AGFAPHOTO

8x DIGITAL ZOOM

AGFAPHOTO

21 MEGA PIXELS

USER MANUAL

Please read this manual carefully before use and keep it for future reference.
Please format your SD card first in our camera when you start to use our camera, or format it in computer.

Table of Content

Introduction

Thanks for purchasing the product. Our camera is capable of taking HD photos and recording high-quality videos. It is also a removable disk. Please read this instruction manual carefully before using.

Key Features

- Video Resolution - 1280X720 HD,, 640X480 VGA, 320X240 QVGA.
  21 Megapixels Camera with 12 options of Digital Resolutions- (21M)5616X3744,(18M) 4896X3672, (16M) 4608X3456, (14M) 4416X3312, (12M) 4000X3000, (10M) 3648X2736,(8M) 3264X2448, (7M HD) 3648X2048, (5M) 2592X1944, (3M) 2048X1536, (2M HD) 1920X1080, (VGA)640x480
- 2.4 Inch TFT LCD
- 8X Digital Zoom
- (AS) Anti-shake
- Face Detect
- Smile Capture
- Continue Shot
- Self Timer
- Support Up to 64GB SD Memory Card(certified brand SD card). We recommend that you use 32GB to 4GB. (Memory Card Speed: Class 4 above)
- Built-in Flash
- PhoTags Express Software for Photo Editing, Printing, and Sharing with E-mails, etc.

The Package Includes:

- Digital Camera
- USB Cable
- User's Instruction Manual
- Lithium Battery

Computer System Requirements for Windows 7/XP

To Download Photos and Videos, Your Computer Needs to Meet the Following Minimum Configurations:
- Pentium Processor Compatible with Windows 7/XP or Above
- 128 MB RAM, 150MB Available Disk Space
- Available USB Interface
- Screen Resolution of 1024 X 768 Pixels or Higher Is Recommended
- 16-Bit Color or Higher Display Adapter

Computer System Requirements for Windows Vista

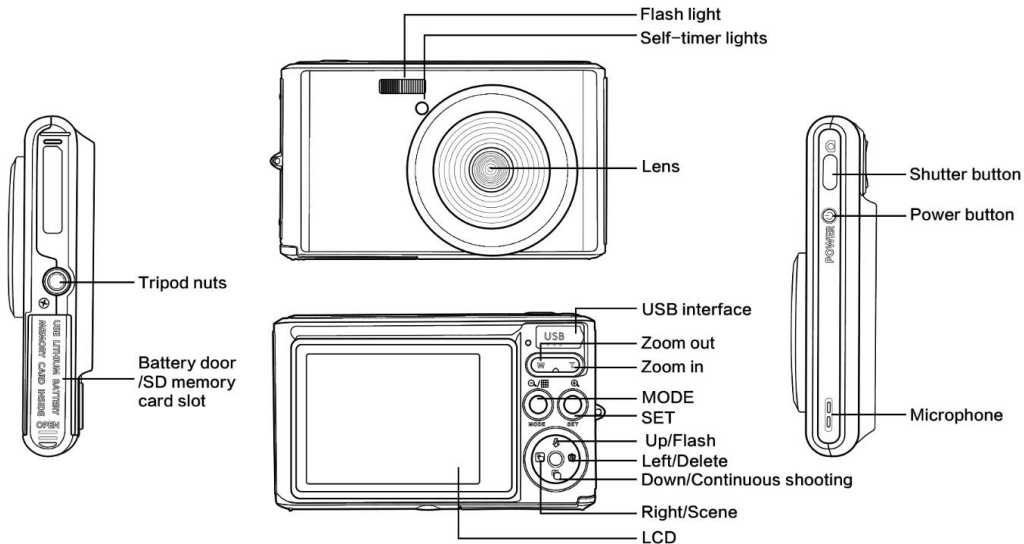To Download Photos and Videos, Your Computer Needs to Meet the Following Minimum Configurations:
- Windows Vista
- 800MHz Processor and 512MB RAM
- 20GB Hard Disk with at Least 15GB Available Space
- Support Super VGA Graphics Array
- Available USB Interface

