

UMAX[®]

DIGITAL CAMERA

AstraPix 490



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10460 Brockwood - Dallas, TX 75238
<http://www.umax.com/index.jsp?worldwide=usa>

OPERATING MANUAL

Thanks for purchasing this high-quality Digital Still Camera!

This unit allows you to easily create an electronic album. Please read this manual carefully so as to enjoy all its features.

Read thoroughly the Safety Precautions. They contain extremely important information regarding the safe use of this product.

For information on installing and operating the included application software, please read the software instructions. Do not hesitate to contact our service facility for upgraded information for your future use.

Introduction

Unpacking

First check and identify the contents of your Digital Still Camera package, as below:



Camera case



Digital Camera



Driver disc



USB cable



Earphone



Battery

Optional fittings



CF card



Adapter

Safety Precautions

CAUTION: To prevent fire or risk of electrical shock, do not expose this unit to rain or excessive moisture.

WARNING: To prevent electrical shock, do not attempt to modify this unit in any way. No user serviceable parts inside. Refer servicing to qualified personnel.

When using the flash do not use this unit too close to your subject, as this can cause damage to the eyes.

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 Rule. Operation is subject to the following two conditions:

- A. This device may not cause harmful interference.
- B. This device must accept any interference received, including interference that may cause undesired operation.

OPERATING CONDITIONS:

- . This camera is neither waterproof nor splash-proof.
Do not use the camera if any water has entered the camera. Switch the camera off, and then disconnect the power source (batteries or AC Power Adapter). If you are using the AC Power Adapter, unplug the adapter from the AC Power wall socket after you have disconnected the camera. Then contact your dealer. Do not continue to use it, as this may cause a fire or electrical shock.
- . Do not leave the unit where it may be extremely hot or humid (direct sunlight).

CARRYING YOUR CAMERA:

- . When carrying be sure to always attach and use the hand strap provided. Hold the camera firmly in your hand ,with the strap securely around your wrist.
- . Never point the lens at direct sunlight, CMOS damage may occur.

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Quick Start Guide

HOOKUP



Connect to a printer or PC using USB cable



Use DC adapter (optional) to power the unit

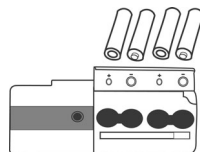


Connect to a TV or an earphone

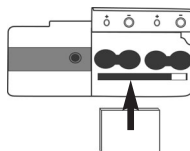
Quick Start Guide

PREPARATION (refer to page 18-20)

1. Insert the batteries or use the DC adapter (optional) to power the camera.



2. Insert the Compact Flash card (optional).



RECORDING (refer to page 23-45)

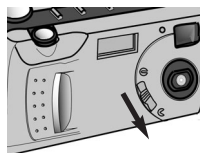
1. Turn the function dial to .

.The camera will turn on and be set to record mode.



2. Open the lens cover.

.The live view will appear on the LCD monitor.



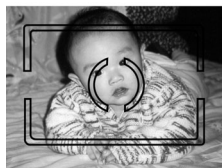
3. Press the DISP/ENTER/REP button to turn on/off the LCD monitor.



Quick Start Guide

4. Frame your subject on the LCD monitor or viewfinder.

.Compose the image and make sure it is clear.



5. Press the shutter-release button to take the pictures.

. The red lamp flashes slowly while the image is being stored into the memory.

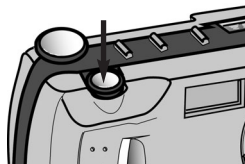
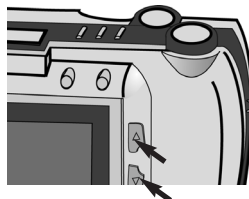


IMAGE PLAYBACK (refer to page 46-56)

1. Turn the function dial to .



2. Use the LT/RT or UP/DN buttons to scroll through the images.

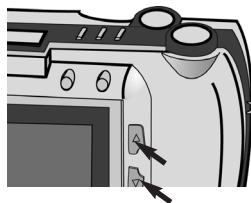


DELETING IMAGES (refer to page 52-53)

1. Turn the Function dial to .



2. Press LT/RT or UP/DN to highlight the image you want to delete.

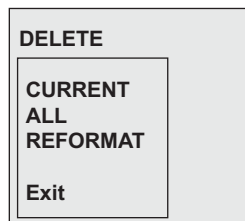


3. Press MENU/STOP to access to the menu.



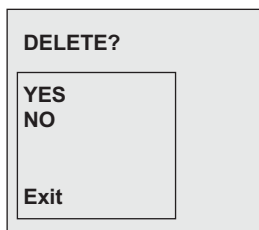
4. Highlight the delete icon  and enter it.

- Select CURRENT to delete the current photo or ALL to delete all photoes including the memo. Select REFORMAT to delete all photos and MP3 files.



5. Press the DISP/ENTER/REP button again.

- A confirmation screen will appear.



6. Press the UP/DN to select "YES", and enter it.

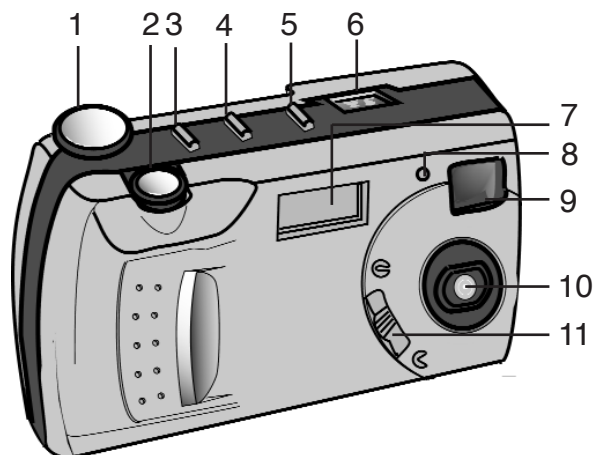
- The LCD monitor returns to the next image after deleting it.

NOTICE:

When opening the menu or pressing the direction buttons, a description of the icon highlighted will appear in the bottom left of TFT LCD.

