

5.0 MP Digital Camera Item Number: 11011219



Installation & User's Guide

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# **Table of Contents**

Overview	3
System Requirements	3
Precautions	4
Package Contents	
Camera Outline and Description	6
Getting Started	7-8
Using your Digital Camera	
On Screen Display Menu	9-12
Playback Mode	
Downloading Pictures	
Installing the Driver	
Installing the Application Software	
Specifications	22
Troubleshooting	
FCC Norm	24
Service Procedure	25
Warranty	26

# Overview

This camera is capable of taking a digital photo at a maximum of 5 mega pixels, and is able to shoot brief AVI video. The camera is able to auto adjust exposure and color balance, and it has a 4 ×zoom function. The product can be used as a PC web camera when connecting with a computer. The contents covered in the manual refer to the latest information when the manual was compiled. The screen display and illustration, etc. adopted in the manual are for elaboration of the digital camera. They may differ slightly from your actual digital camera because of the different versions of technical development and production.

# System Requirements

To operate and use the digital camera, please refer to the minimum system requirements for the camera application. It is strongly recommended that you use above the minimum computer equipment to operate the camera sat it's best capability. The minimum system requirements are as follows:

System Requirements		
Operating system	Microsoft Windows 98SE, ME, 2000, XP, Vista	
CPU	Pentium III 800MHz and higher	
Memory	128MB or more	
Sound card, display card	Sound card and display card support Direct X 8 or higher version	
Optical driver	4 X and above	
Hard disc	At least 250MB free space	
Other	A standard USB 1. 1 interface	

# **Precautions**

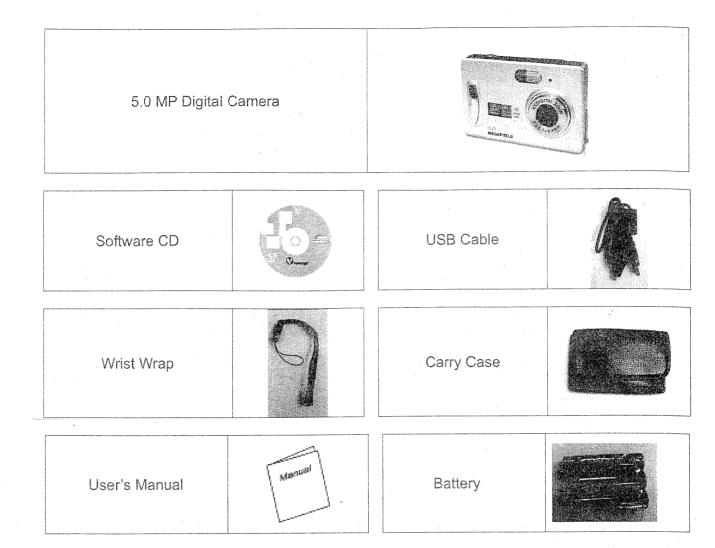
- Please avoid subjecting the camera to dust and chemicals. Please store it in a cool, dry and well ventilated location. Never place it in a location with high temperature, humidity or dust to prevent failure.
- ♦ It is suggested that you test the camera regularly during long periods of storage. Please check to make certain the camera operates normally before use.
- If dirt or stain has accumulated on the camera or lens, it is required to use a piece of soft, clean and dry cloth to wipe it out lightly. Never use rough cloth to wipe. Otherwise, it may scrape the camera or lens surface.
- ♦ If it is required to clean the lens surface, blow away the dust accumulated on the surface, and then use cloth or towel suitable for the optical equipment to wipe the lens lightly. If there is such a requirement, please use lens cleaning compound. Never use organic solvent to clean the camera.
- Never touch the lens surface with your finger.
- ♦ The external SD card and MMC card are made with precise electronic components. The following conditions may cause the information lost or damage:
  - 1. Use of the memory card incorrectly.
  - 2. Memory card is subjected to bending, a fall or impact.
  - 3. Heat, humidity and direct sunlight.
  - 4. Static or electromagnetic field around the memory card.
  - 5. Removing the memory card or unplugging the digital camera power supply when the digital camera or computer is accessing the memory card (i.e. read, write and format, etc.)
  - 6. Touching the metal contact surface of the card with a finger or metal object.
  - 7. The memory card outruns its service life (please purchase a new memory card.)
- The SD card contains a write protection switch used to prevent the information being deleted by mistake. If the switch is slid to the card button, the information inside the card will be protected. However, when the card is placed in the write protection status, it can't be used under the operation such as shooting or delete, etc.

