

## 9. Specification

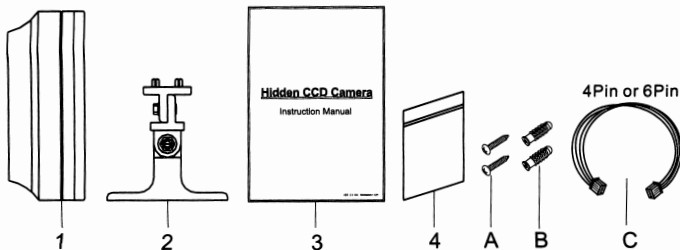
According to the camera purchased, select and refer to the appropriate specification below:

Color Camera		
Model name	PIR-420C	PIR-520C
Image Device	1/3" SONY Super HAD	1/3" SONY Hi-Res. Super HAD
Picture Elements	NTSC: 510x492 PAL: 500x582	NTSC: 768x494 PAL: 752x582
Resolution	420 TVL	550TVL
Min. Illumination	0.2Lux/ 2.0	0.3Lux/ F2.0
S/N Ratio	More than 48 dB	
Electronic Shutter	EIA:1/60~1/100,000, CCIR:1/50~1/110,000	
Gamma	0.45	
Lens Furnished	Corn Lens f 3.7mm / F2.0	
White Balance	Auto	
Gain Control	Auto	
Sync System	Internal	
Video Output	1 Vp-p/ 75 Ohms	
Power Supply	DC 12V ±10%	
Power Consumption	150mA max.	
Operating Temp.	-10 to 50°C	
Model Series		
PIR N.C/N.O Relay Output	3A/120 VAC , 3A/24 VDC	
PIR N.C/N.O Relay Alarm Time	2 to 40 sec. (adjustable)	
PIR Detection Angle	Hor.=100° / Ver.=45°	
PIR Max. Detection Range	Up to 15M.	

### 3. Feature

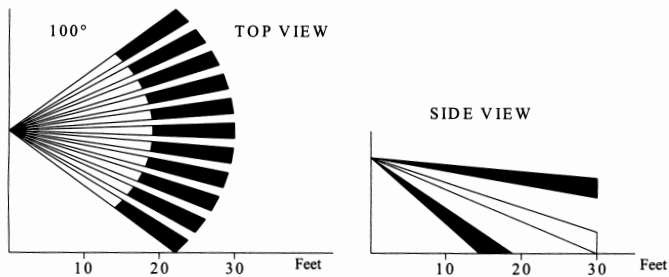
- ◆ Sony Super HAD CCD sensor.
- ◆ Employs Digital Signal Processor (DSP) chip-set for image control.
- ◆ Pixel number: NTSC=380K/ PAL=440K (EIA=440K/ CCIR=380K) for high resolution models, and NTSC=250K/ PAL=290K (EIA=290K/ CCIR=250K) for normal resolution models.
- ◆ High sensitivity, low smear, high anti-blooming and high S/N ratio.
- ◆ Powerful functions: Auto Electronic Shutter (AES), Auto Iris (AI), Auto Gain Control (AGC), Auto White Balance (AWB), and Back Light Compensation (BLC).

### 4. Contents

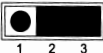
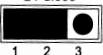
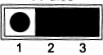

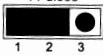



Item	Name of Part	Quantity
1	Camera	1
2	Bracket	1
3	Instruction Manual	1
4	Appurtenance Bag	1
A	Screws	2
B	Anchor	2
C	4Pin or 6Pin Cable (optional)	1

## 8. DETECTION PATTERNS

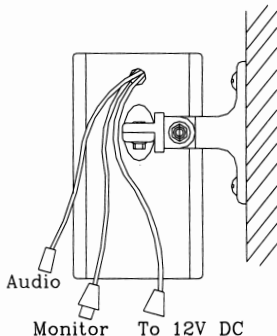


- Wide angle lens up to 100°, coverage areas to 30x30 feet.
- Provide 64 beams in 3 layers.

