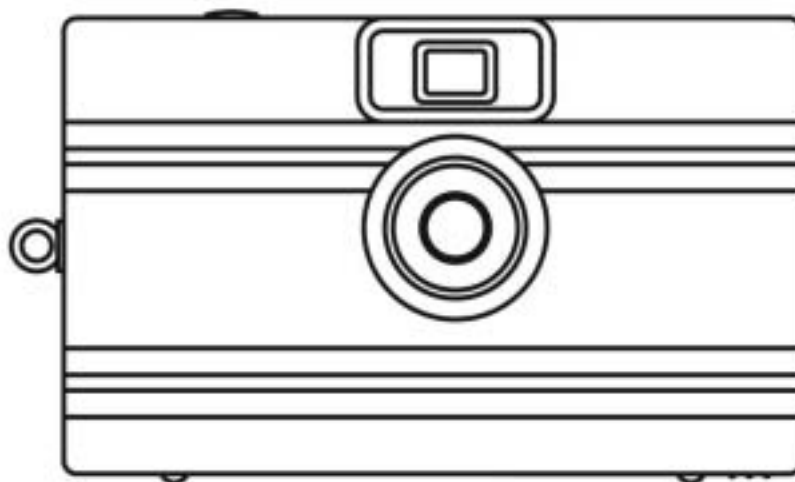


DIGITAL CAMERA

GEMINI J44416



INSTRUCTION MANUAL

Warning

For customer in the U.S.A.

FCC Statement

This device complies with 15 the FCC Rules. Operation is subject to the following two condition: (i) This device may not cause harmful interference, and (ii) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The equipment generates, use, and can radiate radio frequency energy and if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference to radio communications. However, there is no guarantee that interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty.

For customer in Canada

CAUTION

This class B digital apparatus complies with Canadian ICES-003.

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Preface

Test Shots Prior to Photography

Always take a test photograph to check that the camera is functioning normally. The liability for any incidental losses (such as the cost of photography or the loss of income from photography) incurred as a result of fault with this product cannot be accepted.

Notes on Copyright

Images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner unless intended only for personal use. Note that some restrictions apply to photographing stage performances, entertainment and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of memory cards containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

Liquid Crystal

If the LCD monitor or LCD panel is damaged, take particular care with the liquid crystal in the monitor or panel. If any of the following situations arise, take the action indicated.

- If the liquid crystal comes in contact with your skin wipe the area with a cloth and then thoroughly wash with water and soap.
- If the liquid crystal gets into your eyes flush the eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Seek medical assistance.

Notes on Electrical Interference

If the camera is used in hospital or aircrafts, please note that it may cause interference with other equipment in the hospital or aircraft.

For details, please check with the applicable regulation in that area.

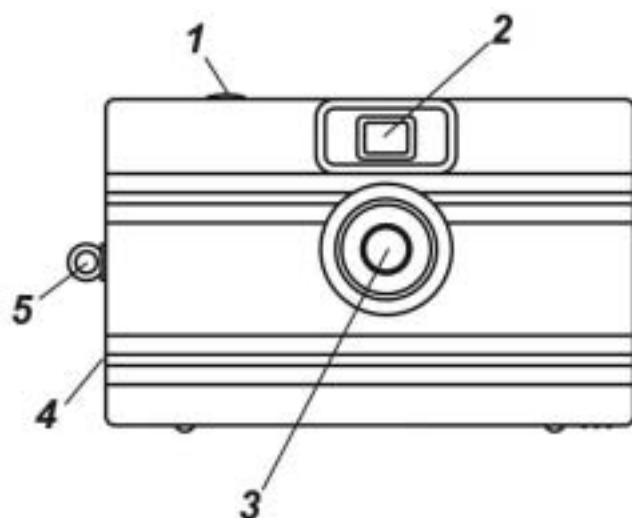
Trademark Information

MS-DOS and Windows are registered trademarks of the Microsoft Corporation registered in the USA and other countries.

Windows is an abbreviated term referring to the Microsoft Windows Operation System.

