

Zoltrix / Z-Cyber Cute Cam User Guide

Important Precautions

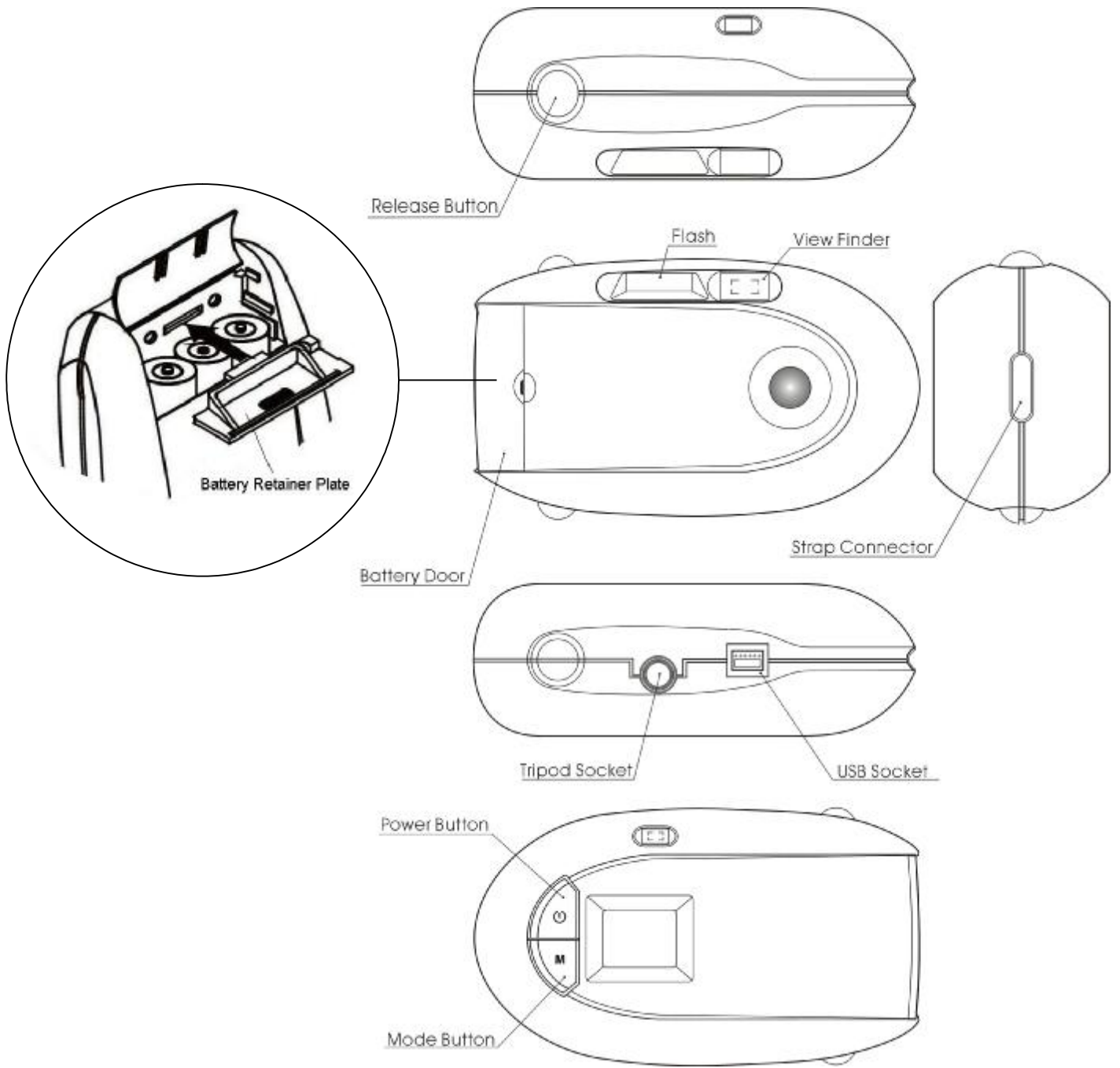
Before using the camera and the software please take note of the following precautions.

