

## 1. Get to know your camera

#### 1.1 Features

3.1 Mega pixels resolution sensor Video clips Audio record Web camera Built-in Microphone Voice recorder Built-in flash Light TV output with audio 1.5" TFT real color display
Internal 16MB flash memory and SD card support
Driver free for Windows 2000/XP/Vista and MAC 9.x and X.x
Macro mode

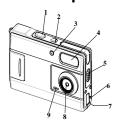
#### 1.2 Specifications

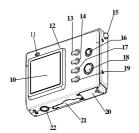
| Specifications  |  |  |  |
|---|--|--|--|
| ensor 3.0 Mega pixel CMOS sensor  |  |  |  |
|   | 12.0 Mega pixels: (4032x3024) (Hardware Interpolation) |  |  |
|   | 8.0 Mega pixels: (3264x2448) (Hardware Interpolation)  |  |  |
| Image resolution  | 5.0 Mega pixels: (2560x1920) (Hardware Interpolation)  |  |  |
|   | 3.1 Mega pixels: (2048x1536)                           |  |  |
|   | 1.3 Mega pixels: (1280x960)                            |  |  |
|   | 300K pixels: (640x480)                                 |  |  |
| Lens  | F/2.8 f=8.5mm  |  |  |
| Focus range   | 0.5m. ~ Infinity                                       |  |  |
| Macro mode  | 11cm – 18cm  |  |  |
| Digital zoom  | 8x   |  |  |
| Flash strobe  | Built-in (Auto/force/off)                              |  |  |
| LCD display   | 1.5" real color LTPS TFT                               |  |  |
| White balance   | Auto/Daylight/cloudy/Tungsten/Fluorescent              |  |  |
| Video mode  | 30fps@QVGA &20fps@VGA                                  |  |  |
| Built-in memory   | 16MB Flash memory                                      |  |  |
| Picture Capacity in   | VGA: (640x480)138 Pictures                             |  |  |
| 16M memory (The   | 1.3M: (1280x960) 54Pictures                            |  |  |
| quantity of pictures  | 3.1M: (2048x1536) 28 Pictures                          |  |  |
| varies and depends on   | 5.0M: (2560 x 1920) 21 Pictures                        |  |  |
| the complexity of the   | 8.0M: (3264x2448) 14 Pictures                          |  |  |
| scene)  | 12M: (4032x3024)3 Pictures                             |  |  |
| External memory card  | SD card supports up to 2GB                             |  |  |
| File format   | Picture: JPEG, Video: AVI, Voice: WAV                  |  |  |
| Self timer  | 2/10/10+2 seconds                                      |  |  |
| PC interface  | USB 1.1  |  |  |
| TV-out NTSC/PAL   |  |  |  |
| Power source 2xAAA alkaline batteries.(Rechargeable battery is not recomm |  |  |  |

### 1.3 System requirement

| Operating System        | Windows 2000/XP/Vista    |  |
|-------------------------|--------------------------|--|
| Operating System        | Mac 9.x or X.x           |  |
| CPU Pentium II or above |                          |  |
| RAM                     | At least 64MB            |  |
| Interface               | erface USB port          |  |
| CD                      | 4x speed CD ROM or above |  |

# 2. Functional parts:





| 1 | Shutter / OK button | Press this button to take photographs or to start/stop recording a short video clip. This button can be also used to confirm changes. |
|---|---------------------|---|
| 2 | Power on/off button | The camera is turned on by pressing it; press it again to turn off.   |