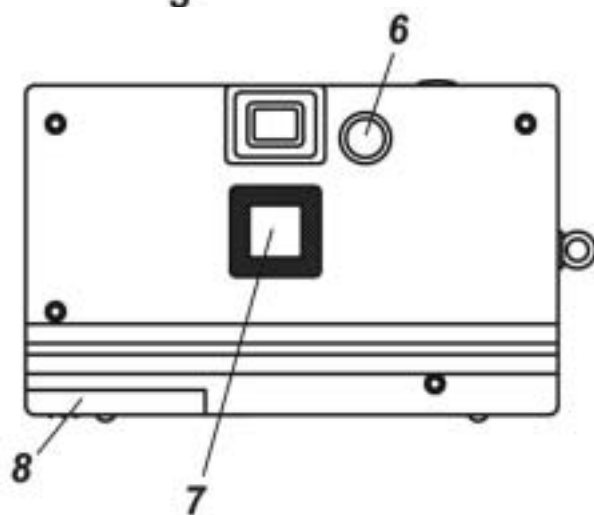
Other company or product names are trademarks or registered trademarks of their respective companies.

Nomenclature



Front

- 1. Shutter
- 2. Viewfinder
- 3. Lens
- 4. USB plug-in
- 5. Hand wrist hole



Back

- 6. Feature button
- 7. LCD display
- 8. Battery compartment door

Specification

1.	Image sensor	640 x 480 CMOS sensor
2.	Image resolution	Still picture: High: 640 x 480 pixels
3.		Low: 320 x 240 pixels
		Movie: 320 x 240 pixels
4.	Internal memory	8 MB SDRAM
5.	Storable frame	High (normal mode): 26 Images
		Low (normal mode): 105 Images
		High (compress mode): 91 Images
		Low (compress mode): 367 Images
		Movie: 1 min – 2 min (depend on Normal / Compress mode)
6.	Exposure	Auto exposure
7.	Optical viewfinder	Built-in with reverse Galilean filter
8.	Lens	3 elements aspheric hybrid lens with IR filter glass
9.	Focus range	1.5 m – infinity
10.	File format	Still picture: BMP file
		Video: AVI file
11.	Self-timer	Electronic self-timer with 10 second delay
12.	Delete pictures method	PC: Not Available
		Camera: Delete last / Delete all
13.	Button control	Shutter button / Select & Power On button
14.	Output connector	USB
15.	Zoom rate	Not Available
16.	LCD display	Show image counter / Off mode (OF)
		Self timer mode (St) / Continuous mode (Ct)
		Video mode (AI) / Delete all mode (CA)
		Delete last mode (CL) / Select frequency (F5 / F6)
		Change resolution (Hr/Lr) / High density mode (CP/nP)
17.	Beeper	Yes
18.	Auto power-off`	Stand by mode (After 30 seconds inactivity)
19.	Low battery warning / indicator	With low battery warning indicator (Low battery icon “Lr” will flash)
20.	Power supply	2 x AAA alkaline battery (included)
21.	Dimension	85.6mm (L) x 53.2mm (H) x 16mm (D)
22.	Weight	44 g (without battery)
23.	Bundled accessories	USB cable / CD ROM software
		2 x AAA alkaline battery
24.	Viewfinder range	98 % of actual target

Camera features

Features

- Capable of recording images at VGA or CIF resolutions
- AVI clip in CIF format
- Auto exposure and auto white balance functions
- 8 MB internal memory
- USB connection

Selecting the power supply

Important battery information

It is strongly recommended that you use fresh batteries to optimize the performance of your camera. You may use alkaline AAA batteries.

Note:

- Do not use different types of batteries together.
- Do not use Ni-MH or Ni-Cd or any rechargeable batteries.
- Soiling, such as fingerprints on the battery terminals, can significantly reduce the battery life.
- Do not use new and used batteries together.
- Different brands of batteries will yield different results.
- The battery life of alkaline batteries may be shortened when exposed to temperatures of 10°C or below.
- Always turn the camera off when replacing the batteries. If the camera is left on, the camera's settings may revert to the default settings.
- After 30 seconds of inactivity the camera will switch to standby mode automatically. The LCD will not be illuminated and all images will be stored in the camera's memory.
- You may lose images stored in the camera if the battery power is insufficient.