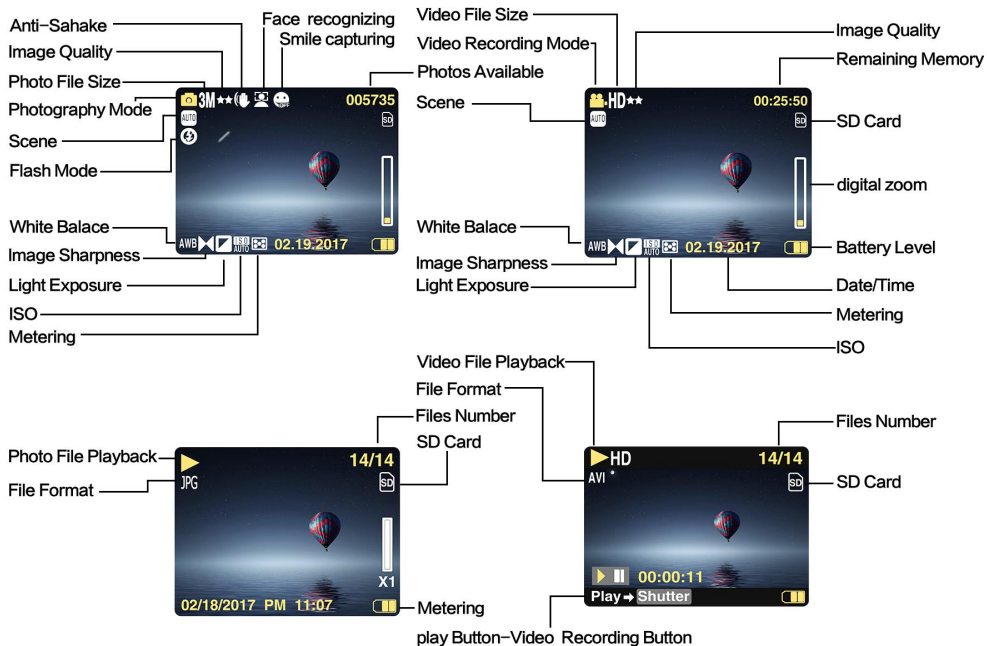## Computer System Requirements for Macintosh

- Power Macintosh G3 500 MHz or Higher
- Mac OS X Version, 10.5.X Version or Earlier
- At Least 128 MB RAM Available (256 MB Recommended), 150 MB Available Disk Space
- 800 X 600 or Higher-Resolution Display for Megapixels

Note: PhoTags Express Software is Incompatible with the Macintosh System but the Digital Camera Can Be Used as A Removable Disk.

Quick Introduction of Your Digital Camera

Flash light
Self-timer lights
Lens
Shutter button
Power button
Tripod nuts
USB interface
Zoom out
Zoom in
MODE
SET
Up/Flash
Left/Delete
Down/Continuous shooting
Right/Scene
LCD
Microphone

Battery door /SD memory card slot

Main Icons on the LCD

Anti-Sahake
Image Quality
Photo File Size
Photography Mode
Scene
Flash Mode

White Balace
Image Sharpness
Light Exposure
ISO
Metering

Face recognizing
Smile capturing
Photos Available

Video File Size
Video Recording Mode
Scene

Image Quality
Remaining Memory

SD Card

digital zoom

Battery Level
Date/Time
Metering
ISO

White Balace
Image Sharpness
Light Exposure

Video File Playback
File Format
Files Number
SD Card

Photo File Playback
File Format

Metering

play Button—Video Recording Button

Files Number
SD Card

Battery Power

	Full battery power
	Medium battery power
	Low battery power

Image Quality

★	Normal
★ ★	Fine
★ ★ ★	Super Fine

Flash

⚡ Force Flash

⚡A Auto Flash

⊘ Flash Off

👁 Red Eye Reduction Mode

Mode

📷 camera

▶ Playback

🎥 Video

Self Timer

	Self-timer in 10 seconds
	Self-timer in 5seconds
	Self-timer in 2 seconds

Digital Zoom

1.00 X   **8.00 X**

Protection

🔑 Protection

Anti-Shake

 Anti-Shake on   Anti-Shake off

Scene

 Auto   Night Portrait   Night Scenery

 Portrait   landscape

 Beach   High Sensitivity

Prepare Your Camera for Use

Install Battery
Insert the lithium battery in your camera. Please refer to the following instructions:
1. Open the battery door on the right side of the camera.

