



Security Camera

Indoor/Outdoor CCD Security Camera w/ Night Vision



INSTRUCTION MANUAL v1.0

IMPORTANT! PLEASE READ!



NEED HELP?

**DO NOT RETURN THIS
PRODUCT TO THE STORE**

Please contact a DEFENDER customer support representative first regarding any additional information on product features, specifications or help with set-up.

Please contact us via one of the methods below:



Email:

support@defender-usa.com

Online live web chat:

Visit www.defender-usa.com



Toll free telephone:

1.866.946.7828



Toll free fax:

1.888.771.1701

For more product information visit **www.defender-usa.com**

Note: You may find updated versions of this manual by visiting our website

WARRANTY INFORMATION

PRODUCT WARRANTY INFORMATION

Please visit our website at www.defender-usa.com for information about your product's warranty.

We take quality very seriously. That is why all of our products come with a one year warranty from the original purchase date against defects in workmanship and materials. If you have warranty or support issues please contact us using any of the following methods:

Phone: 1.866.946.7828

Fax: 1.888.771.1701

Email: support@defender-usa.com

Website: www.defender-usa.com

DEFENDER USA

60 Industrial Parkway #Z64

Cheektowaga, NY

USA 14227

DEFENDER CANADA

4080 Montrose Road

Niagara Falls, ON

Canada L2H 1J9

Warranty Terms

1. Defender products are guaranteed for a period of one year from the date of purchase against defects in workmanship and materials. This warranty is limited to the repair, replacement or refund of the purchase price at Defender's option.
2. This warranty becomes void if the product shows evidence of having been misused, mishandled or tampered with contrary to the applicable instruction manual.
3. Routine cleaning, normal cosmetic and mechanical wear and tear are not covered under the terms of this warranty.
4. The warranty expressly provided for herein is the sole warranty provided in connection with the product itself and no other warranty, expressed or implied is provided. Defender assumes no responsibilities for any other claims not specifically mentioned in this warranty.
5. This warranty does not cover shipping costs, insurance, or any other incidental charges.
6. You **MUST** call Defender before sending any product back for repair. You will be sent a Return Authorization number with return instructions. When returning the product for warranty service, please pack it carefully in the original box with all supplied accessories, and enclose your original receipt or copy, and a brief explanation of the problem (include RA #).
7. This warranty is valid only in Canada and the continental U.S.
8. This warranty cannot be re-issued.



CAUTION

RISK OF ELECTRIC SHOCK



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (BACK).
NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

TABLE OF CONTENTS

WHAT IS INCLUDED	1
FEATURES	1
CAMERA INSTALLATION	2
MOUNTING THE CAMERA	2
CONNECTING THE CAMERA	2
TROUBLE SHOOTING.....	3
SPECIFICATIONS	4
NOTES.....	5
DRILLING TEMPLATE	6

WHAT IS INCLUDED



1 Indoor/Outdoor
Night Vision CCD Color
Camera



2 Window
Security Stickers



4 PIN DIN to RCA (male)
Video/Power Wire

- BNC to RCA Connector
- 1 Power Adapter for Camera
- Mounting Hardware
- Instruction Manual
- 1 Year Warranty
- Online/Toll Free Support

FEATURES



SP301-C Camera

- 1. Sun Shield:** Helps prevent glare from bright lights
- 2. Infrared (IR):** LEDs Allows the camera to see in the dark up to 15ft away.
- 3. CDS Sensor:** Automatically turns on the infrared LEDs when it gets dark
- 4. Camera Housing**
- 5. Camera Mount**
- 6. 4 PIN DIN Female Connection**

IMPORTANT INFORMATION

While this camera is weatherproof, it is not waterproof. Please do not install it in areas that receive direct rain or under eaves trough draining spots. Do not cut the DC power cable of this camera to fit with another power source. Do not cut the video connection wire to fit with a different video connection type. Any unauthorized modifications will void your warranty.

INSTALLATION

- The camera should be installed between 8 and 13ft above the area to be monitored
- Ensure there are no obstructions in the camera's view, to maximize viewing area
- Ensure that the sunshade is positioned to avoid glare and position camera away from direct sunlight
- Decide whether the camera will be wall-mounted or sit on a desk/table top. If wall mounting, use the mounting hardware in the package. We recommend that the mounting bracket is secured using the included screws for all installations
- This camera comes with 60ft of video/power wire. Please make sure that you mount the cameras no more than 60ft from the TV/monitor/VCR/DVR
- We recommend using a surge protected power bar to protect the cameras internal circuitry

MOUNTING THE CAMERA

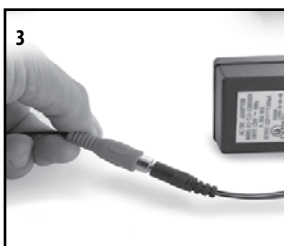
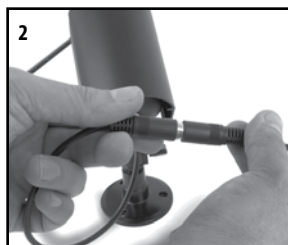
1. Screw the mounting bracket into the camera's mounting hole, turning it clockwise.
2. Mount the camera in the desired location no more than 60 feet from the TV/Monitor/VCR DVR unless you have purchased additional wiring. You may wall mount or desk mount these cameras.
3. Adjust cameras to the desired viewing angles.



