

APPENDIX 5

USER'S MANUAL OF EUT

The enclosed manual is for the EUT. As you will notice on the preceding page of this manual is the **FCC NOTICE** about radio and television interference as per the requirement set forth in Part 15 of the FCC Rules.

Warranty Policy

This camera is under warranty for one full year from the date of purchase by the original purchaser. In case of defects in materials or workmanship, we will replace or repair the camera free of charge. This warranty applies to the camera only. This warranty does not include batteries, or other accessories which have not been manufactured by our company. This warranty will not be honored if the camera has been mishandled or tampered with, or altered by anyone other than the manufacturer. Other than for the warranty herein, we are not responsible for loss, damage, or inconvenience of any kind.

A defective camera being returned under warranty must be accompanied by a brief description of the difficulties encountered and also by a proof of purchase with the date of purchase clearly indicated. All related transportation costs and insurances are at the owner's expense. Any alteration of this warranty cannot be made without Pretec's written approval.

FCC Notice

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 commercial 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, detectable by turning the equipment in question 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 distance between the equipment and the receiver; Connect the equipment to an outlet on a different circuit than that which the receiver is connected to; Or consult the dealer or an experienced radio/TV technician for help.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

Contents

| | |
|--|----|
| Getting Started | 5 |
| What's Inside: | 5 |
| <i>System Requirements (Windows)</i> | 6 |
| <i>System Requirements (Macintosh)</i> | 6 |
| Getting to know the camera | 7 |
| Using the camera | 8 |
| Power Supply | 8 |
| Inserting Batteries | 8 |
| Flash Memory | 9 |
| Extended Flash Memory | 9 |
| Using AC Power | 10 |
| Auto Power Off | 10 |
| Taking Pictures | 11 |
| Using the LCD Display | 12 |
| Adjusting LCD Brightness | 13 |
| Viewing Pictures on the LCD | 13 |
| Viewing Thumbnails | 14 |
| Menu Mode | 15 |
| Erasing Pictures from Memory | 16 |

| | |
|--|----|
| Defining Picture Quality | 17 |
| Using the Flash | 17 |
| Using the Self-Timer | 18 |
| Memory Full | 18 |
| Connecting to Your Computer | 18 |
| The Digital Interface | 19 |
| Installing Capture Software | 20 |
| Appendix 1: LCD Icons | 21 |
| Appendix 1: Record Mode Icons | 21 |

Getting Started

Congratulations on purchasing your new Digital Camera. This camera is a state-of-the-art camera bringing to you the ease of use of traditional cameras combined with such high-tech functionality as full-color LCD (Liquid Crystal Display) photo previewing, allowing you to immediately see the pictures you have just taken; a built-in, non-expiring flash, up to 512k bytes or more of digital memory for storing your pictures; and an auto-flash sensor, which automatically detects whether the flash should be engaged or not while taking a photo.

Once you have finished taking your pictures, and have uploaded them to a computer, you can then use image editing software to enhance them before sending them off to print.

What's Inside:

- 1 Digital Camera
- Quickstart Guide
- Owner's Manual
- Two serial cables (one for the PC and one for Macintosh.)
- Image editing software

CD-ROM Contents

- Photo image editing software - allows you to quickly and easily touch up any photo captured with your camera.
- TWAIN Acquire module - lets you download pictures from all TWAIN-compliant devices straight into your computer.

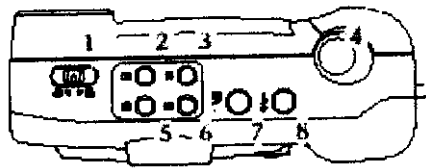
System Requirements (Windows)

- Personal computer with minimum 486, 33MHz processor
- Microsoft Windows operating system (version 3.1 and higher Windows95 ready)
- 8MB or more of RAM
- 30MB of hard disk space
- available serial port and CD-ROM drive
- color display (800x600 24-bit or higher recommended)

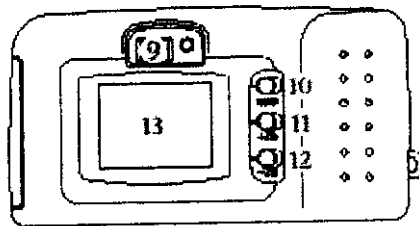
System Requirements (Macintosh)