Insert batteries

1. Open the Battery Compartment Door and insert 2 x AAA batteries. When inserting the batteries, make sure that you follow the polarity direction (+) (-), which is indicated in the battery compartment.
2. Press down on the battery cover to lock the battery door.
3. Please make sure you have downloaded all pictures before replacing your batteries.

Getting Started

Turn the camera on by pressing the Feature Button once. Press the Feature Button to cycle through the Feature Modes. To exit the Feature Mode continue to press the Feature button until the LCD displays a number or wait 5 seconds without pressing any buttons.

	oF	(Off mode)
→	St	(Self-timer mode)
→	Ct	(Continuous mode)
→	AI	(Video mode)
→	CA	(Delete all mode)
→	CL	(Delete last mode)
→	Lr/Hr	(Change resolution)
→	F5/F6	(Select Frequency)
→	CP/nP	(High density mode)

Notes:

After 30 seconds of inactivity, the camera will switch to standby mode. The LCD will go blank. All images taken will be stored in the camera's memory and the camera's setting will revert to the default settings.

Taking pictures

Press the shutter button once to take a picture. The counter displayed on the LCD will decrease showing the number of images left. Note: If the counter remain unchanged that indicate the image has not been taken. This is probably due to low light intensity. Please adjust the lighting and retake the image. When the counter displays 00, the camera's memory is fully utilized and no space to take additional images remains. In order to take additional pictures, you must transfer or upload your images to the PC.

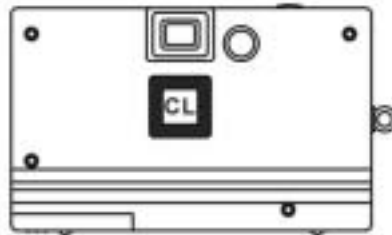
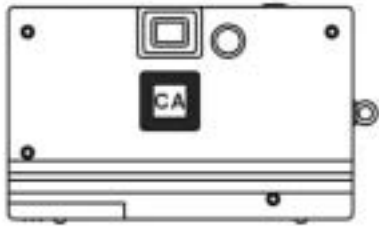
Notes: Ensure that neither your fingers nor the strap come between the lens and the subject. If it is dirty, clean the lens as described in the Cleaning and maintenance section.

Delete all / Delete last still image or video clip

Press the Feature Button until either CA or CL appears in the LCD.

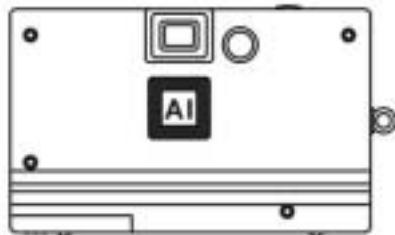
- CA stands for clear all and is used to delete all images
CL stands for clear last and is used to delete the last image..To delete the last image taken, press the shutter button once after CL appears in the LCD.

To delete All Images, press the Feature Button until CA appears in the LCD. Press the shutter button to confirm your selection and again when CA flashes in the LCD.



Recording Video Clips (AI)

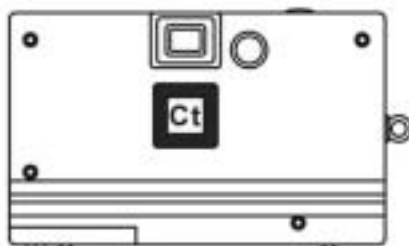
Press the Feature Button until 'AI' appears in the LCD. Press and hold the shutter button to record video clips. The camera will record video clips as long as the shutter button is pressed or until the memory is full.



Note: The camera is designed to record video clips regardless of the lighting conditions. Pay special attention to the light conditions while in this mode to optimize image quality.