Identification of Controls

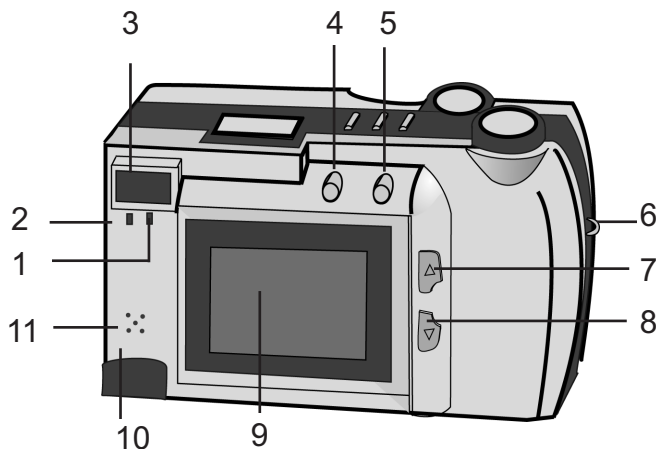
CAMERA BODY



- | | |
|------------------------|--------------------------|
| 1. Function dial | 7. Flash lamp |
| 2. Shutter/Play/Pause | 8. Self-timer lamp (Red) |
| 3. NQ (Normal Quality) | 9. Viewfinder window |
| 4. Flash | 10. Lens |
| 5. Mode | 11. Lens cover slide |
| 6. Status LCD | |

Identification of Controls

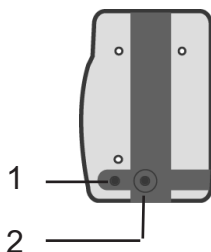
CAMERA BODY



- | | |
|-------------------------|-------------------|
| 1. Orange LED indicator | 7. LT/RT |
| 2. Green LED indicator | 8. Up/DN |
| 3. Viewfinder | 9. LCD monitor |
| 4. MENU/STOP | 10. USB interface |
| 5. DISP/ENTER/REP | 11. MIC |
| 6. Strap eyelet | |

Identification of Controls

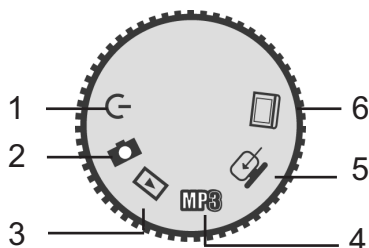
CAMERA BODY



1. TV/Phones

2. DC in 6v

Indications of Function Dial & Status LCD



1. Power

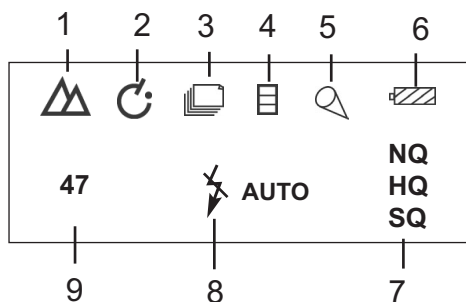
2. Record

3. Playback

4. MP3 playback

5. Software/Download

6. TV output



1. Snapshot

2. Self-timer

3. Sequence

4. Video clip

5. Audio memo

6. Battery Power Level

7. Image quality

8. Flash lamp

9. Recordable
image no.

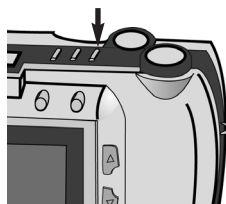
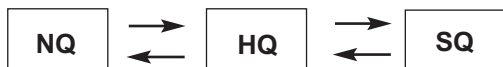
IMAGE QUALITY

When the camera is turned on, the default image quality settings will be used. This default settings can be changed manually.

The number of images stored depends on the image quality level used: High Quality (HQ), Normal Quality (NQ) or Super Quality (SQ).

MODE	COMPRESSION RATE
Super Quality	1:4
High Quality	1:8
Normal Quality	1:16




In the Capture mode, each time you press the NQ button, the quality mode changes, which is shown on the status LCD:



This function is not available in Audio Memo and Video Clip.

BUILT-IN FLASH LAMP

When the camera is turned on, the default setting of flash mode is 'No Flash'. The other flash modes can be set by using the Flash button. Press this button to toggle between the three flash modes.

	AUTOFLASH	In autoflash ,the flash will fire automatically when the light level is low or your subject is backlit.
	NO FLASH	Use flash cancel when photographing subjects that are beyond the flash range or when flash photography is prohibited.
	FORCED-FLASH	The flash will fire every time a picture is taken, regardless of lighting. Use forced-flash to reduce harsh shadows on your subject's face.

CHANGING THE FLASH MODE

1. In Record mode, press the Flash button.

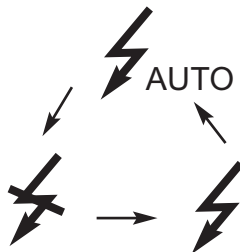
.The currently set flash mode appears on the status LCD.



2. Repeatedly press the button.

.The flash mode on the status LCD changes in cycle.

.Select the mode you desired.



NOTICE:

The default setting is No flash. Under the capture mode of the sequence or video clip, the flash cannot be set up.

Indicator Light

There are three indicator lights on this unit:

1. Green light

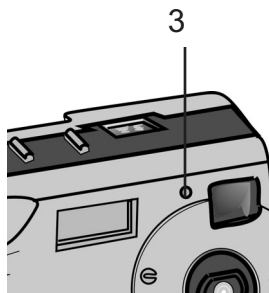
. When it flashes, this indicates the camera is being charged.

. When it glows, this indicates the next operation can be done.



2. Orange light

. When the system is “busy”, it will flash, it is suggested that the next operation should not be done.



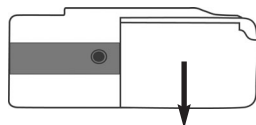
3. Red light

.When Self-timer is selected, it will flash.

INSERTING THE BATTERIES

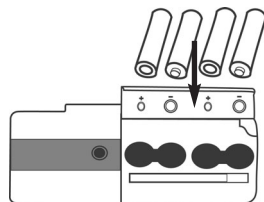
1. Open the battery cover.

.Slide the cover in the direction of the arrow and fold it up to open it.



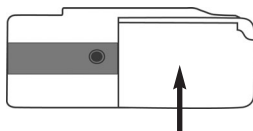
2. Insert the batteries

.Match the batteries to the polarity indicated on the back of the cover.



3. Close the cassette cover.

.While pulling up the cover slightly, fold it down and slide it back until it clicks.



NOTICE:

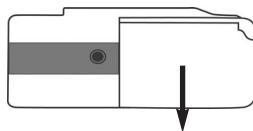
Make sure the unit is turned off before removing the batteries.

INSERTING THE COMPACT FLASH CARD

You may use a compact flash card for image storage before capturing images.

1. Open the battery cover.

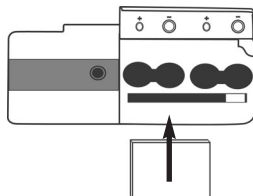
.Slide the cover in the direction of the arrow and fold it up to open it.



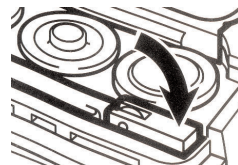
2. Insert the compact flash card into the card slot, pushing it until the card-release lever pops out.

.Push the card in straight, not at an angle.

.If the card stops mid-way, confirm the direction of the card, never apply force.

