



C128U SOLAR CAMERA KIT

Installation and Operating Manual

Introduction

The Solar Camera is designed to economically provide safety, security, convenience to your home and business. Its solar panel collects daylight and maintains a charge to the battery of the camera during daylight hours. A negligible amount of energy is released by the rechargeable battery to operate the camera during nighttime.

The components included in the C128U Solar Camera Kit:

- 1 x Solar Camera with PIR and Solar Panel(Transmitter)
- 1 x Audio & Video Receiver
- 1 x Power Adapter for Receiver
- 1 x 3 Feet RCA/SCRT Cable
- 1 x 6V 1.2A Rechargeable Battery
- 1 x 9V Alkaline Battery
- 1 x Waterproof Rubber Plug

Caution

Pay attention to the following before you install:

1. **Sufficient daylight:** Solar panel requires constant charge during daylight hours. Please mount the camera at the location that can receive sufficient daylight exposure.



Figure 1

2. **Detecting sensitivity:** A passive infrared sensor

operates by detecting the objective movement and heat. When the temperature of the moving object and its surrounding area are close in value, it may reduce PIR's sensitivity. The motion detector's infrared beams radiate outward like the slat of a wooden fence.

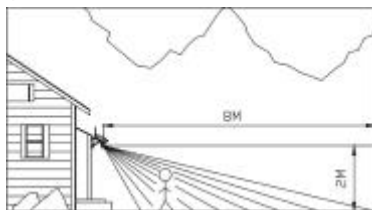


Figure 2

Prior to mounting, keep in mind that the motion sensor is more sensitive to the motion that crosses these "slats", and less sensitive to the motion that moves directly towards the sensor (see Figure 1 and 2.)

3. **Keep a light source during nighttime:** The camera cannot work in total darkness. Please bear in mind the camera's viewing area must be illuminated with a suitable light source during nighttime.

Installation

Step 1: Install the camera (refer to Figure 3):

- a. Use the fixing template provided to mark the position of the four fixing holes. Drill four 5mm-diameter holes.
- b. Mount backplate by inserting two screws into fixing holes on the top edge of backplate. (All electronic components are housed within the backplate.)
- c. Adjust the "DWELL_SW(SW3)" knob on backplate to set up transmission time (lock time) of images and voices. It can be set as 10,20,30 or 40 seconds.
- d. Adjust the "CH_SW" knob on backplate to set up a channel. And remember which channel you selected.
- e. Plug the camera's 12 Pin plug (Cable) into socket on the backplate, then secure the camera set (front cover) to the backplate by inserting screws into two fixing holes on the bottom edge of front cover and backplate. And then insert the waterproof rubber plug into the hole at the bottom of front cover.
- f. The camera and PIR which under the main solar panel cabinet can be swiveled upward to 5°, downward to 45° (refer to Figure 4) and 90° horizontally (refer to Figure 5)
- g. Adjust the camera and PIR angle according to your need.

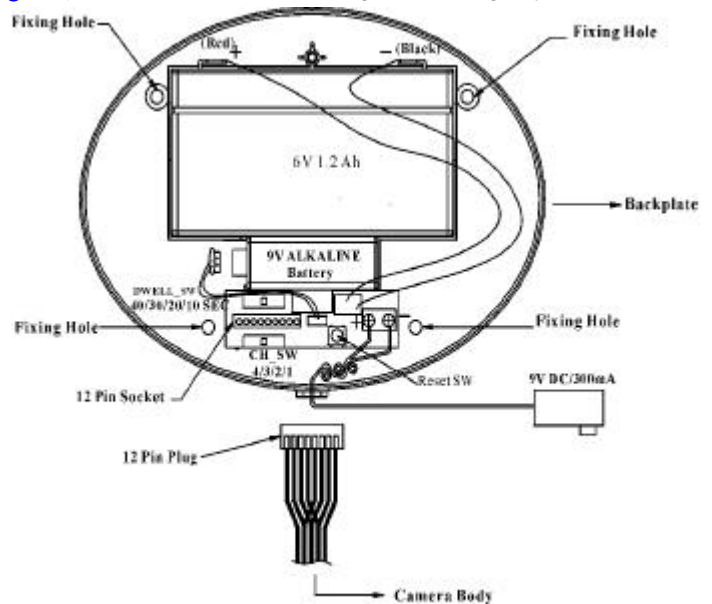


Figure 3

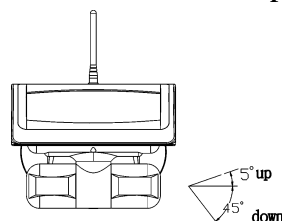


Figure 4

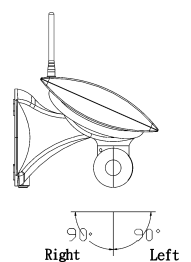


Figure 5

Step 2: Install Receiver Unit

(Two versions available: European and American)

European Version (refer to Figure 6):

To connect receiver to your TV:

1. Plug the 1M Scart connector cable that package included into your TV.
2. Plug the other end, yellow (video), white (audio) and red (trigger) RCA connectors into the corresponding RCA connectors on the receiver.