Options	Description						
<p>1. Pulse Control: 1 or 2</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="text-align: center;"> <p>1 Pulse</p>  </div> <div style="margin-left: 10px;">J2</div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: center;"> <p>2 Pulses</p>  </div> <div style="margin-left: 10px;">J2</div> </div> <p>(3Pin: Left, Center, Right)</p>	<p>To setup the pulse count, please refer to the appropriate dip-switch configuration table shown below:</p> <p><u>Position 1:</u> For instant reaction when PIR detects someone.  <u>Position 2:</u> For 2 times detection within 15 sec.</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Switch</th><th>Position 1</th><th>Position 2</th></tr> <tr> <td>J2</td><td>1 Pulse</td><td>2 Pulse</td></tr> </table> <p>❖ The higher the pulse count the more movement will be necessary before the PIR detector will trigger the alarm.</p>	Switch	Position 1	Position 2	J2	1 Pulse	2 Pulse
Switch	Position 1	Position 2					
J2	1 Pulse	2 Pulse					
<p>2. Setting the LED Indicator:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="text-align: center;"> <p>1 Pulse</p>  </div> <div style="margin-left: 10px;">J1</div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: center;"> <p>2 Pulses</p>  </div> <div style="margin-left: 10px;">J1</div> </div> <p>(3Pin: Left, Center, Right)</p>	<p>To enable/ disable the LED indicator, please refer to the appropriate dip-switch configuration shown below:</p> <p><u>LED ON:</u> Easy to be identified as a security system.  <u>LED OFF:</u> No light blinking while detection, less obvious.</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Switch</th><th>ON</th><th>OFF</th></tr> <tr> <td>J1</td><td>1 Pulse</td><td>2 Pulse</td></tr> </table>	Switch	ON	OFF	J1	1 Pulse	2 Pulse
Switch	ON	OFF					
J1	1 Pulse	2 Pulse					
<p>3. Alarm Control/ Light Control/ Recording Control (N.O or N.C)</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="text-align: center;"> <p>1 Pulses</p>  </div> <div style="margin-left: 10px;">J3</div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: center;"> <p>2 Pulses</p>  </div> <div style="margin-left: 10px;">J3</div> </div> <p>(3Pin: Left, Center, Right)</p>	<p>To setup dwell time of the Alarm Control/ Light Control/ Recording Control, please refer to the appropriate dip-switch configuration table shown below:</p> <p><u>Dwell Time Adjustment:</u>  *Set to "1 Pulse" then turn "SVR1" clockwise to extend dwell time of sensor mechanically and counter clockwise to shorten dwell time of PIR sensor.  *Set to "2 Pulse" to enable default time of the PIR sensor, fixed: 2 sec.</p> <p><u>Sensitivity Adjustment:</u>  *Turn clockwise to detect longer distance and wider pattern.  *Turn counter clockwise for detection in narrow areas.</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Switch</th><th>SVR1</th><th>Default</th></tr> <tr> <td>J3</td><td>1 Pulse</td><td>2 Pulse</td></tr> </table> <p>❖ N.C. / N.O. Relay Output: 3A 120V AC, 3A 24V DC.</p>	Switch	SVR1	Default	J3	1 Pulse	2 Pulse
Switch	SVR1	Default					
J3	1 Pulse	2 Pulse					

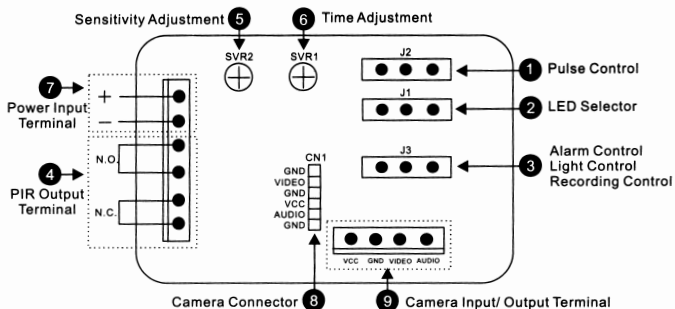
## 6. WIRING

1. Connect the video input connector on the video monitor to the video output connector of the camera with 75-ohm coaxial cable.
2. Insert the AC plug into the AC power socket and the DC plug to the DC Jack.

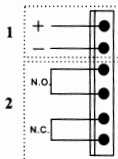


**Note: AC adapter is sold separately.**

## 7. DETECTOR BOARD



#### 4. PIR Output Terminals:



24 Hour/Anti-Tamper

1. Power Input: 12V DC

2. N.C.: Normal Close

N.O.: Normal Open

❖ Relay Output: 3A 120V AC, 3A 24V DC

#### 5. Sensitivity Adjustment:



Raise Sensitivity: Turn clockwise to detect longer distance and wider pattern.

Lower Sensitivity: Turn counter clockwise for detection in narrow areas.

#### 6. Dwell Time Adjustment:



Adjustable from 2 to 40 sec.

The Dwell Time Adjustment setting controls how long the alarm remains triggered after activation.

Max. Dwell Time: Turn clockwise.

Min. Dwell Time: Turn counter clockwise.

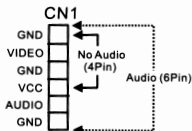
❖ Set to "1 Pulse" from J3, and then turn "SVR1" clockwise to extend dwell time of sensor mechanically, counter clockwise to shorten dwell time of PIR sensor.

#### 7. Power Input: 12V DC

Standby Current: 3mA

Working Current: 17mA

#### 8. Camera Connector:



Camera connection using cables (4Pin / 6Pin) supplied.

4 Pin Cable: Non-audio type connection method

6 Pin Cable: Audio type connection method

Tip: User preference for an alternative connection solution, connect CN1 with Camera Input / Output Terminal.

#### 9. Camera Input/ Output Terminal:

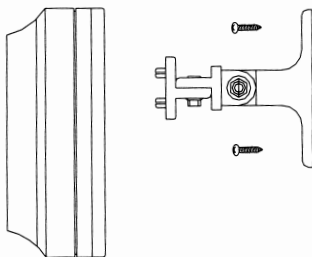


Camera power input, video and audio output connection.

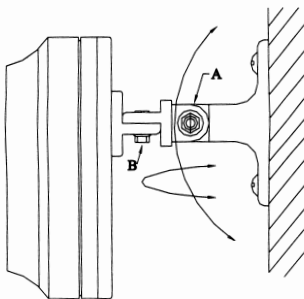
Tip: User preference for an alternative connection solution, connect Camera Input / Output Terminal with CN1.

## 5. Installation

1. Select a location from which the pattern of the detector is most likely to be crossed by a burglar, should there be a break in.
2. Mount the wall bracket using the supplied screws.



3. Attach the camera case to the bracket.



- 3: Adjust the vertical and horizontal angles by loosening screws (A&B) and by turning the bracket vertically and horizontally.