

**1.3 MEGA PIXEL**

## **Digital Camera User's Manual**

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## Chapter 1 Attention

Please read through this manual carefully before using the camera and follow the instructions to avoid damages caused by improper operation.

### 1-1 Safety Precautions

The software CD-ROM packaged with the camera is designed for PC only. To play this CD-ROM on a stereo or CD player may cause damage to it.

This camera is a precision electronic device. Do not attempt to service this camera yourself, as opening or removing covers may expose you to dangerous voltage points or other risks.

Do not expose this camera under direct sunlight to avoid causing fire.

### 1-2 Before Using Your Camera

Try to take some pictures before you perform the formal recording.

Before taking pictures with this camera in any important occasion (such as a wedding ceremony or an overseas trip), do test the camera beforehand to ensure that it functions well. Any additional loss caused by the malfunction of this product (such as costs of photography or any loss of benefit generated by the photography) is not the responsibility of our company and no compensation will be given for it.

Copyright information

Unless agreed by the right owner, all the pictures taken with this digital camera cannot be used in violation of copyright law. Moreover, when "No Photography" restriction is placed on site, you cannot record any live performance.

Improvisation or exhibits even for personal purpose. Any

transfer of pictures or memory card with data must be conducted under the constraints of copyright law.

Notes on the LCD (Liquid Crystal Display) monitor

- 1.If the liquid contacts the skin:  
Please wipe dry the skin with a cloth and wash with large amount of water.
- 2.If the liquid gets in the eye:  
Please immediately rinse with fresh water for at least 15 minutes and then consult with a doctor to receive treatment as soon as possible.
- 3.If anyone accidentally swallows the liquid:  
Please rinse the mouth with water, drink large amount of water to receive treatment as soon as possible.

### 1-3 Operation Caution

This product consists of intricate electrical parts. To ensure the photography normally, do not drop or hit the camera when taking pictures.

- Avoid to use or place the camera in the following locations:
  - 1.Damp and dusty places.
  2. Sealed vehicles or places exposed to direct sunlight or places subject to extremely high temperature or heat.
  - 3.Violently turbulent environment.
  - 4.Locations full of smoke, oil fumes or steams.
  - 5.Locations subject to strong magnetic field.
  - 6.Raining or snowing environment.
- Do not open the battery cover when the power is on.
- If water has entered the camera, immediately turn the power OFF and remove the batteries.
- How to maintain your camera:
  - 1.If lens or LCD monitor surface is dirty, please use lens brush or soft cloth to wipe clean instead of touching them with your fingers.
  - 2.Do not use any solid object to hit the camera to avoid scratching the lens or LCD monitor surface.
  - 3.Do not use any detergent or volatile solution, which will subject the camera case and paint to solving or distortion. Use soft cloth only.

### 1-4 Package Contents

Please check if the following items are in the package when purchasing this product.



CD-ROM (incl. Camera Driver & Application Software) Pouch Wrist Strap 2 x AA Alkaline Batteries



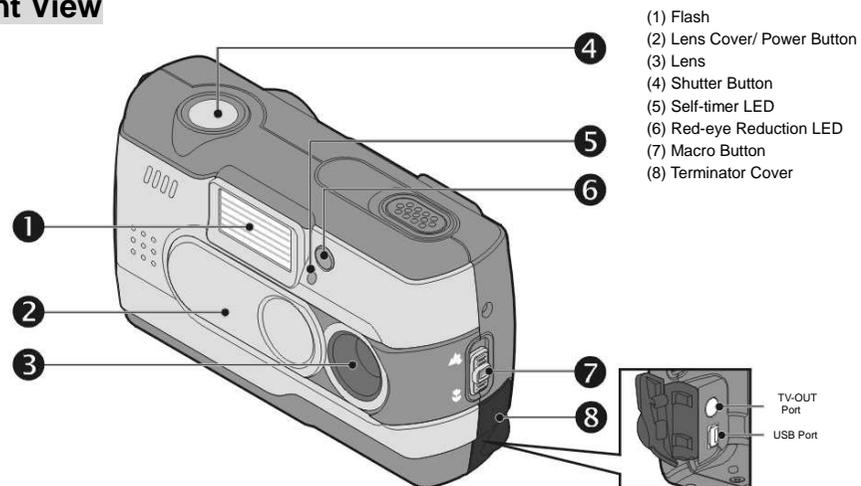
USB Cable TV -OUT Cable This User's Manual