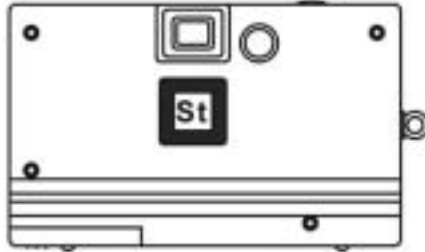
Continuous mode (Ct)

Press the Feature Button until 'Ct' appears in the LCD. Press and hold the shutter button to capture pictures continuously. When the counter indicated 00, it means the camera's memory is exhausted. In order to take additional pictures, you must transfer or upload your images to the PC.



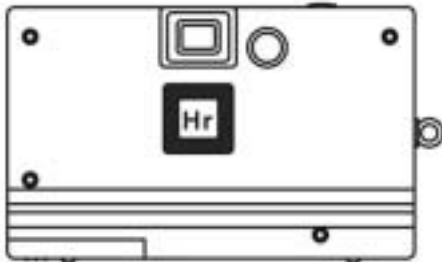
Self-timer (St)

Press the Feature Button until 'St' appears in the LCD. Press the shutter to start a 10-second self-timer count down. The camera will issue a series of short beeps followed by a long beep. When the image has been captured, the camera will beep again.

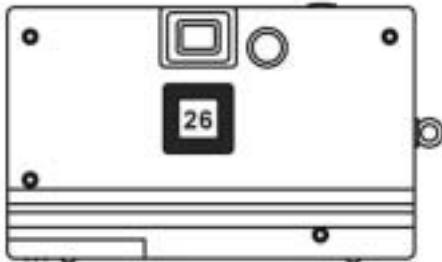


Changing the resolution- Hr/Lr

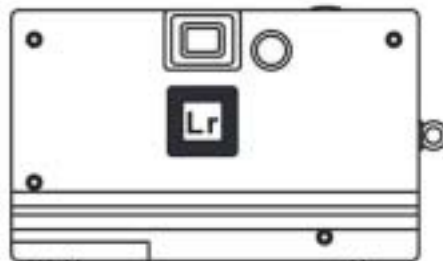
To change the resolution, press the Feature Button until the resolution option is displayed in the LCD. The resolution is noted by Hr for high resolution and Lr for Low resolution. When the resolution you are currently in appears in the LCD, press the shutter button to change to the other resolution option. The picture resolution can be changed at any time and then the camera can store both high and low resolution images at the same time.



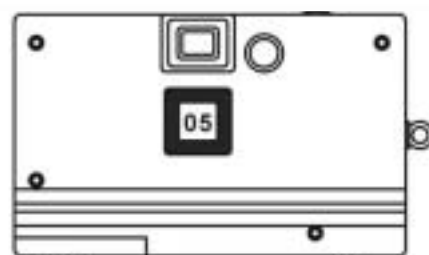
Select high resolution mode



Preset to high resolution counter



Select low resolution mode



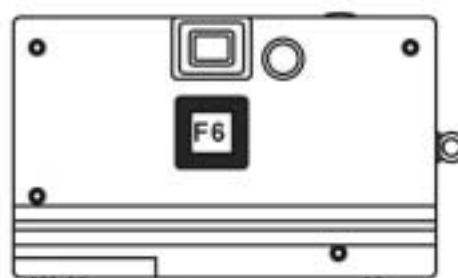
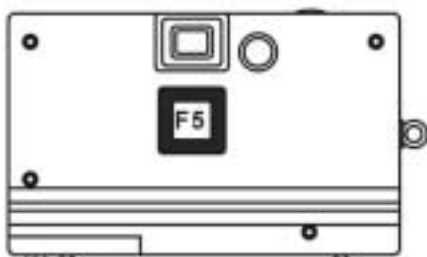
Preset to low resolution counter

Resolution chart

	Resolution	Picture stored
Hr	640 × 480	26
Lr	320 × 240	105

Changing the Lighting Hz

Different countries use different lighting frequencies. The US uses a 60Hz frequency while Europe uses a 50 Hz frequency. The J44416 camera gives you the option to switch the Hz frequency as you travel. To change the frequency, press the Feature Button until the frequency option denoted by either F5 or F6 is displayed in the LCD. Press the shutter button to change the frequency from the number displayed in the LCD to the other frequency option.