Lock location J

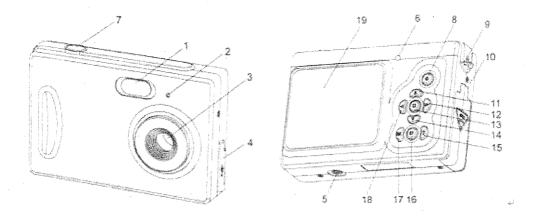


- It should be noted that when saving file in the memory or the memory card, the file size should not be larger than the size of the memory.
- ◆ The digital camera is applicable for use under a temperature of 0-40° C (32-104° F). Never place the digital camera into an extreme heat environment, such as inside a car parked under heated sun, or in a very damp environment. To avoid the condensation in the digital camera, when it is taken out from a cold place to a warm location, please put the digital camera into a tightly sealed plastic bag, and take it out after the digital camera temperature reaches the indoor temperature.
- Any television program, movie, music, picture and other resources all may be protected by copy rights, and it may breach the laws concerning copy rights when shooting/using these resources without permission. Please note that the resource subjected to the copy rights protection can only be used under the situation of meeting laws concerning copy rights.

# Package Contents



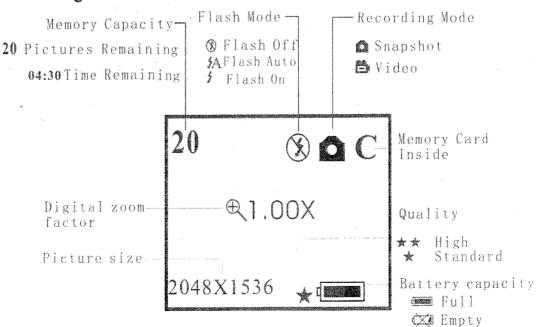
# **Camera Outline and Description**



- 1. Flash light
- 2. Self-timer LED
- 3. Lens
- 4. USB jack
- 5. Tripod socket
- 6. Flash LED
- 7. Shutter button
- 8. ON/OFF button
- 9. Strap bar
- 10. Battery cover/card slot-

- 11. Up button-
- 12. RIGHT button
- 13. Menu button-
- 14. Down button
- 15. Flash button-
- 16. Playback button-
- 17. Display button
- 18. Left button
- 19. Monitor screen-

# Understanding the LCD screen



# **Getting Started**

## Loading the batteries

Open the battery cover and insert three new AAA alkaline batteries into the battery compartment with the polarity correctly aligned as shown on the battery compartment cover.







# **A** CAUTION:

- 1. As with all small batteries, the batteries used with this device should be kept away from small children, especially children who still put things in their mouths. If a miniature battery is swallowed, you should contact your local Poison Control Center and your physician and have the doctor phone (202) 625-3333 collect immediately. To prevent ingestion of miniature batteries, keep out of children's reach and properly discard old batteries, securely wrapped, after they have been removed from the device.
- 2. Make sure the batteries are properly installed and inserted correctly and always follow both the product and battery manufacturer's instructions.
- 3. Do not mix old and new batteries, alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
- 4. Alkaline battery recommended.

# Inserting an SD/MMC card

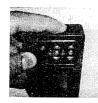
The camera supports SD and MMC cards. If the camera is loaded with a memory card, the camera's built-in memory is disabled.

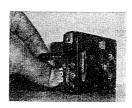
Open the battery compartment lid, insert SD/MMC memory card noting the correct direction.

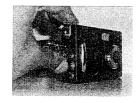
To take out a memory card, please open the battery compartment lid first, then press downward on the SD/MMC memory card lightly and the card will pop out automatically.

#### Note:

- To insert the card, please follow the proper direction as shown by the symbol beside the card trough. Please don't apply too strong a force when inserting the card to prevent damaging the card or camera parts.
- If it is required to remove the memory card, the camera's power should be turned off prior to taking out the memory card.







