

Ventcroft

# Vision Sounder

External SAB/SCB Sounder/Strobes

3mm  
Construction

ROHS  
Compliant

2W  
Xenon Tubes

Front  
Back  
Tamper

7.2  
NI-mH

2  
Strobe Flashes

Twin  
SABS LEDs

117dB  
Twin Piezo

2  
Year Warranty

Models to comply with BS4737, PD6662 & BSEN50131



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**Manufacturing Global Life Safety**



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# INTRODUCTION

The Ventcroft VISION is a high quality external combined sounder and strobe unit: features include a full timed SAB/SCB, utilising a dual failsafe digital cut-off timer, high efficiency single or double piezo sounder, twin status LED's, multiple tamper, re-chargeable battery, and a dual safe cut-off timer incorporating an engineer sounder "hold off". The unit has Ventcroft's unique rotating strobe circuit. The Rota-Flash circuit will flash each individual strobe tube in turn to make a complete revolution.

**The Vision conforms to Grade 3 of PD6662 & BSEN50131 and Environmental Class 4.**

**Important Note: The use of stranded steel cable or aluminium copper coated stranded cable or cable which has a resistance value of more than 120 Ohms per kilometre will invalidate the warranty of the sounder.**

## PLEASE READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL

### Contents of Sounder Components

1x Bell Monitor Resistor, 2x LED Light Bars, 2x Allen Bolt Entry Caps, 1x Tamper Extension Pillar, 1x M5 Stainless Steel Allen Bolt, 1x Allen Key

## INSTALLATION GUIDE

### 1. CUSTOMISATION

The VISION may be mounted in a number of ways. For this reason, the red and green. LED's may be mounted in any of the three lenses or they may even be mounted separately in any two of the lenses. Once you have decided the LED mounting positions, detach the light bars and fit in mounting holes in the lens. Now fit the LED's into the hole in the bottom of the light bars. Keep wires tidy and free from chaffing. Remove the Allen Key from the backplate and keep safe.

2. Remove the Hook-up terminal protector from the transit position and keep safe. Drill all holes necessary to mount the VISION securely. Offer the Vision to the mounting surface, confirm the rear tamper mechanism is being pressed as the backplate is pushed to the wall. If not, a plastic pillar is provided to extend the rear tamper lug to the wall surface. This can be cut as necessary (found near the front back Tamper switch) Fix the Vision using suitable plugs and screws to provide a secure installation.

### 3. SELECTABLE FEATURES

Now look at the Hook-up terminal blocks, and nearby you will see the SAB/SCB selector, battery enable/disable and the feature selector bank. Decide and select the appropriate features required for the installation. (See Selectable Features for full explanation)

4. Select Timer to "T" then select Battery to "On". Sounder will now sound for 15 seconds then stop, verifying the Timer is operational. This also allows work to be carried out without the sounder being re-activated. Now the sounder has stopped, flick the Timer switch to "A"  
(When the switch is in the "T" position and sounder activated, the sounder will stop in 15 seconds.)

5. Make connections to the Hook- UP terminals as per the Control Panel Specifications but do not connect to Control Panel yet.

6. Make connection to the Control Panel as per manufacturer's specifications. You will notice the green LED is now illuminated and the yellow battery charge LED should be glowing.

# SELECTABLE FEATURES

## Timer Select

- A** Provides standard 15 minute cut-off timer.
- T** Provides a 15 seconds sounder and timer test.

## LED Select

- ALT** LED's alternate from green to red.
- CONST** Red and Green LED's illuminate constantly
- ON** Enables Red and Green LED illumination
- OFF** Disables Red and Green LED illumination

## Trigger Select

- STD** Sounder is activated by applying a negative signal to TRG - (*Standard method in UK*).
- MONITOR** Connecting the supplied 1K resistor in the Control Panel between Bell (-) negative and bell (+) positive will monitor the sounder trigger wire, in effect the sounder is activated by positive removed, and can detect the removal or possible corrosion of the sounder trigger wire. This method is suitable for any negative applied Control Panels.