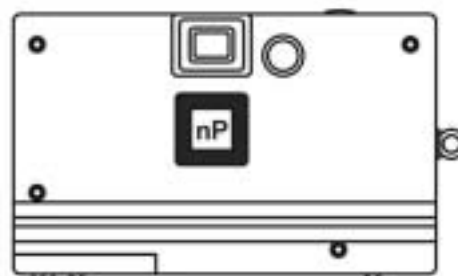
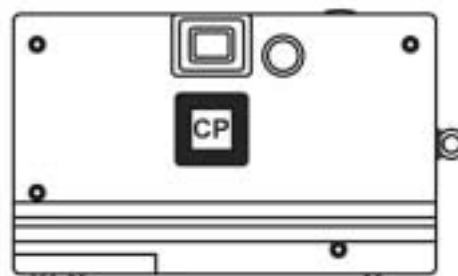
High Density mode (CP)

Press the Feature Button until 'CP' appears in the LCD. Press the shutter button one more time to change to high density mode. In high density mode, the number of pictures that you can take will be doubled in both Hr/Lr resolution.

To switch back to the normal (low density) mode, press the Feature Button until 'nP' appears in the LCD. Press the shutter button again to change back to normal mode.

High/low density chart chart

	Resolution	Picture stored
Hr/nP	640 x 480	26
Hr/CP	640 x 480	91
Lr/nP	320 x 240	105
Lr/CP	320 x 240	367



Pre-installation Checklist in Windows

Hardware and software requirements:

To run this software, you must have the hardware and software described below. Check your system before you begin the installation.

Operating System	Windows 98(including second edition), 2000 Professional, Me and Xp
CPU	Pentium 233MHz or higher
RAM	32MB RAM or higher
Accessory	USB port
Hard Disk Space	200MB free hard disk space

Note:

- Connect the PC and the digital camera directly using the USB cable. Connecting via USB hub is not guaranteed.
- USB interface board is not guaranteed.
- Self-made PC is not guaranteed.

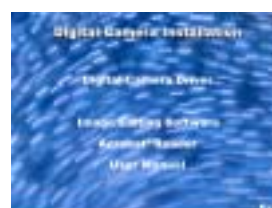
Installation on Windows PC

The J44416 includes the following software and applications: Camera driver - to provide image transfer from the camera to your computer, Ulead Photo Express 4.0 SE – for photo editing and Adobe Acrobat Reader - to access the Owner's Manual (PDF).

Installing the Camera driver – J44416

Insert the J44416 CD into your CD-ROM drive. The CD should auto run. Otherwise, go to **Start** → **Run** and type "D:\autorun.exe" (where D:\ is your CD-ROM drive). The following screen will appear on your monitor.

1. Press the "Digital Camera driver"
2. Press "Yes" to agree the license agreement and then start the J44416 driver installation.
3. The usable file transfer to the computer.
4. The installation complete. The windows ask for restart the computer to activate the driver. Press "Yes" to restart now or Press "No" to restart later.



Note: If you had installed the driver already, then you can remove the driver when you start the driver installation again. If you connect the J44416 in first time, your operating system will ask for driver location, please insert the driver CD and select the CD-ROM for driver searching.



Installing the software – Ulead Photo Express 4.0 SE

Insert the J44416 CD into your CD-ROM drive. The CD should auto run. Otherwise, go to **Start** → **Run** and type "D:\autorun.exe" (where D:\ is your CD-ROM drive). The following screen will appear on your monitor.

1. Press "Image editing software"



2. Select the language you to install from the table



3. On the welcome screen, click "Next" to continue setup.



4. On the license agreement screen, click "Yes" to accept license agreement to continue setup.



5. Enter your registration information and serial number and then click "Next". The serial number will be labeled on the CD cover.



