

# SWAN CAM

## QUAD ELEMENT PIR & MONO/COLOUR CAMERA MOTION DETECTOR With PET IMMUNITY

### PRODUCT FEATURES

#### Video sensing device

- High sensitivity and high-resolution board camera.
- Electronic shutter control.

#### Audio sensing device

- Omnidirectional response.
- High sensitivity.
- AGC

- Quad (four element) PYRO sensor and hard lens for outstanding detection performance and elimination of false alarms.
- ASIC based electronics with movement speed spectrum analysis.
- User-friendly installation with swivel bracket.
- BI directional temperature compensation.
- Environmental immunity.
- Pet immunity up to 25Kg. Pet active bellow 1m.
- Height installation calibrations free from 1.8m to 2.4m.
- Wide range operating voltage.
- High reliability and trouble free operation.

### SELECT MOUNTING LOCATION

Choose a location most likely to intercept an intruder. (Our recommendation is a corner installation). See detection pattern fig.3. The quad-element high quality sensor detects motion crossing the beam; it is slightly less sensitive detecting motion toward the detector. The SWAN CAM performs best when provided with a constant and stable environment and background. AVOID THE FOLLOWING LOCATIONS

- Facing direct sunlight.
- Facing areas that may change temperature rapidly.
- Areas where there are air ducts or substantial airflows.

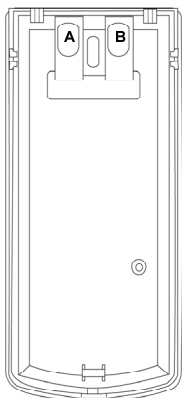
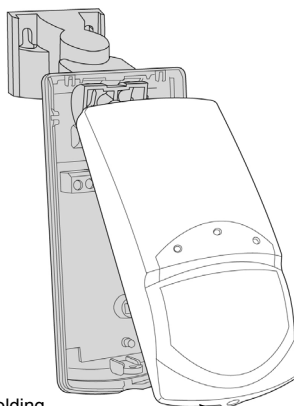


Fig.1

### DETECTOR INSTALLATION

The detector can either be wall, corner or ceiling mounted by using special bracket base for the bracket mounting. Refer to bracket description. (See fig. 6).

1. To remove the front cover, unscrew the holding screw and gently raise the front cover. (See fig.2).
2. Insert wire through the bracket and holes "A" and "B". (See fig.1)
3. Mount the bracket base to the wall or to the ceiling with the suitable adaptor. Hold the detector base in front of the protected area and tighten the bracket screw.
4. Insert the wires through the bracket and connect the wires to the terminal block.
5. Replace the cover by inserting it back in the appropriate closing pins and screw in the holding screw.



Unscrew the holding screw and open base

Fig.2

### DETECTOR CONNECTION

-12V+	TAMP	NC	C	NO	AUD	GND	VID
1	2	3	4	5	6	7	8
9	10						

#### Terminal 1 - Marked " - " (GND)

Connect to the negative supply voltage output or ground

#### Terminal 2 - Marked " + " (+12V)

Connect to a positive supply voltage output of 9.6 - 16Vdc source (usually from the alarm control unit)

#### Terminals 3 & 4 - Marked " TAMP "

If a Tamper function is required connect these terminals to a 24-hour normally closed protective zone in the control unit. If the front cover of the detector is opened, an immediate alarm signal will be sent to the control unit.

#### Terminals 5,6 & 7 - Marked " N.C, C & N.O "

These are the output relay contacts of the detector. Connect to a normally closed or normally opened zone in the control panel.

#### Terminals 8 & 9 - Marked " AUD " & " GND "

This is the audio signal output. These two terminals should be connected to an audio input.

#### Terminals 9 & 10 - Marked " GND " & " VID "

This is the video signal output. These two terminals should be connected to video input.

### TESTING THE DETECTOR

Wait one minute after applying 12Vdc power - warm up time. Conduct testing with the protected area cleared of all people.

#### Walk test

1. Remove front cover.
2. Set LED to ON position.
3. Reassemble the front cover.
4. Start walking slowly across the detection zone.
5. Observe that the LED lights whenever motion is detected.
6. Allow 5 sec. between each test for the detector to stabilize.
7. After the walk test is completed, you can set the LED to OFF position.

#### NOTE:

Walk tests should be conducted, at least once a year, to confirm proper operation and coverage of the detector.

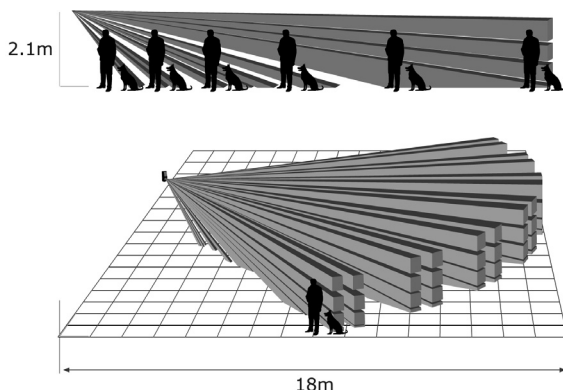


Fig.3

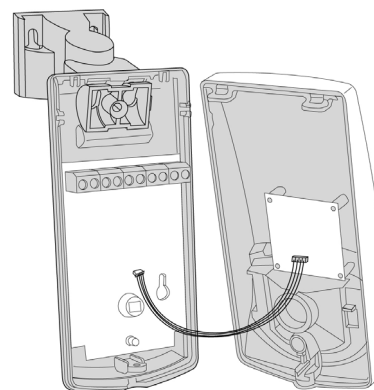


Fig.4

# SWAN CAM

## QUAD ELEMENT PIR & MONO/COLOUR CAMERA MOTION DETECTOR With PET IMMUNITY

### SETTING UP THE DETECTOR

#### PET IMMUNITY SETTING

**Switch 1** of dipswitch DIP5, use for setting the PET Immune function - Up to 15Kg or 25Kg, depending on the pet size.  
 Position Up - ON - Immune to pet weighting up to 15 kg  
 Position Down - OFF - Immune to a pet weighting up to 25 kg

#### PIR PULSE COUNT ADJUSTMENT

**Switch 2** of dipswitch DIP5, use for setting the PULSE count function in order to provide PIR sensitivity control according to the environment.  
 Position Up - ON - High sensitivity  
 For stable environments.  
 Position Down - OFF - Low sensitivity  
 For harsh environments.