## Siren Type

- SWEEP** Sounder produces a piercing rise and fall "wah-wah" sound
- HI/LOW** Sounder produces a distinctive alternating "mee-mah" sound

## Strobe Speed

- FAST** The 3 Strobes will flash approximately 42 complete R.P.M with a brighter flash giving a total of 125 flashes per minute.
- SLOW** The 3 Strobes will flash approximately 36 complete R.P.M giving a total of 109 flashes per minute.

## Mode

- SAB** When the sounder is triggered, current will be drawn directly from the Control Panel, unless "HOLD OFF" is removed, where current is supplied by the on-board battery. Normally selected for primary sounders.
- SCB** Operates exactly as SAB when "HOLD OFF" is removed but when the sounder is triggered the sounder current is supplied by the on-board battery, not from the Control Panel, Ideal for systems with more than one sounder. Normally selected for secondary sounders.

## Battery

- OFF** Isolate the on-board battery from electronic circuitry
- ON** Connects the on-board battery enabling the SAB/SCB circuit, and provides trickle charge battery current. A useful feature of the two "ON" pins is the ability to measure the battery current by placing a milliamp metre across the two pins (see specifications).

# FINAL COMMISSIONING

Fit Hook-up terminal protector and tighten screw. Bend micro-switch lever gently so it will make contact with the cover and be actuated when the cover is in place. (Place cover on and ensure that the micro-switch clicks.) 2 caps are provided to fill the gap in the lens. Where the Allen screw is tightened, remove one and keep safe. Fit cover and tighten Allen screw with the supplied Allen key. When the red LED illuminates this confirms the screw tamper is now closed. Back off the screw until the LED goes out and the siren starts. Again, tighten the Allen screw. The sounder will now silence. Fit Allen bolt entry cap.

## LED INDICATORS

<b>RED</b>	Illuminates only when the tamper switches are closed
<b>GREEN</b>	Illuminates only when hold off is applied correctly
<b>YELLOW</b>	Mounted on the PCB, will illuminate when battery link is fitted to ON and battery is connected. The brighter the LED glows, the more current the battery is drawing

## WIRING CONNECTIONS

- HOLD OFF** + This requires a constant unswitched 12V and OV supplied by the Control Panel. Correct connection holds off the SAB/SCB function and also provides the trickle charge for the on-board battery
- 
- STB** + This provides the input to power the sequencing strobe circuit, when the Control Panel requires a visual warning. If the Control Panel has only a (-) Negative Strobe then link (+)
- Positive hold off to (+) Positive Strobe.
- TRG** - This terminal provides the input for the switched negative signal from the Control Panel required to activate the sounder when an audible warning is necessary.
- RTN** - Abbreviation of return. It forms part of the tamper circuit. When the micro switches are closed the terminal is held at OV. Should the switches be opened OV will be removed, alerting the Control Panel of attempted tampering.
- SPARE** Certain Control Panels require an End – Of- Line resistor (EOL) in series with the Tamper Return Circuit. Connected within the Vision this provides added tamper protection. For this purpose the spare terminal is provided. Simply connect one end of the End-Of –Line resistor as specified by the control panel to RTN-and connect the other end of the End-Of-Line resistor along with the tamper return wire into the spare terminal. If the Control Panel does not require End-Of-Line resistors, connect directly into RTN-.

## Engineer Sounder Hold off Facility

This feature allows an engineer to work on the Sounder with as little noise as possible. To limit the alarm ring time to a maximum of 15 seconds, simply move the white jumper timer link to the “T” test position. In this position whenever the sounder is requested to ring, it will do so for a maximum of 15 seconds. During installation, this can be very useful.

With this feature it is possible to completely install a Sounder without actually completing the wiring to the control panel, ideal for a first fix installation. Simply fit the timer link to “T” test position and turn the battery on by moving the battery link to “ON”. The sounder will be activated for 15 seconds then stop. Move the timer link back to the ‘A’ position and leave the battery on, fit the Sounder making a note of the wire colours used. The completion of the control panel wiring to the Sounder may now be at the installer’s discretion. Should the control panel not be wired for a number of days, the on-board battery may –flatten and will take 24 hours to recharge. This is quite normal.