- 1) Make sure to install the software before connecting the camera for the first time to your computer. Failing to do so will cause image transfer problem. Please make sure you follow the software installation steps in this manual.
- 2) Do not remove batteries otherwise pictures in the camera will be lost.
- 3) Always switch off camera before removing batteries.
- 4) The camera will retain images for around a minute after battery is removed. If you need to replace batteries please do so within this period of time, otherwise images will be lost.
- 5) If your computer hangs up during image transfer, please follow these steps:
 - a. Disconnect camera from the computer.
 - b. Wait for the camera to switch off itself. This may take up to 45 seconds.
 - c. Reboot your computer and wait for it to completely reboot.
 - d. Connect the camera to the computer and retry image transfer again.
- 6) You should transfer images from the camera to your computer as soon as possible when low battery condition happens in order to avoid image loss.

General Precautions

- 1) Never try to take pictures when operating a motor vehicle or while walking.
- 2) Never try to open the case of the camera or attempt your own repairs. Always leave service to authorized repair facilities.
- 3) Keep the camera away from water and other liquids, and never let it get wet. Never use when it is raining or snowing.
- 4) Should foreign matter or water get into the unit, immediately turn the power off and contact your local authorized service center.
- 5) Physical damage and malfunction of this unit can cause the image data stored in its memory to be deleted. Be sure to always keep backup copies of data by transferring them to your computer.
- 6) Do not leave the camera in places subject to extremely high temperatures, such as a sealed vehicle or in direct sunlight.
- 7) Disconnect the batteries when the camera is not used for long periods of time. Before doing so please make sure all images in the camera are transferred to your computer.
- 8) Do not place the camera in unstable locations, such as a sloping surface or unstable table where the camera may fall.
- 9) Do not touch or press on the display or lens.
- 10) Do not drop the camera or subject the camera to strong vibration.

The Camera



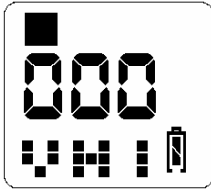
Software Installation

This section shows you how to install the application software and the drivers required. Please follow the step-by-step instructions. **Do not connect the camera to the PC until told otherwise during the installation process.**

- 1) Insert the Cute Cam CD into the CD-ROM drive of your computer.
- 2) If you have Auto Run feature enabled for your CD-ROM, the setup application will start automatically.
- 3) If you don't have Auto Run feature enabled, click on **Start** and select **Run...** from the Windows taskbar. Type **d:/launch** to launch the software installer (**d:** refers to your CD-ROM drive. If your CD-ROM drive is not drive **d:**, use the drive letter of your CD-ROM drive instead).
- 4) There are three options in the installer:
 - a) Install Arcsoft (imaging applications)
 - b) Install Driver (plug and play drivers)
 - c) Install Twain Driver
- 5) You can install the different options one by one by clicking on the required option or you can install all options by clicking on the "Install All" button. Please follow the instructions provided. *If you select the "Install All" option, DO NOT select "restart computer now" until the Twain Driver is installed (otherwise the Twain Driver will not be installed and you will have to install it separately by running the installer again).* For new installation you are recommended to use the "Install All" option.
- 6) Make sure that you have installed the driver in "4b" above and plug the camera into the USB port of your PC. An USB cable is provided for this connection.
- 7) Once the camera is plugged into the PC, a dialog box titled **New Hardware Found** will be displayed. **Cute Cam DSC** and **Cute Cam PC CAM** will be identified and installed automatically.

Camera operation

Power up the camera



Open the battery door and remove the battery retainer plate. Insert three AA-size batteries into the battery compartment. Please make sure they are put into the camera in the polarity marked in the battery compartment. Insert the battery retainer plate securely and close the battery door. We recommend alkaline battery for better performance.

Press and hold the power button for around one second and the camera should turn on with a double-beep sound. The LCD panel should display the default screen on the left. Press and hold the power button again will turn off the camera.

The power-up default settings are: single capture, VGA (640x480) image resolution, high image quality and flashlight off. The 3-digit counter on the LCD indicates the number of pictures stored in the camera. Simply click the shutter button to take picture. The camera will emit a high tone double-beep and increment the counter when a picture is taken successfully.

The camera will switch itself off, if it is idle for more than 45 seconds, in order to save power. The camera will emit a double-beep sound before switching itself off.