NOTE: This camera uses SDRAM for internal memory, it can save a few pictures to test the camera, when you turn off the camera the pictures in the internal memory will be lost, so if you want to save the pictures in the internal memory, connect the camera to your computer using the USB cable (included) before turning off the camera, and transfer it to the computer. If you use a SD/MMC memory card, the pictures will be saved to the SD/MMC memory card and will not be lost when turning off the camera or replacing the batteries.

## Turning On/Off the camera

To turn On the camera, press the <ON/OFF> button until the operation LED lights. When the camera is On, press the ON/OFF button for 2 seconds to turn Off the camera.

**Note:** The camera will turn Off automatically after 30 seconds of inactivity, unless is connected to a PC via USB cable. The Auto Power Off time can be set by accessing the Auto Power Off menu.

# **Using your Digital Camera**

## **Taking pictures**

Turn on the camera. Point the camera at the subject, while holding the camera still, gently press the SHUTTER button to take the picture. You will hear a beep sound indicating that the snapshot has been completed. If the camera is in video recording mode please press the MENU button to enter the capture mode. Press the UP or DOWN button to select "Single" then press the MENU button to enter capture mode. When connected to a PC via the USB cable, you may use the monitor screen or the viewfinder to compose the image.

### Self-Timer

In recording mode press the MENU button to get into **Capture** menu, press the UP or DOWN button to select "**Self-Timer**", then press the MENU button to confirm. Press the **Shutter** button; the Self-timer light blinks for 10 seconds before the picture is taken.

**Note:** Press the MENU button to get into **Capture** menu, press UP or DOWN button to select "**single**", the Self-Timer feature will turn off.

# Making a video

In recording mode press the MENU button to get into **Capture** menu, press the UP or DOWN button to select "**Video** 320x240" or "Video 192x144", then press the MENU button to confirm. Press the **Shutter** button to make the video. Press the **Shutter** button again to stop recording.

Note: This camera only records images, it does not record audio.

## Using the flash

When you take pictures at night, or indoors or outdoors in dark areas, you can use the flash. Press the FLASH  $\mathfrak D$  button to change the state of flash.

**6** Off --- The flash never fires (default).

Auto flash ---- The flash fires when the lighting conditions require it.

Force flash --- The flash fires every time you take a picture, regardless of the lighting conditions.

## Viewing pictures

The default setting of the Preview mode automatically displays one image or video file in the LCD screen. Press the DISPLAY button the caption will disappear, and press it again to get into the Thumbnail mode.

If a video is selected in Thumbnail mode, press the DISPLAY button to play the video file.

# On Screen Display Menu

### 1. Capture function

Press the MENU button to enter the Capture menu, press the UP or DOWN button to select the capture mode, then press the MENU button to confirm.

Press the RIGHT button to enter the Capture submenu.



### 2. Color Function

Press the MENU button will enter the Capture menu.

Press the RIGHT button to enter the Color menu. Press the UP or DOWN button to select Auto, then press menu button to confirm.

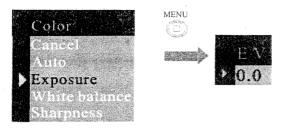


#### Adjusting the exposure value:

You can adjust the EV from -1.5 to 1.5

Press the MENU button to enter the Capture menu.

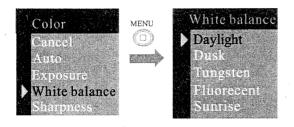
Press the RIGHT button to enter the Color menu. Press the UP or DOWN button to select Exposure, then press the MENU button to confirm. In the submenu press the UP or DOWN button to adjust the value.



#### Selecting White balance option:

Press the MENU button to enter the Capture menu.

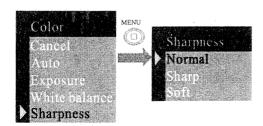
Press the RIGHT button to enter the Color menu. Press the UP or DOWN button to select the White balance, then press the MENU button to confirm. In the submenu press the UP or DOWN button to choose the item that you want, and then press the MENU button to confirm the setting.



#### Adjusting Sharpness option:

Press the MENU button to enter the Capture menu.