- Power PC or above
- System 7.5 or higher
- 8MB or more of RAM
- 30MB of hard disk space
- available serial port and CD-ROM drive
- color display (800x600 24-bit or higher recommended)

Getting to know the camera



- | | | | |
|---|--------------------------|---|-------------|
| 1 | Macro/Normal Mode switch | 5 | Erase |
| 2 | Icon button | 6 | Menu |
| 3 | Multiple Display | 7 | Play/Record |
| 4 | Shutter Release | | |



- | | |
|----|--------------------|
| 8 | Power |
| 9 | View Finder |
| 10 | Display |
| 11 | Forward/Self-Timer |
| 12 | Backward/Flash |
| 13 | LCD Display |

Using the camera

Power Supply

This camera features a two-way power supply that lets you use either batteries (AA-size Alkaline) or a household AC current.

Inserting Batteries



Bottom view of the camera

- 1 Place your thumb on the battery door.
- 2 Slide the battery door away from the camera.



- 3 Insert the batteries as indicated on the inner side of the battery door.

Notes:

- If you are not going to be using the camera for an extended length of time, then you should remove the batteries to prevent leaks or corrosion.
- Never use manganese batteries.
- Never mix old and new batteries.

Battery Life Indicator

When the camera has sufficient power, the Low Power icon on the LCD display of the camera remains dark. When the power is low, the Low Power icon is visible to indicate that the batteries are weak and need to be replaced. Also, do not use the Flash or Auto-Flash features while battery power is low. Generally, once the Low Power icon comes on, 10 minutes of operation time is available. (When the batteries are completely dead, the camera will not turn on.)

Flash Memory

The camera features flash memory for storing image information. This memory does not require electrical power to function, so you will not lose any pictures you took when the camera is turned off or low on power. If the batteries go dead, simply insert a new set or connect the AC power supply and you will be able to retrieve and view the previously captured photos.

Extended Flash Memory

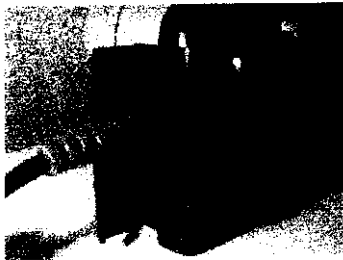
You can extend the capabilities of your camera by adding the Compact Flash Memory card accessory to it. This card is a removable ATA-compatible memory device that gives your camera additional memory. With 512K memory, for example, you can take 8 extra pictures in Normal mode, or 4 pictures in Fine mode. To insert the Compact Flash Memory card, open the card slot on the bottom of the camera and insert the card with the arrow on TOP and heading inward. Next, close the card slot cover and the camera memory is updated automatically. To remove the card, push the Eject key.



Using AC Power

To run the camera on standard AC power, use the 6.0V/2.5AC Adaptor.

- Always be sure to use the AC adaptor which comes with the camera. any other inappropriate adaptor may cause damage to the camera which is not covered under the warranty.
- Grasp the adaptor, not the cord, when unplugging the adapter from a wall socket.
- If the power cord becomes damaged (exposed wires, disconnection, etc.) please purchase a new AC adaptor. Use of a damaged cord may cause fire or electrical shock.
- Switch off the power to the AC adaptor before unplugging it from the wall socket.



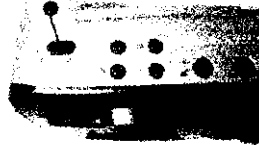
Auto Power Off

Power automatically turns off whenever you do not perform any camera operations for a specific interval of time. You can set the interval up to 99 minutes.

Taking Pictures



- 1 Turn the camera on by pressing the Power button. When the camera activates, you will see an image of the object that the camera lens is currently positioned toward.



- 2 Set the camera to Normal if the object or view is 40cm or more away from the camera, and to Macro if the object or view is between 10 and 30cm away. This is set using the Macro/Normal mode switch. Then press the Play/Rec button to set the camera to Recording mode.

*Note: Image Storage capacity is as follows:
With 512K memory, in Normal mode - 8 images; in Fine mode - 4 images*



- 3 Using the LCD display, or the viewfinder, compose your image. When you are ready, press the Shutter Release button.