6. Chose the destination location of where you'd like to install the software and click "Next".



7. Click "Next" on the select program folder screen.



8. Confirm the setting before copying files. Click "Next" to transfer files if it is correct.



9. The setup progress bar will appear, please wait until the bar disappears to proceed.



10. Installation completed. Click "Finish" to quit. You can also choose to register to Ulead though Internet.



Installing the software – Acrobat Reader 5.05

Insert the J44416 CD into your CD-ROM drive. The CD should auto run. Otherwise, go to **Start** → **Run** and type “D:\autorun.exe” (where D:\ is your CD-ROM drive). The following screen will appear on your monitor.

1. Press the “Acrobat Reader”



2. Click “Next” on the welcome screen to continue setup.



3. Click “Next” on the destination folder.



4. Click “OK” to complete setup.



Connecting the J44416 to your PC

When you finish taking pictures, you can connect your camera to your PC and upload your images through the USB cable supplied. Plug one end of the USB cable into your camera and the other end into the USB port of your PC (located either at the back your PC or in the front panel).

When the camera is connected, you will hear a beeping sound from the camera indicating that the PC is supplying power to the camera, The image counter will appear on the LCD. If you connect the J44416 in first time, your operating system will ask for driver location, please insert the driver CD and select the CD-ROM for driver searching.

Uploading your pictures & video clips to your PC

1. Make sure that your camera is securely connected to your PC and the "PC" is shown on the LCD.
2. Double click the shortcut "MarsCam VGA" on your desktop.
3. The twain driver will detect the storage of the camera automatically and then a window will pop up and ask for uploading.
4. All pictures and videos clip will show on the twain driver.
5. Highlight the picture or video clips you want.
6. Press "save" icon
7. Select a directory to keep the picture and then you can find images later. For example (C:\MyDocuments\MyPictures)
8. The pull down arrow allows you to select the file format in which the image will be saved. The JPG file format is smaller without any reduction in image quality.
9. Press "save" button to save your picture.



Note: If the short cut file "MarsCam VGA" does not appear on the desktop that indicates the driver has not been installed properly.

You can also download the picture when you using Ulead software.

- Click Get Photos and select "Digital Camera".
- Preset "**VGA Dual Camera**" to digital camera.



- Select "**VGA Dual Camera**" on the left and then press "Acquire" to download photos.



- The twain driver will detect the storage of the camera automatically and then a window will pop up and ask for uploading.
- All pictures and videos clip will show on the twain driver.
- Highlight the picture or video clips you want.
- Press "Option" → "Transfer" can transfer the picture to Photo Express directly.



Now you can rotate, crop and modify your picture as you like though the Ulead photo Express 4.0.

Live Video mode

The J44416 can be used as a web cam with different videoconference and video capturing software available in the market.

Make sure that your camera is securely connected to your PC and the "PC" is shown on the LCD.

Double click the shortcut "MarsCam VGA" on your desktop.

Press " " to enable the live video mode.

Press " " to start the live video.



Note: After you press " ", you should setup the live video frequency first. (Select "option" → select " Video Source" → Choose the frequency "50Hz / 60Hz")

You can also view the live video by using Ulead Photo Express 4.0 SE

- Select "**VGA Dual Camera**" on the left and then press "Import" to show the live video



Uninstalling the software on a Windows PC

The User can automatically uninstall the software using the “Add/Remove Program” in the Control Panel.

Note:

Use this procedure only when the installed software is no longer required or when the software installation fails.

Procedure:

1. Switch on your PC and start up Windows.
2. Open the “My Computer” windows and double-click on “Add/Remove Programs” in the Control Panel.
3. Select the application to be uninstalled.
The “Add/Remove Programs Properties” windows appear. Select the program to be deleted. (Photo Express) and click the “Add/Remove” button.
4. Select the uninstall method.
5. The user can choose “Automatic “ to uninstall the whole software or choose “Custom” to uninstall part of the software. Press “Next” to begin. If you choose “Custom”, you need to select the files, directory and registry key to be uninstalled, and then press “Finish” to begin the uninstallation.