Press the RIGHT button to enter the Color menu. Press the UP or DOWN button to select the Sharpness, then press the MENU button to confirm. In the submenu press the UP or DOWN button to choose the item that you want. And then press the MENU button to confirm the setting.



#### 3. Resolution:

Press the MENU button to enter the Capture menu, press the RIGHT button 2 times to enter the **Resolution** menu. Press the UP or DOWN button to select the resolution and then press the MENU button to confirm the setting.

**Super**: 3264x2448 **High**: 2592x1944 **Middle**: 2048x1536 **Low**: 1600x1200



4. Quality:

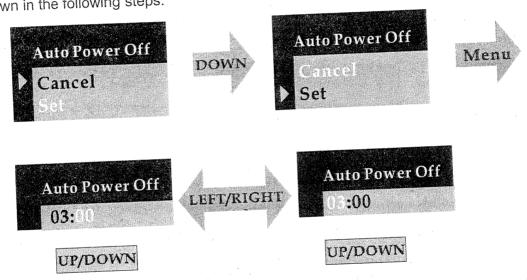
Press the MENU button to enter the capture select menu, then press the RIGHT button 3 times to enter the Quality menu. Press the UP or DOWN button to select the item that you want, and then press the MENU button to confirm the setting.



5. Auto power off time:

Press the MENU button to enter the Capture menu, press the RIGHT button 4 times to enter the

Press the DOWN button to select "Set", and press the MENU button to enter the submenu of Auto Power Off. Press the LEFT/RIGHT buttons to select the item, press the UP/DOWN button to change the value and press the MENU button to confirm the setting. As shown in the following steps:

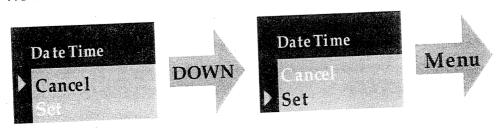


## 6. Date and Time:

Press the MENU button to enter the Capture menu, then press the RIGHT button 5 times to enter the Date & Time menu.

Press the DOWN button to select "Set", press the MENU button to enter the submenu of Date& Time. Press the LEFT/RIGHT buttons to select the item, press the UP/DOWN button to change the value, finally press the MENU button to confirm the setting. As shown in the following steps:

Note: When you choose DISPLAY, the date & time will show on the picture, otherwise choose NO DISPLAY.



### 7. Frequency:

Set the anti-flicker frequency if you use Fluorescent light.

Press the MENU button to enter the Capture menu, press the RIGHT button 6 times to enter the **Frequency** menu. Press the UP or DOWN button to select the frequency. Then press the MENU button to confirm the setting.



## 8. Language:

Press the MENU button to enter the Capture menu, press the RIGHT button 7 times to enter the **Language** menu. Press the UP or DOWN button to select the language. Then press the MENU button to confirm the setting.



# Playback Mode

In capture or video mode, press the PLAYBACK button to enter the playback mode, the lapictures and videos will be shown on the LCD screen. Press the LEFT or RIGHT button to view previous or next file.

When viewing a video, press the LEFT or RIGHT button to choose YES or NO, (**note:** by defar YES will be highlighted) press the MENU button to play the video or press the RIGHT button to highlight NO and press the MENU button to confirm. Press the LEFT or RIGHT button to view previous or next file. In playback mode press the PLAYBACK button again to return to recording mode.

#### 1. Erase:

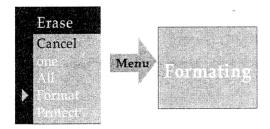
In playback mode press the MENU button to enter the Erase menu.

Press the RIGHT button to get into the next menu.

In the Erase menu press the UP or DOWN button to select "One" (erase one) or "All" (e all). Press the MENU button to confirm the setting.

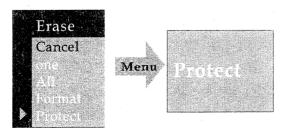


If you select "Format" the camera will format the memory card.

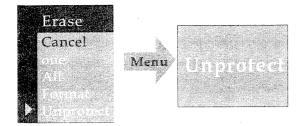


#### Protect mode:

If a file is important to you please use this function to keep the file from being deleted accident.