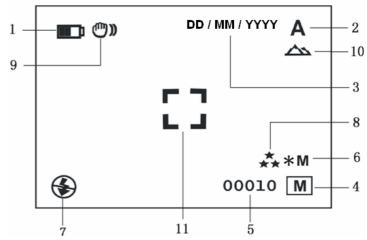
| 3  | Self-timer indicator | Flashes when the self-timer function is used.  |  |
|----|----------------------|--|--|
| 4  | Flash light          | Use the built-in flash to give the subject extra lighting if it is in dark surroundings (the best flash distance is recommended within 1.5 m.).  |  |
| 5  | Macro mode<br>Switch | <b>Macro mode:</b> To take close-up photographs (distance 11cm-18cm). <b>Normal mode:</b> To take photographs of the surroundings or people (distance of approximately 0.5M - infinity). |  |
| 6  | AV port              | For television connection.   |  |
| 7  | USB interface        | Connect the camera to the computer. Via this connection, you can sav photographs and video clips on a computer or use the camera as a web car to chat on the Internet.                   |  |
| 8  | Lens                 | Records the image to be taken.  Note: Keep the lens clean. Dirt and fingerprints affect the outcome of the picture.  |  |
| 9  | Buzzer               | Buzzer   |  |
| 10 | LCD screen           | On the (TFT) LCD screen, you can do the following: view the image to be photographed (Preview), view photographs and video clips, view camera setting, and set the camera.               |  |
| 11 | Macro LED            | When the indicator is lit, the camera is in Macro mode.  |  |
| 12 | MIC                  | For record voice.  |  |
| 13 | UP                   | UP & Digital zoom in   |  |
| 14 | Down                 | Down & Digital zoom out  |  |
| 15 | Strap hook           | Hook for attaching the wrist strap to the camera.  |  |
| 16 | Menu                 | For the camera setting.  |  |
| 17 | Left / flash light   | For menu left selection and flash light setting.   |  |
| 18 | Playback/Mode        | e Press it to playback mode, Press it and hold 2 seconds to different mode selection   |  |
| 19 | Right /display       | For menu right selection and LCD display on / off.   |  |
| 20 | Battery door         | attery door 2xAAA alkaline batteries   |  |
| 21 | SD card slot         | SD card slot.  |  |
| 22 | Tripod connector     | For fix up the camera on tripod.   |  |

# 3. See following details to setting your digital camera.

|     |         |   | 12M pixel resolution  | 4032 x 3024   |
|-----|---------|---|---|---|
|     |         |   | 8.0M pixel resolution   | 3264 x 2448   |
|     |         | Size  | 5.0M pixel resolution   | 2560 x 1920   |
|     |         | Size  | 3.1M pixel resolution(Default)  | 2048 x 1536   |
|     |         |   | 1.3M pixel resolution   | 1280 x 960  |
|     |         |   | VGA resolution  | 640 x 480   |
|     |         | Quality   | Fine(Default)/Standard/Economy  | Picture quality set   |
|     |         | 0   | Auto(Default)/Sport/Night/  | 0   |
|     |         | Scene mode  | Portrait/Landscape/Backlight  | Scene set   |
|     |         | Exposure  | +/-2, +/-5/3, +/-4/3,   | Level of exposure   |
|     |         | value   | +/-2/3,+/-1/3 +/-1, 0(Default)  | Level of exposure   |
|     |         |   | Auto (Default)  | Automatic white balance   |
|     |         |   | Davidabt  | White balance selected for daylight   |
|     |         | White   | Daylight  | surrounding   |
|     |         | balance   | Cloudy  | White balance selected for cloudy surrounding   |
|     | Capture | Dalatice  | Tungsten  | White balance selected for tungsten lighting  |
|     | ptı     |   | Fluorescent   | White balance selected for fluorescent  |
|     | ıre     |   |   | surrounding   |
|     |         | ISO   | Auto(Default)/100/200   | Sensitivity select  |
|     |         | Color   | Standard (Default) / Vivid /  | Color setting   |
|     |         | COIOI   | Sepia / Monochrome  | Color setting   |
|     |         | Saturation  | Normal(Default) / High / Low  | Saturation setting  |
| SET |         | Sharpness   | Normal(Default) / Hard /Soft  | Sharpness setting   |
|     |         | Self timer  | 2s  | Set the delay time at 2s to take a picture  |
| "   |         |   | 10s   | Set the delay time at 10s to take a picture   |
|     |         |   |   | Set the delay time at 10s to take a picture,  |
|     |         |   | 10+2s   | and then every 2s to take pictures  |
|     |         |   |   | automatically.  |
|     |         | Date Input  | Off(Default)/Set  | DD,MM,YYYY  |
|     |         | Time Stamp  | Off(Default)/Date Only/Date   | Show the date and / or time on the  |
|     |         |   | & Time  | pictures  |
|     |         | Continuous  | Continuous shoot  | Can continuously shoot up to 3 pictures   |
|     |         | shoot   | Continuous snoot  | within 10 seconds.  |
| 1   |         |   |   |   |
|     |         | Format  | Execute/cancel  | Format the memory card.   |
|     |         | Format  | English(Default)/T-Chinese/   | Format the memory card.   |
|     |         | Format<br>Language  |   |   |
|     |         | Language  | English(Default)/T-Chinese/   | Format the memory card. Select display language   |
|     |         | Language Auto power   | English(Default)/T-Chinese/<br>S-Chinese/French/German/<br>Italian/Spanish/Portuguese   | Format the memory card.  Select display language  Auto power off in1min, 3min(default) or   |
|     |         | Language Auto power off   | English(Default)/T-Chinese/<br>S-Chinese/French/German/<br>Italian/Spanish/Portuguese<br>1/3/5 min and Off  | Format the memory card.  Select display language  Auto power off in1min, 3min(default) or 5 min if no operation   |
|     | Set     | Language Auto power off Sys. Reset                                    | English(Default)/T-Chinese/<br>S-Chinese/French/German/<br>Italian/Spanish/Portuguese<br>1/3/5 min and Off<br>Execute/cancel                                | Format the memory card.  Select display language  Auto power off in1min, 3min(default) or 5 min if no operation Restore default setting   |
|     | Setup   | Language Auto power off Sys. Reset Light-                             | English(Default)/T-Chinese/<br>S-Chinese/French/German/<br>Italian/Spanish/Portuguese<br>1/3/5 min and Off  | Format the memory card.  Select display language  Auto power off in1min, 3min(default) or 5 min if no operation   |
|     | Setup   | Language Auto power off Sys. Reset                                    | English(Default)/T-Chinese/<br>S-Chinese/French/German/<br>Italian/Spanish/Portuguese<br>1/3/5 min and Off<br>Execute/cancel                                | Format the memory card.  Select display language  Auto power off in1min, 3min(default) or 5 min if no operation Restore default setting   |
|     | Setup   | Language  Auto power off Sys. Reset Light- Frequency (Flicker)        | English(Default)/T-Chinese/<br>S-Chinese/French/German/<br>Italian/Spanish/Portuguese<br>1/3/5 min and Off<br>Execute/cancel<br>50Hz                        | Format the memory card.  Select display language  Auto power off in1min, 3min(default) or 5 min if no operation  Restore default setting  Main European electricity frequency   |
|     | Setup   | Language  Auto power off Sys. Reset Light- Frequency                  | English(Default)/T-Chinese/<br>S-Chinese/French/German/<br>Italian/Spanish/Portuguese<br>1/3/5 min and Off<br>Execute/cancel<br>50Hz                        | Format the memory card.  Select display language  Auto power off in1min, 3min(default) or 5 min if no operation  Restore default setting  Main European electricity frequency  Main American electricity frequency  |
|     | Setup   | Language Auto power off Sys. Reset Light- Frequency (Flicker) TV- Out | English(Default)/T-Chinese/<br>S-Chinese/French/German/<br>Italian/Spanish/Portuguese<br>1/3/5 min and Off<br>Execute/cancel<br>50Hz<br>60Hz                | Format the memory card.  Select display language  Auto power off in1min, 3min(default) or 5 min if no operation Restore default setting Main European electricity frequency Main American electricity frequency American and Japanese video format                          |
|     | Setup   | Language  Auto power off Sys. Reset Light- Frequency (Flicker)        | English(Default)/T-Chinese/<br>S-Chinese/French/German/<br>Italian/Spanish/Portuguese<br>1/3/5 min and Off<br>Execute/cancel<br>50Hz<br>60Hz<br>NTSC<br>PAL | Format the memory card.  Select display language  Auto power off in1min, 3min(default) or 5 min if no operation Restore default setting Main European electricity frequency  Main American electricity frequency  American and Japanese video format European video format. |