- 4 The LCD screen pauses and in a few seconds a static copy of the image appears while the camera saves it to memory. Once the LCD resumes previewing, you can take another picture or switch to the **PLAY** mode to view the image you just recorded.

Using the LCD Display

Using the built-in Liquid Crystal Display (LCD), you can view pictures in a few seconds after capturing them. The following section describes how to use the LCD and its various functions.



Note: You need not activate the LCD to take pictures ñ however, using it while capturing shortens the lifespan of your batteries. The LCD is set to come on automatically in playback mode and it cannot be turned off via the Display button.

Note: To remove all icons from the LCD display, press the Icon mode button on top of the camera. Pressing it a second time returns all icons to the screen.

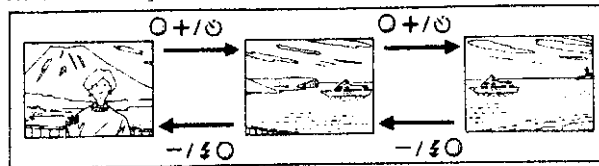
Adjusting LCD Brightness

The LCD display comes with the a brightness feature that allows you to change how images are displayed on the LCD screen. To turn the brightness of the LCD either up or down, turn the camera over so that the bottom side is facing up. In the center of the camera's bottom side is a radial dial. Turning the dial with your fingernail or a small coin adjusts the brightness up and down.

Viewing Pictures on the LCD

The Display button turns the LCD display on, allowing you to see each picture as it is taken.

- 1 After turning on the Power, press the Play/Record button to switch to the Play mode. The LCD display warms up and then displays the last picture taken. If there are no pictures in the camera, then a message displays informing you of this.
- 2 Press the Forward or Backward buttons to scroll through the pictures stored in memory.



- 3 Press the Display button again to turn off the LCD display.

Viewing Thumbnails

In addition to previewing single frames on the LCD screen, you can also view 9 thumbnail images of the pictures in the storage queue. This gives you the advantage of being able to see at once all the pictures you have already taken rather than having to scroll through them all one by one.

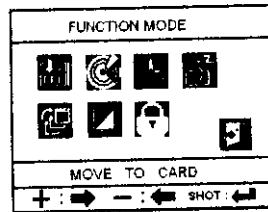
To view image thumbnails:

- 1 Press the Play button.
- 2 Next, press the Multiple Display button to enter the Thumbnail mode (if there are more pictures than thumbnails, use the Self/+ or Flash/- to scroll to the next or previous screens.)
- 3 Press the Multiple Display button again to exit Thumbnail mode.

Menu Mode

To enter the Menu Mode, press the Menu button and release it. The LCD image is replaced by the built-in functions menu containing options and features to set the camera status. To use the functions, simply select the one you want to engage with the Self/+ or Flash/- buttons, and then press the Shutter Release button.

The seven functions in Menu Mode are:



- **Move To Card** - saves the images in the additional memory card. Note that your pictures will not be saved to the built-in memory after you switch to the Move to Card mode. To make the best use of the camera, save the pictures to the built-in memory first then save to the additional card after the built-in memory is filled to capacity. For example, if your camera has 512K built-in memory and an additional 512K memory card, you can save 8 normal-mode pictures in the built-in memory and 8 extra normal-mode pictures in the memory card.
- **Format Storage** - erases all the image in the built Flash Memory and in the Memory Card. Before the erase procedure takes place, you will be asked to confirm it first. To erase the pictures in the Memory Card, you have to switch to the Move to Card mode first.
- **Set Date/Time** - allows you to set the time and date that appear on your pictures. Use the Shutter Release button to increase the number in the selected field, and the Self/+ or the Flash/- button to select a field. Selecting the OK option to accept the setting or the Exit to return to the main menu.

- **Auto Power Off** - allows you to set the interval for auto shut off. Press the Shutter Release button to increase the interval of shut off time. Selecting the OK option to accept the setting or the Exit to return to the main menu. Note that you can set the interval up to 99 minutes.
- **Auto Play** - defines the interval between images when viewing them on the LCD screen. Press the Shutter Release button to increase the auto play interval. Selecting the OK option to accept the setting or the Exit to return to the main menu. If no value is set then the images must be scrolled manually in Play mode using either the Self/+ or Flash/- buttons.
- **Image Quality** - toggles between Normal and Fine mode. With 512 K memory, Normal allows you to capture up to 8 images at standard compression, while Fine allows you to capture up to 4 uncompressed images. All images are captured at 640x480 monitor resolution.
- **Lock./Unlock** - allows you to lock the current image being displayed in the LCD so that it can not be erased. You can also unlock currently locked images.