If you want to cancel the protecting function, you can use the following steps:

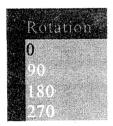


#### 2. DPOF

Press the MENU button to enter the Erase menu, press the RIGHT button until the **DPOF** menu appears. Press the DOWN button to select "Set", and then press the MENU button to confirm the setting. You can press the RIGHT or LEFT button to choose the image to be printed, and you can press the UP or DOWN button to set the quantity, then press the MENU button to confirm.

#### 3. Rotation

Press the MENU button to enter the Erase menu, press the RIGHT button until the **Rotation** menu appears. Press UP or DOWN button to select the item. And then press the MENU button to rotate the picture. The rotated picture can not be saved.



## 4. Digital zoom

In the still image preview mode, press the MENU button to enter the Erase menu, press the RIGHT button until the **ZOOM** menu appears. Press the DOWN button to select "Pan". If you want to activate the pan function you must enlarge the image first.



- \* In Zoom mode: Use the UP button to enlarge the selected picture up to 4 times.
- \* In Pan mode: Press the DOWN button to select "Pan" in zoom window, then press the MENU button to confirm the setting. Now press the UP/DOWN/LEFT/RIGHT buttons to adjust the zooming area to each part of the picture.
- \*To cancel the Pan function: Press the MENU button to enter the <ZOOM/PAN> mode and then press the DOWN button to select "Exit Pan".

# **Downloading Pictures**

Set the camera to the Preview mode. Connect the camera to the computer with a USB cable.

Turn on your camera, press the PLAYBACK button to change the camera mode. In **Windows 2000 / ME**, double click the "My Computer" icon on the desktop; the "My Computer" windows should appear. In **Windows XP / Vista**, press "Start" and select "My Computer"; the "My Computer" windows should appear. When you see "Removable Disk (F:)", your camera (the Removable Disk device) is ready. You can copy or move files to your computer from the folder by the path F:\DCIM|100PHOTO (assuming drive (F:) is the Removable Disk).

In Windows 98SE only, please install the camera driver first.

Set the camera to the Preview mode. Connect the camera to the computer with a USB cable. The computer will find a new device as **USB mass storage device** and install the device driver automatically. After the **driver** is installed, the camera will be recognized as a **Removable Disk**.

## How to use the PC camera function

Please install the camera **driver** first. Connect the camera to the computer with a USB cable, run the program Amcap under the folder <Sunplus Ca531a> in the program, select the device as Sunplus SPCA531.

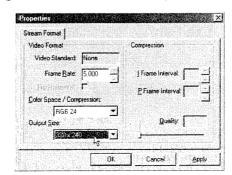


Then select Options and Preview.



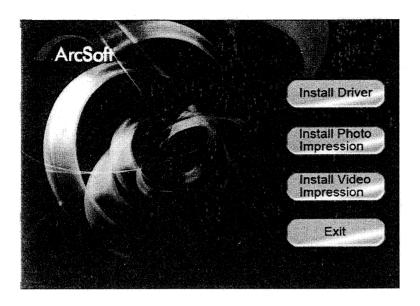
If you want to change the imaging size, select < Video Capture Pin> to change the Output Size.



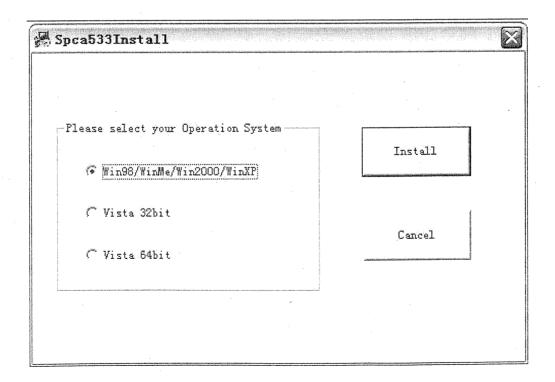


# Installing the Driver

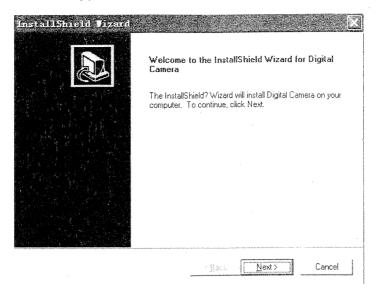
Insert the installation CD into your CD-ROM drive; the installation CD menu should appear. If the menu does not appear, double-click the CD drive icon in <My Computer> or run D:\Autorun.exe to open the setup screen (assuming that your CD-ROM drive is in drive D:). Double click the icon "Install Driver".