# Ventcroft Intruder Alarm Cable

For all your sounder and detector connections we recommend our Ventcroft UK manufactured range of intruder alarm cable, suitable for every alarm system installation purpose. All provided on Ventcroft's Installer friendly weather and water resistant plastic reels.

Available in White, Brown and Black (special order) sheaths. Manufactured fully from tinned, stranded copper conductors and available in two levels – Ventcroft Premium for medium to large commercial systems and Union Standard for domestic and light commercial installations.

All sheath and core installation material is high quality Lead Free material.

Ventcroft intruder cable is also available in Low Smoke & Fume materials for life safety protection and fully Screened for additional signal protection.

Ventcroft advise against the use of intruder cables manufactured using copper coated aluminium and steel conductors or any cable with **more than 120 Ohms** resistance value per kilometre.

## Ventcroft Premium Cable – 7 strands 0.19 nom Copper

Product Code	Description
VSC-4W	4 Core White
VSC-6W	6 Core White
VSC-8W	8 Core White
VSC-12W	12 Core White
VSC-4BR	4 Core Brown
VSC-6BR	6 Core Brown
VSC-8BR	8 Core Brown
VSC-12BR	12 Core Brown

## Premium Low Smoke & Fume

VSC-4WLSF	4 Core White Low Smoke & Fume
VSC-6WLSF	6 Core White Low Smoke & Fume
VSC-8WLSF	8 Core White Low Smoke & Fume
VSC-12WLSF	12 Core White Low Smoke & Fume

## Premium Screened

VSC-S4W	4 Core White Screened
VSC-S6W	6 Core White Screened
VSC-S8W	8 Core White Screened
VSC-S12W	12 Core White Screened

## Union Brand Standard Cable – 7 strands 0.17 nom Copper

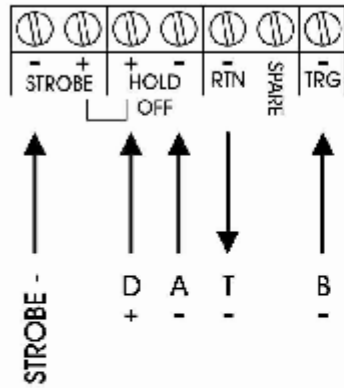
Product Code	Description
VUC-4W	4 Core White
VUC-6W	6 Core White
VUC-8W	8 Core White
VUC-4BR	4 Core Brown
VUC-6BR	6 Core Brown
VUC-8BR	8 Core Brown

**Available as standard on 100m and 500m reels, larger lengths subject to MOQ and Lead Times.**

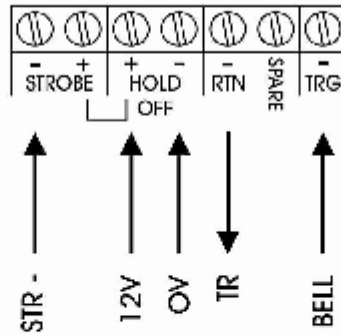
# Reference Diagrams for VISION

PLEASE NOTE:  
ALL INFORMATION IS GIVEN IN GOOD FAITH BUT WITHOUT WARRANTY

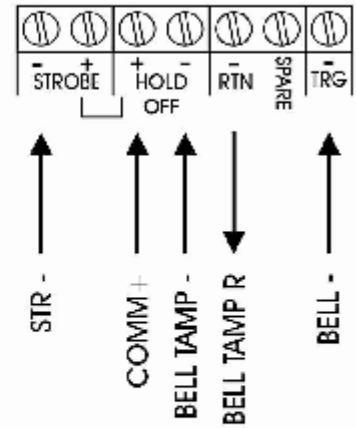
## CONNECTIONS FOR ADE, OPTIMA/CONCEPT/ACCENTA PANELS