Install Lithium Battery

2. Insert the lithium battery in the correct polarity direction.
3. Close the battery door.

Note: Please take out the battery when you are going to spare the camera for a long time.

Charge the Lithium Battery
Connect the camera to the PC with the provided USB cable correctly to charge the battery. The LED light will be on in the charging mode and off after fully charged. Or connect the camera to the charger via USB cable to charge.

Install the SD Memory Card
This camera supports SD memory card of up to to 64GB SD Memory Card(certified brand SD card). We recommend that you use 32GB to 4GB.

(Memory Card Speed: Class 4 above)

Please insert the SD memory card before use. Please refer to the following instruction for correct installation.

Install SD memory card

Find the SD memory card slot and insert the SD memory card as in the instruction above. When you hear a "click" sound, the SD card is correctly installed. An "**SD**" icon will appear on the LCD screen when you start up the camera.

Note:
1. After the SD memory is inserted successfully, the photos/videos will be stored on the SD memory card.
2. Formatting will delete all the protected/unprotected data on the SD memory card.
3. Please do not remove the SD card during formatting as it may cause irreversible damage to the card.

Start Your Digital Camera
The digital camera supports 3 modes: Photo Mode, Video Mode and Playback Mode.
Photo mode is for taking still photos. You can record videos in Video Mode and preview photos/videos, rotate, protect, delete, crop and print in Playback Mode.

Power on
Press the power button to turn on the camera. The LCD will light up and there will be a "beep" sound, which means that the camera is turned on and ready for use.

Power off
Press the power button to turn off the camera. When there is insufficient battery power, the camera will display a red icon ▭ on the LCD screen and turn off automatically in a few seconds.

Photo Mode

After the camera is turned on, 📷 icon will appear on the LCD screen, which means that the camera is in Photo Mode.

Photo Mode
Aim the LCD screen at the objects for shooting. Hold the camera steadily and press the Shutter Button to take photos. There will be a short delay while the camera is saving the photo to the memory card.
After shooting each photo (when the camera is back to the Icon Mode), the number of photos of this resolution that the remaining space can store will be displayed on the LCD screen top right corner.
When the camera's memory is full, the LCD screen will display "**Memory Card Full.**" when you press the Shutter button. You need to transfer these photos to the PC or delete them to release some space. Alternatively, you can insert another SD memory card to expand the memory.

Digital Zoom
You can magnify the object up to 8 times with the digital zoom. Press Zoom in(W) button to zoom in the object and press the Zoom out (T) button to zoom out. The icon W ▯▭▭▭▭▭ T will show up on your LCD screen.

Flash
In dark conditions, it is best to use the built-in flash. You can also use the flash in the backlight conditions.
How to set up the flash:

Press flash button repeatedly. Select the   icon on the LCD screen. This will activate the automatic flash.
Press flash button repeatedly. Select the 🗲 icon on the LCD screen. This means the flash has been "forced on" (manual flash). If there is insufficient battery power for the flash, a "Low Battery" warning will appear on the LCD screen.
Press flash button repeatedly. Select the 👁 icon on the LCD screen. This will activate the Red-eye Reduction.

Press the Flash button repeatedly until the 🚫 icon appears. This will turn off the flash.

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Scene

The camera supports multiple scenes for different needs, including Auto, Scenery, Portrait, Night Scenery, Night Portrait, High Sensitivity, Beach.   You can make choice according to different light and environment conditions.

Press Power button to turn on your camera – the 📷 icon will appear on the top left of your LCD screen.
1.   Press SET button to enter the menu.
2.   Press Right/Left button to select the Scene SET.
3.   Press Up/Down button to select: Auto/Scenery/Portrait/Night Scenery/Night Portrait/High Sensitivity/Beach.
4.   Press Set to confirm ,then press mode to exit the menu.

Note:
1.   After you have selected the scene, the corresponding scenery icon will appear on the LCD screen.
2.   You can press Left button to directly switch into Scene options.
a.   Press Left button.
b.   Press Up/Left/Right/Down button to select the scene and press SET to confirm.