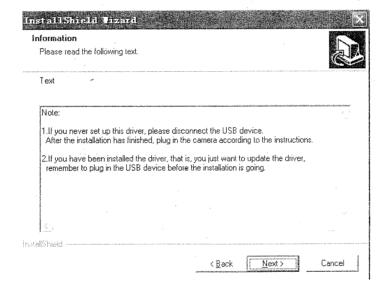
Taking your computer system is Windows XP for example: select "Win98 / WinMe / Win2000 / WinXP" then click "Install". If you install the driver in vista system the picture "Speca533Install" will not appear.



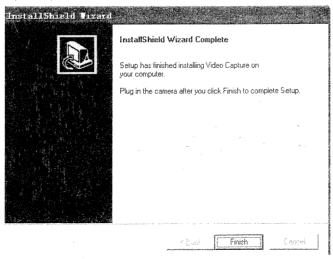
The Install Shield Wizard will appear on the screen, click on "Next":



Click on the "Next" button to continue.

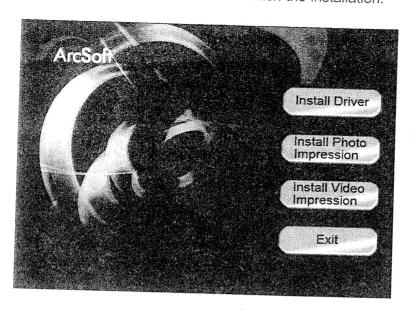


Click on "Finish" to complete the installation of the PC Camera driver.

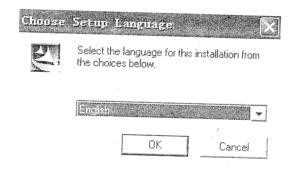


# stalling the Application Software

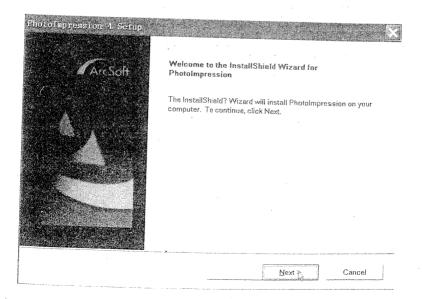
hen you see the following screen, select <Install Photo Express> to install the < Photo Express >> software. Follow the instructions on the screen to finish the installation.



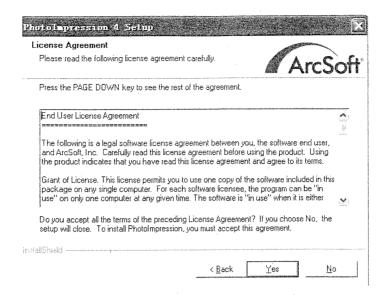
<Language select> dialogue box will appear. You can select a language you want, such as alish> and then click <OK>.



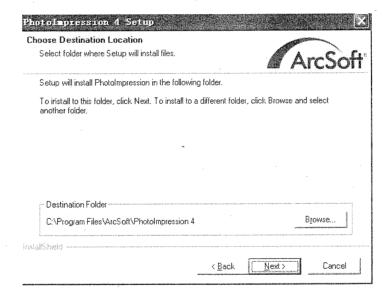
Welcome" message appears. Click "Next" to continue.



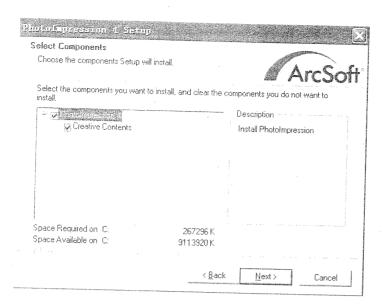
The "License Agreement" dialogue box appears; click <Yes> to accept it.