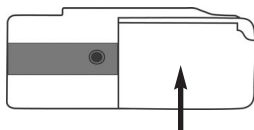


3. Fold the card-release lever down.



4. Close the battery cover.

.While pulling up the cover slightly, fold it down and slide it back until it clicks.



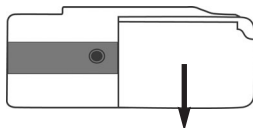
NOTICE:

Make sure the unit is turned off before removing the compact flash card.

REMOVING THE COMPACT FLASH CARD

1. Open the battery cover.

.Slide the cover in the direction of the arrow and fold it up to open it.

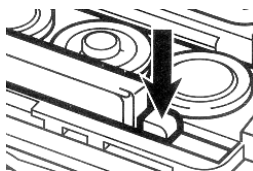


2. Lift the card-release lever until it is straight out.



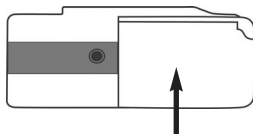
3. Press the card-release lever to eject the card.

.When the card is ejected, pull it straight out.



4. Close the battery cover.

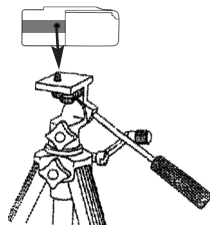
.While pulling up the cover slightly, fold it down and slide it back until it clicks.



TRIPOD MOUNTING

1. Align and tighten

.Align the screw on the tripod with the camera's mounting socket, then tighten the screw.




NOTICE:

.When using a tripod ,be sure to open and extend its legs fully to stabilize the camera .

BASIC RECORDING OPERATION (SNAPSHOT)

1. Turn the function dial to .

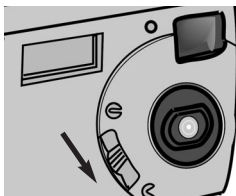
.Status LCD is lit up.

.The default capture mode is  (snapshot).



2. Move the lens cover slide to open the lens cover.

.The live view will appear on the LCD monitor.

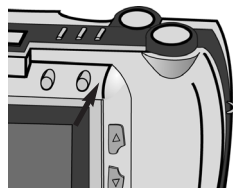


3. Press the DISP/ENTER/REP button to turn off the LCD monitor.

. Press it again to switch on.

. If connected to TV, both preview and capture can be operated by TV.

. The LCD monitor will switch off automatically if no used for a period of 1 minute or more.



NOTICE:

.Before recording you may reset each parameter such as flash light (page 15,16), image quality (page 43), digital zoom (page 32) from the Record Mode Menu.

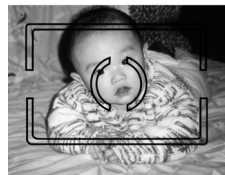
BASIC RECORDING OPERATION (SNAPSHOT)

4. Center the subject in the LCD monitor or place the viewfinder's focus frame on the subject.

.When holding the camera, make sure your fingers do not cover the lens.

.Adjust the distance between camera and the subject.

Make sure the image in TFT LCD is clear.



5. Press the shutter-release button to take the pictures.

. In snapshot mode, no flash, auto exposure and auto white balance are default settings.

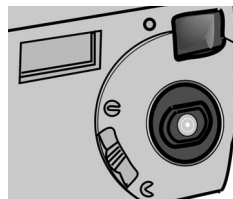
. The number of remaining images to be taken decreases 1 automatically.

If the lens cover isn't open, the buzzer will alarm 3 times or "PLEASE UNCOVER LENS" will appear on TFT LCD.



6. Move the lens cover slide to close the lens.

7. Turn the function dial to to turn off the camera.



Taking Pictures

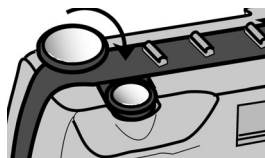
SELF-TIMER

The self-timer will delay for capturing approximately 10 seconds after you press the shutter-release button.

1. Turn the function dial to

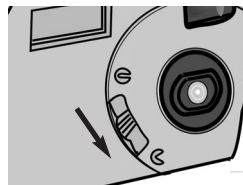
.Capture mode is set.

.Status LCD is lit up.



2. Move the lens cover slide to open the lens.

.The live view will appear on the LCD monitor.

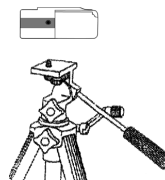


3. Press the DISP/ENTER/REP button to turn on the LCD monitor.


.Press it again to switch off.



4. You can use a tripod to support the camera.

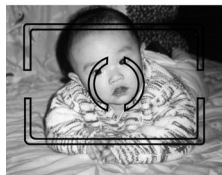


Taking Pictures

5. Press the Mode button till the timer icon  is displayed on the status LCD.

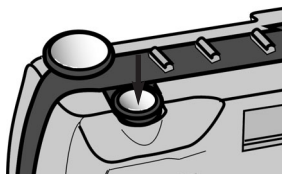


6. Arrange the camera and subject position, and compose your picture.



7. Press the shutter-release button down to start timer.

. The camera will take pictures automatically in about 10 seconds.



Taking Pictures

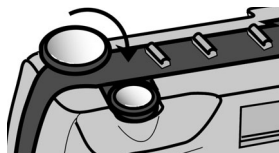
SEQUENCE IMAGE CAPTURE

This digital camera will continuously take 5 pictures while the shutter-release button is pressed once. There is no flash.

1. Turn the function dial to

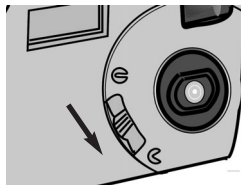
.Capture mode is set.

.Status LCD is lit up.



2. Move the lens cover slide to open the lens.

.The live view will appear on the LCD monitor.



3. Press the DISP/ENTER/REP button to turn on the LCD monitor.

.Press it again to switch off.

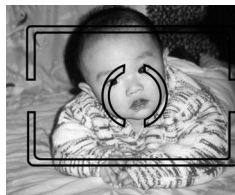


4. Press the Mode button till the sequence icon is displayed on the status LCD.



SEQUENCE IMAGE CAPTURE

5. Arrange the camera and subject position, and compose your picture.



6. Press the shutter-release button.

.The unit starts sequence image capture with the orange light flashing.

.When the flashing light is switched to the green light, TFT will return to the preview status, the capture is over.

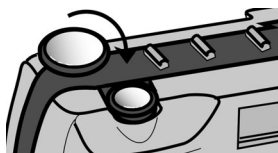


VIDEO CLIP CAPTURE

1. Turn the function dial to 

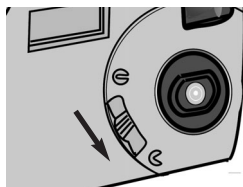
.Capture mode is set.