CONNECTING THE CAMERA

Follow these instructions for the installation of each camera. The 60ft video/power wire has two connections: one for video out, and one for power.

1. Plug the 4 PIN DIN female connection on the camera into the 4 PIN DIN male connection on the 60ft video/power wire.
2. Match the two arrows on top of both connecting cables.
3. Plug the camera's power supply into the power jack located on the 60ft video/power wire.
4. Plug the camera's power adapter into an AC outlet or surge protected power bar.



INSTALLATION

5. Connect the 60ft video/power wire's male RCA plug to the VIDEO IN port of your TV/monitor/VCR/DVR.
6. If your VIDEO IN port is a BNC connection (common with DVR units), you will need to attach the BNC to RCA adapter before connecting the camera.



TROUBLESHOOTING

No picture/signal:	• Make sure your TV/monitor is on the correct video input channel. This is NOT channel 3 Common terms for this channel is INPUT, AV CHANNEL, LINE 1, LINE 2 and AUX. Please use your TV or VCR manual to correctly identify this channel • If your camera is connected to a VCR/DVR, make sure that it is properly connected to your TV/monitor • Check all connections to make sure they are secure and properly connected • Check your power supply to ensure that the camera is powered up
Picture is too bright:	• Make sure your camera is not aimed at direct sunlight • Adjust the sunshade by sliding it forwards to block out excess light • Make sure nothing is obstructing the CDS sensor on the camera. If the CDS sensor is blocked, night vision mode will be active and may produce extra light in your camera's picture • Move your camera to another location
Picture is too dark:	• If using at night, make sure your camera's subject is no more than 15ft away (may vary based on amount of ambient light available) • If using during the day, your camera may not be getting enough light. Adjust the sunshade by sliding it backwards to let in more light • Check the brightness and contrast settings on your TV/monitor • If your camera is connected to a VCR/DVR, check the brightness and contrast settings on the VCR/DVR • Move your camera to another location
Night Vision is not working:	• The night vision turns on automatically when light levels drop. Try the camera in a pitch black setting. The area that it is in may have too much light and may not activate the sensor • Cup your hands around the front of the camera and look at the LEDs. They should be glowing red. If they are not, check the power supply • LEDs need to reflect off of an object within range for the camera to display an image

SPECIFICATIONS

Camera Type	Weatherproof Color IR CCD Camera
Image Sensor	1/4" Color SHARP CCD
Resolution	420 TV Lines
Outdoor Use	Yes
IP Rating	IP65
Focal Length	3.6mm
Focus Type	Fixed
Optimal Focal Distance	20 ft
Motion detection	No
Night Vision	Yes
Number of IR LEDs and Range	12, up to 15ft
IR LED Control	Automatic (CDS Sensor)
Min. Illumination	0 lux
IR Wavelength	850nm
Video Output	4 PIN DIN to RCA
TV System	NTSC
Viewing Angle	60 Degrees
Electronic Shutter	1/60 ~ 1/100000 sec
BLC	No
AGC	Automatic
ELC	Automatic
Line Lock	No
Iris Control	No
Gamma Correction	>0.45
White Balance	Automatic
Sun Shield	Yes
IR Cut Filter	No
Housing Material	Anodized Aluminum

Housing Color	Black
Signal/Noise Ratio	>48dB
Camera Bracket	Yes
Lens Mount type	M12
Pan/Tilt/Zoom	No
Operating Temperature	-10° ~ 60°C / Degrees
Operating Humidity	98%
Camera Power Input	DC 12V 300mA
Power Adapter Input	120V 60Hz
LED Power Indicator	No
Dimensions	4.7"(L) x 2.5"(W) X 2.5"(H)
Weight	0.7 lbs

NOTES

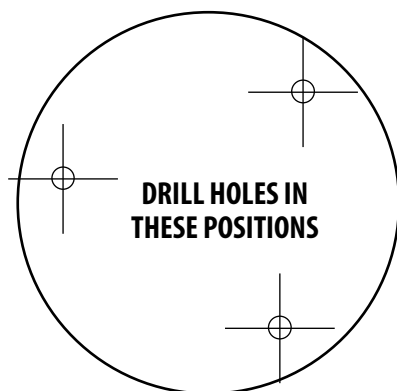
Customer Information Card

Contact Name:	
Company:	
Address:	
Postal Code:	
Phone Number:	
Email:	
Model Number of Product:	
Serial Number of Product:	
Purchase Date:	
Place of Purchase:	

NOTE: We recommend that you keep a record of your purchase receipt with your manual for any future returns or support issues.

DRILLING TEMPLATE

To wall mount the camera, drill three holes using a 3/16" drill bit and the template below. Insert the supplied wall anchors into holes and secure camera to wall with supplied screws.



VISIT US ON THE WEB!

- ▶ Product Information
- ▶ User Manuals
- ▶ Quick Start Guides
- ▶ Specification Sheets
- ▶ Software Updates
- ▶ Firmware Upgrades

www.defender-usa.com

Disclaimer

Defender does not endorse the use of any Defender products for illegal activities. Defender is not responsible or liable in any way shape or form for any damage, vandalism, theft or any other action that may occur while a Defender product is in use by the consumer.