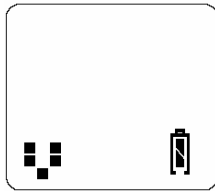
Warning:

- 1) Do not remove batteries otherwise pictures in the camera will be lost.**
- 2) Always switch off camera before removing batteries.**
- 3) The camera will retain images for around a minute after battery is removed. If you need to replace batteries please do so within this period of time, otherwise images will be lost.**

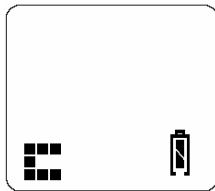
Operating Modes

You can select operating mode by pressing the mode button repeatedly until the desired mode is reached and then press the shutter button to confirm. The LCD will cycle through the following modes one by one each time the mode button is pressed. The camera will abort selection if no button is pressed within 10 seconds.

Image Resolution Settings

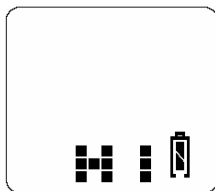


1. VGA (640x480) image resolution. This resolution provides good image quality for PC imaging applications. Images at this resolution are perfect for viewing on an 800x600 monitor resolution setting.

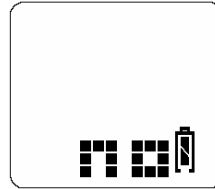


2. QVGA (320x240) image resolution. Images taken in this resolution use less image memory (more pictures can therefore be taken). However, the pictures may look grainy and pixelated. This setting should be good enough for passport type photos.

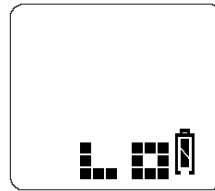
Image Quality Settings



3. High image quality setting. In this setting, the picture quality is the highest and you can take up to 22 pictures in VGA resolution (or up to 72 in QVGA resolution).

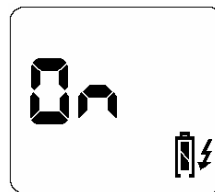


4. Normal image quality setting. In this setting, the picture quality is still very good and you can take up to 49 pictures in VGA resolution (or up to 144 in QVGA resolution).



5. Low Image quality setting. In this setting the picture quality is not as high as the other two settings and pictures may appear blocky in this setting. However, you can take up to 74 pictures in VGA resolution (or up to 180 in QVGA resolution).

Flashlight settings



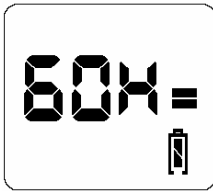
6a. You can press the shutter button to enter automatic flashlight mode when you see this display. The flashlight icon will blink until the flashlight is fully charged. In this mode, the flashlight will be fired automatically when you take a picture under low light condition.



6b. You can press the shutter button to turn off the automatic flashlight mode when you see this display.

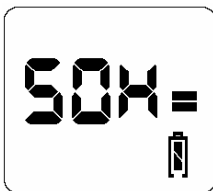
The flashlight icon will be switched off if you select this mode.

Anti-flickering settings



7. In this mode, the camera will minimize the picture bandings caused by 60Hz fluorescent lighting (in countries

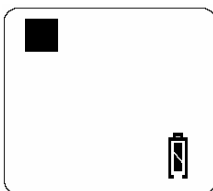
such as USA and Japan).



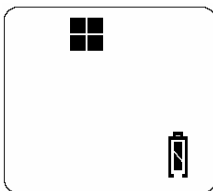
8. In this mode, the camera will minimize the picture bandings caused by 50Hz fluorescent lighting (in countries

such as UK and Australia).

Capture Modes



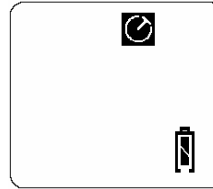
9. Single capture mode. In this mode, the camera will take one picture per shutter click.



10. Continuous capture mode. In this mode, the camera will take picture continuously once the shutter

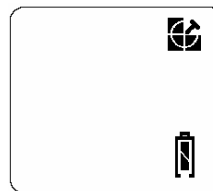
button is pressed. Press the shutter button again will stop picture taking.

The flashlight will be disabled in this mode.



11. Self-timer mode. In this mode, the camera will take a picture 10 seconds after the shutter button is pressed.

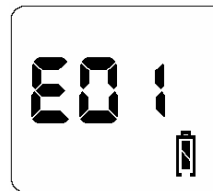
While the timer is running, the camera will emit 8 seconds of slow beeps followed by 2 seconds of fast beeps.



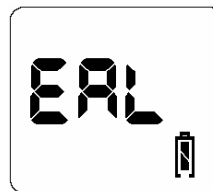
12. Self-timer continuous capture mode. In this mode, the camera will take picture continuously 10 seconds after

the shutter button is pressed. Press the shutter button again will stop picture taking. While the timer is running, the camera will emit 8 seconds of slow beeps followed by 2 seconds of fast beeps. The flashlight will be disabled in this mode.