Note: The settings will not change when the camera is turned off

# 4. Explanation of the status icons



|      | 7   | 11 5  |  |
|------|---|---|--|
| Item | Function                                      | Description   |  |
| 1    | Battery indicator                             | The batteries are full.  The batteries are empty.   |  |
| 2    | Recording mode                                | A Setting for photographs taking Setting for videos capture   |  |
| 3    | 3 Date stamp Displays the date day/month/year |   |  |
| 4    | Memory or SD card indicator                   | Indicates memory or SD card  M: Pictures stored in built-in memory  Pictures stored in SD card  |  |
| 5    | Photo / Video counter                         | Photo mode :No. of balance picture can be taken;<br>Video mode: Balance of recording time in second;<br>Playback mode: The No. of pictures or video clips |  |
| 6    | Selected                                      | 12M= 4032x3024;<br>8M= 3264x2448;<br>5M=2560x1920;<br>3.1M = 2048x1536;<br>1.3M=1280x960;<br>VGA=640x480;   |  |
| 7    | Flash indicator                               | A: Auto Flash: The camera determines if the flash must be used or not.  No Flash: The flash is turned off.  |  |
| 8    | Picture quality                               | The quality is fine(Default).  The quality is standard.  The quality is economy.  |  |
| 9    | Brightness Alert                              | Alert user to hold the camera steadily.   |  |
| 10   | Normal / Macro<br>mode indicator              | Normal mode (0.5m – infinity)  Macro mode (11cm –18cm)  |  |
| 11   | View center                                   |   |  |

# 5. Using the camera5.1 Installing the batteries

- Open the battery door.
- Insert 2 AAA alkaline batteries into the camera.
- - Turn on the camera.

