear off from the wall.

a "Tamper" signal will be transmitted to the control

device indicating Shock & Glass Break detection.

LOW BAT - Whenever the battery reaches the low

KEEP ALIVE - A periodical transmission

The Red LED will blink once.

OPERATION

events data:

panel.

PAIRING PROCESS

- Unscrew the holding screw and separate the detector from the Bracket by tilting the front cover from the base as shown in Figure 1.
- Place a battery according to polarity as instructed in Figure 2 and wait until the Red LED stops blinking.
- Initiate the Base Station paring process.
- Initiate the GBD pairing process by pressing the pairing button for 5 seconds - the pairing button is shown in Figure 3. The Green LED will constantly turn On. When the Green LED starts blinking release the pairing button.
 - The device should register to the Base Station.
- When registration process is successfully completed the Green LED will constantly light On for 3 seconds and then turn Off.
- If registration process failed the Red LED will blink (remove the battery, wait for 10 seconds and run the pairing process again).

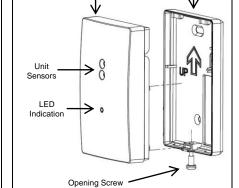


FIGURE 1 - SEPARATE FROM BRACKET



FIGURE 2 - BATTERY PLACEMENT

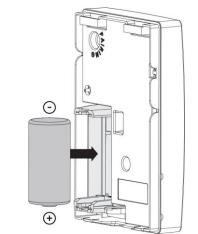
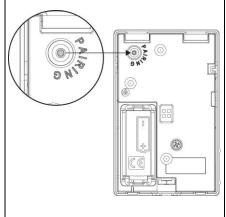


FIGURE 3 - PAIRING



in other rooms, etc. For best false alarm immunity the detector should

SELECT MOUNTING LOCATION The best location for mounting the detector is on the opposite wall to the glass to be protected. Mounting the detector on adjoining (side) walls or

on the ceiling is also possible.

be located at least 1.2m away from noise sources (televisions, speakers, sinks, doors, etc.).

The detector must always be in direct line of sight with all protected glasses and in rang. It can't consistently detect glass breaking around corners,

MOUNTING THE DETECTOR

- 1. Unscrew the holding screw and separate the device from the Bracket by tilting the front cover as shown in Figure 1.
- Mount the Bracket to the wall:
- a. Using screws
 - Place 3 screws and make sure you tighten the tamper screw - the middle screw as shown in Figure 4.
- b. Using adhesive tape -
 - Peel one side of the adhesive tape and adjust the sticker to the bracket. Then peel the other side of the adhesive tape and then press the bracket against the installation location surface - wall / celling see Figure 5.
- Initiate the Pairing process.
- Place the device in the Bracket by inserting it back into appropriate position.
- 5 Fasten the holding screw.



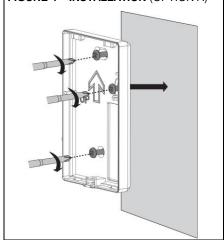
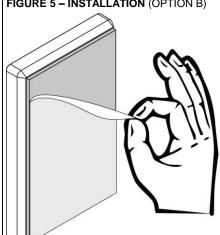


FIGURE 5 - INSTALLATION (OPTION B)



PRODUCT VIEW

Detector Unit

The DECT ULE GBD is designed to detect the

shattering of framed glass mounted in an outside

glass or bullets went through the glass. Testing the

detector with unframed glass, broken bottles, etc.

does not trip to glass break tests in the middle of a

areas, when mounted above sinks, when used in

acoustically live rooms and rooms where multiple

sounds can reflect and eventually duplicate the

Also, avoid installation in - lined, insulated or

drapery rooms, in rooms with closed wooden

shutters inside, in small utility rooms, stairwells, small bathrooms and on corners of a room.

residential car garages and in other small,

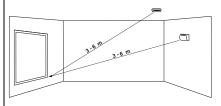
may not trip the detector. The detector typically

room as such breaks are false alarms. False alarms are most likely to occur when installed in glass airlocks and glass vestibule

wall and it may not consistently detect cracks in

INSTALLATION TIPS

FIGURE 6 - INSTALLATION DISTANCE



Installation Distance

Coverage is measured from the detector to the protected glass farthest corner - as shown in Figure 6 above. The detector's minimum installation distance is 1m and maximum:

- 1. Mounted on opposite or adjoining wall or on celling, for plate, tempered, laminated and wired glass it is - 6m.
- 2. For armor-coated glass it is 3.65m.

THE PROTECTED GLASSES

The detector is designed to detect the breaking of framed glass mounted in an outside wall. Testing the detector with unframed glass may fail.

NOTE: The detector may not consistently detect cracks in glass, or bullets went through the glass.

Glasses Size & Thickness

0.3m x 0.6m or larger	
Glass thickness	
2.4mm to 6.4mm	
3.2mm to 6.4mm	
6.4mm	
3.2mm to 6.4mm	

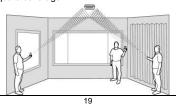
TRANSMISSION TESTS

Glass break tester

You can use a shock & glass break tester to check the functioning of the detector and the conformity of the installation

When the Red LED on the detector goes solid momentarily while the tester is triggered, the glass is within detection range.

If the LED does not go solid, but simply continues blinking, re-position the detector closer to the protected windows and retest. This may require adding additional detector(s) in order to achieve adequate coverage.



TRANSMISSION TESTS (continue)

Tamper transmission test -

glass break frequency pattern.