- CD-ROM (incl. Camera Driver & Application Software)
- Pouch
- Wrist Strap
- 2 x AA Alkaline Batteries
- USB Cable
- TV -OUT Cable
- This User's Manual

## Chapter 2 Getting to Know Your Camera

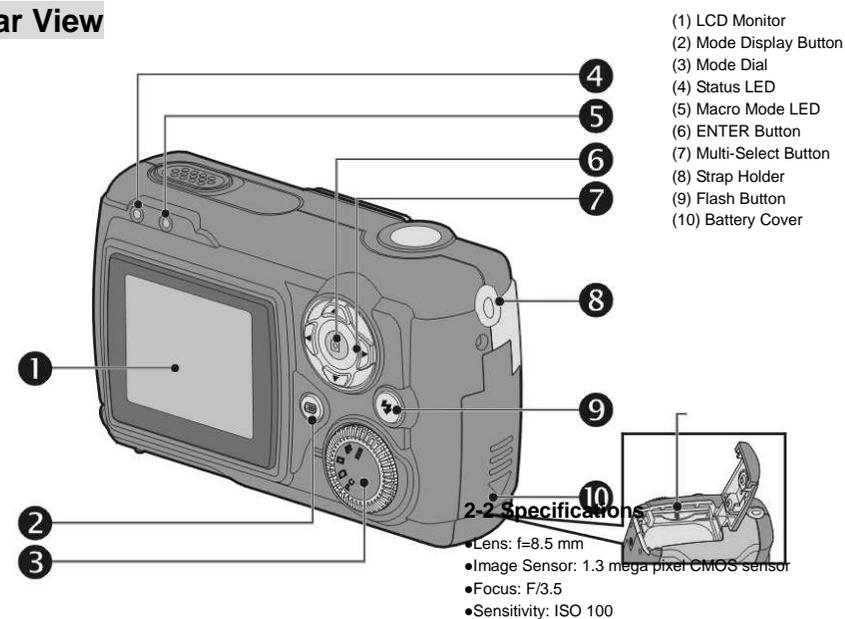
### 2-1 Names of Parts

#### Front View



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#### Rear View



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- White Balance: Auto, Sun, Tungsten, Fluorescent.
- Shutter: Electrical
- Shutter Speed: 1/4 sec. ~ 1/2000 sec.
- Storage Media: 8MB Internal Flash Memory  
SD Card (MMC compatible) Slot  
(support 4/8/16/32/64/128/256/512MB)
- Image File Format: Still Image for JPEG  
Motion Image for JPEG
- Image Resolution: FINE: 1600 x 1200  
(Firmware Interpolation Technology)  
MED: 1280 x 1024  
LOW: 640 x 480
- Digital Zoom: 10-Step 2X Digital Zoom
- Focal Range Standard: 60cm ~ Infinity
- Focal Range Macro: 20 ~ 25cm
- Self-timer: 10 sec. delay
- PC-CAM Mode: CIF (320 x 240) 20~30 fps  
VGA (640 x 480) 15~25 fps
- Flash Mode: Auto, Red-eye reduction, Off
- TV-OUT: NTSC / PAL system selectable
- PC Connector: USB (Ver. 1.1)
- Movie File: Recording 60 sec. continuous movie file  
with CIF (320 x 240) format (8MB internal memory)
- Recordable Image Numbers (8MB):  
(640 x 480) Approx. 65 images  
(1280 x 1024) Approx. 20 images  
(1600 x 1200) Approx. 15 images
- Power Supply: 2 x AA Alkaline Batteries or supports