.Status LCD is lit up.



2. Move the lens cover slide to open the lens.

.The live view will appear on the LCD monitor.



3. Press the DISP/ENTER/REP button to turn on the LCD monitor.

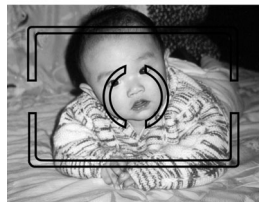
.Press it again to switch off.



4. Press the Mode button till the Video Clip icon  is displayed on the status LCD.



5. Arrange the camera and subject position, and compose your picture.



6. Press the shutter-release button to take a continuous video clip and press it again to stop recording.



.The length of the video clip is determined by the memory space.

.This unit can record voice simultaneously.

AUDIO MEMO

The Audio Memo recorded is attached and referenced to the last image taken. It is possible to record a 7-second audio memo of the picture taken (except for video clip).

1. Turn the function dial to


.Capture mode is set.

.Status LCD is lit up.



2. Repeatedly press the Mode button till the audio memo icon appears on the LCD monitor.

.The captured image displays on TFT LCD.

The icon  appears on the up-left corner of TFT LCD.



3. Press the shutter-release button to start recording.

.The orange light blinks till the recording is over.

."Audio Recording ..." shows on TFT LCD till the recording is over.

.When recording again, the last recording will be recovered.

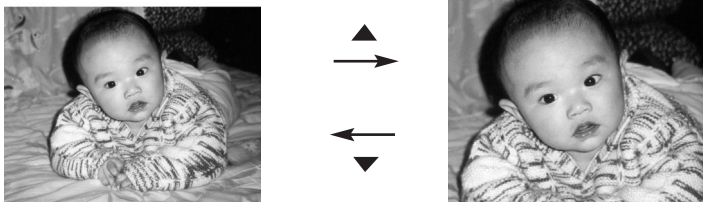


Taking Pictures

DIGITAL ZOOM

The digital zoom will increase the magnification of the live image on the LCD monitor. In order to record a far object more vividly, use the digital zoom to preview before capturing image or recording a clip. The digital zoom has 12 levels. When you press the direction buttons, the live view will move glossily on the LCD monitor.

Press the UP button, the zoom is in, and press the DN, the zoom is out.

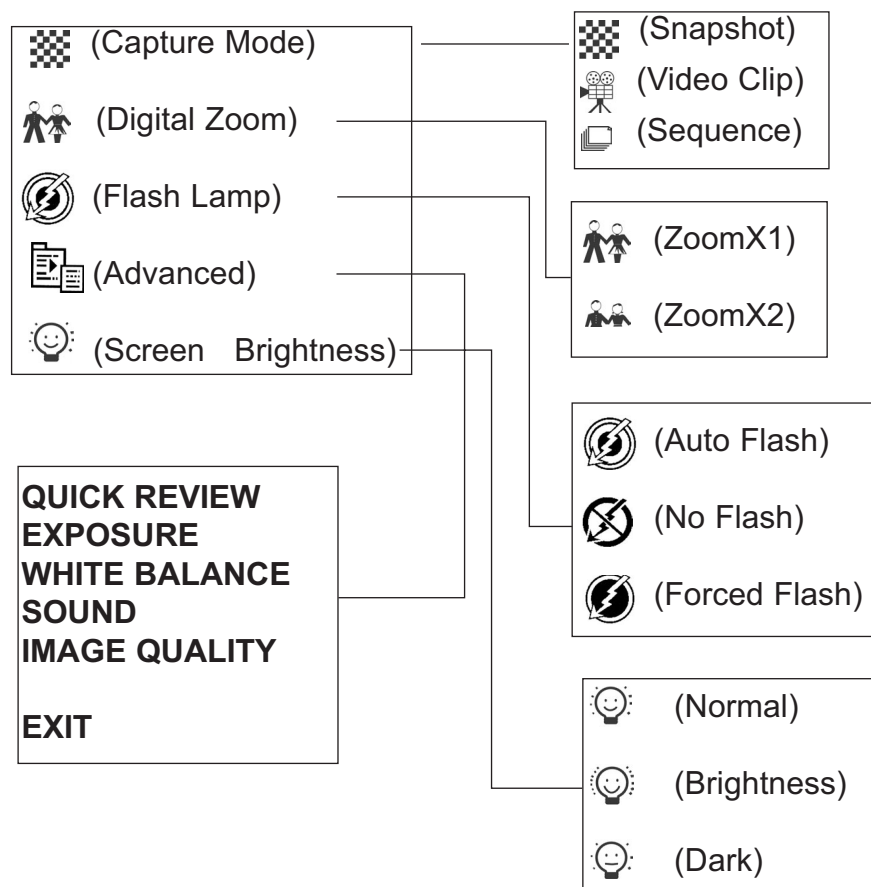


.The zoom magnification change is visible on the LCD but invisible in the viewfinder. You should use the LCD monitor to compose your picture.

Record Mode Menu

RECORD MENU SETUP

The Record Mode Menu allows you to change the default settings for image capturing such as digital zoom, white balance, sound and so on.



Record Mode Menu

HOW TO DISPLAY RECORD MENU

1. Turn the function dial to

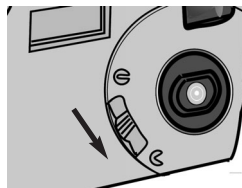
.Capture mode is set.

.Status LCD is lit up.



2. Move the lens cover slide to open the lens.

.The live view will appear on the LCD monitor.



3. Press the DISP/ENTER/REP button to turn on the TFT LCD.

.Press it again to switch off.

.If TFT LCD is off, when connected to TV, it can be displayed by TV.



4. Press the MENU/STOP button.

.Press it again to switch off.

.The menu can be displayed on TV or TFT LCD.



Record Mode Menu

SELECTING CAPTURE MODE

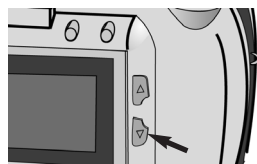
On the menu, there are three capture modes available: snapshot, video clip and sequence.

1. In Record Mode, press the MENU/STOP button.

- . The menu will appear.
- . The default setting is Snapshot.

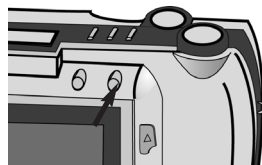


2. Press the UP/DN button to select the other modes.



3. Press the DISP/ENTER/REP button to confirm it and return to the live view.

- . The capture mode selected displays on TFT LCD and Status LCD.



Record Mode Menu

DIGITAL ZOOM X 2

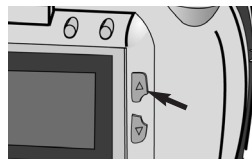
Zoomx2 selected makes the subject closer, and makes the number of recordable images increase.