Image Size

The image size and quality determine the number of photos that can be saved and the memory required for each photo. The photos of higher quality will take more memory. The image size and quality will also affect the maximum size that can be printed in full scale. Here is how to set up the Image size:
1.   Press SET button to enter the menu.
2.   Press Right/Left button to select the icon MP.
3.   Press Up/Down button to select:
(21M)5616X3744,(18M) 4896X3672, (16M) 4608X3456, (14M) 4416X3312, (12M) 4000X3000, (10M) 3648X2736, (9M)3488X2616,(8M) 3264X2448, (7M HD) 3648X2048, (5M) 2592X1944,
(3M) 2048X1536,   (2M HD) 1920X1080HD,   (VGA) 640X480 .
4.   Press SET button to enter the menu. to confirm.
5.   Press MODE button to exit the menu.the corresponding icon of picture size will show up on the LCD screen.

Quality

The quality of your photos affects the number of photos you can take. The Super Fine quality allows you to take fewer photos, but the photos will be at the better quality.
1.   Press SET button to enter the menu. to enter the memu.

2. Press Left /Right button to select **Quality** in menu.
3. Press Up/Down button to select: Super Fine/Fine/Normal.
4. Press SET button to enter the menu. to confirm and then press MODE button return to the Photo Mode. The corresponding icon of Quality will appear on the LCD screen bottom.

Self-Timer
You can take better photos of yourself in this mode. There will be a short delay after you press the Shutter button while the camera processes the photo. You are recommended to use a tripod or place the camera on a steady place.
1. Press SET button to enter the menu.

2. Press Right/Left button to select icon $\bigcirc$.
3. Press Up/Down button to select the count down time.
4. Press SET button to enter the menu. to confirm and then MODE button return to the Photo Mode.
Note: Once you use "Self Timer" this function.

Anti-Shake
The digital camera prevents blurry photos resulted from shaking during the photo-shooting. You don't need tripod for stabilization. Here is how to set up:
1. Press SET button to enter the menu.

2. Press Right/Left button to select the Anti-Shake icon .
3. Press Up/Down button to select: On/Off.

4. Press SETbutton to confirm. and then MODE button return to the Photo ModeThe icon will appear on

the LCD screen if you select "On". The icon will appear on the LCD screen if you select "Off".

Continue Shot
You can take up to 6 photos continuously (only VGA image size) after pressing the Shutter button only once with this function on.
1. Press SET button to enter the menu.

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2. Press Right/Left button to select the icon .

3. Press Up/Down button to select: On/Off.

4. Press SET button to enter the menu. to confirm,and then MODE button return to the Photo Mode.

Note: The image size will automatically become VGA when the Continue Shot is switched on. If the image size is changed, the "Continue Shot Mode Off " message will be displayed on the screen to remind you that the Continue Shot is only available when the image size is VGA.

White Balance

This setting allows the camera to adjust the color of your photos according to the color of the light source.

1. Press SET button to enter the menu.
2. Press Right/Left button to select **White Balance** in menu.
3. Press Up/Down button to select: Auto/Daylight/Cloudy/Fluorescent/Incandescent.
4. Press SET button to enter the menu. to confirm.

Note: Press MODE to exit.

Color Effect

This setting allows the camera to adjust the color of your photos according to your inquiry.

1. Press SET button to enter the menu.
5. Press Right/Left button to select **Color Effect** in menu.
6. Press Up/Down button to select: Stand/Sepia/Monochrome/Vivid.
7. Press SET button to enter the menu. to confirm.

Note: Press MODE to exit.

Image Sharpness

This setting allows you to adjust the sharpness of your images, making them more or less edgy.

1. Press SET button to enter the menu.
1. Press Right/Left button to select **Image Sharpness** in menu.
2. Press Up/Down button to select: Soft/Normal / Sharp .
3. Press SET button to enter the menu.

Note: Press MODE to exit.

Light Exposure

This setting allows you to adjust the brightness of your images.

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1. Press SET button to enter the menu.
2. Press Right/Left button to select **Light Exposure** in menu.
3. Press Up/Down button to select an exposure value (from+3 to -3).
4. Press SET button to enter the menu. to confirm . The corresponding icon of exposure will appear on the LCD screen bottom.

Note: Press MODE to exit.