Erasing Pictures from Memory

The Erase button allows you to remove any unwanted pictures from the memory. To remove pictures, please note that the LCD must be turned on.

- 1 After turning the camera on, press the Play/Record button to enter the PLAY mode.
- 2 To remove a picture, scroll to the picture then press the erase button a second time. A dialog asking you to confirm the deletion appears on the LCD. Press the Self/+ button for Yes and the Flash/- button for No. After erasing a picture, exit to the preview screen by pressing the Play/Record button again.
- 3 To erase all the pictures in memory, press the Menu button. When the options screen appears, cycle through them using the Self/+ button or the Flash/- button until you come to the Format Storage icon. Pressing the Shutter Release button reformats both the memory card and flash memory.

Defining Picture Quality

Your digital camera can take pictures at two different modes: Normal(compressed) and Fine(uncompressed). Both modes take pictures at 640*480 monitor resolution. Note, however, that your camera can only store 8 images in Normal mode or 4 images in Fine mode with 512K built-in flash memory.

To define your picture quality:

- 1 Click the Menu button to display the menu options in the LCD display.
- 2 Using the Self/+ or the Flash/- buttons, cycle through the options until you have selected the Quality icon.
- 3 Press the Shutter Release button to change the Quality setting.

Using the Flash

The digital camera has three different flash modes: Auto (the default mode), Fill, and Off. Each of these modes can be accessed via the Flash button on the backside of the camera.

- Auto - the camera automatically fires the flash when the brightness of the subject or scene is too low.
- Fill - fires the flash regardless of the brightness levels in the vicinity. However, the strength of the flash varies according to the ambient brightness of your surroundings, so the more light in the area, the lower the level of the flash.
- Off - the flash disengaged no matter what the ambient brightness of the surroundings is.

Using the Self-Timer

The Self-Timer is handy for creating a delay between the time you press the shutter and the time the picture is taken. You can activate the self-timer by pressing the Self/+ button at anytime in Recording mode. Once engaged, each time you press the shutter release button on top of the camera there is a 10 second delay; this delay is marked by flashing the Self-Timer LED once per second for seven seconds, then twice per second for the last three seconds.

Memory Full

Once you have taken the number of pictures allowed by the camera (for 512K flash memory, 8 in Normal mode or 4 in Fine, or high-resolution, mode), you must erase them before capturing new ones. To save pictures, transfer them from the DC-600 camera to your computer via the appropriate cable (PC or MAC) and the COM port on your computer.

When your camera memory is full, the green memory light will flash every one second. Also, the LCD screen displays a MEMORY FULL message.

Connecting to Your Computer

- 1 Plug one end of the serial cable into the printer or modem port (on a Macintosh) or a COM port (on a PC). These ports are located at the back of your computer.



PC

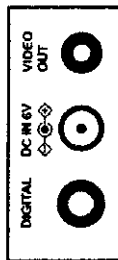


MAC

- 2 Connect the other end of the serial cable to the camera.
- 3 Turn on your camera.

The Digital Interface

The digital camera is capable of two types of output: to video, or to a personal computer. On the left side of the camera are three ports: video output, digital output, and Power Supply.



The video output connector allows you transmit stored images (640x480 in size) or live video to a standard television set. When the LCD monitor is off, the camera cannot output via this port. To transmit stored images to your television or VCR, simply attach one end of a Video line to the video port of the digital camera, and the other end to the Video port on the television or VCR.

To download images to your computer, you need to attach the digital cable to the digital port below the video port, and the other end of the cable to the back of your computer. Once both ends are properly attached, use the software included with this camera to capture the queued images stored within it to your computer's hard disk, where you can later print them out or edit them in imaging software.

The camera's digital output connector can be set to transmit data at varying baud rates, depending upon the capabilities of your computer. If the camera, while attached to your computer, remains inactive for a given length of time, it shuts down automatically.





















Installing capture software

Once you have got your camera connected to your computer, the next step is to transfer the pictures contained in the camera memory to your computer's hard disk. However, this cannot be accomplished until you first install the appropriate capture drivers and software.