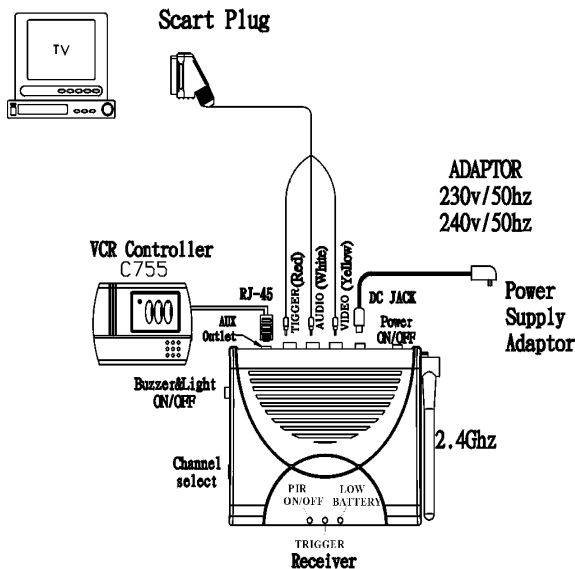


Figure 6 European Version

American Version (refer to Figure 7):

To connect receiver to your TV:

1. Plug the yellow (video) and white (audio) RCA connectors into TV socket.

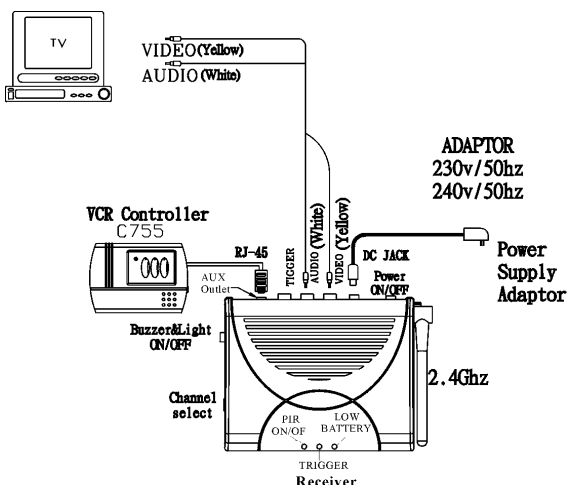


Figure 7 American Version

Step 3: Install option accessory VCR Controller (refer to Figure 6 or Figure 7)

By adding the optional VCR Controller (C755) will enable the system to automatically record anyone who approaches your premises. The VCR Controller will automatically switch your VCR on to Record and Off once the person has left.

Plug RJ45 connector of VCR Controller (C755) in AUX outlet of the receiver, and VCR will record the images and voices when Camera detects movement. (Please refer to C755 manual for installation and operation).

Operating Instruction:

- (1) Buzzer/Light ON/OFF SW: Select "Buzzer/Light SW" at "ON". When PIR camera is triggered, image and voices will be transmitted. Upon receiving the signals, the receiver sounds "Beep" twice in response and the LED will flash for 1 minute.
- (2) Transmission time (lock time) of image and voices can be set as 10, 20, 30, or 40 seconds by carefully adjusting the "DWELL_SW (SW3)" knob of Camera.
- (3) When lock time of trigger is over, the camera will continue transferring image and voices if PIR sensor is still under triggered condition. Otherwise, the camera will send an "OFF" signal to the receiver and shut down images and voices.
- (4) When PIR of the camera is triggered, the camera will send 2.4GHz RF signal to the receiver. Thus, images and voices will be displayed on TV or monitors through the receiver.
- (5) When battery is low:
 - a. In the condition of camera on, Camera sends a signal to the receiver to lighten the "Battery" LED and sound two "beeps" for alert.
 - b. If battery is low during image transmitting, the image will stay on for 5 seconds only. Then there will be two beeps and the "Battery" LED will be on.
- (6) If the camera battery is recharged to normal level, the low Battery LED will be turned off when the camera is triggered again.

You can also additionally have a 9V DC 300mA regulator power AC adaptor and wire it on S3 (refer to Figure 3) of backplate to recharge and to transmit images and voices continuously.

Note:

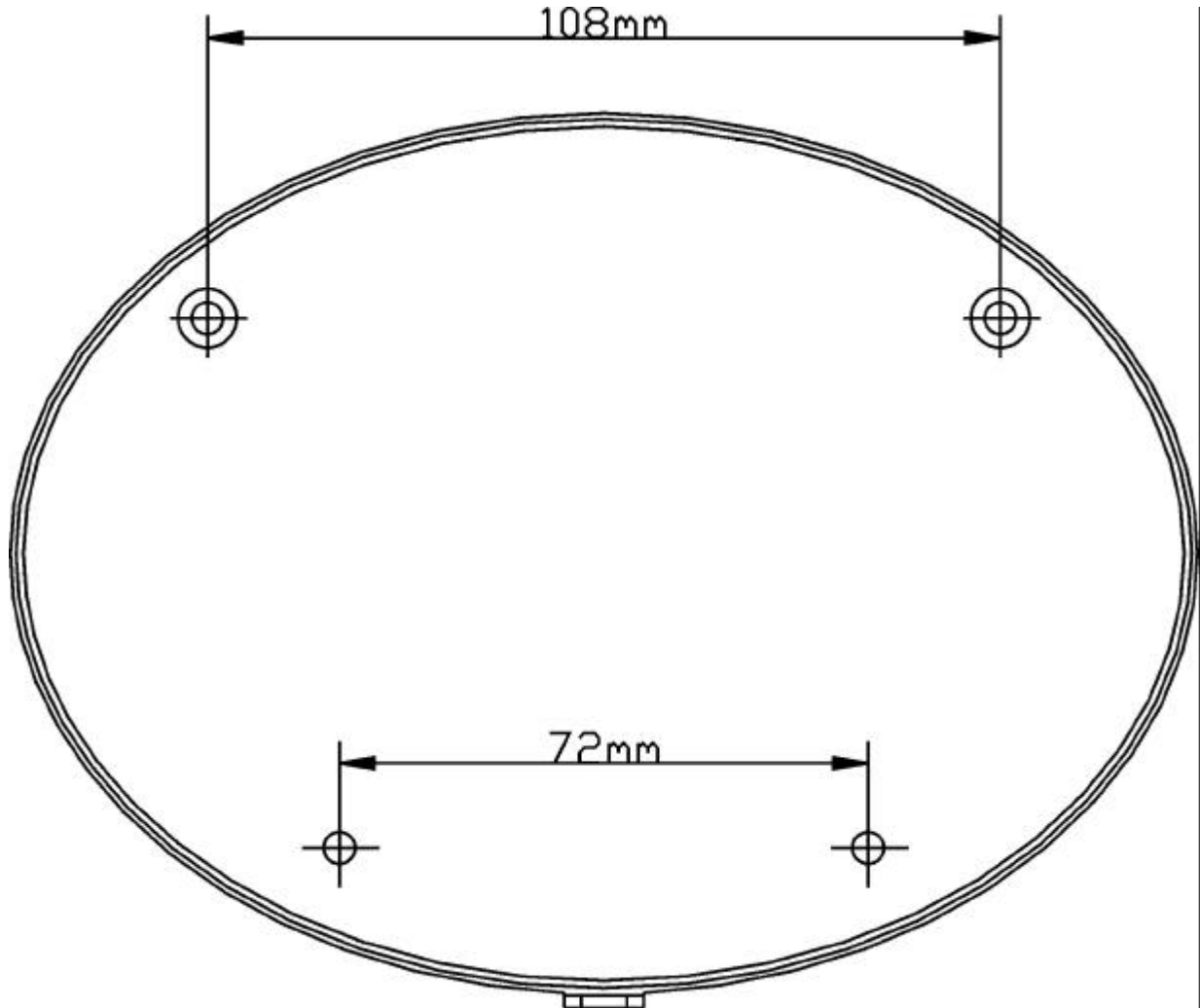
- (1) What you should do when the camera does not work properly:
 - a. Unscrew the camera (two screws on the edge of front cover)
 - b. Press "SW1" on Wall Mount to restore the system
 - c. Turn off the receiver, then turn it on.
 - d. Hang the camera on Wall Mount, and tighten 2 screws on the bottom of the camera.
- (2) When battery is low, video automatically reduces to 5 seconds to save battery.
- (3) Position the receiver and set up channel first while installing, then position the camera and set receiver in the same channel with the camera.
- (4) When the image on TV is not clear, it means that somebody may use the same channel as yours in your neighborhood. You can change both channels on the backplate of camera and the receiver. Remember to set the camera in the same channel as that of the receiver.

SPECIFICATIONS

CC128		CA117	
Camera Type	CC128	Operating Frequency	2400-2483MHz (for 4 channels)
Picture Type	Color CMOS	Transmission Range	75m in open space
TV System	PAL/NTSC	Channel Selection Switch	4 positions for 1~4 selection
Sensitivity	3Lux@F1.2	Buzzer & Light Switch	3 positions for buzzer & light on / buzzer off/off
Lens Angle	78° Diagonal	Power Switch	2 positions for power on/ off
Lens	4.3mm F2.0	Triggered Buzzer & Light function	Build in
Camera Angle	Left & Right 90° ± 5°, Down 45°	Antenna Type	Rod
Microphone	Build in	AC Adapter	12VDC, 500mA AC adapter
Transmitting Frequency	2400~2483MHz (for 4 channels)	Connector	1 x RJ-45 for VCR Controller 1 x DC Jack for Power 3 x RCA Jack for triggered(red), audio(white), video(yellow)
Battery	1 x 9V back up battery, 1x 6V rechargeable solar battery		
Dwell Time Switch	4 positions for 10s/20s/30s/40s		
Power Supply Source	Solar Panel (110*160mm)		
Channel Switch	4 positions for 1~4 selection		
PIR Detect ion Distance/Angle	8M/90° (under 28°C)		

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CB130/CC128 Drill Hole Drawing