1. In Record Mode, press the menu/Stop button.

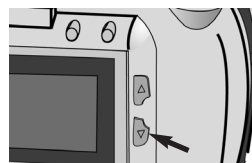
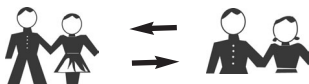
- The menu will appear.



2. Press the LT/RT button to select

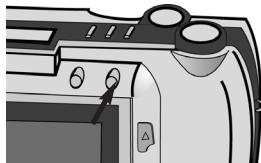


3. Press the UP/DN button to display the submenu and select the item.



4. Press the DISP/ENTER/REP button to confirm it.

- The LCD monitor returns to the live view with digital zoom selected.



Record Mode Menu

FLASH MODE

You can select flash mode according to the environment and requirement, the default setting is Auto Flash.

1. In Record Mode, press the menu/Stop button.

- The menu will appear.

2. Press the LT/RT button to select

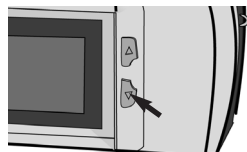
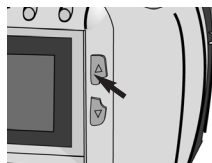


3. Press the UP/DN button to display the submenu and select the item.



4. Press the DISP/ENTER/REP button to confirm.

- The flash mode selected displays on Status LCD.




Record Mode Menu

FLASH MODE

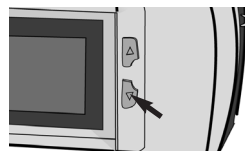
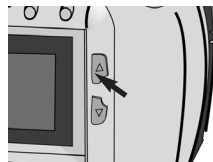
This setup is recommended for photographers who have some professional knowledge.

1. In Record Mode, press the menu/Stop button.

- The menu will appear.

2. Press the LT/RT button to select  .

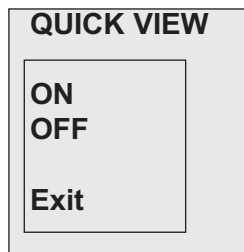
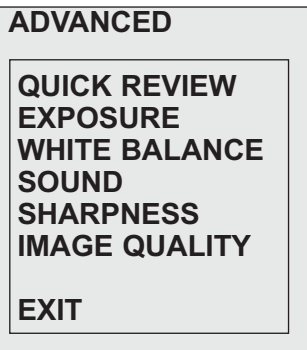
3. Press the UP/DN button for access to the submenu and also use it to make a selection.



QUICK VIEW

1. In the advanced menu, select Quick Review.

- A sub-menu appears.



Record Mode Menu

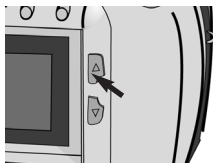
2. Press the DISP/ENTER/REP button to select the item desired.

- A sub-menu appears.

On: It will ask you: Continue or delete?

If Continue is selected, it will return to viewfinder mode with the captured image saved.

If [] is selected, it will return to viewfinder mode with the captured image deleted.



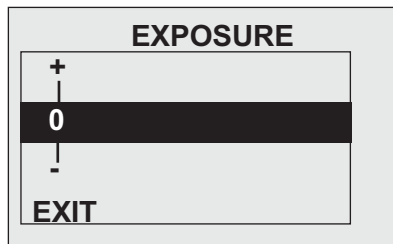
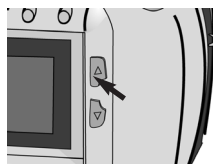
EXPOSURE

Besides auto exposure, the level also can be adjusted manually by Exposure Compensation Function.

1. In the advanced menu, select Exposure.

2. Press the DISP/ENTER/REP button to display the sub-menu.

3. Press UP/DN to adjust the level.



Record Mode Menu

4. Press **DISP/ENTER/REP** to confirm, and return to the upper menu.



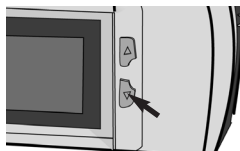
WHITE BALANCE

White balance function is to make different types of lighting more neutral, that is like selecting daylight film or tungsten film. The default setting is automatic.

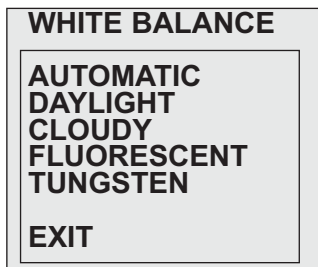
1. In the advanced menu, select White Balance.



2. Press the **DISP/ENTER/REP** button to display the sub-menu.



3. Press **UP/DN** to select the item desired.



4. Press **DISP/ENTER/REP** to confirm, and return to the upper menu.



Record Mode Menu

SOUND

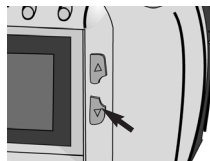
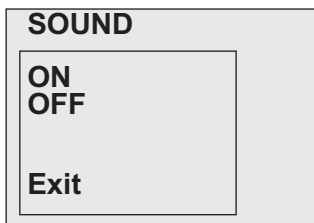
Audio indication allows you to see each step processing or ready to process.

1. In the advanced menu, select Sound.



2. Press the DISP/ENTER/REP button to display the sub-menu.

3. Press UP/DN to select the item desired.

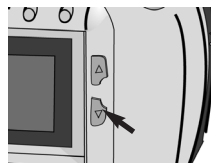
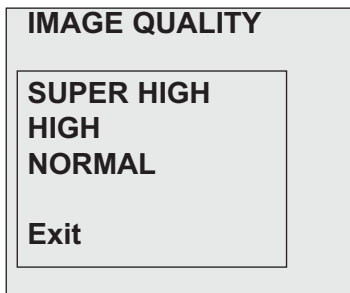


4. Press DISP/ENTER/REP to confirm, and return to the upper menu.

Record Mode Menu

IMAGE QUALITY

1. In the advanced menu, select Image Quality.
2. Press the DISP/ENTER/REP button to display the sub-menu.
3. Press UP/DN to select the item desired.



4. Press DISP/ENTER/REP to confirm it, and return to the upper menu.
Status LCD displays the corresponding image quality, and recordable image no. under it.

Record Mode Menu

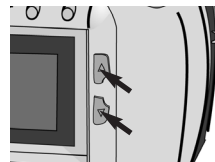
ADJUSTING SCREEN BRIGHTNESS

Reset the screen brightness before recording to moderate the too dark or too bright light.