- 1 Insert the CD-ROM disc into your CD-ROM drive.
- 2 If you are in Windows95, select the Run command from the Start menu. When the Run dialog box opens, type **E:\setup** in the entry line and click OK, where E is the drive letter of your CD-ROM drive. If you are on a Macintosh, double-click the installer icon.
- 3 The setup program begins. Simply follow the on-screen instructions to complete the installation.

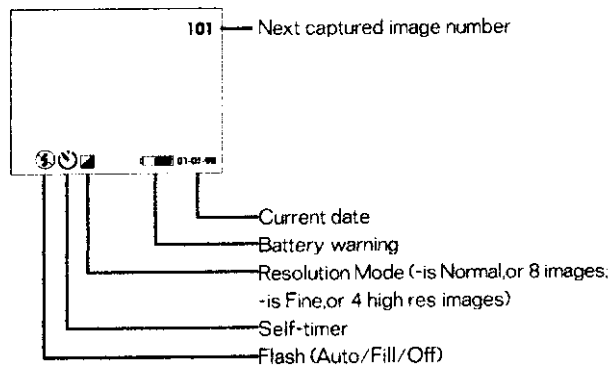
Appendix 1: LCD Icons

Here's a summary of all the icons found in the LCD screen of the digital camera, and what they mean.

| | | | |
|---|-------------------------------|---|------------------------------------|
|  | Fill Flash |  | Copy images to memory card |
|  | No Flash |  | Erase all image in camera memory |
|  | Auto Flash |  | Erase one image from camera memory |
|  | Self-Timer on |  | Set time and date |
|  | Full battery power |  | Set auto shut off |
|  | Half battery power |  | Set auto play |
|  | Low battery power |  | Exit |
|  | Locked file (can't be erased) |  | Confirm |
|  | Fine Quality mode |  | Save to Build-in Memory |
|  | Normal Quality mode |  | Save to Compact Flash Card |

Appendix 2: Record Mode Icons

Here's a quick run-down of the icons found in the LCD display screen during Recording:




Specifications

| | |
|--------------------------|---|
| Image Sensor: | 1/4" CCD, with 350,000 pixels |
| LCD Display: | 1.8" color display with 15 image/sec for movie-like display |
| Image Resolution: | 640 x 480 pixels |
| Color: | 24-bit (16.7 million colors) |
| Memory: | 512 KB internal flash memory |
| Storage: | min. 8 pictures with JPEG data compression |
| Lens: | Normal:0.5 m-infinity, Macro:20 cm (15-30 cm) |
| Aperture Ratio: | F 4.0 |
| Built-in Flash: | Automatic, fill, off |
| Shutter Speed: | 1/30~1/10000 sec (Auto) |
| Connectors: | AC adaptor, RS232 serial connector, NTSC video output |
| Weight: | 0.67 lbs (with battery) |
| Dimensions: | (W)1.9" x (L)5.1" x (H)2.7" |
| Additional: | Compact flash card slot |

Design and specifications are subject to change without notice

Operation Guide for Pretec FotoPrint

1. Setting up the printer type


Press the  button on the FotoPrint to select a printer. When pressing the button, the printer type will be shown on the digital camera's LCD display. Press the button several times to switch among different printer types. Wait for 3 seconds when the desired printer type is shown on the LCD display.

Note: FotoPrint supports three kinds of printer, HP PCL/5, Epson ESC/P2, and Canon BJC series


2. Selecting a picture

When the digital camera is connected to FotoPrint, the LCD display shows the first picture stored in the camera. Press the "+" or "-" key to select the desired picture.


3. Printing the picture(s)

Select a printout size before printing the pictures. There are two sizes available, 2"X 1" and 4"X 3". Press the  key to select the desired size. Be sure to leave 3 seconds for saving the selection.




3-1 Printing one picture


Press the  button to print the picture shown on the LCD display.

3-2 Printing multiple

pictures Press the  key to print the pictures shown one the LCD display.

4. LED indicator

-  Power: Indicates if FotoPrint is turned on
-  Printer: Indicates if connected printer is ready to print
-  Process : Indicates if FotoPrint is getting pictures from the camera

Note: To interrupt the printing process or reset the settings, simply press  the button.