- CRV-3, USB 5V (PC-CAM Mode)
- Dimensions: 93 x 56 x 38 mm
  - Weight: About 120g (batteries excluded)

### 2-3 System Requirement

Please refer to the minimum system requirements for the digital camera. We recommend that you use a computer system that exceeds the minimum requirements in order to utilize the camera at its optimum efficiency. The minimum system requirements for the digital camera is as the following:

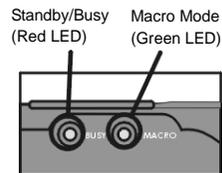
System	Requirement
OS	Microsoft Windows 98SE/Me/2000/XP
CPU	Intel Pentium 166MHz or higher
Memory	Minimum 32 MB memory or above
CD-ROM	4X or above
HDD	Hard drive with 10 MB free disk space minimum
Others	One standard USB 1.1 port

## Chapter 3 Controls, Operation, and Display

### 3-1 LED Indicators

The meanings of the LED indicators located on the top of LCD

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monitor are:

LED Status		Description
Red	On	The camera is busy, please continue to perform the operation after the camera restore to be blinking
	Blinking	Camera is powered on and standby
Green	On	Macro mode
	Off	Basic Mode for photography

- (1) Image resolution
- (2) Image quality
- (3) Current working mode
- (4) Memory card loaded symbol
- (5) Possible number of shots
- (6) Self-timer photography
- (7) White balance display
- (8) Morning/Afternoon display
- (9) Time display
- (10) Date display
- (11) Remaining battery power
- (12) Zoom lever
- (13) Flash status

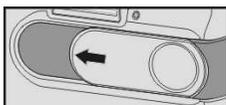
### 3-2 LCD Monitor Display



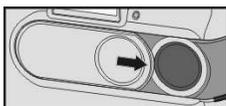
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### 3-3 Power Supply

- Slide the lens cover toward left gently to turn on the camera after two beeps sound.



- Slide the lens cover toward right gently and turn off the camera.



- Using the lens cover located on the front of the camera to turn on/off camera. After turn on the camera, the red LED will be blinking, and then the last image recorded appears on the LCD monitor.
- If no operation is carried out for a fixed amount of time (default: about 1 minute), the power is turned OFF to prevent battery wear. This is called "Auto Power OFF".
- You can press the Mode Display Button to restart the camera.
- The following features will be automatically saved before

turning off the camera unless you selected "Reset Default" to restore its factory anticipated settings.

1. Resolution
2. Quality
3. OSD Language
4. White Balance
5. EV Compensation
6. TV-Out
7. Light Frequency
8. PC Mode

### 3-4 Shutter Button



- This camera is designed for 2-step shutter function. A "[ ]" mark will appear on the center position on the LCD monitor when you press and hold the Shutter button down half way. Then press the Shutter button down fully and the camera beeps; release Shutter button to take a picture.

### 3-5 Mode Dial



- You can select the working mode by using this Mode Dial:

  1. PC Mode
  2. Record Mode
  3. Play Mode
  4. Movie Mode

### 5. SET Setup Mode

### 3-6 MENU/ENTER; Multi-Select Button



You can perform different operation in the different mode by using MENU/ENTER ; Multi-Select button, e.g. Select, confirm, go forward and backward.

### 3-7 Flash Button



- This button is only working in the Record Mode. Press this button to select the desired flash mode while taking a and there are 4 modes available:

**AS** Auto → **AS** Auto and Red-eye reduction → **Off** → Auto

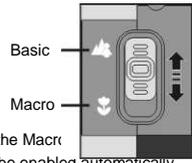
### 3-8 Mode Display Button



1. This button is only working in the **Record Mode**. Press this button you can change the LCD monitor to several displays.  
Standard Full Display Image Only LCD Monitor Off Only Operation Settings Standard
2. Press the "Mode Display Button" to enter the "Play Mode" to view the images when the camera is power off.
3. In the Record Mode, the camera will be auto power off because of the power saving function. You can press the "Mode Display Button" to turn on the camera again.