Erase Modes



13. You can press the shutter button to erase the last taken picture when you see this display.



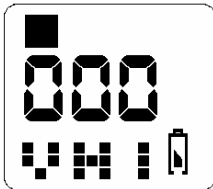
14. You can press the shutter button to erase all the pictures in the camera when you see this display.

Error conditions

Incorrect Exposure

If exposure is under or over, the camera will emit a low tone error sound when the shutter is pressed. The camera will not take picture under these conditions. Please note that this also applies in the self-timer mode. The camera will not start continuous capture or self-timer continuous capture if exposure is wrong. However, once the continuous capture is started, the camera will keep taking pictures even if the exposure is wrong.

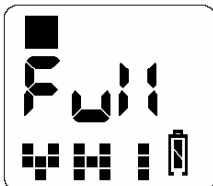
Battery Low



When the battery is running low, the camera will emit a long high tone beep. It will also switch on the battery low icon as shown on the left. Under this condition the camera will not allow any operation apart from power down. Pressing the mode or the shutter button under this condition will give a low tone error sound. ***You should transfer images from the camera***

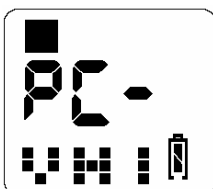
to your computer as soon as possible when this condition happens in order to avoid image loss.

Image memory full



If the image memory is full, the camera will emit a low tone error sound when the shutter is pressed. The camera will not take picture under this condition and the counter on the LCD will display "Full" as shown on the left.

Connecting the camera to your PC



The camera provides an USB interface for connection to a PC. Please turn on your PC and connect the camera to your PC using the USB cable provided. The counter should display "PC_" as shown on the left when the camera is connected. You can now transfer images from the camera to your PC or you can use the camera as a PC WEB camera. Please refer to the

PC camera section for detail. The camera will switch itself off automatically once it is disconnected from the computer.

How to start the TWAIN driver?

A TWAIN driver is provided for transferring pictures in the camera to your PC. The TWAIN driver can be activated in one of the following ways depending what Arcsoft application you are using. If you are using other imaging applications, please refer to their manuals on how to start the TWAIN driver.

In Fun House or PhotoPrinter

- 1) Click the **Get Photo** icon
- 2) Click the **Acquire** (camera) icon
- 3) Select source **Cute Cam**

In PhotoBase

- 1) Click the **Acquire** (camera) icon
- 2) Select source **Cute Cam**

How to use the TWAIN driver?



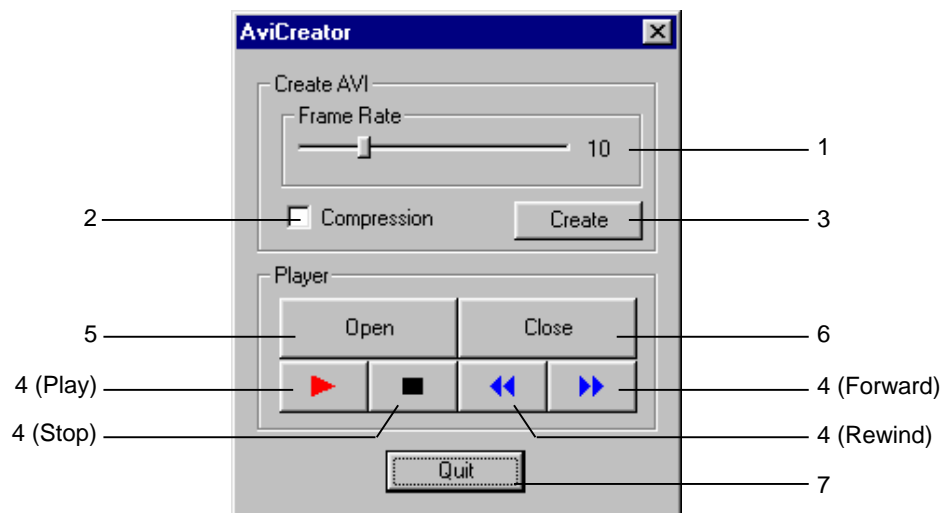
The TWAIN Driver interface is as shown above. Please follow the steps below to transfer pictures from the camera to your PC imaging application:

- 1) The camera will transfer pictures into the thumbnails once the TWAIN driver is started. The camera icon will blink whenever there is interaction between the camera and your PC.
- 2) You can preview the pictures in thumbnails. If more than 20 pictures are transferred, click the **Page Up** or **Page Down** button to go to thumbnail page that you need.
- 3) You can select pictures to transfer from the thumbnails as follow:
 - a. To select a picture to transfer, simply click on its thumbnail. The thumbnail of the selected picture will be highlighted.
 - b. To select all pictures, simply click the **Select All** button.

- c. To select multiple pictures, press and hold the **Ctrl** key and click at the same time on the thumbnail of the required picture. Repeat this until you select all the pictures that you need.
 - d. To select a range of pictures, click on the thumbnail of the first picture that you need, then press and hold the **Shift** key and click at the same time on the thumbnail of the last picture that you need.
- 4) After selecting the pictures, click the **Capture** button to start transferring pictures to your PC imaging application.
 - 5) To make video clip in AVI format, click the **AVI** button. The following section will provide more detail of this feature.
 - 6) If you need help on the usage of the TWAIN driver, click on the **Help** button.
 - 7) If you want to exit the TWAIN driver, click the **Exit** Button.

Creating video clip

Once you click the AVI button in the TWAIN driver, you will see the following window. Follow the steps below to create video clip.



- 1) Set the **Frame Rate** in frames per second using this slide bar. This will determine the play speed of the video clip.
- 2) Check the **Compression** box if you need a small file size for your video clip. Please note that the quality of the compressed video will be lower compare to that of the non-compressed video.
- 3) Click the **Create** button, then select **directory**, enter **filename** and click **Open** button in the **Open** dialog box. An AVI video clip will then be generated automatically.
- 4) When the video clip screen appears simply use the **Play**, **Stop**, **Forward** and **Rewind** buttons to play the video clip.

- 5) You can also open an existing AVI format video clip for review. Click on the **Open** button and select the **AVI file** you want to open and click **Open** button in the **Open** dialog box.
- 6) Close the current AVI file once you finish reviewing it.
- 7) Click on the Quit button to exit from the video clip window.

PC Camera operation

The camera can be used as a PC camera for video capturing via the USB port. You can use software such as Microsoft AMCAP (not included) for this purpose. The camera can also be used with software such as Microsoft NetMeeting for video conferencing purpose. NetMeeting is software that comes in standard with Windows 98. Please refer to the software manuals for detail of how to use this software.

Specification of Cute Cam

Lens	4-element aspheric hybrid lens with IR filter
Focusing	Focus free 0.6m to infinity
Image sensor	VGA (640 x 480 pixel) CMOS sensor
Image quality & Typical number of images	High Quality - 640 x 480, (22) or 320 x 240 (72) Normal Quality - 640 x 480 (49) or 320 x 240 (144) Low Quality - 640x480 (74) or 320 x 240 (180)
Image resolution	640 x 480, 24-bit color depth 324 x 240, 24-bit color depth
Sensitivity	Equivalent to ~ ISO100 Silver Halide Film
Exposure	Auto exposure, Auto white balance
Storage	8 MB Internal memory (SDRAM)
Output file format	JPEG
Shutter	Electronic variable speed
Viewfinder	Optical viewfinder
Shooting modes	Single image capture, Continuous capture (2FPS), Fluorescent lighting system setting (50Hz/60Hz), 10 second self-timer, PC camera
Status LCD	Yes
Frame counter	LCD counter
Flash unit	Auto flash and flash-off mode
Power source	3xAA Batteries
Battery life	Up to 200 Pictures (50% with flashlight)
Power management	Auto-power-off after 45 seconds without activity
Size	110mm W x 61mm H x 37mm D (4.33 x 2.40 x 1.46 inches)
Weight	95 Grams (3.4 Oz) - without batteries
Video	2 FPS in high or low resolution mode
Connectivity	USB connector direct to PC
Min. system requirements	Windows 98/ME/2000/XP, Pentium PC with USB port
PC software	Arcsoft imaging software and TWAIN driver with AVI video clip generator
Accessories	CD ROM including Image editing software and drivers USB cable Hand strap 3xAA alkaline battery Warranty card User guide

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.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ❑ Reorient or relocate the receiving antenna.
- ❑ Increase the separation between the equipment and receiver.
- ❑ Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- ❑ Consult the dealer or an experienced radio/TV technician for help.