1. Press **MENU/STOP** to access the menu.



2. Press **LT/RT** to select .



3. Press **UP/DN** to select the item desired.



Normal

Brightness

Dark

4. Press **DISP/ENTER/REP** to confirm it, and return to the live view.



Playback Mode


SINGLE-FRAME PLAYBACK

Images shot with the camera are automatically numbered, then stored into the built-in memory or CF card. You can view the stored images one by one just as reading the album.

capture mode —

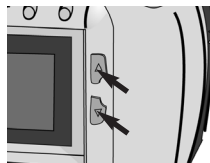


series/total no. — 0005/0012


1. Turn the Function dial to  .
The last image shows on TFT LCD.



2. Press LT/RT or UP/DN to scroll up or down the images stored.



PLAYBACK AN IMAGE WITH AUDIO MEMO

When you view images by pressing the UP/DN button, if an image is attached with the icon  on top left corner of the LCD monitor, that indicates it is an image with audio memo.




Press the Shutter/Play/Pause button to playback the audio memo, meanwhile, you may use earphone to listen to it.



- The words "THUMBNAIL DESPLAY..."shows on the LCD monitor till it is over.

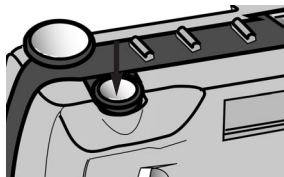


PLAYBACK A VIDEO CLIP

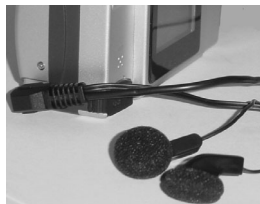
When you view images by pressing the UP/DN button, if an image is attached with the icon  on top left corner of the LCD monitor, that indicates it is a video clip.

1. Press the Shutter/Play/Pause button.

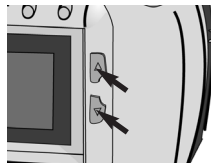
- The video clip starts to play, meanwhile, you may use earphone to listen to it.



2. Press the Shuttle/Play/Pause button again. The clip will pause, and resume to continue by pressing it again.



3. During the video clip playback, use the direction buttons to switch to the previous or next photo, while the clip playback is stopped.



Playback Mode

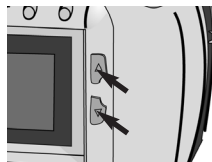
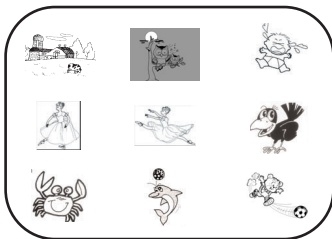
PLAYBACK A VIDEO CLIP

1. Turn the Function dial to  .



2. Press MENU/STOP to access the display menu.

3. Use the UP/DN button to highlight the icon  .



4. Press DISP/ENTER/REP to confirm your selection.

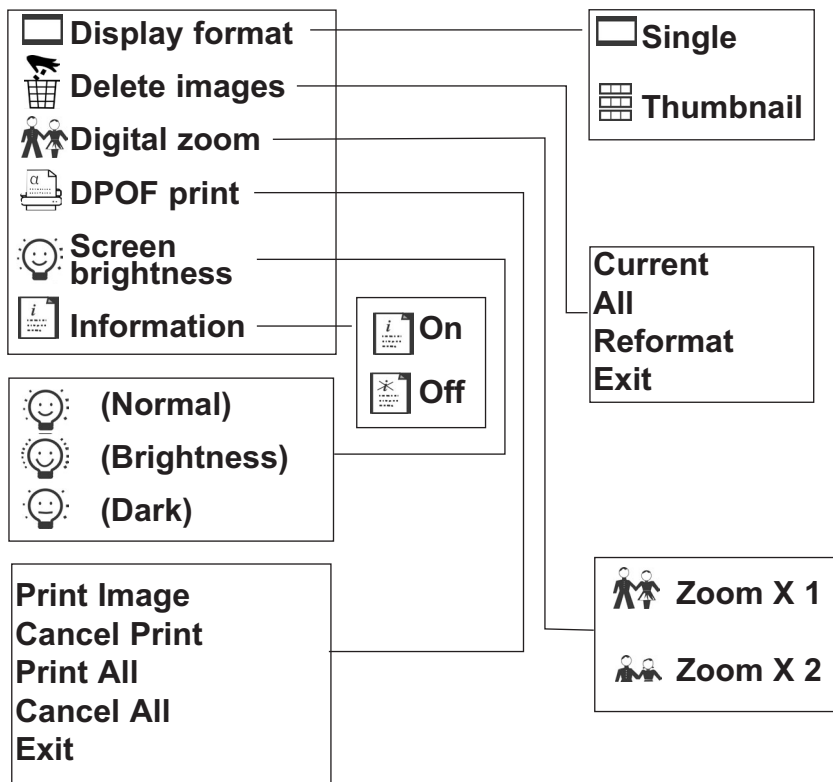


Playback Mode

The Playback Mode Menu allows you to easily access to each setting menu such as display format, delete images, digital zoom, print and so on.



PLAYBACK MODE SETUP



Playback Mode Menu

DISPLAY FORMAT

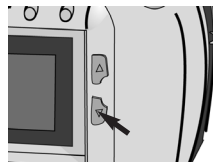
1. In playback mode, press MENU/STOP to access to the menu.

- Press it again to exit.



2. Press UP/DN to access to the sub-menu, and select the item desired.

- The default setting is Single.
- To switch to other items, press UP/DN.



3. Press DISP/ENTER/REP to confirm your selection.



Playback Mode Menu

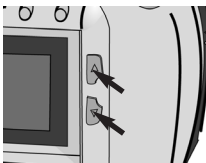
If you aren't satisfied with any image captured, it allows you to delete it to save storage room.

1. Turn the Function dial to  .



2. Press LT/RT or UP/DN to highlight the image you want to delete.

• It is available in both playback modes (single & thumbnail).

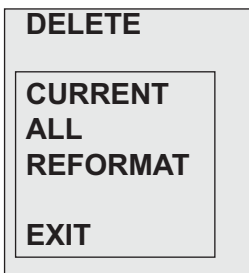


3. Press MENU/STOP to access the delete menu.



4. Highlight the single icon  .

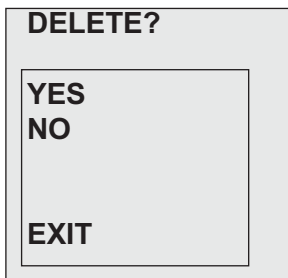
• Select CURRENT to delete the current photo or ALL to delete all photos including the memo. Select REFORMAT to delete all photos and mp3 files.



Playback Mode Menu

5. Press the DISP/ENTER/REP button again.

- A confirmation screen will appear.



6. Press the UP/DN to select "YES", and enter it.

The LCD monitor returns to the next image after deleting it.