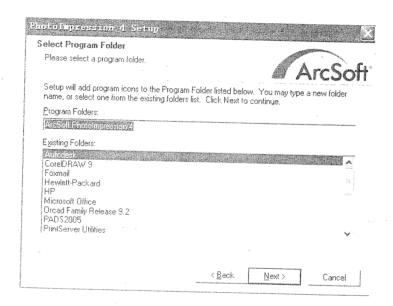
The "Choose Destination Location" message appears and according to the language instruction, choose an installation route (Optional). Click "Next".



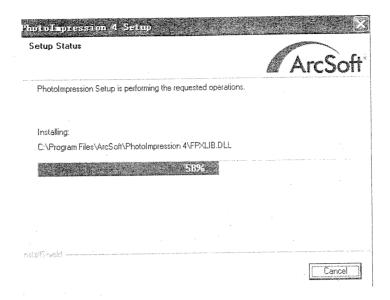
ie interface changes into "Select Components"; click "Next".

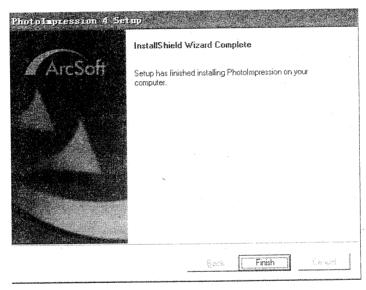


ect Program Folder" window appears; click "Next" to install the driver.



The "Setup Status" window appears; please wait a few minutes until the window "Install Shield Wizard Complete" appear, then click "Finish" to complete the installation. When the software is installed it will automatically create an icon on the computer.





# <u> Specifications</u>

Image sensor	CMOS sensor, 5 Mega Pixels, 8Mega Pixels via interpolation		
Function mode	Video record, shoot, photo and recorded short film playback, removable disc and video camera head		
Lens	F=2.8 f=8.4mm		
Focal range	1.5m~infinity (standard mode)		
Digital zoom	4× .		
Shutter	Electronic shutter 1/20-1/6000 s		
LCD display screen	2.0" TFT LCD		
Picture resolution	Super (3264x2448) / High (2592x1944) / Medium (2048x1536) / Low (1600x1200)		
Video record	Video Recording mode	QVGA (320X240) / (192X144)	
resolution	PC Camera mode	VGA (640X480) / QVGA (320X240)	
White balance	Auto/manual, Daylight, cloudy, Inca and Fluorescent		
Exposure	Automatic/manual (-1.5EV~+1.5EV, 0.3EV/step)		
Flash mode	Auto/forced/Off		
Illumination	100-16000 (lux)		
Self-shoot timer	10 seconds delay		
File format	Video	AVI	
	Photo	JPEG	
Memory	Built-in SDRAM (16×16Mb),		
iviemory	SD/MMC card (maximum support 1GB)		
Display screen	640X240 Picture element, 2.0 inches		
USB interface	Mini USB1.1nterface		
Power supply	Battery: 3×AAA (1.5V)		
Dimensions (L×W×H)	87.8x23.3x56.2 mm		
Weight	Not including batteries: 71 grams		
OSD Languages	English, French, German, Spanish, Italian, Dutch, Portuguese		

# Troubleshooting (FAQ)

- 1. The camera does not power on
- 1. The battery is not properly inserted Remove and re-insert the batteries.
- 2. **Insufficient battery voltage** Do not mix old and new batteries. Replace all the batteries at the same time. Using rechargeable batteries with a lower voltage is not recommended.

**Note:** Remove the batteries if the camera is not going to be used for some time. This will conserve battery life.

- 2. The flash does not fire
- 1. The flash is set to Off Set the flash to Auto or On.
- 2. The flash icon doesn't change or <low battery level> Please use brand new batteries for replacement.
- 3. Low batteries When the battery icon does not show a fully charged battery, the voltage level is too low and the camera will not operate. Please replace with brand new batteries.
- 3. The image is blurred / out of focus
- 1. The subject is out of focus Ensure that there is 1.5m (5ft) at least between the camera lens and the subject.
- 2. **The camera moved** After pressing the **shutter** button, keep your hand steady for 2 seconds to get the best result. When the flash is on, hold the camera steady until the flash has fired two times (the first flash is to reduce a red-eye phenomenon and to detect the brightness of the target).
- 4. The image taken is too dark and unclear

Insufficient light for shooting - Set the flash to On, or adjust the EV to a positive value (+) for exposure compensation.