#### LED SETTING

**Switch 3** of dipswitch DIP5, use for setting - LED Enable / Disable.  
 Position Up - ON - LED ENABLE, The LED will activate when the detector is in alarm condition.  
 Position Down - OFF - LED DISABLE, The LED is disabled.

**Note:** The LED Switch does not affect the operation of the relay.  
 When an intrusion is detected, the LED will activate and the alarm relay will switch into alarm condition for 2 sec.

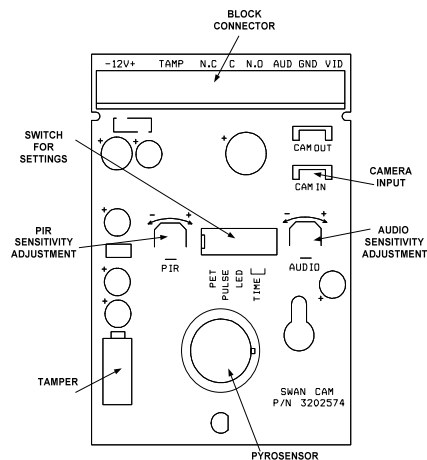


Fig.5

### N.O RELAY - TIME DELAY SETTING

**Switches 4 & 5** of dipswitch DIP-5 use for setting the time delay of the N.O. Relay terminals 6 & 7. There are four options.

Switch 4	Switch 5	N.O. RELAY TIME DELAY
ON	ON	2 Sec. Contact closed
ON	OFF	15 Sec. Contact closed
OFF	ON	60 Sec. Contact closed
OFF	OFF	240 Sec. Contact closed

The N.C. Relay (Terminals 5 & 6) opens for 1.8 – 2 sec. when an alarm occurs.

### PIR SENSITIVITY ADJUSTMENT

Use the Potentiometer marked "PIR" to adjust the detection sensitivity between 15% and 100% according to walk test in the protected area. (Factory setting to 57%).  
 Rotate the potentiometer clockwise to increase range, counter-clockwise to decrease range.

### AUDIO SENSITIVITY ADJUSTMENT

Use the potentiometer "AUDIO" to adjust the audio sensitivity.  
 Rotate the potentiometer clockwise to increase sensitivity.  
 Rotate the potentiometer counter-clockwise to decrease sensitivity.

### BRACKET INSTALLATION OPTIONS

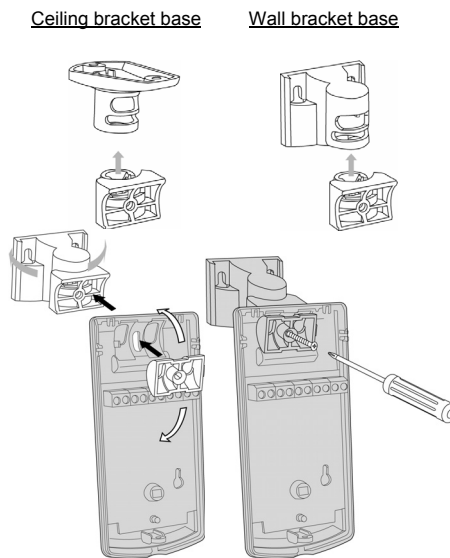


Fig.6

### TECHNICAL SPECIFICATION

Camera Type	B&W: CCIR or EIA COLOR: PAL or NTSC
Effective Pixels	976(H) x 582(V)
Picture Elements	290K (PAL); CCIR) 250K (NTSC;EIA)
Resolution	700 TV lines (PAL; NTSC)
Field of view	D:87° H:65° V:46°
Sensitivity	0.05Lux - F2.0 (NTSC; PAL)
S/N Ratio	Better than 52 dB
Electronic Shutter Time	1/60 – 1/100,000 sec (NTSC; EIA) 1/50 – 1/100,000 sec (PAL; CCIR)
Video Output	1V p-p 75Ω
Audio Output Level	1Vp-p /600 Ohm
Audio Frequency	20Hz- 20KHz.
Detection Method	Quad (four) element PIR
Voltage Input	9.6 to 16 Vdc
Current Draw	Mono: 80 mA Colour: 80 mA
Temperature Compensation	YES
Alarm Period	2 +/- 1 sec
Alarm Output	N.C 28Vdc 0.1 A with 10Ohm series protection resistors
Tamper Switch	N.C 28Vdc 0.1A with 10 Ohm series protection resistor - open when cover is removed
Warm Up Period	1 min
LED Indicator	Red LED is ON during alarm
Dimensions	123mm x 61mm x 38mm
Weight	135_gr.



N345



### 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 authorized distributor. 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 from 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 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 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 no case shall Crow be liable to anyone for any consequential or incidental damages (inclusive of 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.  
 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 Crow.

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### ARROWHEAD ALARM PRODUCTS

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These instructions supersede all previous issues in circulation prior to March 2014.