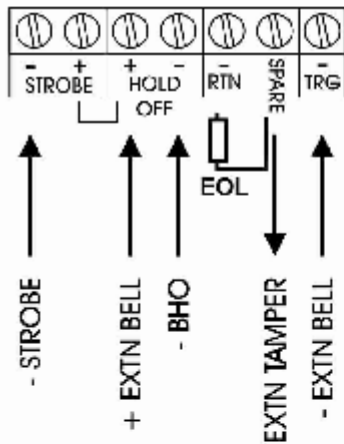
## CONNECTIONS FOR SCANTRONIC PANELS



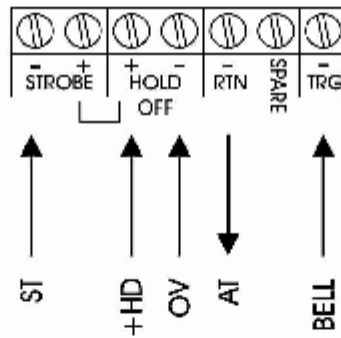
## CONNECTIONS FOR ADEMCO INFRA 6/16 PANELS



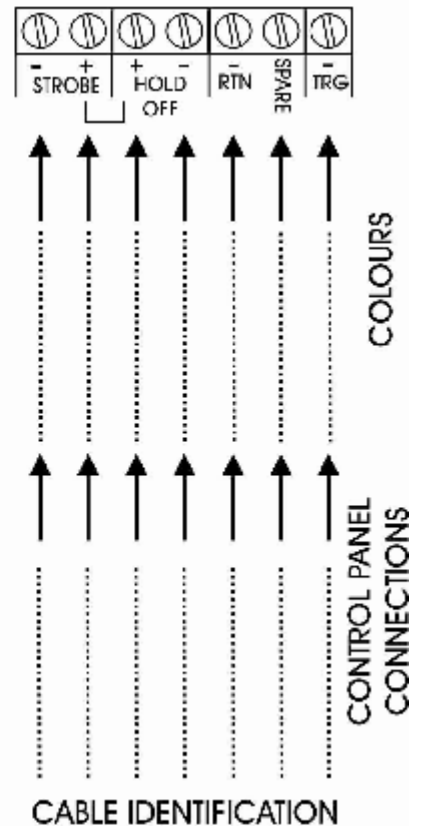
## CONNECTIONS FOR ARITECH CONTROL PANELS



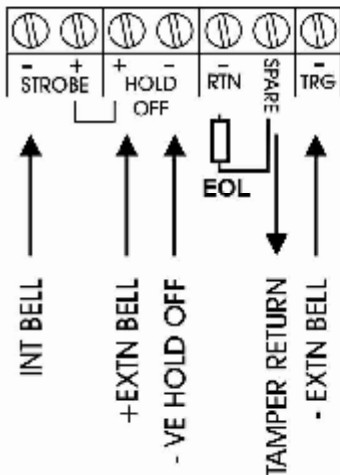
## CONNECTIONS FOR DA PANELS



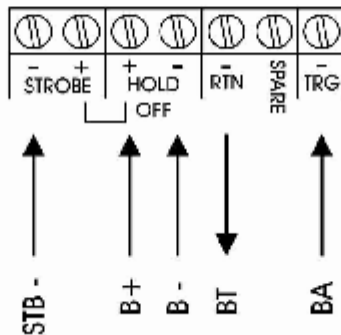
## CONTROL PANEL NAME.....



## CONNECTIONS FOR EUROPLEX VERIFIER 24/64 CONTROL PANELS



## CONNECTIONS FOR PYRONIX PARAGON PLUS

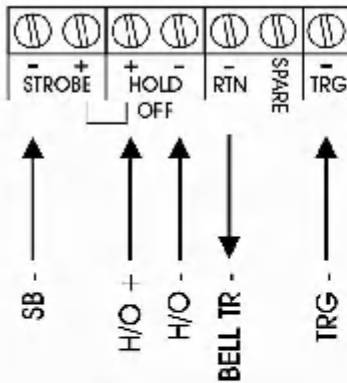


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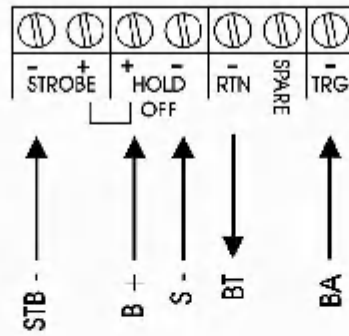
# Reference Diagrams for VISION