    Press the POWER button to turn it on (press it again to turn off).

#### 5.2 Inserting a memory card (not included)

This camera has built-in internal memory. This memory can be extended with a SD memory card

Follow the instructions given below to insert the optional SD memory card into the camera

- Turn off the camera first.
- 2. Insert the SD card into the slot

Note: There is only one way to insert the SD memory card into the slot. Do not force the card into the slot. This may damage both the camera and the SD memory card.

Note: The SD memory card must be formatted before taking photographs. See the following sections for more information

#### 5.3 Formatting the memory

If you use a SD card, it must first be formatted before you can take photographs. Follow the instructions given below to do this.

- Press Menu button
- Select Setup setting by right key.
- Press shutter to confirm and select by up or down key.
  Press shutter to format the card or memory.

#### 5.4 Setting the resolution

The camera can be set to different resolutions.

Press MENU to set proper resolution.

Resolution: VGA (640 x 480), 1.3M (1280 x 960) 3.1M (2048 x 1536), 5M (2560 x 1920), 8M (3264 x 2448), 12M (4032 x 3024)

Six different resolutions will be displayed. Select the desired resolution by using the A or ▼ buttons and then press the shutter button to confirm the selection.

#### 5.5 Taking photographs

- Turn on the camera by pressing the ON/OFF button.
- Press MODE to set the camera to photo mode (A).
- Depending on the distance to the object being photographed, use Macro switch to adjust the distance. Select the flower symbol (\*) if you wish to take a close-up photograph (11cm -18cm).

If you wish to take photograph of surroundings or people (0.5m - infinity), set the Macro switch to Normal mode ().

- If you are not sure if there is enough lighting, turn the automatic flash (\*A) on by pressing the flash button. (If the battery power is too low, the flash won't be activated).
- Use the LCD screen to aim the object you wish to photograph.
- Press Shutter button and hold the camera steadily for 2 to 3 sec, until the LCD display turn

Caution: 1) Taking picture for fast-moving object is not recommended. 2) Image may be distorted when taking picture in a moving vehicle.

#### 5.6 Zoom in and out

The camera can zoom in up to 8 times.

- Zoom in by pressing the ▲ or ▼ button, a number will appear on the display. 8.0 is the
- You can zoom in by pressing the UP or DOWN button.

#### 5.7 Taking photographs using self-timer function

You can use the self-timer function when you wish to take a photograph for yourself or when you wish to photograph for an object where the camera must be as still as possible, for example on

- Set the camera to photo mode.
- Press the MENU button. The quick menu will appear.
- Press ▼ to self-timer mode, press shutter and ▲or ▼ to set the delay time: 2seconds / 10 seconds / 10+2seconds or off.
- Press the shutter button to confirm. The self-timer function is now ready for use.
- Aim at the object you wish to photograph.
- Press the SHUTTER button to take a photograph
- The self-timer indicator LED in the front will blink.
- The photograph will be taken after the timer reaches the delay time that you pre-set, and the camera will beep once.

#### 5.8 Recording video clips

- Press the MODE button to select.
- Press the SHUTTER button to start recording video, press the SHUTTER button again to stop recording. The video clip will now be saved as an AVI file in the camera memory
- Press MENU to set proper resolution, EV and WB, and press OK to confirm.

#### 5.9 Recording voice

- Press MODE button to select the voice recording mode,
- Press SHUTTER to start voice recording and press it again to stop.

#### 5.10 Playback photographs

- Press MODE button, press ◀or ▶ to select the video photo.
- 2. Press ▲ ,photo will zoom in; press ▼ ,photo will zoom out
- Press ▲, ▼, ◀or ▶ to shift the image.
- Press MENU to select SLIDE SHOW, and then press shutter to confirm. The pictures saved in your camera or your SD card will be displayed in sequence automatically.

#### 5.11 Playback video clips

- When video clips are displayed, press ▲ to play, and press ▼ key to stop.
- Press ▲ to pause the playback
- Press MODE key to exit.

#### 5.12 Delete photographs and video clips

You can choose to delete a single photograph / video clip, or delete all the photographs / video

#### 5.12.1 Delete photograph

Follow the instructions given below to delete photograph.

- Press MODE key to enter the playback mode.
- Press the MENU button and select Delete One/Delete All, press OK to confirm.
- If you select Protect picture, your current file or images can not be deleted.
- Press MENU to exit.

