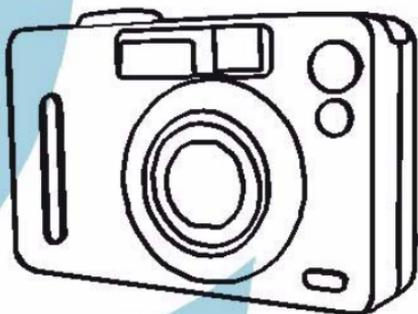


DC 5330

User's Manual



BenQ

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Taking care of your camera

- Do not use your camera over the following environmental range: temperature: 0°C to 40°C, relative humidity: 45% ~ 85%.
- Do not use or store your camera in environments listed below:
 - Direct sunlight.
 - High humidity and dusty places.
 - Next to the air conditioner, electric heater or the other heat sources.
 - In a closed car that is directly under the sun.
 - Avoid shaky places.
- If your camera becomes wet, wipe it with dry cloth as soon as possible.
- Salt of seawater may cause severe camera damage.
- Do not use organic solvents, such as alcohol, etc., to clean your camera.
- If the lens or viewfinder is dirty, please use the lens brush or soft cloth to clean the lens. Do not touch the lens with your fingers.
- To prevent electrical shock, do not attempt to disassemble or repair your camera by yourself.
- Water may cause a fire or electric shock. Therefore, please store your camera in a dry place.
- Do not use your camera outdoors when it is raining or snowing.
- Do not use your camera in the water.
- If the foreign substance or water gets in your camera, please turn the power off immediately and disconnect the batteries and the transformer. Remove the foreign substance or water, and send it to the maintenance center.
- Transfer the data to the computer as soon as possible to avoid losing your image data.

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I. TOURING YOUR DC 5330

I.1. Checking package contents

The package should include the following items:



DC 5330 digital camera



Camera pouch



USB cable



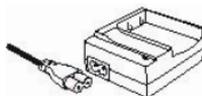
Hand Strap



Battery



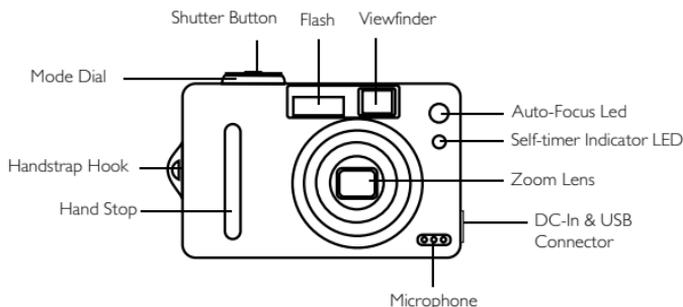
DC 5330 software CD-ROM



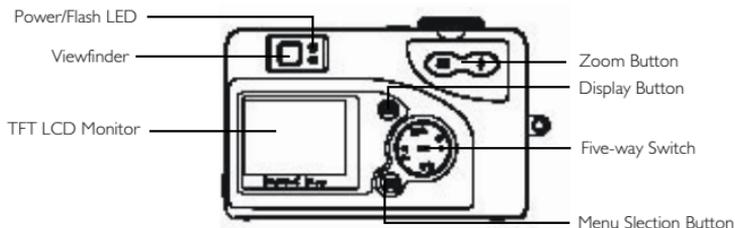
Battery Charger

I.2. Parts of the DC 5330 and their names

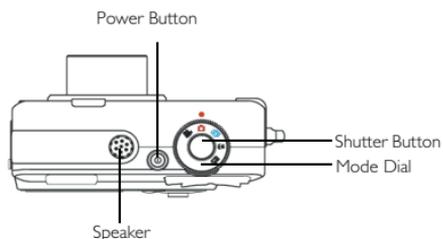
I.2.1. Front View



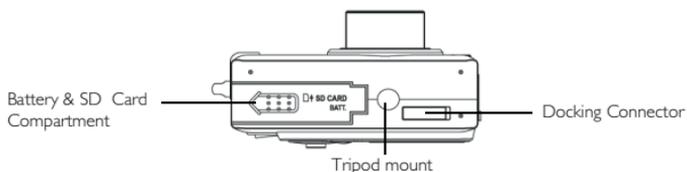
1.2.2. Rear View



1.2.3. Top View



1.2.4. Bottom View



1.2.5. Mode Dial and Focus Range

Mode Dial



- Video Mode ()
- Capture Mode ()
- Playback Mode ()
- Macro Mode ()
- Setup Mode ()

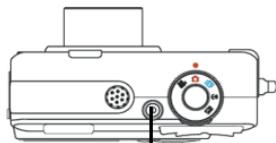
Note

Use only the specified battery or AC power adapter specified (5V 2A) for use with this camera. Other power sources may cause fire.