Playback Mode Menu

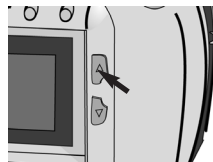
DIGITAL ZOOM X 2

1. In playback mode, images can be displayed on full screen.



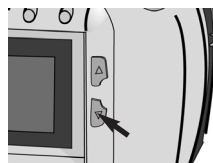
2. Press MENU/STOP to access to the menu.

3. Press LT/RT to select  .



4. Press UP/DN to select the item desired.

• To switch to other items, press LT/RT.

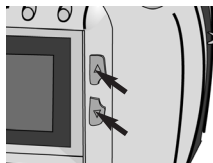


5. Press DISP/ENTER/REP to confirm your selection.



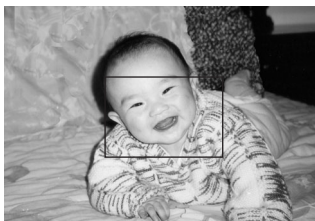
Playback Mode Menu

The image is displayed full screen with a selected portion of the image. You can use UP/DN or LT/RT to scroll around the zoomed in image.



6. If  is selected, press **DISP/ENTER/REP**, the portion will zoom into full screen.

- Press it again to return.



Playback Mode Menu

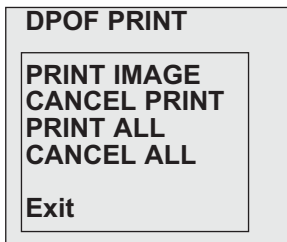
DPOF PRINT

1. In playback mode, press the MENU/STOP button.

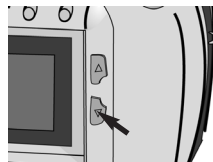
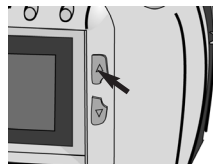
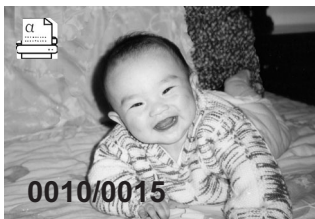
2. Press the Lt/Rt button to highlight the Print icon.



3. Press the UP/DN button to select the item desired.



4. Press the Display/Enter/Rep button to confirm your selection.



SCREEN BRIGHTNESS

Reset the screen brightness to moderate the too dark or too bright light.

1. Press **MENU/STOP** to access to the menu.

2. Press **LT/RT** to select .

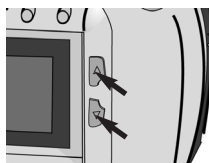
3. Press **UP/DN** to select the item desired.



Normal

Brightness

Dark



4. Press **DISP/ENTER/REP** to confirm it, and return to the preview status.

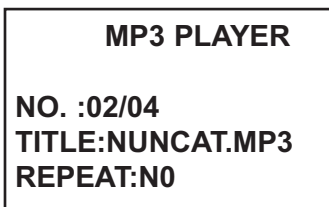


MP3 Playback

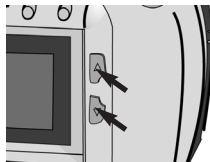
This camera allows you to enjoy MP3 stereo, it reads MP3 files, which is downloaded from PC, from CF card. It is needed to use drive software "Mass Storage".

1. Turn the function dial to MP3 .

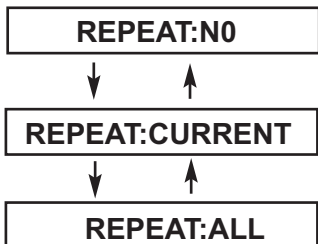
- TFT LCD will be lit automatically, and MP3 menu appears.



2. Press LT/RT or UP/DN to select a song.

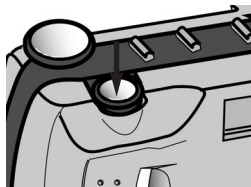


3. Press DISP/ENTER/REP to select one repeat mode:



4. Press Shutter/Play/Pause to start playing back songs selected.

- TFT LCD switches off automatically.
- The volume can be adjusted by pressing LT/RT or UP/DN.
- Press Shutter/Play/Pause to pause playback.



5. Press MENU/STOP to stop playback.

- TFT LCD switches on, and MP3 menu appears.
- When you do not want to listen any longer, turn function dial to G , power off.



System Requirements

BASIC SYSTEM REQUIREMENTS

- Intel pentium processor or higher and the corresponding AMD compatible computers.
- window:98/2000/ME/XP
- CD-ROM drive, audio drive, speakers
- 32MB SDRAM
- 140MB hard disk space
- USB interface
- 16-bit color display adapter
- monitor record mode 800x600
(24-bit color display adapter, true color display recommended)

CD-ROM SOFTWARE ATTACHED

1. Umax AstraPix 490 DSC USB driver

This is an image-downloading drive program to download still images such as that of Microsoft windows, Adobe photoshop series as well as image processing software of CD-ROM attached (photo manager).

2. Umax AstraPix 490 DSC USB Mass Storage Class Adapter

Connect this camera to PC by USB cable. With this drive program and the external CF card, images can be transmitted to PC.

3. Thalia photo manager

This is a software for image downloading and processing, which is suitable for Windows98/2000/ME operation system.

Software Installation

OPERATION SYSTEM

To download still images, it is necessary to install DSC USB driver. If you want to download video clip or audio memo, drive program of DSC USB Mass Storage Class Adapter is needed. Refer to the software instruction for details of image processing.

DSC USB DRIVER

1. Turn function dial to  .

- Drive Type menu appears.



2. Press UP/DN to select drive type WDM.

3. Connect USB cable to USB port of PC.



4. Connect the other end of USB cable to that of the unit.



Software Installation

5. Press DISP/ENTER/REP to confirm it.

- On PC monitor, the message "Add New Hardware" appears, press "Next".



6. Select "Search the latest drive program", press "Next".

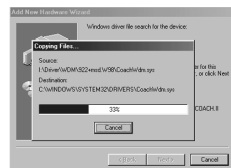


7. Insert the disc, select "Search CD-ROM drive", press "Next".



8. It will copy the contents of the disc automatically.

9. Press "OK", when the installation is over.



DSC USB MASS STORAGE CLASS ADAPTER

1. Turn function dial to  .

- Drive Type menu appears.
- Press UP/DN to select drive type Mass Storage.



2. Connect USB cable to USB port of PC.

3. Connect the other end of USB cable to that of the unit.



4. Press DISP/ENTER/REP to confirm it.

- On PC monitor, the message "Add New Hardware" appears, press "Next".



5. Select "Search the latest drive program", press "Next".



Software Installation

7. Insert the disc, select "Search CD-ROM drive", press "Next".



8. It will copy the contents of the disc automatically.



9. Press "OK", when the installation is over.

10. Click on "My Computer", a removable drive icon appears, click on it, then you can view images captured on the unit.



APPLICATION SOFTWARE

1. Insert the CD-ROM disc supplied.
2. Double-click CD-ROM driver.
3. Click on "Enu", double-click "setup" to start installation.
4. After the installation is finished, Photo Manager icon appears on the desktop.