### 3-9 Macro Button

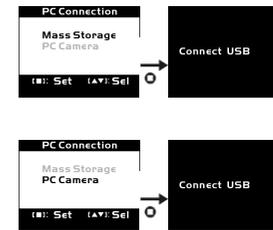
- Slide down and up the Macro button at the side of camera to switch between Basic and Macro modes.  
When you selected the Macro mode, the green LED located on the top of the LCD monitor will be on.



□ If you selected the Macro mode, the flash off function will be enabled automatically.

## Chapter 4 Navigating Modes and Menus

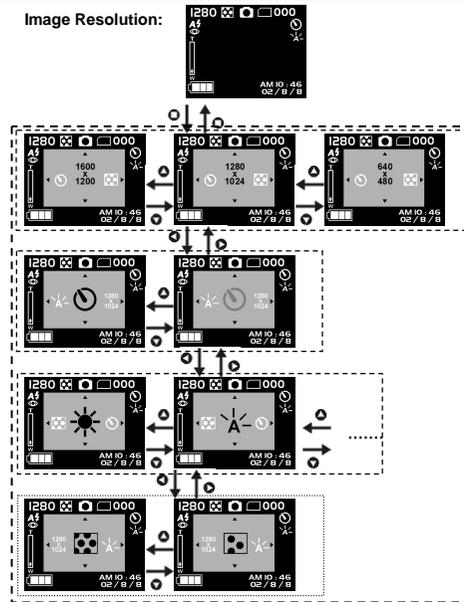
### 4-1 PC Mode



### 4-2 Record Mode



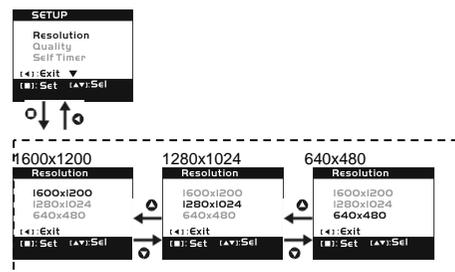
For more information, please refer to the "LCD Monitor Display" section in page





## 4-5 Setup Mode **SET**

### 1. Image Resolution



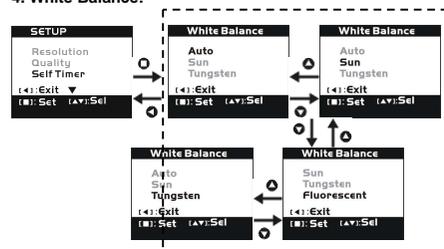
### 2. Image Quality:



### 3. Self-timer



### 4. White Balance:

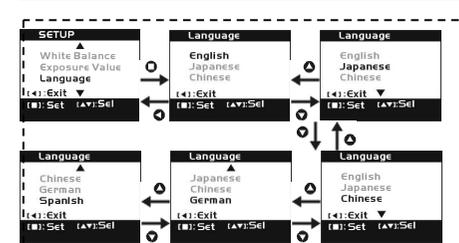


### 5. EV Exposure Value Compensation

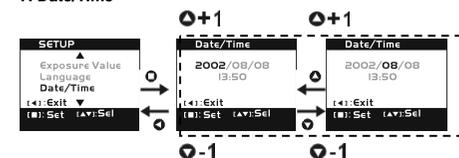


### 6. OSD Language

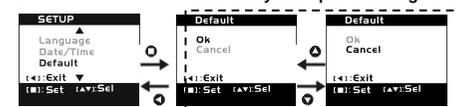
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### 7. Date/Time



### 8. Default Reset to default factory anticipated settings

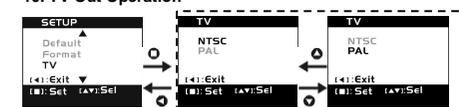


### 9. Format Media



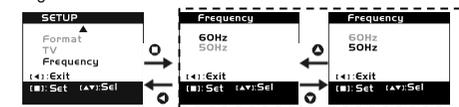
If there is a memory card inserted, it will only format the memory card, not the internal memory.

