



# Wireless Color Mini Pinhole Security Camera System

COMPLETE SYSTEM



## Instruction Manual



Model #  
**WSE103**  
[www.svat.com](http://www.svat.com)



# PRODUCT WARRANTY & REGISTRATION

Please visit our website at [www.svat.com](http://www.svat.com) to apply for your products warranty registration.

*The warranty registration for is located under the support tab on the SVAT website.*

We take quality very seriously. This 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:

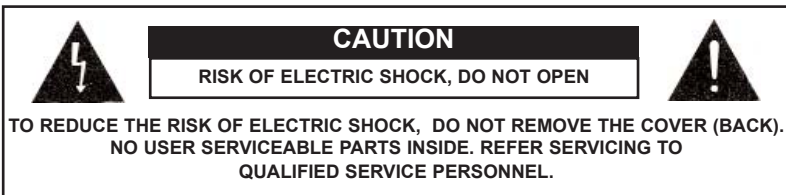
SVAT Electronics USA  
2315 Whirlpool St., Unit 333  
Niagara Falls, New York  
USA 14305

SVAT Electronics Canada  
4080 Montrose Road  
Niagara Falls, ON  
Canada L2H 1J9

Phone: 866.946.7828  
Fax: 888.771.1701  
Email: [support@svat.com](mailto:support@svat.com)  
Website: [www.svat.com](http://www.svat.com)

## Warranty Terms

1. SVAT 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 SVAT's option.
2. When service is required, the warranty is validated by the submission of a fully completed warranty card.
3. This warranty becomes void if the product shows evidence of having been misused, mishandled or tampered with contrary to the applicable instruction manual.
4. Routine cleaning, normal cosmetic and mechanical wear and tear are not covered under the terms of this warranty.
5. 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. SVAT assumes no responsibilities for any other claims not specifically mentioned in this warranty.
6. This warranty does not cover the shipping cost, insurance or any other incidental charges.
7. You MUST call SVAT before sending any product back for repair. You will be given a Return Authorization number. 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 #).
8. This warranty is valid only in Canada and the U.S.A.
9. This warranty card cannot be re-issued.



## Graphic Symbol Explanation:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE**

# TABLE OF CONTENTS

WHAT IS INCLUDED .....	1
WHAT IS COMPATIBLE .....	1
FEATURES .....	2
THINGS TO CONSIDER .....	2
INSTALLING THE CAMERA .....	3
INSTALLING THE RECEIVER .....	3
ADVANCED FEATURES .....	4
OPERATING MODES .....	5
TROUBLESHOOTING .....	6
SPECIFICATIONS .....	7-8
NOTES .....	9

## WHAT IS INCLUDED



- Mounting Hardware
- 1 Year Warranty
- Instruction Manual
- Online/Toll Free Tech Support

## WHAT IS COMPATIBLE

The WSE103 is compatible with TVs, VCRs, DVRs, computers and other SVAT systems including:



Congratulations on your purchase of the WSE103. The WSE103 consists of a wireless receiver and a wireless miniature camera, and is an ideal product for covert monitoring in your home or business.

## **FEATURES**

- 2.4GHz wireless technology
- Discreet monitoring with miniature color camera
- Receiver supports audio output
- Three channel selection for camera
- Expandable - supports up to 3 cameras
- Manual or auto switching between cameras
- Adjustable cycle time between cameras
- Battery operable for portable monitoring

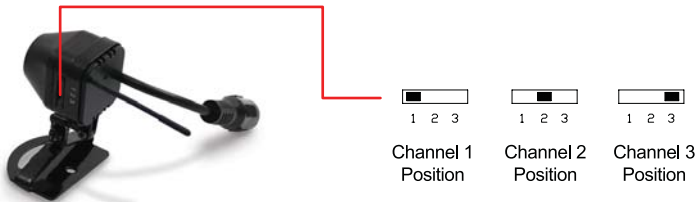
## **THINGS TO CONSIDER BEFORE INSTALLATION**

For best performance, follow these simple guidelines:

- Camera(s) should be installed between 8 and 13 feet above the area to be monitored
- For best transmission, avoid installations where there are thick walls or major obstructions between the camera and receiver
- Ensure there are no obstructions in the camera's view, to maximize viewing area.

## INSTALLING THE CAMERA (TRANSMITTER)

1. Unpack the camera.
2. Decide whether the camera will be wall-mounted or sit on a desk/table top. If wall mounting, use the mounting hardware. The camera can be adjusted for either mounting scenario by rotating the camera to the required position.
3. Decide whether to connect using AC power or 9 volt battery. If using a battery, connect the 9V battery to the battery adapter, then connect it to the power jack of the camera. If using the camera power adapter, just connect the power jack. Make sure the camera is positioned no more than 5 1/2 feet from an AC power outlet.
4. Select the camera operating channel on the slide switch on side of the housing. Move the switches to positions 1,2, or 3.



The camera (Transmitter) installation is now complete.

## INSTALLING THE RECEIVER

### MAIN OPERATION

1. Connect one end of the cable (4 PIN DIN) to the back of the receiver, and the yellow plug (RCA composite) to the VIDEO IN jack of your TV/VCR/DVR. If you are using this system with a camera that supports audio, also plug in the red and white RCA plugs.
2. Plug the receiver's power supply into the power jack located on the back of the unit and plug the power adapter into any power outlet.
3. Place the receiver either on top or near your TV. Rotate the antenna to a vertical position.
4. Set your TV to VIDEO INPUT mode to view your camera.
5. For recording camera footage using your VCR, see advanced features.



## AVOIDING INTERFERENCE

The 2.4 GHz video signals pass easily through your home's interior walls, but the signal may be reflected by power wires or plumbing inside the wall. If reception is poor, moving the camera or receiver may fix this problem. Houses with steel frames may experience interference as well. Microwave ovens, cordless phones and wireless routers are the most common source of interference. Try to avoid mounting the receiver near these or other sources of RF interference.

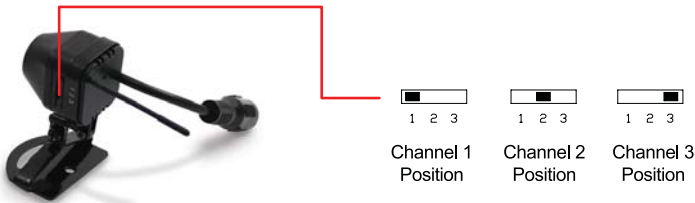
## ADVANCED FEATURES

### Multi-Camera Operation

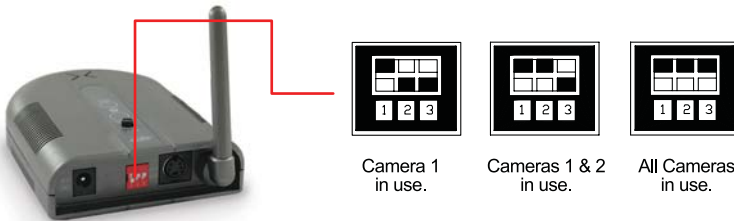
The WSE103 is designed to work with up to 3 cameras. Additional cameras are sold separately (indoor - WSE103C / outdoor - WSE201C).

### \*IMPORTANT

When using more than one camera, make sure you assign each camera a specific channel (1-3). The channel switch is located on the back of the camera.



Accordingly the DIP switch located on the back of the receiver should be adjusted to reflect the channel in use.



## OPERATING MODES

The system can be set to operate in one of 2 modes: AUTO or MANUAL. The desired operating mode can be selected using the buttons on the front panel of the receiver.

### Auto

Pressing the AUTO button places the system into auto mode. In this mode, the system automatically cycles through all active cameras. When a camera detects motion above the preset level, your television will display the picture from that camera for a few seconds, and the beeper will sound. To avoid searching the channels that do not have cameras/transmitters assigned to them, set those corresponding dip switches (located on the back panel of the receiver) to the OFF position.

The dwell/cycle time (time taken to switch between cameras) is preset to four seconds and can be adjusted between 2-30 seconds. To adjust the dwell/cycle time, press both the AUTO and MANUAL buttons at the same time for each second you would like to add. Release the buttons, and the LED light will flash green for each second that was added to the dwell time. Increasing the dwell/cycle time past 30 seconds will revert it back to 2 seconds.

### Manual

To view a specific camera on the receiver, press the MANUAL button. The receiver will switch to a different camera each time the MANUAL button is pressed. There are 3 LEDs on the front of the receiver, and the appropriate LED will light up to indicate the camera that is active. For example, if you press the manual button to view camera 2, the middle LED will be lit. To avoid searching the channels that do not have cameras assigned to them, set those corresponding dip switches (located on the back panel of the receiver) to the OFF position.

## CONNECTING TO A VCR

You can connect a VCR to the system to allow recording of your camera footage. To connect the receiver to a VCR for recording purposes, use the RCA adapter cable and connect the appropriate ends to the A/V Out jack on the receiver, and the other corresponding ends to the audio and video inputs of the VCR.

## TROUBLESHOOTING

If you are having trouble operating this product, please consult the guide below

Problem	Solution
No camera picture	<ol style="list-style-type: none"> <li>1. Check all connections and AC adapters.</li> <li>2. Ensure camera(s) and receiver are set to correct channels.</li> <li>2. Make sure camera is within range of the receiver.</li> </ol>
Blank TV screen	<ol style="list-style-type: none"> <li>1. Make sure the receiver is switched ON.</li> <li>2. Make sure the AC adapter is plugged in</li> <li>3. If using batteries for the camera, make sure they are charged.</li> <li>4. Make sure your TV is set to the Video Input channel.</li> <li>5. Ensure the RCA plugs are connected to both the receiver and the back of your TV/VCR.</li> </ol>
Interference on camera picture	<ol style="list-style-type: none"> <li>1. Make sure each camera is within range, and that no obstructions are blocking the signal.</li> <li>2. Try repositioning the camera, receiver, or both to improve the reception quality.</li> <li>3. Reposition other nearby equipment transmitting on the 2.4 GHz frequency.</li> </ol>

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

# SPECIFICATIONS

## **INDOOR RECEIVER**

Number of Cameras Supported .....	3
Wireless Frequency.....	2.4GHz
Channel Frequencies .....	2.414, 2.432, 2.468
Motion Activated Alert .....	No
Audio Activated Alert .....	No
Output terminal .....	4 PIN DIN to RCA
Auto-Scanning.....	Yes
Housing Material .....	ABS plastic
Housing Color .....	Graphite Grey
Operating temperature .....	-4°F ~ 104°F
Operating Humidity .....	Less than 85%
Receiver Power Input .....	DC 9V 300mA
Power Adapter Input .....	AC 120V 60Hz
Dimensions .....	3.25" x 1.0" x 5.0"
Weight .....	0.32 lbs

## **INDOOR CAMERA**

Image sensor.....	1/4" Color CMOS
Outdoor use.....	No
IP Rating .....	N/A
Maximum Wireless Range (Line of Sight) .....	300 ft
Optimum Wireless Range (Line of Sight).....	100 ft
Wireless Frequency.....	2.4GHz
Wireless Channel Frequencies .....	2.414, 2.432, 2.468
Resolution .....	360 Horizontal TV Lines
Night Vision .....	No
Number of IR LEDs and Range .....	N/A
IR LED control.....	No
Min. Illumination .....	2 lux
Battery Operable .....	Yes, 9V
Viewing Angle .....	50 Degrees
TV System.....	NTSC

Focal Length .....	6.0 mm
Focus Type .....	Fixed Focus
Microphone .....	No
Motion Detection .....	No
Audio Activation .....	No
Sun Shield .....	No
Housing Material .....	ABS plastic
Housing Color .....	Midnight Black
Electronic shutter speed .....	1/60-1/15,000 sec
Signal/Noise Ratio.....	48dB
Power LED Indicator .....	No
Camera Bracket .....	Yes
Operating temperature .....	-4°F to 104°F
Camera Power Input .....	DC 9V 300mA
Power Adapter Input .....	AC 120V 60Hz
Dimensions .....	0.82" x 0.82" x 1.10"
Weight .....	0.44lbs

# NOTES

A large, empty rounded rectangular box with a thin black border, intended for taking notes. The box occupies most of the page below the title.

## SVAT SUPPORTS CRIME STOPPERS

Crime Stoppers programs are operated as non-profit charities and are managed by a volunteer board of directors who raise funds and pay rewards to individuals who anonymously call with information that helps solve crime.

Rewards are paid for tips that lead to the arrest and indictment of people charged with felony offences, and to date Crime Stoppers statistics show a conviction rate of approximately 95%.

To receive more information about Crime Stoppers or to make a charitable donation please fill in the fields on the back of this page, cut on the dotted line and mail in.



### **CRIME STOPPERS INTERNATIONAL**

P.O. Box 614  
Arlington, Texas  
U.S.A 76004-0614

## SVAT SUPPORTS CRIME STOPPERS

To receive more information about Crime Stoppers or to make a charitable donation please fill in the fields below, cut on the dotted line and mail in.



### CRIME STOPPERS INTERNATIONAL

Crime Stoppers International is an organization of community based civilian Crime Stoppers programs, which assist police in solving crime. You can find more information about Crime Stoppers at [www.c-s-i.org](http://www.c-s-i.org)

Local Crime Stoppers programs are partnerships between the public, media and local policing organizations. Each program is run by a citizen board, whose purpose is to advertise a local telephone number, which anonymous persons can call with information regarding a crime. Callers (tipsters) may be eligible for a cash reward for their information.

If your community does not have a Crime Stoppers program and would like information about starting one, return this card with the following information.

NAME: \_\_\_\_\_ PHONE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_

PROV/STATE: \_\_\_\_\_ COUNTRY: \_\_\_\_\_ POSTAL/ZIP CODE: \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

Charitable donations can be made to "CSI" by returning this card in an envelope with your check or money order to the address on the other side.

**THANK YOU**

Amount \$ \_\_\_\_\_





**www.svat.com**

**Disclaimer**

SVAT does not endorse any of SVAT products for any illegal activities. SVAT 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 SVAT product is in use by the purchaser.



**SPY EYE**

Model #  
**WSE103**  
www.svat.com