ISO

This is a special function that allows you to enhance the light conditions under the condition that the flash and tripod are nether allowed. But remember, flash and tripod are better choices than ISO. When you want to adjust the ISO sensitivity, please select the low value ISO to prevent facula on the photos.
1. Press SET button to enter the menu.
2. Press Right/Left button to select **ISO** in Setup menu.
3. Press Up/Down button to select: Auto/100/200/400.
4. Press SET button to enter the menu. to confirm and Press MODE button return to the Photo Mode. The corresponding icon of ISO will appear on the LCD screen bottom.

Metering

This setting allows you to adjust the metering point.
1. Press SET button to enter the menu.
5. Press Right/Left button to select Metering in menu.
6. Press Up/Down button to select Center/Multi/Spot.
7. Press SET button to enter the menu. to confirm . The corresponding icon of exposure will appear on the LCD screen bottom.

Note: Press MODE to exit.

Language

There are multiple languages available.
1. Press SET button to enter the menu.
2. Press Right/Left button to select **Language** in menu.
3. Press Up/Down button to select your language.
4. Press SET button to enter the menu. to confirm and Press MODE to return to the Photo Mode.

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Date/Time

This allows you to set up the system time displayed on the photos.
1. Press SET button to enter the menu.
2. Press Right/Left button to select **Date/Time** in menu.
3. Press Up/Down button to select: "On"-display date on the photo when you download to your computer.
   "Off"- no date on the photos.
   "Date Setup"-set the system date.
      1). Press SET button to enter the menu. to enter the submenu.
      2). Press Right/Left button to select the highlighted Year / Month / Date / Hour / Minute / Second/AM.
      3). Press Up/Down button to set up the precise date and time.
      4). Press mode button to return to up the menu and Press SET button to enter the menu. to return to the
Photo Mode.

Silent Mode

This allows you to turn on/off the button sound.
1. Press SET button to enter the menu.
2. Press Right/Left button to select **Silent Mode** in menu.
2. Press Up/Down button to select On/Off.
4. Press SET button to enter the menu. to confirm and press Mode button return to the Photo Mode.

Auto Power off

The camera will be automatically powered off if idle for 1 minutes in the default setting. Here is how to set:
1. Press SET button to enter the menu.
2. Press Right/Left button to select **Auto Power Off** in Setup menu.
3. Press Up/Down button to select 1 Minute / 3Minutes / 5Minutes / None.
4. Press SET button to enter the menu. to confirm and press Mode button return to the Photo Mode.
Note: If "None" is selected, the camera will not be powered off until the battery power is used up or turned off
manually.

Frequency
1. Press SET button to enter the menu.
2. Press Right/Left button to select **Frequency** in menu.
3. Press Up/Down button to select: 50Hz / 60Hz.

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4. Press SET button to enter the menu. to confirm and press Mode button return to the Photo Mode.

Format
This option will reformat the memory card and erase all the files stored on the memory card including the protected files.
Note: Please operate with cautions. Once formatted, all the files on the memory card will be irreversibly removed. Please transfer the image and videos or your other important files to your computer before formatting.
1. Press SET button to enter the menu.
2. Press Right/Left button to select **Format** in menu.
3. Press Up/Down button to select: Yes / Cancel.
4. Press SET button to confirm.
5. Press Up/Down button to select "Yes" or "No" if you choose " OK "
6. Press the SET button to confirm , display " please wait" on LCD . the camera will come back photo mode after The operation of format is done.

Default Setting
If the camera settings are in disorder, you can reset your camera to default.
1. Press SET button to enter the menu.
2. Press Right/Left button to select **Default Setting** in menu.
3. Press SET button to confirm and enter the down menu.
4. Press Up/Down button to select: Yes / No.
5. When you press "yes". For resetting all to default.
6. Press "No" to exit.

Video Mode
Note: The camera has limited built-in memory. A SD card needs to be inserted before recording.

Press MOde button to enter the Video Mode and start recording. An icon ▶━━ will appear on the left top of the

LCD screen and a red spot ● will be flashing on the LCD screen. Press Shutter button to stop recording. The approximate rest time which can go on to take recording and the approximate rest quantity which how many photos can be taken will be shown on the right top of the LCD screen.
1. You can play this AVI file in the Playback Mode or in other Media players.

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2. The scale can be adjusted during the recording.
Note:
1. The file will be saved in the AVI format.
2. When the camera's memory is full, the "Card Full" message will appear on the LCD screen if you attempt to record more videos. Please transfer the pictures and videos from the memory card to the PC or delete them to release more memory. Alternatively, you can insert another SD memory card to expand the memory and record longer videos.