### 10. TV-Out Operation



### 11. Light Frequency

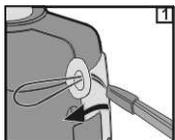
Select the correct frequency type (50Hz or 60Hz) according to your region.



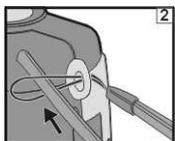
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## Chapter 5 Preparing Your Camera

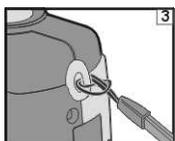
### 5-1 Attaching the Strap



- Insert the thin end of strap into the strap holder.



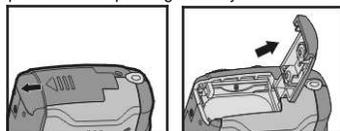
- Pass the other end of strap through the loop.



- Stretch the strap tightly.

### 5-2 Loading Batteries

- Turn off the power of camera.  
Insert 2 x AA alkaline batteries or a rechargeable battery. Please make sure the batteries are full of power. If the batteries are in low power, please change the new batteries as soon as possible for keep the camera operating normally.



- Slide the switch on the battery cover in the direction indicated by the arrow.



- Insert the batteries as indicated on the inner side of the cover.

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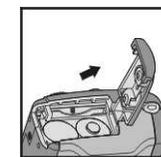
- Close and lock the battery cover.

#### NOTE:

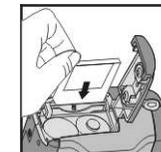
- Do not open the cover roughly to avoid damaging the battery compartment cover.
- If the battery power indicator shows only one black block that means the power is wear, you can continue to use the flash.
- When the battery indicator turns red, you cannot take still and movie pictures any more.
- Any pre-setting date/time value will be retained in camera's memory for about 3 minutes while replacing the batteries. You're still suggested to double check date/time setting after changing new batteries.

### 5-3 Loading and Removing the Memory Card

1. Loading the memory card.
- Make sure to turn off the camera.



- Slide the switch on the battery cover in the direction indicated by the arrow.



- Insert the memory card in the direction of the arrow.

#### 2. Removing the memory card



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- Press the memory card down gently.



- The memory card will bounce upward.



- Pull the memory card out with your fingers in the correct direction.

#### NOTE:

Before using the camera, please remember to insert the memory card into the slot. If the memory card is full with images

or data, you can turn the **Mode Dial**  to **Setup Mode** **SET** and then select "Format" item to format the memory card. Please make sure you had backup the important data stored in the memory card.

- There is 8MB internal flash memory built-in in the camera to store image:

If there is a memory card inserted, it will be the top priority to store image.

If you want to store image in the internal memory, please remove the flash memory card first.

- The specification of memory card applicable to this camera is SD or MMC (4/8/16/32/64/128/256/512MB).
- If inserting the memory card in the wrong direction, it cannot be fitted in. Do not insert the card roughly to avoid damage.
- If the camera detects no memory card, please gently wipe the metal interface of the card with a soft cloth and reload the card again.

### 5-4 Setting Up the OSD Language

Before using the camera, please turn the Mode Dial to **Setup Mode** **SET** and then select "Language" to set the OSD language. There are 5 options for your selection: English, Japanese, Chinese, German and Spanish.

### 5-5. Date/Time

Before using the camera, please turn the **Mode Dial** to **Setup Mode** **SET** and then select "Date/Time" to set the date and time.

## Chapter 6 Getting Started

### 6-1 Setup Mode **SET**

By using the Setup Mode, you can adjust the basic camera functions, including: Image Size, Image Quality, Self-timer, White Balance, EV Compensation, OSD Language, Date/Time, Preset Settings, Format Media, and TV-Out items. To setup these items, perform the following:

1. Turn the **Mode Dial**  to **Setup Mode** **SET**.
2. Using the lens cover located on the front of the camera to turn on/off camera. After turn on the camera, the red LED will be blinking, and then the setting up screen will show on the LCD monitor.
3. By pressing the arrow button  /  on the **MENU / ENTER Button**  to move and select the menu items.
4. By pressing the arrow button  on the **MENU / ENTER Button**  to enter the selected menu items.
5. By pressing the arrow button  on the **MENU / ENTER Button**  to return the previous menu.