2. PREPARING YOUR DC 5330 FOR USING

2.1. How to Switch On or Switch Off The Camera

1. Locate the power button on top of the camera.
2. Press the power button down to turn the camera ON or OFF.



Power ON/OFF Button

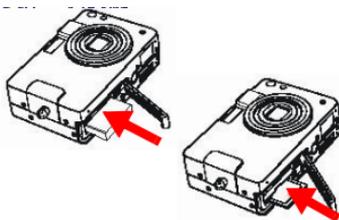
Note

The backside LED indicator will remain green while the power is turned ON.

2.2. Loading the battery and SD Card:

This camera uses a Li-ion battery. The battery and SD card share the same compartment and cover.

1. Slide the battery/SD Card cover in the direction of the arrow, then lift to open.
2. Load the included battery in the compartment.
3. Insert the SD card into the slot.
4. Close the cover.



Battery Power Status	
Full	
Middle	
Low	
Empty	

CAUTION!

1. Fully charge the battery before its first use.
2. To improve battery performance, replace installed battery at the same time and keep away from heat.
3. To discard battery, refer to the index of the battery manufacturer.
4. Battery should be inserted in the battery compartment with the "+" and "-" sides facing correctly.

Note

This camera is equipped with a built-in flash memory. The image(s) can be stored in the built-in memory or in a memory card if used. Please note that if a memory card is not inserted, all operations will affect only the built-in flash memory. If the memory card is inserted, all operations will affect only the memory card but not the built-in flash memory.

Note

1. Upon loading new battery, users will need to reset their Basic Settings.
2. Do not open the battery/SD card cover or remove the battery when the camera is in its ON status. Only remove the battery and SD card when the camera is not in use, or in its OFF status.
3. If you do not plan on using the camera for a long period of time, please remove the battery and SD card.
4. Battery charges through the charger.
5. Camera will draw power from DC-in when used with the AC-Adapter.

2.3. Basic Settings:

Upon turning the camera ON, a "BenQ logo" will appear on the LCD display. Turn the mode dial to the DSC Setup Mode. Please proceed with the following settings:



Upon turning the camera ON, a "BenQ logo" will appear on the LCD display.

■ Language Preference Setting

There are a total of nine languages to choose from to interact with this camera. English will be the default language. Please refer to DSC Setup Mode. (page 15)

■ Date and Time Setting

Please refer to the Date and Time setting under DSC Setup Mode. (page 15)

■ Formatting the SD Card

To format the internal memory, withdraw the SD Card from the camera. To format, please refer to "Erase Pictures" on page 13.

3. USING THE DC 5330

This section describes the five modes included in this camera. An in-depth coverage of these modes will be further described. Here are the five main functions of this camera:

Camera Mode	Function Setting	Page
Video Mode 	Record Movies	page 6
Capture Mode 	<ol style="list-style-type: none"> 1. Resolution 2. Image Quality 3. Color Effect 4. White Balance 5. Scene 6. Metering 7. Sharpness 8. EV Adjust 9. ISO 	page 7
Playback Mode 	<ol style="list-style-type: none"> 1. Erase Picture 2. Protect Picture 3. DPOF 4. Slide Show 5. Voice Memo 	page 12
Macro Mode 	<ol style="list-style-type: none"> 1. Resolution 2. Image Quality 3. Color Effect 4. White Balance 5. Scene 6. Metering 7. Sharpness 8. EV Adjust 9. ISO 	page 14
DSC Setup Mode 	<ol style="list-style-type: none"> 1. Date and Time 2. Auto Power Off 3. DPOF 4. Slide Show 5. Sound Effect 6. Languages 7. TV-out 8. Restoring 	page 15

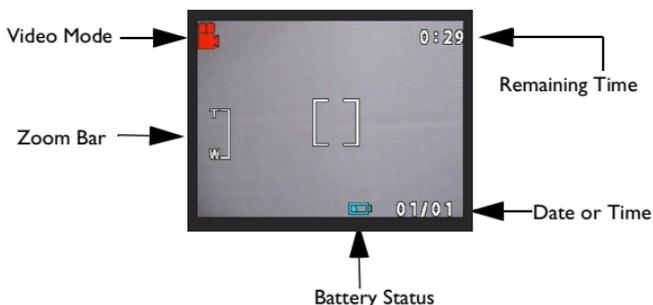
Note

Press the display button once to delete the icons from the LCD display. To turn the LCD display simply press the display button a second time. To save your battery power, it is best to not leave your display ON for a long period of time.