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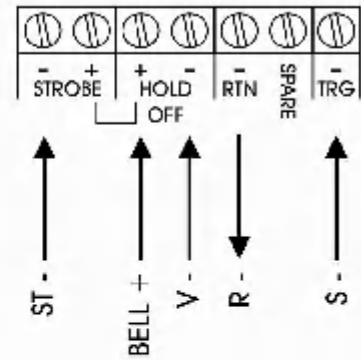
## CONNECTIONS FOR MENVIER TS500 SERIES



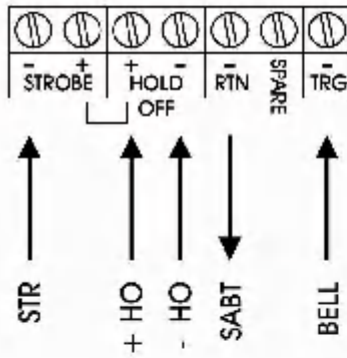
## CONNECTIONS FOR PARAGON E & CONQUEROR



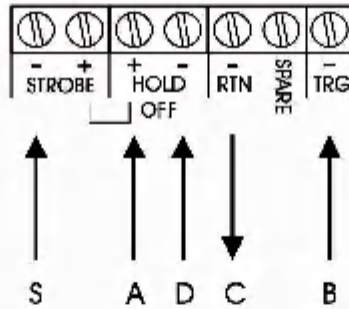
## CONNECTIONS FOR BRAVO 700 PANELS



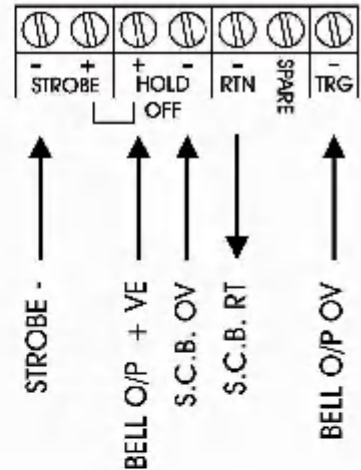
## CONNECTIONS FOR CASTLE CARE-TECH PANELS



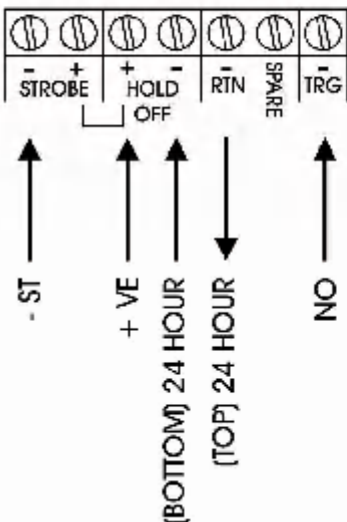
## CONNECTIONS FOR VERITAS & REGAL SAFE PANELS



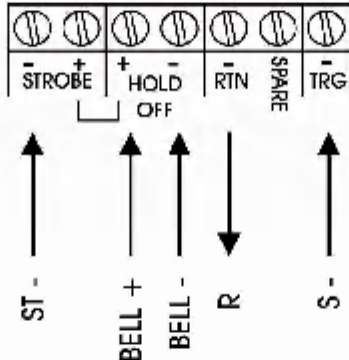
## CONNECTIONS FOR MICROMARK & OMNICON PANELS