Uninstalling the driver on a Windows PC

User can automatically uninstall the driver by run the driver installation again. In the installation beginning, the driver will search the computer. if the driver had been detected in the computer then the window will pop up and ask for uninstallation. Press “Yes” to start the uninstallation.

Cleaning and maintenance

Be sure to read this information to ensure that you use your camera correctly.

Places to Avoid

Do not store or use the camera in the following places or locations:

- Very humid, dirty or dusty places.
- In direct sunlight or in places subject to extreme increases in temperature such as in a closed car during summer.
- Extremely cold places.
- Places subject to strong vibrations.
- Places affected by smoke or steam.
- Places subject to strong magnetic fields (such as near motors, transformers or magnets.)
- Keep away from contact with chemicals such as pesticides or next to rubber or vinyl products.
- Do not expose the camera to sand. In sandy locations such as beaches or deserts, or in locations where there is wind borne sand, ensure that the camera is not exposed to sand. This can cause irreparable damage.

Storing the camera

If you do not intend to use the camera for a long period of time, remove the batteries before storing the camera.

Cleaning your Camera

Use a blower brush to remove dust from the lens and LCD surface and then wipe lightly with a soft, dry cloth. If any soiling remains, apply a small amount of lens cleaning liquid to a piece of lens cleaning paper and wipe gently. Do not scratch hard objects against the lens, LCD screen or viewfinder as these surfaces are easily damaged. Clean the body of the camera with a soft dry cloth. Do not use volatile substances such as thinners, benzene or insecticide, as these may react with camera's body and cause deformities or remove the coating.

When traveling overseas

Do not place your camera in the check-in baggage. Baggage handling at airports may subject the camera to violent shocks and the camera may be damaged internally even when no external damage is visible.

Troubleshooting

The troubleshooting guide is designed to help you.

For Windows® User:

Symptom	Problem	Solution
All the images I have taken do not appear.	You have lost power to your J44416 by either: Insufficient battery power.	Upload all images to your PC as soon as possible. Refer to Battery Guidance section in the User's Manual.
	The battery was removed before the camera was connected to the PC.	To retain the images in the camera's memory while changing the batteries, you must first connect the camera to a PC via the USB cable. The USB will supply power to the camera making it safe to change the batteries.
I cannot upload images to the PC.	Connection failure.	Check to make sure all cable connections are secure.
The battery indicator is less than half.	There is insufficient power.	To retain the images in the camera's memory while changing the batteries, you must first connect the camera to a PC via the USB cable. The USB will supply power to the camera making it safe to change the batteries.

My CD installation wizard does not work.	The auto installation file is switched to off or the CD ROM is not in the drive.	Go to the computer desktop. Right click on "My Computer." Click on "Properties." Select "Device Manager" and double click on "CD-Rom." Double click on "CD-R." Click on "Setting ." Ensure "Auto insert notification" is checked and the "disconnect" is selected. If you change the settings the computer will ask you to restart your PC. Click " Yes ."
The image counter on the LCD flashed after I took my last image.	The camera is processing the image.	Wait for the LCD to stop flashing and then take your next image. You may need to wait a further 20 seconds before taking the next image.
I get a blurred image when uploading my images to my computer.	There may be a momentary delay between pressing the Shutter button and the actual exposure.	Hold the camera steady until you hear a "beep" which indicates the exposure is completed.
I press the shutter button and get no response.	The camera allows 3 continuous images to be taken.	Wait for this process to complete.

Safety Notes & Warning

SAFETY NOTES

Place to Avoid

Do not store or use the camera in the following types of environment: -

- Very humid, dirty or dusty places
- In direct sunlight or in places subject to extreme temperature rises, such as in a closed car in summer/winter
- Extremely cold places
- Places subject to strong vibrations
- Places affected by smoke or steam
- Places subject to strong magnetic fields (such as places near motors, transformers or magnets)
- For long periods in contact with chemicals such as pesticides or next to rubber or vinyl products
- Any wet areas, e.g. bath room, swimming pool, and etc

Do Not Expose the camera to sand

The camera is particularly and adversely affected by sand. In sandy locations such as beaches or deserts, or in locations where there is wind borne sand, ensure that the camera is perfectly covered from sand. (Exposing the camera to sand may cause faults that are irreparable.)