There are many setup menu in video mode , they are same as photo mode. This is not introduce here.

Image Size
Here is how to set up the Image size:
1. Press SET button to enter the menu.
2. Press Right/Left button to select the icon MP
3. Press Up/Down button to select: HD 1280X720P ,VGA 640X480,QVGA 320X240.
4. Press SET button to enter the menu.
5. Press MODE button to exit the menu.the corresponding icon of picture size will show up on the LCD screen.

Playback Mode
Press MODE button double to go into the Playback Mode. When icon JPG (photo) or AVI (video) shows up on the upper left corner of the LCD screen, the camera is in the Playback Mode. Now you can playback the photos and videos in your camera. In Playback Mode you can delete,rotate, crop ,protect, Print   or Slide Show your photos, and protect or delete the videos. You can also print photos directly from your camera via Printer.
Note:
1. The message "No File Exist" will be displayed on the LCD screen if there are no photos/videos in the camera. Press MODE to return to the Photo Mode.
2. Please go back to the Photo Mode, press SET button to change the settings of recording videos, such as Video size (in Setup) and White balance, etc.

Thumbnail Playback
When the camera is in the Playback Mode, press W/zoom out button to enter the thumbnail playback.
Select a JPG photo and press SET button or to display the photo in full screen.
In full screen mode, you can press T/Zoom in button to zoom in and press W/zoom out to zoom out.

1. Press W/zoom out button to enter the thumbnail playback
2. Press Up/Down/Left/Right to choose which photo you want to preview.
3. Press the SET button to the chosen picture.
4. Press the press T/zoom in button to zoom in.
5. Press Up/Down/Left/Right to view the details of the photo more clearly.
6. Press SET to exit the menu.

Edit Still Photos

When the camera is in the Playback Mode, press Left/Right button to select a still photo (an icon JPG will show on the LCD) and you can rotate, protect, delete, crop or print it.

Delete

Delete unwanted photos and videos at any time to release more memory. You can delete one image or video clip at a time or delete at once all the unprotected photos and videos that are currently stored on the memory card.
1. Press SET button in the Playback mode.
2. Press Right/Left button to select the Delete menu.
3. Press Up/Down button to select: Delete This Photo / Delete All Images / Cancel.
4. Press SET button to confirm.
5. Press Up/Down button to select "Yes" or "No".
6. Press SET button to confirm.

Note: In the Playback Mode, here is how to quickly delete the photos:
   1. Select the photos you want to delete.
   2. Press Right/Delete button
   3. Press Up/Down button to select "Yes" or "No".
   4. Press SET button to confirm.

Rotate
1. Press SET button in Playback Mode.
2. Press Right/Left button to select the **Rotate** menu .
3. Press Up/Down button to select: 90°/ 180°/ 270°/ Cancel
4. Press SET button or to confirm.

Note: 1. The "Saving" message will show up on the LCD after you have pressed SET button to confirm.
   2. Press MODE to exit.

Crop Image

Crop your photos to reveal only a part of an image or to highlight certain focal point, and save the cropped part as a new photo.

1. Press SET button in the Playback mode.
2. Press Right/Left button to select the icon .
3. Press Up/Down button to select: Crop/Cancel.
4. Press SET button to enter the submenu.
5. Press Up/Down/Left/Right button to select the area you want to crop.
6. Press W/T button to expand or reduce the area you choose.
7. Press Shutter button to confirm and save.
8. Press SET button to return up menu.

Protect

You can protect your photos/videos from accidental deletion.

1. Press SET button in Playback mode.
2. Press Right/Left button to select the Protect menu.
3. Press Up/Down button to select: Lock This Photo /Unlock This Photo /Lock All Image/Unlock all Images.
4. Press SET button or to confirm.   A lock icon will show up on the LCD screen if you select "Lock". select "Unlock" and press SET button to unlock the current file.

Note: Press MODE to exit.

Print

You can print the photos with a printer. Here is how to print the photos:

1. Select the photo needs to be printed.
2. Press SET button.
3. Press Right/Left button to select the Print menu.
4. Press Up/Down button to select: Print This Photo/Cancel.
5. Press SET button or to enter print options, and the "Please connect camera to Pictbridge printer" message will show up on the screen.
6. Connect the camera to a compatible printer with the USB cable correctly to print.