NOTE: Select 'Deleting All' and Press OK to confirm, all the pictures will be deleted.

#### 6. Installing the camera driver

The driver in the CD has to be installed, under following applications: For Windows 2000, Windows XP and Windows Vista: For using as a PC cam only. (Download picture /video is driver free)

#### 6.1 Uninstalling old drivers and devices

There is a chance for a conflict between the new driver and an existing driver in the computer. In that case, it is better to remove those drivers before installing the new driver

- Enter Windows 'Safe Mode' (press F8 when starting Windows and then select 'Safe Mode' from the menu which will be displayed). 2.
- Click on 'Start Settings Control Panel' and double-click on 'Add/Remove Programs'
- 3 Find all the programs for similar, old devices and remove these by clicking on the 'Add/Remove' button. When in 'Safe Mode', it is possible for some programs to appear twice. In that case, remove all the programs which appear twice.
- Restart the computer.

#### 6.2 Installing the driver for Windows 2000 /Windows XP / Windows Vista

Note: Make sure all other programs are closed during the installation process.

Note: During installation for Windows XP/Vista, you may receive a message saying that the driver has not been signed. This does not cause a problem for the functionality of the program. Please click "Yes" to continue.

Note: For example, 'D: \' is used to indicate the CD-ROM drive. This may be different for your

- Insert the CD-ROM into your computer's CD-ROM drive. The installation program will start automatically. If it does not start automatically, please do the following: a) Select 'Run' from Windows Start menu.
  - b) Type [D:\SETUP.EXE] and click on 'OK' to start the Software Installer.
- The Software Installer will appear.
- Select the language you wish to use for the installation.
- Click on 'Install driver' to start the installation of the camera driver
- Follow the on-screen instructions.

#### 6.3 Connecting the camera

The camera can be connected to the computer in two different modes: Mass Storage Device, or as a PC camera for video conferencing on the Internet.

#### 6.3.1 Connecting as a mass storage device

- Turn the camera on by pressing the ON/OFF button.
- Press MENU button and press RIGHT key to select the Setup setting.
- Press ▼ button to set USB connection
- Press ▲ or ▼ button to choose the Disk Drive mode.
- Press OK to confirm
- Connect the camera to the computer
- Windows will automatically detect the camera. You can use this camera as a removable

#### 6.3.2 Connecting as a PC camera

When you connect the camera as a PC camera, you can use the camera as a web cam for video conferencing on the Internet by using Windows NetMeeting or Windows Messenger.

(You must install the driver before connecting the Digital Camera to your computer.)

- Turn the camera on by pressing the ON/OFF button. Press MENU button and press RIGHT key to select the Setup setting
- Press ▼ button to chook USB connection.
- Press ▲ or ▼ button to choose the PC camera mode.
- Press OK to confirm
- Connect the camera to the computer.
- Windows will automatically detect the camera. You can use this camera as a web camera.

#### 7. Trouble shooting

| Problem  | Cause  | Solution  |
|--|--|---|
| Cannot turn on the camera by pressing the "power" button.                            | Low battery power.<br>Battery placed at wrong<br>polarities.   | Replace or install the battery correctly.   |
| Photos can not be saved when taking pictures.  | The memory card or built-in memory hasn't been formatted properly.   | Format the memory in SETUP mode of the camera. Please refer to section 5.3.   |
| Cannot find removable disk after connecting the camera to the computer.              | Connection failure.     The mode of the camera is not set to removable disk properly                         | Make sure all cable connections are secured and restart the computer if necessary.     Set the camera to removable disk mode, refer to section 6.3.1 (system setting, USB connection).                |
| Flash does not work.   | Battery Power is too low.  | Replace with new ALKALINE battery.  |
| The batteries used up very fast.   | Use wrong type of battery.   | Replace with new ALKALINE battery.  |
| The photos are over exposure   | Set the flash light to force mode in bright environment.   | Set the Flash light to Auto mode A.   |
| The photos are blurry  | The camera is not held steadily     The lens of camera is dirty  | Hold the camera steadily until it beeps when taking photo.     Clean the lens with soft dry cloth.  |
| Get a warning message: "Capture device was not detected" when trying to open PC cam. | Conflict with another camera or video device.     The mode of the camera is not set to PC cam mode properly. | Remove any other camera driver completely from your system. Sometimes you have to re-install your system.     Set the camera to PC cam mode, refer to section 6.3.2 (system setting, USB connection). |
| Cannot preview image in PC Camera mode.  | "Preview" is not selected in option Menu in PC.  | Click "preview" in the "option" menu to select it.  |



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