### 6-2 Record Mode

**Record Mode** offers you a quick and easy way to take the ideal pictures you want.

1. Turn the **Mode Dial**  to **Record Mode** .
2. Using the lens cover located on the front of the camera to turn on/off camera. After turn on the camera, and then the last image recorded appears on the LCD monitor.
3. Press and hold the **Shutter** button down half way to focus the objects. The camera will process metering and a yellow "[ ]" will appear in the center position of LCD monitor. Press and hold **Shutter** button continually and it will keep the metering value. Press the **Shutter** button down fully and release the **Shutter** button. Then you will hear two beeps sound and take a picture completely.
4. When taking a picture, you can press the **Flash Button**  to set the desired flash modes: Auto, Red-eye reduction, and Off.
5. Press the **Mode Display Button**  to choose your favorite LCD display and there are five display modes: Standard Display, Full Display, Image Only, LCD Monitor Off, Only Operation Settings.
6. Using the **MENU/ENTER Button**  to set the detailed settings for recording images, e.g. Image Resolution, Image

Quality, Self-timer, and Light Frequency settings. By pressing the **■** button on the center of the **MENU / ENTER Button** the menu items will appear on the LCD monitor.

Pressing the arrow buttons **◀ / ▶ / ▲ / ▼** on the

**MENU/ENTER Button** to move and select the desired menu items.

7. By pressing the arrow buttons **▲ / ▼** on the **MENU / ENTER**

**Button** to adjust the digital zoom and a message of digital zoom will appear on the left side of the LCD Monitor.

8. Slide down and up the Macro **Button** at the side of camera to enable the Macro photography.

side of camera to enable the Macro photography.

After you selected the Macro Mode, the Macro LED located on the top of the LCD monitor will light green.

□ If the low batteries power icons appears on the LCD Monitor, please change the new batteries immediately to keep the camera operating normally.

□ If the "Memory is not enough!" warning message appears on the LCD Monitor. It means the memory card is full, please removing the memory card and insert a new one immediately.

### 6-3 Play Mode

In Play Mode, users can review the recorded still and movie pictures. To review the pictures, perform the following:

1. Turn the **Mode Dial** to **Play Mode**.

2. Use the lens cover located on the front of the camera to turn on/off camera. After turn on the camera, and then the image appears on the LCD monitor.

3. By pressing the arrow buttons **▲ / ▼** on the **MENU/ENTER**

**Button** to review the previous and back image.

4. By pressing the **■** button on the center of the **MENU/ENTER**

**Button** button, you can enable the "Delete", "AutoPlay"

(Slideshow), and "DPOF" functions.

5. By pressing the arrow button **▶** on the **MENU/ENTER Button**

to enter the selected menu items.

6. By pressing the arrow button **◀** on the **MENU/ENTER Button**

to exit the menu.

□ DPOF function can only be operated with the memory card inserted.

□ If there is no image stored in the internal memory or memory card, a No picture message pops up on the LCD Monitor in the Play Mode.

□ Press the **Mode Display Button** to review the images when the camera is power off. Press the Mode Display Button again will turn off the LCD Monitor.

### 6-4 Movie Mode

You can use Movie Mode to record movie pictures (not including audio). To record the movie pictures, perform the following:

1. Turn the **Mode Dial** to **Movie Mode**.

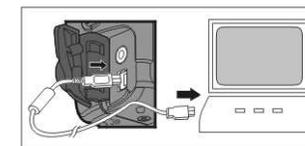
2. Using the lens cover located on the front of the camera to turn on/off camera. After turn on the camera, and then the image appears on the LCD monitor.

3. Press the Shutter button to start recording. Press the Shutter button again to stop recording.

4. The LCD Monitor will show the recorded time (seconds) while you are recording the movie pictures.

□ To record the movie pictures, the maximum recording time will depend on the free space of the memory card.