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Slide Show

you can play the photos with slide show
1. Press SET button.
2. Press Up /Down button to select: 3 Seconds/5 Seconds/10 Seconds .
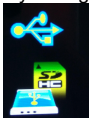3. Press Up button to confirm and play the photos.

Play AVI files

Select an AVI file you want to play.
Press Shutter button to play the file and press shutter button to pause and press again to resume playing.
Note: For how to protect and delete videos, please refer to **Edit still photos**.

Download Photos to Your PC

First, please connect your camera to the computer correctly via the USB cable (USB cable that can read data) ,
then turn on your digital camera:

the image will show up on the camera LCD screen. A window (Removable Disk) will appear on your PC :

NOTE: Now you can copy the photos to your computer in two ways:
1. Download photos directly from the windows
Choose "copy pictures to a folder on my computer" on the Removable Disk (H:). After you have clicked "OK", there
will be some windows on the screen for you to complete the copying step by step. You only need to select the
default settings to complete the transferring.
Or you can:
1. Click on the My Computer Icon on the desktop.
2. Your memory card will appear as a Removable Storage Device.
3. Click on the Removable Storage Device to view the images. The images will be stored in the subfolder DCIM.
4. You can now copy and paste the images to any directory.

Appendix A: Technical Specifications

Image Sensor	CMOS Sensor
Image Resolution	(21M)5616X3744,(18M)4896x3672, (16M)4608X3456, (14M) 4416x3312, (12M) 4000x3000, (10M) 3648x2736, (9M)3488X2616, (8M) 3264x2448,(7M HD) 3648x2048，(5M)2592x1944, (3M)2048x1536,(2M HD) 1920x1080,(VGA) 640x480
Video Resolution	1280x720 HD, 640x480 VGA, 320x240 QVGA
LCD Display	2.4" TFT LCD
External Memory	SD card（Up to 64GB）
Digital Zoom	8X Digital Zoom
Exposure	EV-3---EV+3
White Balance	Automatic / Day / Cloudy / Fluorescent / Tungsten
Scene	Auto / Landscape / Portrait / Night / Night Portrait / High Sensitivity / Beach
ISO	Auto/100/200/400
Self-timer	Off/2s/5s/10s
File Format	JPEG / AVI
Anti-shake	YES
Flash	Auto/Force/Red-eye reduction/Off
Direct Print	YES

Face Detect	YES
Smile Capture	YES
Continuous Shooting	YES (VGA 6 PCS)
Microphone	YES
Optical Viewfinder	N/A
TV Output	N/A
Interface	USB 2.0
System Requirements	Windows XP/VISTA/7/MAC
Battery	Lithium Battery
Working Temperature	0-40 °C

The built-in memory can only store a photos for testing (3MP only). The photos will not be saved when the camera is battery low or the battery is removed. Please insert the SD memory card before use. Please refer to the following instruction for correct installation.

Appendix B: Q&A

Q: I have taken photos but my computer does not recognize my camera. What do I do?
A: First, make sure that you have taken photos. Press the Shutter/SETbutton a few times to take some sample photos and then try downloading them to your computer again. It is also recommended that you have a SD card inserted in the camera. The minimal requirements are Pentium Processor 300Mhz, AMD Athlon 300Mhz, Celeron 400MHz or higher with at least 128 MB RAM. Please make sure whether the old AMD K6 works normally or not. More information about your computer is available in the computer property.

Q: How do I make sure that I did not leave out important photos?

A: To use your camera normally, it is recommended that you insert a 32GB to 4GB.
(Memory Card Speed: Class 4 above) SD memory card. All your photos will be stored on this memory card. It is strongly recommended that you download the photos frequently from this card in order to release more space. This will also be the backup data when you have lost or damaged the storage card. The test photos will be stored in the limited RAM of the SD memory card. Steady current is required for storing photos. If your camera has insufficient power or is out of power, all the test photos will be lost. We highly recommend that the photos be downloaded to your PC in case of losing data.

Q: Will the device work normally if I use the MAC system?
A: The device can also be used as a removable disk on Mac OSX (10.5.x or higher version).