Image Downloading

Before downloading, make sure "photo manager" ,"DSC USB driver" and "DSC USB Mass Storage Class Adapter" have been installed.

"WDM" FORMAT

1. Turn function dial to  .

- Drive Type menu appears.



2. Make USB connection.



3. Press UP/DN to select drive type "WDM".

4. Start up "photo manager" .

5. Click on "Select source", then open its window.

- Select "Digital Camera".

6. Click on "Select" to quit.



7. Click on "Acquire Twain".

- Transfer Images window appears and images captured by the unit as well.

8. Click on the image desired, and pull it to the window of "photo manager".



When an error occurs, check the following:


1. Did you turn on Photo Management software?
2. Is USB cable connected properly?
3. Has the USB interface been used by other application?
4. Has USB cable been cut or damaged?
5. Is function dial turned to  ?

Image Downloading

"MASS STORAGE" FORMAT

1. Turn function dial to  .

• Drive Type menu appears.

2. Make USB connection.

3. Press UP/DN to select drive type "Mass Storage".

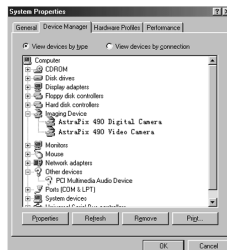
4. Open "My Computer", select the removable driver icon.

• Transfer Images window appears and images captured by the unit as well.

5. Double-click the removable driver icon to access to the recorded images, video clip, audio memo or MP3 files.

6. If you want to enjoy MP3 songs, you can download them from a computer or internet to CF card.

7. To open an image, you also can pull it into "photo manager", or into the window of which, click on "Insert Photos" and select your desired image.



INDICATION

If there are some indication on the LCD monitor, the unit needs the operation as below:

INDICATION	SOLUTION
MEMORY FULL	Replace the Compact Flash card with a new one or delete some images from the CF card.
NO MP3 FILE	Copy MP3 files to the CF card.
PLEASE OPEN THE LENS	Move the lens cover slide to open the lens.
NO PICTURE	Take pictures. Use playback option view them.
CARD NOT PROPERLY INSERTED	Turn off the unit, and re-insert the card. Please format CF card before first use.

Please notice: The battery life will be effected if the LCD monitor is permanently left on!

SYMPTOMS	CORRECTION
The power is not turned on.	<ul style="list-style-type: none">• Turn on the unit.• Replace the batteries.• Connect to DC power
The power is turned off during the use.	<ul style="list-style-type: none">• Replace the batteries.• Do not remove the CF card when power on.• Connect the adapter properly when use it.
The unit doesn't take pictures after the shutter button is pressed.	<ul style="list-style-type: none">• Set it to record mode.• Initialize the memory media.• Replace the batteries.• Turn on the unit.
Flash does not work.	<ul style="list-style-type: none">• Change to the correct flash mode.
Camera is unable to work by any button or switch.	<ul style="list-style-type: none">• Remove the batteries and insert them again.
Problems with the color or OSD on LCD.	<ul style="list-style-type: none">• Remove the batteries and insert them again
Images cannot be displayed on TV.	<ul style="list-style-type: none">• Check connections to the camera and TV.
Images can't be downloaded by USB.	<ul style="list-style-type: none">• Check the connections.• Make sure it is turned on.• Replace the batteries or use the adapter properly.• Install the right driver software.

SPECIFICATION

General

Fixed focal length, built-in media type digital camera with the LCD monitor, built-in flash light.

Image sensor

1/2 inch-type progressive-scan color CMOS

total number of pixels: approx. 1,360,000 pixels

number of effective pixels: approx. 1,310,000 pixels

Lens

Focal length: 9.2mm (46.7mm in the 35mm film equivalent scales)

F number: 3.2

The depth of field: 0.9m to infinity

Field of view: 50°,

File format

EXIF 2.0 image file format (*.jpg), and compliance with the EXIF 2.1 Standard

EXIF 2.0 audio file format (*.wav)

Video format JPEG:*.avi

Image

Image file size: 1280 x 1024 (SXGA); 640 x 480 (VGA); 320 x 240 (CIF)

Image quality mode: super high, high, normal

Image compression ratio: super high (1:4); high (1:8); normal (1:16)

Memory media

Built-in storage media (7MB)

Number of images can be stored:

Approx. 10 for Super High Quality.

Approx. 20 for High Quality.

Approx. 41 for Normal Quality

Compact flash type I (optional)

Function

Record mode: snapshot, self-timer, sequence, video clip, audio memo

The stereo MP3 playback

Preview mode: the LCD monitor, TV, the optics viewfinder

Playback mode: the LCD monitor, TV

The way of playback: single-frame image, thumbnails

Delete function: single, all, format

Number

Shuttle speed: 1/10 --- 1/1000

Time of self-timer: 10 sec.

The length of sequence: 5 images

The length of video clip: infinity (enough memory)

Audio memo record time: 7sec.

Auto close the LCD monitor: 1 minute

White balance

Automatic, manual setting available (daylight, cloudy, fluorescent, tungsten)

Exposure control

Programmed AE

Exposure compensation: up to 1/-3 EV in 1/2 EV increments.

ISO sensitivity: approx. 100 equivalent

Built-in flash

Guide number: 4.8

The effective distance: 1m-2m

Restore time: 7sec.

Flash mode: auto/no/forced

Viewfinder

Ratio of view: 80%

Magnification: X0.5

Eye-relief: 10mm

LCD monitor

Type: 1.6 inch low temperature poly-silicon color D-TFD module

Pixels: approx. 110,000

Digital zoom

Record mode: 12 levels

Playback mode: X2

Interface

USB (universal serial bus) for windows 98/2000/Me

Video/audio output: composite video signal

Power source

Power: AA-sized alkaline battery X4 (AA-sized Ni-Cd or AA-sized Ni-MH Battery are also available)

External power (optional): a 6V-1A DC adapter

DC terminal (provided on the camera body): 3.5-4.0mm

Operating ambient temperature and humidity ranges

0°C to 40°C (32 to 104°F), 85 maximum (noncondensing)

Dimension (W X H X D)

114X65X40mm (4.48X2.56X1.57inches)

Weight (without batteries or recording media)

Approx. 210g

Specifications are based on the latest information available at the time of print and are subject to change without notice.

Support

For technical support please contact:

<http://www.umax.com/index.jsp?worldwide=usa>
support@umaxcare.com

Hotline: 214-739-1915

or just visit

<http://www.umax.com/index.jsp?worldwide=usa>