### 6-5 PC Mode



★ To select the PC Camera or Mass Storage items in the PC Connection menu, perform the following:

1. Power on the camera and turn the **Mode Dial** to **PC**. **PC Camera** and **Mass Storage** options will appear on the LCD Monitor.

2. Pressing the arrow buttons **▲ / ▼** on the **MENU/ENTER**

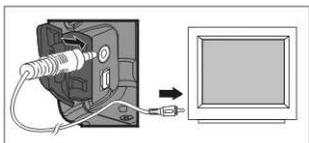
**Button** to move and select the desired menu items. Press the **■** or **▶** button to confirm and save the settings.

3. "Connect USB" message will pop up on the LCD Monitor, please connect the USB cable to the camera and PC to complete the configuration.

□ Once save the settings, the camera will keep these menu settings before you change them again.

## 6-6 TV-Out Operation

Using the TV-Out function offered by the camera, you can transfer the images to the other display devices, e.g. TV or computer. To transfer the images, perform the following:



1. Please select the correct video type for the connected device before transferring images.

Turn the **Mode Dial**  to **Setup Mode** **SET** and then select correct video output types for your selection: NTSC or PAL.

2. Please process this function; please use TV out cable provided with the camera to connect the camera and output device.
  3. You can turn on the camera. There will be no images shown on the LCD Monitor. All the images and information will shown on the output device's display via the TV out cable.
- You can perform the camera normally when enable the TV-Out function. The only difference is the location to show the images, and image information will be form LCD Monitor to video output device's display.

While connecting camera to television with TV out cable, the images will be no longer shown on the LCD Monitor. If you want to

restore the display status on the LCD Monitor, please disconnect the TV out cable from the camera.

## Chapter 7 Driver Installation

### 7-1 Installing the Camera Driver for PC

You can use the **PC Camera** and **Mass Storage** functions of the camera via PC. To install the proper camera driver, perform the following:

1. Insert the software CD-ROM supplied with the package into the CD-ROM drive.
2. The Auto-run program will be executed and the welcome screen appears:  
(If your CD-ROM drive doesn't support the auto-run function. Please double click on the "My Computer" icon on the desktop. Double click the CD-ROM drive icon and click the **InstallMgr.exe** file in the root directory.



3. Click the **Install driver** to install driver, and the screen will

appear as following:



4. Click the **Next** to continue the setup program. After you install camera driver successfully, a message will appears on the screen as following:



5. Click **Finish** to restart the computer and finish the camera driver installation.

## 7-2 Installing the Applications for PC

Install **Arcsoft Software** (Take Photo Impression Installation for example)

1. Insert the software CD-ROM supplied with the package into the CD-ROM drive.
2. The Auto-run program will be executed and the welcome screen appears:  
(If your CD-ROM drive doesn't support the auto-run function. Please double click on the **"My Computer"** icon on the desktop. Double click the CD-ROM drive icon and click the **InstallMgr.exe** file in the root directory.

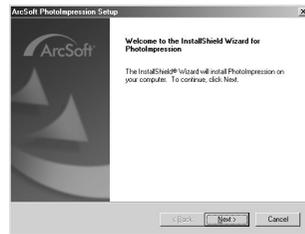


3. Click the **Arcsoft PhotoImpression** to install, and the screen will appear as following:



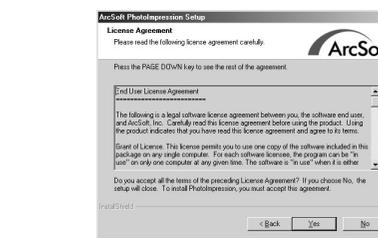
4. Select the language for installation. Click **OK** to confirm your selection.

5. You will see the Welcome screen. Click **Next** to continue.



6. Enter **Software License Agreement** window. Please click **Yes** to continue installation.

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7. Please follow the instructions of installation **Wizard** to select a destination folder and components you need.



8. Please select the program folder you want to install



9. When the installation is completed, the window below will appear. Click **Finish** to end the installation.

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