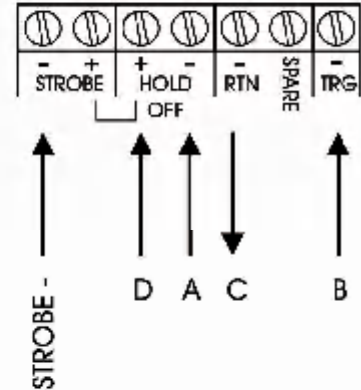
## CONNECTIONS FOR BALMORAL 5/6 PANELS



## CONNECTIONS FOR SECURIT 700L PANELS

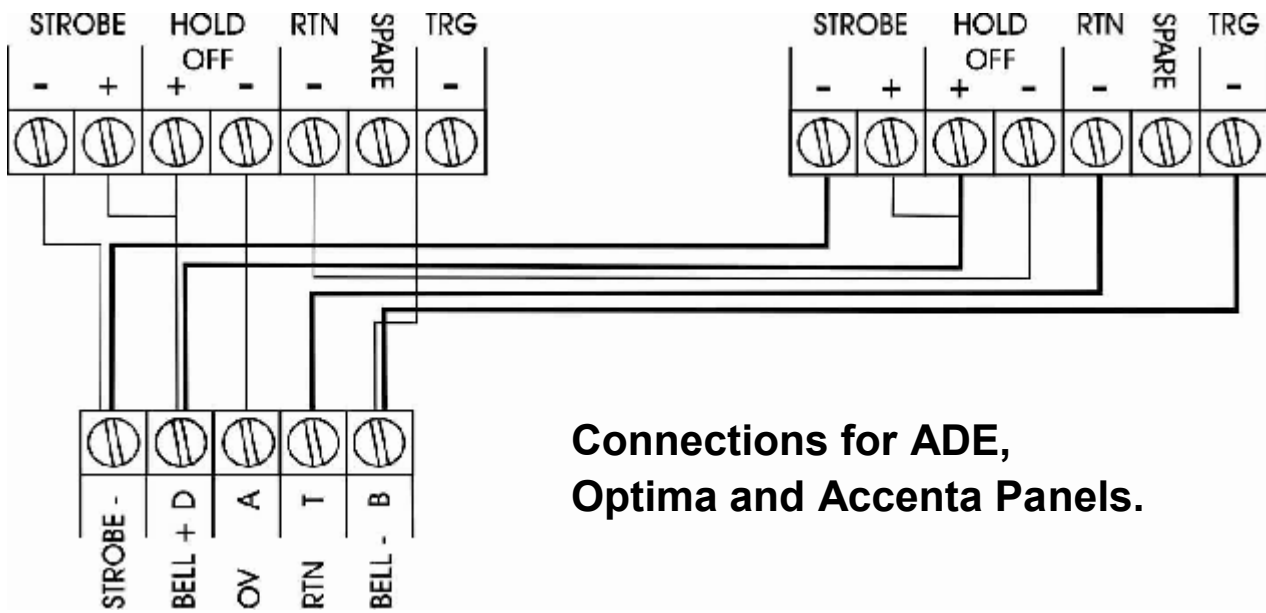


## CONNECTIONS FOR CHALLENGER PANELS



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# Connecting Two Visions is Simple



## SPECIFICATIONS



Strobe Voltage		10V – 13.8V (12V Nominal)
Strobe Current	Faster & Brighter	230 mA
	Standard	140 mA
Strobe Tube		2W Xenon Linear
Hold Off Voltage		10V – 13.8V (12V Nominal)
Hold Off Current	Alternating LED's	64mA (79mA max)
	Constant LED's	81mA (91mA max)
	No LED's	55mA (63mA max)
Sounder Current	2 Piezo 117 dBA@1m	400mA (430mA max)
Battery Voltage		7.2
Battery Charge	Current Trickle	5.5mA (Nominal)
	From Discharged	12mA (Maximum)
Product Coating		(HPA) Mil-1-4605BC
Warranty		2 Years

If you experience any difficulties with this product, please call our Technical Help-Line

**01928 581098**

or e-mail: [tech.help@ventcroft.co.uk](mailto:tech.help@ventcroft.co.uk)

Who will be more than happy to assist you with any Ventcroft product query



The Manufacturer shall have no liability for any death, personal and or bodily injury and or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function. However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, the Manufacturer's maximum liability shall not in any case exceed the purchase price of the Product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer.