



SNIPER

STC-V650 User's Manual



Toll Free Customer Support 1-877-269-8490
www.stealthcam.net

STC-V650

For Customer Service or Warranty Information Call Toll Free

877-269-8490

Stealth Cam, LLC

P.O. Box 539504

Grand Prairie, TX 75053-9504

www.stealthcam.net

Stealth Cam Limited Warranty

Your Stealth Cam scouting camera is covered by a 90 days Limited Warranty on parts and labor from the date of original purchase, and purchases must be made through an authorized dealer. The warranty covers defects in workmanship and materials. The warranty does not apply to units, which have been damaged or abused intentionally or unintentionally. A purchase from individuals or unauthorized internet sites voids the warranty.

Tampering with or altering the unit will void the warranty. Any unauthorized service will void warranty. Original sales receipt must be produced for any warranty service and a Return Authorization (RA) number must be obtained from customer service at 877-269-8490 prior to returning product.

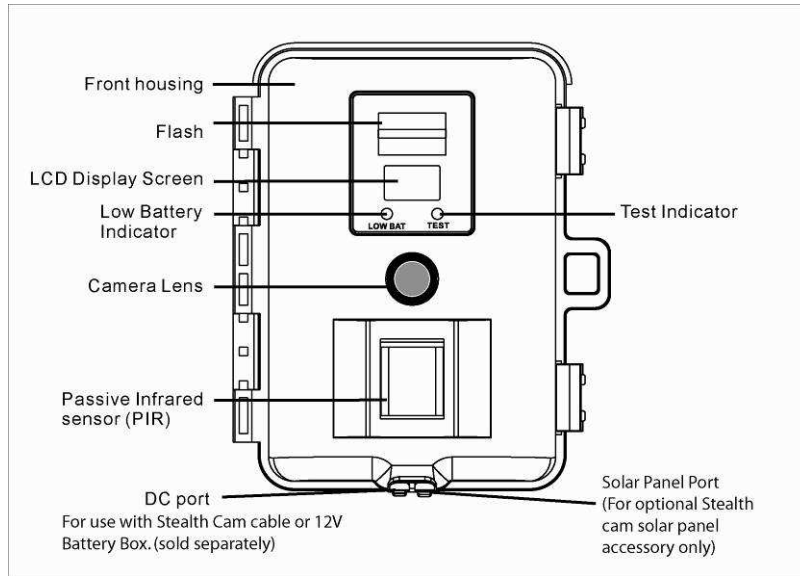
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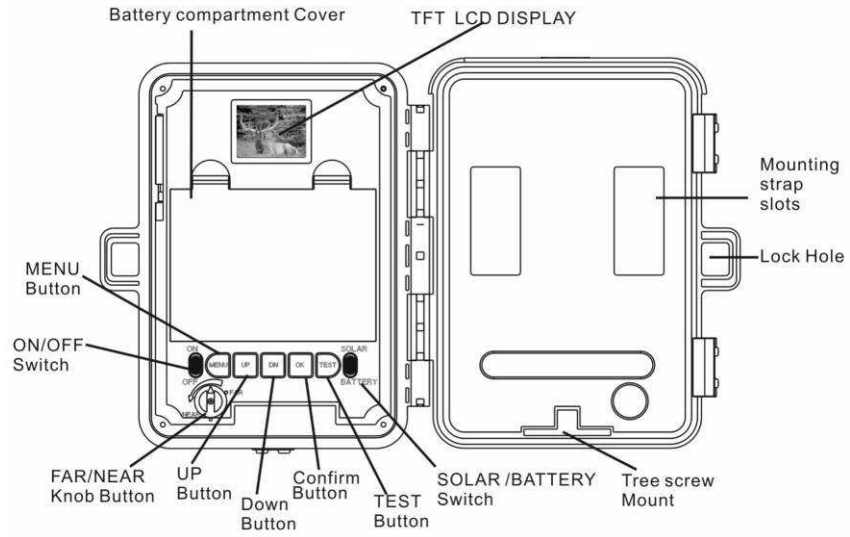
Camera overview

Front housing image with major parts indication.



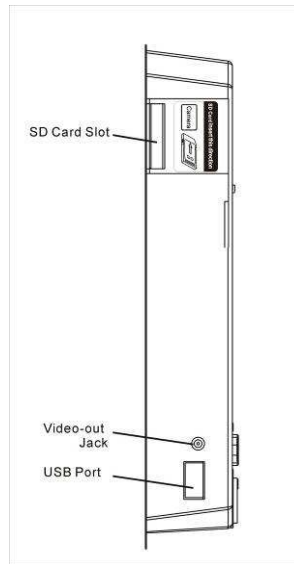
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Open view image with major parts indication:



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Side view with major parts indication:



Picture / Image Capacity

| SD card | High | Mid | Low | Base | AVI |
|---------|------|------|------|-------|-----|
| 16MB | 8 | 17 | 40 | 160 | 1 |
| 32MB | 16 | 34 | 80 | 320 | 2 |
| 64MB | 32 | 68 | 160 | 640 | 4 |
| 128MB | 64 | 136 | 320 | 1280 | 8 |
| 256MB | 128 | 272 | 640 | 2560 | 16 |
| 512MB | 256 | 544 | 1280 | 512 | 32 |
| 1 GB | 512 | 1088 | 2560 | 10240 | 64 |
| 2 GB | 1024 | 2176 | 5120 | 20480 | 128 |

NOTE: Picture / Image Capacity Chart provides approximate number of images or AVI movies based on resolution setting and the size of memory card. These figures may vary depending on the amount of detail in the image.

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Camera kit contents

- Model STC-V650 Sniper Digital Scouting Camera
- User Manual
- USB cable
- Mounting Strap

Battery & memory installation

Warning: Do not use a different Voltage lead acid battery other than the one specified in this section. Doing so will damage the camera and will void the warranty.

The Stealth Cam STC-V650 Sniper Advanced Digital Scouting Camera is designed to operate using two different types of battery power options.

NOTE: Always have camera in the OFF position when installing or removing batteries. **Removing battery while the camera is in operation may damage the camera.**

Batteries “C” cell:

The internal battery compartment accepts 6 x “C” cell batteries. Be sure to use high quality brand name alkaline batteries. Install batteries with correct polarity (+/-) as noted inside the battery compartment.

12V Lead Acid external battery

The STC-V650 is equipped with an external power jack designed to accept a barrel plug cable to attach to a sealed lead acid battery. (sold separately). **This will enhance the camera's field life.** Battery cable and complete 12V Lead Acid battery kits are available wherever Stealth Cam scouting cameras are sold or call toll free 877-269-8490. Only Stealth Cam external battery accessories are recommended.

- Insert the external battery barrel plug into the DC 12V jack on the bottom of camera housing
- Turn the camera power on.
- ❖ ***Please make sure the voltage and polarity (+/-) are correct before connection. Incorrect voltage or polarity (+/-) will damage the camera.***

Please note: When both internal and external batteries are connected, the camera will draw power from the higher voltage source first.

Solar Power

See using external solar power section on page 32.

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Memory Options

Your STC-V650 camera is equipped with 32MB built in flash memory. The camera is also equipped with an expandable media card slot capable of accepting up to 2GB SD card (sold separately). With no memory card inserted into the slot, the camera will use the built in 32MB memory. If an SD card is inserted into the slot then the camera will bypass the built in memory, and utilize the SD memory for image storage. The front counter display will show the number of images on the built in memory unless the expansion card is inserted at which point the counter will only show the number of images in the expansion card.

Inserting SD card

Make sure camera is in the OFF position whenever adding or removing memory.

- Insert SD memory card in to the SD card slot completely and in the correct direction as shown by the sticker located at the side of the housing.
- To remove the SD memory card, depress the SD card and pull out the card gently.



- ❖ *SD cards must be clean (no images from other sources). If you are using the SD card from other cameras, please make sure to format the SD card **in your computer using FAT formatting, not FAT32**, prior to use in the camera. New cards are good to use straight from the package.*

Definitions

- **Time out:** To set the amount of time in minutes the camera will sleep between PIR triggering.
- **Flash:**
 - Auto – Flash on based on surrounding light conditions.
 - Off – Turn off the flash.
- **Capture mode:**
 - **1P ~ 9P:** 1 to 9 burst mode image capturing per PIR triggering.
 - **Video:** 5 to 90 seconds adjustable video per PIR triggering.
- **Resolution:**
 - **6.0M:** Select this option to capture a 6.0 mega pixels image. (High image quality)
 - **3.0M:** Select this option to capture a 3.0 mega pixels image. (Medium image quality)
 - **1.3M:** Select this option to capture a 1.3 mega pixels image.

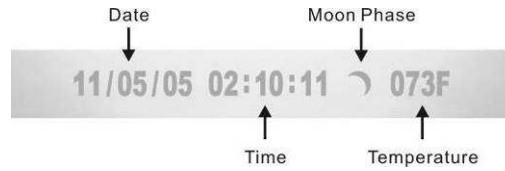
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(Low image quality)

- **0.3M:** Select this option to capture a 0.3 mega pixels image. (Base image quality)
- **Video resolution (320 x 240):** This is the resolution during video capturing.
- **Batteries Status:** It shows the battery status.
 - **Full:** It shows the battery is full. 
 - **Low:** It shows the battery is low and front Low Battery indicator will also blink. 
- ❖ ***When the camera has detected low batteries, (Batteries are lower than 5.8 +/-0.2Volts) the camera unit will power off within 30 seconds automatically. Please replace with new batteries; otherwise the camera will stop working.***
- **Day and Time:** Displays the **date and time that you have set** on still image. For AVI it will appear either on the first frame or the last frame.

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- **Moon phase and Temperature:** Displays the moon phase and temperature.



- **PIR Far/Near dial:** Adjusts the PIR detection sensitivity.
 - **Near is 19 feet**
 - **Far is 30 feet**


Set up and Programming

When the camera is first turned on, the internal LCD screen displays the camera status. The following information is displayed on this screen.



Flash Mode Control:

The camera is pre-programmed with Auto Flash setting.

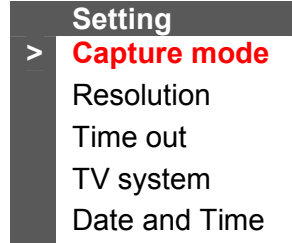
- Switch the camera to ON position.
- To turn off the flash mode, press the [UP] button  once within 30 seconds. ⏸ icon will appear on the top of the screen.
- To turn on the flash mode back to Auto setting, press the [UP] button the second time. ⚡ icon will appear on the top of the screen.

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If no buttons are pressed after 30 seconds, the LCD screen will power down to conserve battery life and enter 1 minute count down to enter PIR detection mode. To re-power the display screen, press and hold the UP or DOWN button until the status screen appears.

Programming the Stealth Cam STC-V650

Switch the camera to the ON position. Once the Camera status screen is visible, press the MENU button. This will bring up the SETTING screen. Capture mode / Resolution / Time out / TV System / Date & Time settings are all performed in this menu.



Set the Capturing sequence. *The Stealth Cam STC-V650 can be programmed to shoot 1-9 pictures per triggering or 5~90 seconds of video.*

- Power on the unit, press the [MENU] button to bring up the menu on the LCD screen.
- Press [UP] or [DN] to highlight CAPTURE mode.
- Then press the [OK] button to enter capture setting.
- **Press the [UP] or [DN] button to select the desired capture setting (number of pictures per triggering) and press the [OK] button to save. You will be returned to the SETTING SCREEN menu.**
- Use the UP and DOWN buttons to select additional program settings, or press [MENU] again to exit the SETTING SCREEN.

Set the Resolution:

- Press the [UP] or [DN] to highlight RESOLUTION.
- Then press the [OK] button to enter the resolution settings.
- Press the [UP] or [DN] button to select the desired resolution and press [OK] to save.

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- Use the UP and DOWN buttons to select additional program settings, or press [MENU] again to exit the SETTING SCREEN.

Set the Time out:

- Press the [UP] or [DN] button to highlight TIME OUT.
- Press [OK] to enter the setting.
- Press [UP] or [DN] button to set the desired time out in minutes (one minute increment from 1-10 and five minute increments from 10 to 59 minutes).
- Press [OK] again to save the setting. You will be returned to the SETTING SCREEN menu.
- Use the UP and DOWN buttons to select additional program settings, or press [MENU] again to exit the SETTING SCREEN.

Set TV System: NTSC is the default and correct setting for all of North America. Most of the European and Asian country use PAL system. Below is the instruction for changing the TV output option.

- Press the [UP] or [DN] button to highlight TV system.

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- Press [OK] to enter the setting.
- Press the [UP] or [DN] to set the TV output in NTSC or PAL system.
- Press [OK] again to save the setting. You will be returned to the camera's status screen.

Set Date and Time: This camera uses the 24hr military time format.

- Press the [MENU] button to bring up the menu on the LCD screen.
- Press the [UP] or [DN] button to highlight DATE AND TIME.
- Press [OK] to enter the TIME & DATE setting menu.
- Press [UP] or [DN] to select the TIME.
- Using the UP and DOWN buttons, set the appropriate hour then press OK. This will highlight the minutes. Using the UP and DOWN buttons, select the appropriate minutes.
- Press [OK] to save the time, and you will be returned to the TIME & DATE setting menu.
- Press [UP] or [DN] to select DATE and press [OK].

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- Using the UP or DN buttons, select the appropriate month then press OK. This will bring you to the day setting. Using the [UP] or [DN] buttons, select the appropriate date, then press OK. This will bring you to the year setting. Using the [UP] or [DN] buttons to select the appropriate year, then press OK. This will return you to the DATE & TIME setting menu.
- Press the [MENU] to return to the main setting menu.

Once all settings have been completed, press the MENU button to return to the CAMERA STATUS screen.

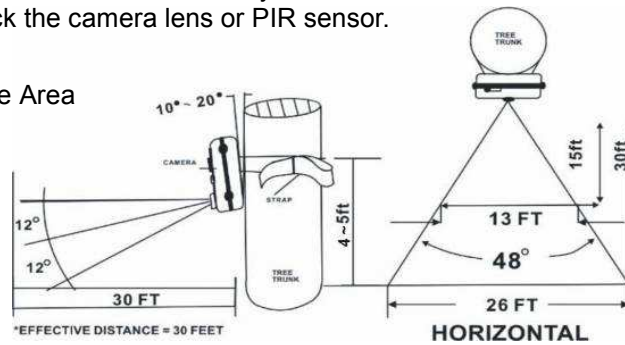
Using the camera

Once all program settings have been completed, your Stealth Cam is ready for field use.

Getting started:

It is recommended that you mount the camera 4-5 ft off the ground with the camera pointed at a slight downward angle. Be sure to avoid mounting the camera facing east or west, as the rising and setting of the sun could produce false triggers and overexposed images. Clear all branches and other debris away from the front of the camera so as not to block the camera lens or PIR sensor.

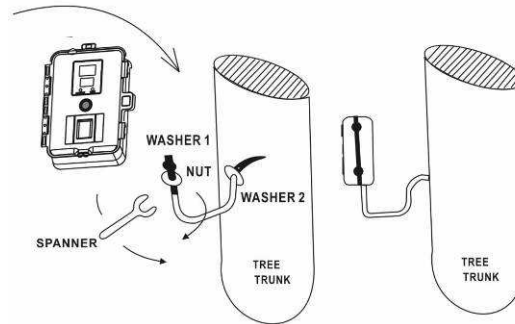
PIR Coverage Area
Diagram



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Mounting the camera

Mounting the camera with the Tree Screw (Optional Accessory sold separately)

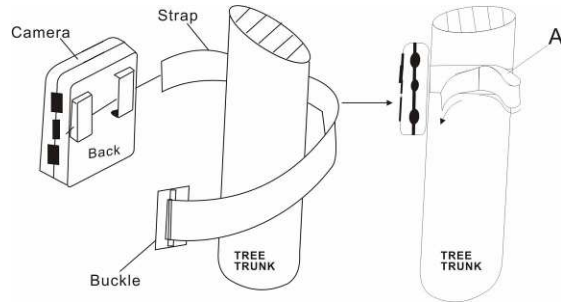


- Hand twist the screw into the tree or post at the desired position.
- Attach the camera to the screw by turning the camera onto the mounting screw to the desired position.
- Tighten the stabilizer nut.

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- ❖ ***Do not over tighten, as this may cause damage to the camera housing. Use the nut and washer to tighten the bottom of camera for greater stability.***

Mounting the camera with the supplied strap:



- Insert the strap through the strap slots on the rear housing.
- Wrap the strap around the mounting surface. Secure the strap and tighten the buckle in order to secure the camera.

Stealth Cam offers a Security Lock Bracket for uses exclusively with this camera. For the latest Stealthcam accessories go to:

www.stealthcam.net or call toll free 877-269-8490

- ❖ ***In order to obtain proper weather resistance, please make sure that both door latches are securely locked in place.***

Testing the camera coverage area

One of Stealth Cam's many features, is the ability to test the coverage area.

- After mounting the camera, open front housing and slide the power to ON.
- After the font LCD screen has powered on, press the [TEST] button (this must be done with in 30 seconds or the camera will enter count down mode).
- Close the front housing.
- Walk around in the front of the camera to see if you have mounted the camera in the proper position. A green indicator LED light on the front will blink when you have intruded the

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coverage area.

- Adjust the camera position as needed, and repeat testing until the desired coverage area is achieved.
- When you have completed testing the coverage area, there are 2 methods to exit the test mode:
 - a. Open the front housing and press the [TEST] button to exit test mode. The camera will then enter count down mode for 1 minute, and the front green indicator will start blinking, giving you 1 minute to leave the coverage area. The camera will then enter PIR detection mode.
 - b. As a safety precaution, the camera will automatically enter 1 minute count down after it has been left sitting idle in test mode for more than 5 minutes. Camera will then enter PIR detection mode.

Using the camera in PIR detection mode:

- Mount the camera to tree or other sturdy object using either a tree screw (optional accessory) or supplied mounting strap (You may refer to the mounting suggestions section in this manual)

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- Open the front housing and move the switch to the ON position. At this point, you have 30 seconds to make any program adjustments.
 - After 30 seconds the camera's green LED light will begin blinking and enter count down mode. This is your indication to leave the coverage area within one minute.
 - After one minute, the camera will enter either image burst mode or adjustable video mode based on your program setting. The camera will then time out between 1 ~ 59 minutes, depending on your setting.
-
- ❖ *The time between motion detection and the camera taking the pictures may vary due to lighting conditions, charging of the flash, program settings, and battery power level.*
 - ❖ *The flash light will only activate in low light conditions.*
 - ❖ *When the camera is set to AVI capturing, the camera cannot use the flash feature. The quality of the video clip will turn out well in good daytime lighting conditions. If the surrounding light conditions are not enough, your unit will switch the AVI setting to a single image capturing automatically.*

Viewing and deleting the images

The STC-V650 cam offers the user different options for viewing the images. The external LCD display on the front of the housing will show the number of images in memory.

To wake the camera from PIR detection mode, press and hold either the [UP] or [DN] button for approximately 5 seconds. Camera status screen will appear. Press [OK] button once, the color screen will display the last image captured. Press [OK] button once more to bring up the thumbnail screen.

Viewing the image in the built in color LCD screen:

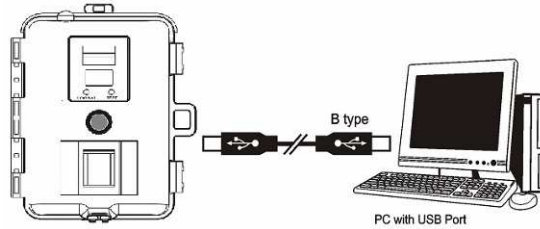
- Slide the camera power switch to ON.
- Press the [OK] button once. This will display the last image captured.
- Press the [OK] button once more to bring up the thumbnail screen. On the upper left hand corner of your screen, it will display the word JPG or AVI to indicate whether the thumbnail image is still image or video clip.

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- Using the [UP] and [DN] button, you may navigate and select the image you wish to view. Press [OK] to either display the whole image on the screen or to play the video, if it is a video clip.
- To return to the thumbnail view from the full size image or at the end of a video clip, press the [OK] button.

Viewing images by computer download:

The Stealth Cam STC-V650 Digital Scouting Camera is a plug and play USB storage device. This means users of Windows 2000 / ME / XP and [Vista](#) operating systems, need not install the camera driver. This camera is not MAC compatible. If you are using Windows 98SE operating system, you can download the driver from the Stealthcam website.



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Viewing the image on a handheld LCD TV video monitor, or your home TV equipped with an RCA input jack (cables sold separately)

For viewing on handheld LCD TV, attach the appropriate cable to the video OUT jack on the camera. Insert the other end into the video IN jack on handheld LCD TV monitor.

For viewing on home TV, attach the appropriate cable to the video OUT jack on the camera. Insert the other end into the RCA video IN jack on the TV. Make **sure to switch to VIDEO IN mode on your TV. (See your TV owner's manual for directions)**

Turn on both the camera and TV monitor.

- Your camera is preset to NTSC TV out system by default. If your TV screen does not flicker, then you do not need to set your TV out system. If your TV screen flickers, then you will need to set up your TV out to PAL system. (refer to Setting TV system out section of the manual on page 18)
- Press the [OK] button once more to bring up the thumbnail screen. On the upper left hand corner of your screen, it will display the word JPG or AVI to indicate whether the thumbnail

image is still image or video clip.

- Using the [UP] and [DN] button, you may navigate and select the image you wish to view. Press [OK] to either display the whole image on the screen or to play the video, if it is a video clip.
- To return to the thumbnail view from the full size image or at the end of a video clip, press the [OK] button.

Deleting images

At any time while viewing images on the built in LCD, Handheld TV or Home TV you may delete images one at a time or all at once.

- While viewing images either in thumbnail view or full screen view, press [MENU] to enter the DELETE & FORMAT menu.
- Using the [UP] and [DN] buttons to the desired function, the display will show: Not delete, Delete, Delete ALL.
- Press [OK] button to confirm selection.

After selection has been made, the screen will go back to image preview mode.

Using external solar power

This Stealth Cam is designed to be used with an optional Stealth Cam solar panel accessory kit. (Sold separately)

- Make sure the camera is turned to OFF.
- Open the battery cover.
- Insert 6 C size rechargeable batteries into battery compartment and close the battery door.
- Adjust the solar panel's receiving side toward the sufficient sun light direction.
- Insert the solar panel's plug into the solar jack of the bottom of camera housing.
- Slide the power source switch to SOLAR position to start the charging.
- ❖ ***When using the rechargeable battery connecting to the solar panel, always make sure the camera power source switch is in SOLAR position.***
- ❖ ***Also make sure to install the rechargeable batteries in***

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correct polarity (+/-). Incorrect voltage or polarity (+/-) will damage the camera.

- For first time use, please leave the solar panel with camera power switch turned in OFF position for full daylight charging for at least 20 hours.

SD Memory Card Compatibility Chart

The following cards have been tested and approved for use in the STC-V650 model.

| | |
|----------------|------------------------------------|
| PQI | 32MB, 64MB, 128MB, 256MB, 512MB |
| San Disk | 32MB, 64MB, 128MB, 512MB, 1GB, 2GB |
| Panasonic | 32MB, 64MB, 256MB, 512MB |
| Toshiba | 32MB, 64MB, 128MB, 256MB, 512MB |
| King Mate | 32MB, 64MB, 128MB, 256MB, 512MB |
| Lexar | 32MB, 512MB |
| Kingston | 128MB, 256MB, 512MB |
| Kodak | 128MB, 256MB, 512MB |
| Dan-Elec | 128MB, 256MB, 512MB |
| PNY | 128MB, 256MB, 512MB, 2GB |
| First Champion | 1GB |

Proper camera operation cannot be guaranteed when using memory cards **NOT** listed above.

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Technical Specifications

System Requirements and Compatibility:

- Windows 98/98se/2000/Me/XP/Vista
- P 450MHz or equivalent processor.
- 128MB SDRAM or above.
- VGA Video Card with 32MB RAM for minimum, Color 16 bit or higher.
- An available USB Port.
- 600 MB free hard disc space.
- ❖ ***If you have any questions regarding your PC specifications, please call your PC manufacturer.***

Camera Features and Specification.

- Image sensor: 2.0M CMOS Color sensor pixels.
- Built in 2.0" color display.
- Built in 32M flash memories for image storage.
- External memory support: SD memory card up to 2.0 GB.
- Resolution Options: 6.0M, 3.0M, 1.3M, 0.3M.
- 2 Capturing Options: Continuous burst mode or AVI clip.
- Image performance for video stream: 10fps in 320 x 240 pixels.
- Auto white balance and auto expose.
- Flash light strobe Auto & Off control.
- Real time clock for date and time stamping.
- 4 digits LCD Image counter.
- Battery low LED indicator.
- Green Test LED indicator.
- TV out support for NTSC and PAL system.
- Focusing: 5 ft to infinity.

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- High precision 5P glass lens with IR coating.
- Effective viewing Angle: 52 degrees.
- PIR detection angle 48 degrees.
- Low power consumption:
 - Standby current: < 1mA.
 - Capture current <150mA
- Interface type: USB 1.1.
- Power: C size alkaline batteries x 6.
- External power: Solar or 12 volt battery pack.
- Image format: Standard JPEG or Motion JPEG. (AVI)

General Information

Storing conditions:

- Operating Environment: 14 to 104 deg. F (-10 to 40 deg C). 20-85% relative humidity, non-condensing.

Special care instructions!!

- This camera is designed to be weather resistant. Never attempt to immerse the unit in water or any other liquid. This will damage the unit and void the warranty.
- Use a soft lens cloth for cleaning the lens. Avoid touching lens with fingers.
- Remove dirt or stains with a soft cloth dampened with water, or neutral detergent. Keep the STC-V650 cam in a dry and cool dust-free environment, or container when it is NOT being used.
- Take the batteries out, when the STC-V650 cam is NOT to be used over a long period.
- Avoid dropping the Stealth Cam on to hard ground. Do not disassemble the camera.

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- Do not mix new and old batteries.
- Do not open the camera for unauthorized service. This could cause serious damage to the unit, and will void the warranty.

This camera is a precision electronic device. Do not attempt to service this camera yourself, as opening or removing covers, may expose you to dangerous voltage points or other risks.

May be protected by one or more U.S. Patent numbers:

6,735,387









































6,768,868

6,834,162

7,149,422

7,308,196

Moon Phase Symbol Chart

| Symbol | Lunation from to | | Actual phase | | | | |
|---|------------------|----------|---|---|--|---|---|
|  | 1 | 5 |  |  |  |  |  |
|  | 6 | 10 |  |  |  |  |  |
|  | 11 | 14 |  |  |  |  |  |
|  | 15 | 16 |  |  |  | | |
|  | 17 | 20 |  |  |  |  |  |
|  | 21 | 25 |  |  |  |  |  |
|  | 26 | 29 or 30 |  |  |  |  |  |

Product specifications are subject to change. Stealthcam is not responsible for any photographic or typographical errors.