Digital Camera with USB Port, Model Number: PCL8020.

USER MANUAL **FCC ID:OYZPCL8020**
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 instructions, 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 tuning 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 connected.
- Consult the dealer or an experienced radio/TV technician for help.
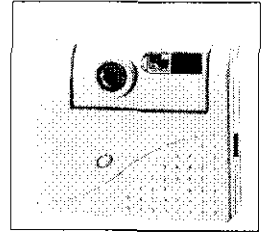
FCC ID:OYZPCL8020
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) **this device must accept any interference received, including interference that may cause undesired operation.**

1.0 Introduction

The EC-cam model:PCL-8020 camera is based on color CMOS image sensor. The EC-cam is capable of taking and storing 20 CIF images or 80 QCIF images. These may be uploaded to a PC via a USB port. The camera is powered by 4 AAA cells or via the USB connector when attached to a PC. The EC-cam software program support Window98.

1.1 Inside the packing box:

(1) The EC-cam PCL-8020 USB digital camera.

(2) This Camera Instruction Manual.

(3) *One 3.5" Floppy Disk with EC-cam programs.*

(4) One Limited Warranty Card.

(5) One USB cable.

Batteries not included.

2.0 User interface

The EC-cam has two switches on it. The switch numbers are identified as follows:-

The **Shutter** button (also act as "Enter")

The **mode** switch
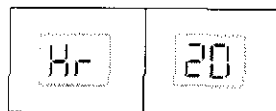
A Green LED indicates when the camera is on.

A 2-digit LCD display and a piezo sounder.

3.0 Switching the camera on.

If the LCD is blank then pressing the mode switch once will switch the camera on.
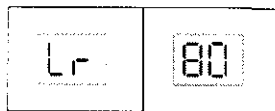
The camera will beep twice and the green LED will light. The LCD will briefly indicates the camera mode wither Hr for High Resolution (20 CIF images)

| Hr | 20 |

OR

Lr for low resolution (80 QCIF images) and then display the number of pictures which may be taken.

| Lr | 80 |

3.1 AUTO OFF

The camera will switch itself off after 20seconds of inactivity; the LED will turn off and the LCD will go blank. Pressing the mode switch once will turn it back on and any pictures taken will remain.

Remove battery will lose all the images.

First, you should upload and save the images via USB port to the computer, and then change batteries.

4.0 Taking a picture

Press the shutter button to take a picture. The camera will beep.

A high pitched beep indicates that the picture was taken successfully and the counter will decrement.

A low beep indicates insufficient light to take a picture.

A series of beeps indicates that the camera is full.

5.0 Additional features

Pressing the mode switch repeatedly cycles through additional features as displayed on the LCD. When a given feature is displayed it may be selected by pressing the shutter button. If an option is not selected within 5 seconds the display will revert to showing the number of available pictures.
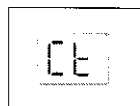
5.1 Self-timer

Press the mode button until St appears in the LCD. Pressing the shutter button will now start a 10-seconds self-timer. The camera will issue a short beep every second and then a longer beep. A further beep will then indicate that the picture has been taken. The self-timer mode cannot be selected when the camera is full.

St

5.2 Continuous mode

Pictures may be taken continuously as long as the shutter button is pressed (and the camera is not full) as follows:

Ct

Press the mode button until Ct appears on the LCD. Pressing the shutter button within 5 seconds will cause the camera to start taking pictures for as long as the shutter button is pressed. If the shutter button is not pressed within 5 seconds the camera will revert to normal picture taking. Note that during continuous mode the camera will allow pictures to be taken with incorrect exposure.

5.3 Clearing the Stored Images

Press the mode button until Cl appears in the LCD. Pressing the shutter button once will cause the camera to beep and the Cl the start flashing. Pressing the shutter button again within 5 seconds will clear the camera and reset the picture counter.

CL

5.4 Changing picture resolution

Picture resolution may only be changed when the camera is empty. If pictures have been taken then the camera must first be cleared as explained above in 5.3. To change resolution press the mode switch until the resolution option is displayed. Either **Hr** to change to high-resolution mode (if you are currently in low-resolution mode) or **Lr** to change to low resolution. The camera will beep and the display will reset and indicate the number of pictures available.

6.0 Software requirements for uploading pictures

A PC running Windows98 and fitted with a USB port is required to upload pictures from the camera. Three applications are also available:-

6.1 EC-cam Photo Program

This allows you to upload image captured by the camera.

- Press the **OPEN** button to link to the camera.

- Press the **Picture** button to upload image icons.

- Double click on the image thumbnail to upload it.

- Right click on the image to save or process it.

6.2 AVI Creator

This takes advantage of the continuous mode described in 5.2. It is recommended this be displayed in QCIF (Low-resolution mode). When the camera is full (80 pictures in continuous mode) attach it to the PC via USB cable and run the AVI creator. You will be prompted for a file name under which the .avi file will be stored. Images are uploaded from the camera and processed into a video clip (.avi file).
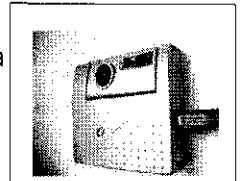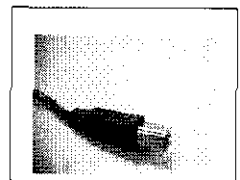
6.3 EC-cam Video

This allows a video-mode while tethered to the camera. A TWAIN driver is also installed for use with other application.

7.0 Uploading pictures

Stored pictures may be uploaded to a PC at any time whether or not the camera is full. Plugging the USB connector into the camera will cause it to reset and issue a double beep but all stored pictures will remain. When the USB connector is unplugged the camera will switch itself off. When connected to the PC the camera may still be used in the normal way.

8.0 USB Power

When plugged into a USB port the camera derives its power from the PC. The camera may be used like this with no batteries fitted but all pictures will be lost when the USB connector is removed.

9.0 Battery Life

The camera in standby mode may store images for 3 days or less. It is advisable to upload images frequently.

Always remember to upload images to the computer first!

10.0 Installation of CD-ROM Disk

10.01 Inside the packing box is a CD-ROM Disk labeled "EC-cam Program disk". Place it in the floppy disk drive. (Drive: D or E)

Three programes are

(1) EC-cam Photo.exe file

(2) EC-cam Video.exe file

(3) EC-cam AVI.exe file

Reset

On the side of the camera, there is a reset switch like pin hole size. Reset the camera will loss all images.