Notes on Condensation

If the camera is carried suddenly from a cold location into warm place, water droplets (condensation) may form on the inside of the camera or on the lens.

When the camera is Unused for Long Periods

If you do not intend to use the camera for a long period, remove the batteries before storing the camera.

WARNING

- ◆ **Use only the batteries specified with this camera.**

Load the batteries with the poles positioned as indicated by the ⊕ and ⊖ marks. The use of other power sources can damage the camera and cause a fire accident.

- ◆ **When a fault arises, switch the camera off and remove the batteries/remove the camera from USB connection.**

Turn off the camera and remove batteries/remove the camera from USB connection immediately when the camera becomes very warm, emitting smoke, emitting unusual odor or in any other abnormal states. Continue use of the camera in these situations may cause a fire or electric shock.

- ◆ **Do not cover or wrap the camera**

This can cause heat to build up and distort the casing or cause a fire.

- ◆ **If the battery leaks and fluid gets into our eyes or comes into contact with your skin or clothing, this can cause injury or loss of eyesight. Immediately flush the affected area thoroughly with clean water and seek medical treatment.**

- ◆ **When discarding or storing batteries, cover the battery terminals with insulation tape.**

Contact with other metallic objects or batteries could cause the batteries to ignite or burst.

- ◆ **Do not heat, modify or attempt to disassemble the batteries.**

- ◆ **Do not drop or subject the batteries to impacts.**

- ◆ **Do not attempt to recharge lithium or alkaline batteries.**

- ◆ **Do not store the batteries with metallic products**

Any of these actions can cause the batteries to burst or leak and cause fire or injury as a result.

- ◆ **Do not allow water or foreign objects to enter the camera**

If water or a foreign object has entered the camera, switch the camera off and then remove the batteries/remove the camera from USB connection. Continued use of the camera can cause a fire or electric shock.

- ◆ **Never attempt to modify or disassemble the camera. (Never open the casing)**

- ◆ **Do not use the camera when it has been dropped or the casing is damaged.**

This may cause a fire or electric shock

◆ **Never attempt to take pictures whilst in motion**

- ◆ Do not use the camera while you are walking or operating a moving car or other vehicle.

This can result in you falling down or being involved in a traffic accident.

◆ **Do not touch any metal parts of the camera during a thunderstorm**

This can cause an electric shock due to induced current from the lighting discharge.

- ◆ Do not use this camera in locations severely affected by oil fumes, steam, humidity or dust.

- ◆ Remove the batteries and disconnect the camera from USB connection when you are cleaning the camera or if you intend to leave the camera unused for a long period.

◆ **Do not use the camera in the bathroom or shower**

Failure to do so can cause a fire or electric shock.

- ◆ Do not leave this camera in places subject to extremely high temperatures.

- ◆ Do not leave the camera in locations such as a sealed vehicle or in direct sunlight.

This can cause a fire.

◆ **Do not place the camera on an unstable surface**

- ◆ Do not place heavy objects on the camera.

This can cause the heavy object to tip over or fall and cause injury.

◆ **Do not use the flash close to anyone's eyes**

This can cause temporary damage to the person's eyesight.

◆ **Request regular internal testing and cleaning for your camera**

Build-ups of dust in your camera can cause a fire or electric shock

- ◆ Under a strong electro-static discharge environment, e.g. directly under lightening, transformer and etc , the camera will go into a idle / fault mode. Simply press the reset button to reset the camera

Be sure the camera is under your supervision in all time when it is connected to your computer via the USB cable. Your camera might become very warm when connecting to computer for a longer period of time. Disconnect the camera from the USB port and turn the camera off for a while to cool it down. Continued usage while the camera is very warm might cause a fire.