5. Flickering on the LCD screen or recorded image

Incorrect frequency setting - Select the correct anti-flicker frequency (50Hz or 60Hz) under fluorescent light setting.

### 6. Picture download problem

- 1. The computer does not recognize the camera For Windows 98SE, the camera driver needs to be installed first before downloading any pictures. (Do not connect the camera to the computer while the driver is downloading.) In picture preview mode, ensure that the USB mode is set to MSDC before the camera is connected to the computer. In Windows 2000/ ME /XP / Vista, the camera is recognized as Plug & Play Removable Disk without driver installation under MSDC mode. It is always recommended that you disconnect your digital camera from the computer on the desktop using the safety unplug button, to ensure that the USB port is released for future interfaces.
- 2. The flash drive does not display recorded images The camera will load two Removable flash drives on your computer under MSDC mode.

The first drive is the external SD or MMC card and the second drive is the recorded images saved in the built-in memory of the camera. If the **Removable flash drive** names coincide with those already assigned by the computer in the network, you need to reassign the name for the **Removable flash disks** as follows:

Right click [My Computer] > Manage > Disk Management. Right click blue bar of **Removable disk** which is on line > Change Drive Letter & Paths > Change > Assign the Following Drive Letter (assign an unused drive name) > OK.

Open the new renamed Removable flash drive to download the recorded pictures.

# FCC Norm

### FCC

This equipment has been tested and complies with limits for Class B digital devices pursuant to Part 15 of Federal Communications Commission (FCC) rules.

## **FCC Compliance Statement**

These limits are designed to provide reasonable protection against frequency interference in residential installations. This equipment generates, and radiates radio frequency energy, and if not installed properly or used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in television reception, which can be determined by turning the equipment on and off. Interference may be corrected by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Plug the equipment into an outlet on a circuit different from that to which the receiver is connected.



# CAUTION

The Federal Communications Commission warns the user that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

# Service Procedure

For information regarding the return or exchange of this item within 14 days of purchase, please visit your Inkstop store location or go to <a href="https://www.inkstop.net">www.inkstop.net</a> to read the instructions regarding customer service returns procedures. Click on the Satisfaction Guaranteed icon on the website.

For technical support in regards to operation and installation of this item please call the toll free number below to obtain assistance. A customer service representative will assist you and provide operating information on the product.

Please have the following information available when you call the service center:

- Your Name and Address
- Date of Purchase
- □ Model Number
- Serial Number
- Store Name and Address
- Type of problem with the unit

To contact the technical support facility, please call **508-435-4830** or 800-639-3803.

Email Support: techsupport@fourstari.com

# Warranty

## 90 Days Limited Warranty

This product is warranted to be free from defects in material and workmanship for a period of 90 days. Warranty obligations are limited to replacement or repair of defective parts and components, at the option of the manufacturer. If the original model is no longer available, we will substitute with a model of equal or better value than the original item. The warranty of this product is null and void if the product is subjected to negligence, abuse, modification, misuse, accident or if the customer uses the product for a function it was not intended for. This warranty is only valid for the original purchaser of this product and will not be honored if the product is resold. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

The manufacturer will not be liable for incidental or consequential damages caused by the use of this product. The manufacture will not be liable for any costs such as lost profits or revenues, cost of temporary replacements, loss of data, loss of equipment or use of equipment or any claims by third parties.

After 14 days from the purchase date of this product, please call the phone number mentioned below to obtain service. A customer representative will give you a return authorization (RA number) allowing you to ship the product to the service center. The purchaser must have a copy of the original receipt for proof of purchase within 90 days. The purchaser of this product is responsible for any shipping charges to the repair facility. The manufacturer service center will repair or replace the unit in question and send it back to the purchaser.

In order to contact the service facility, please call **508-435-4830** or 800-639-3803. The address for this facility is:

Fourstar Group 26840 Fargo Ave. Suite C Bedford Heights, OH 44146

E-mail Support: techsupport@fourstari.com