Changing the tamper switch state (by attaching / removing the device to / from the Bracket) will cause tamper transmissions. Verify receiving the indication on your Application / Base Station

Identification transmission test -

Use your Application / Base Station and send Identification Request to the device. The device will start blinking the Green & Red LEDs alternately - 5 times each LED starting with the

BATTERY REPLACEMENT

- 1. Unscrew the holding screw and separate the device from the Bracket by tilting the front cover as shown in Figure 1.
- Remove the in use battery from the device.
- Install the new battery in the correct polarity marking - as shown in Figure 2.
- Wait until the Red LED stops blinking.
- In case the device was paired to a Base Station the device should automatically register again to the same Base Station.
- Place the device in the Bracket by inserting it back into appropriate position.
- Fasten the holding screw.

The battery must be replaced by 3V Lithium battery CR123A only

- models such as:
- 1. VARTA CR123A 2. GP CR123A

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REGULATORY APPROVALS

This DECT ULE PIR detector conforms to the essential requirements set out by:

- RTTE directive:1999/5/EC
- EMC directive: 2004/108/EC
- Low Voltage directive: 2006/95/EC
- RoHS directive: 2011/65/EU

Harmonized Standards applicable to this products are:

- EN301406EN30447
- EN301489-6
- EN301489-1
- EN 50130-4 EN61000-6-1/3
- EN60950-1
- EN50581







TECHNICAL SPECIFICATIONS

DECT ULE RF Protocol Modulation Type **GFSK** Frequency 1880-1900 MHz - Europe 1920-1930 MHz - USA/Canada

Event Transmission Alarm, Tamper, Keep Alive, Batery status. Omni-directional Shock & Glass Detection Method

Break

Range in open space >500m

Battery Lithium. 3V Type: CR123A Size: 2/3A

Battery life

Current Consumptions: Standby Average 26uA Maximum (TX) 250mA Low Battery

Cut Off Battery Transmit Power (Typ.): Back Tamper

Tamper Switch Operating temperature Dimensions

Weight Weight (inc. battery)

2.5VDC 23dBm (EURO), 20dBm (USA)

-10°C to +55°C 85mm x 54mm x 23mm

95 gr. 110 gr.

WARNING!!!

CHANGES OR MODIFICATIONS TO THIS EQUIPMENT NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE (CROW ELECTRONIC ENGINEERING LTD.) COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

CAUTION !!!

RISK OF EXPLOSION IF BATTERY IS REPLACED BY DIFFERENT TYPE / MODEL. **DISPOSE USED BATTERIES** ACCORDING TO ITS INSTRUCTIONS

ATTENTION !!!

RISQUE D'EXPLOSION SI LA PILE EST REMPLACÉE PAR UN TYPE INCORRECT.

CROW ELECTRONIC ENGINEERING LTD. ("Crow") - WARRANTY POLICY CERTIFICATE

This Warranty Certificate is given in favor of the purchaser (hereunder the "Purchaser") purchasing the products directly from Crow or from its

Crow warrants these products to be free from defects in materials and workmanship under normal use and service for a period of 24 months from the Crow warrants these products to be free from defects in materials and workmanship under normal use and service for a period of 24 months from the last day of the week and year whose numbers are printed on the printed circuit board inside these products (hereunder the "Warranty Period"). Subject to the provisions of this Warranty Certificate, during the Warranty Period. Crow undertakes, at its sole discretion and subject to Crow's procedures, as such procedures are form time to time, to repair or replace, free of charge for materials and/or labor, products proved to be defective in materials or workmanship under normal use and service. Repaired products shall be warranted for the remainder of the original Warranty Period. All transportation costs and in-transit risk of loss or damage related, directly or indirectly, to products returned to Crow for repair or replacement shall be borne solely by the Purchaser.

Crow's warranty under this Warranty Certificate does not cover products that is defective (or shall become defective) due to: (a) alteration of the products (or any part thereof) by anyone other than Crow; (b) accident, abuse, negligence, or improper maintenance; (c) failure caused by a product which Crow did not provide; (d) failure caused by software or hardware which Crow did not provide; (e) use or storage other than in accordance with Crow's specified operating and storage instructions.

There are no warranties, expressed or implied, of merchantability or fitness of the products for a particular purpose or otherwise, which extend

Towns spectimed operating and activates institutions. There are no warranties, expressed or implied, of merchantability or fitness of the products for a particular purpose or otherwise, which extend beyond the description on the face hereof. This limited Warranty Certificate is the Purchaser's sole and exclusive remedy against Crow and Crow's sole and exclusive liability toward the

This infinited warranty Certificate is the Purchaser is one and exclusive ferheldy against crow and Crows so are all exclusive flexible.

Purchaser in connection with the products, including without limitation - for defects or malfunctions of the products. This Warranty Certificate replaces all other warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise. In oraces shall Crow be liable to anyone for any consequential or incidental damages (inclusive to loss of profit, and whether occasioned by negligence of the Crow or any third party on its behalf) for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Crow does not represent that these products can not be compromised or circumvented; that these products will prevent any person injury or property loss or damage by burglary, robbery, fire or otherwise; or that these products will in all cases provide adequate warning or protection.

protection.

Purchaser understands that a properly installed and maintained product may in some cases reduce the risk of burglary, fire, robbery or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss or damage as a result.

Consequently, Crow shall have no liability for any personal injury; property damage or any other loss based on claim that these products failed to

give any warning.
If Crow is held liable, whether directly or indirectly, for any loss or damage with regards to these products, regardless of cause or origin, Crow's maximum liability shall not in any case exceed the purchase price of these products, which shall be the complete and exclusive remedy against

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