Working Mode

3.1.Video Mode

Video Mode allows you to use the camera as a movie recorder, and set the self-timer for recording purpose.



* The icons can be removed from the display by pressing the menu button once.

1. Turn the Mode Dial to the Video Mode
 2. To start recording a movie, press the shutter button. The camera will start checking whether the memory is sufficient to record a movie. If the memory is full, a warning sign will display on the LCD, and will automatically exit the movie recording state.
 3. If there are no warning messages with memory problems, the camera will start recording itself. To stop recording, press the shutter button again.
- **self timer:** To set the self timer under the video mode, press the right button once to activate the self timer. You will have ten seconds to get ready. The countdown will be displayed on the LCD and followed by a beep sound.

Note

The length is based on the capacity of your SD card and internal memory.

Note

Users can still zoom in and out while searching for a subject, but when the actual recording is being made, zooming in and out will not be possible.

3.2. Capture Mode

Capture mode will allow you to shoot single and continuous images, set your flash and self-timer. Depending on the environment and setting, the camera's settings will work accordingly. To exit the setting menu, simply press the menu button.

3.2.1. Shooting images

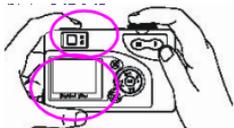
1. Under Capture Mode, press the shutter button. The camera will start checking whether the memory is sufficient to store the image. If it is full, a warning "Memory Full" icon will display on the LCD.
2. Once the picture is taken, you can erase the image under instant review. user can protect image when in playback mode
3. If you decide to erase this image, press down. An erase icon will appear on the LCD, press OK to achieve this function.

■ Basic Shooting

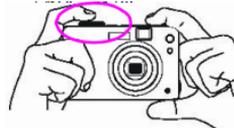
1. Turn the mode dial to the capture mode



2. Look into the viewfinder/LCD and try to align your subject in the crop mark.



3. When you are set, press the shutter button once.



■ Auto-Focus Function

Under Auto-Focus, the camera lens focuses automatically when the shutter release is pressed halfway. To activate Auto-Focus, please follow these steps:



1. Crop mark is white in normal situation. Press half shutter to activate auto focus. Crop mark turns green when focused. If fail, crop mark is red.



2. Then, fully press the shutter button to take the picture.

■ Zooming In/Out

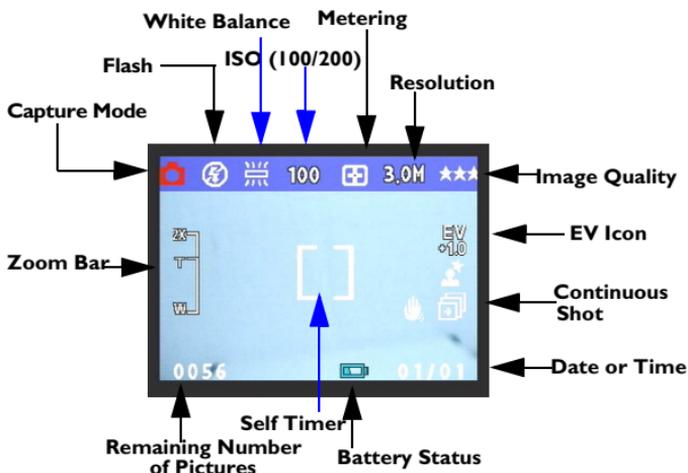
This camera has 4 x digital zoom. The zoom bar located on the left side of the LCD display, informs users of the zoom status while the zoom in or out button is pressed. The zoom lens can automatically protrude and retract.

1. Once you have aligned your subject in the LCD display, press the zoom in or out button to select your preferred distance.
2. The picture can be zoomed in up to four times the original size.

Note

4 x digital zoom are all supported in PLAYBACK Mode.

Resolution	Digital Zoom
5.5 M(S)	x 1
3.0M	x 4
1.3M	x 4
VGA	x 4



* The icons can be removed from the display by pressing the display button once.

3.2.2. FLASH Setting

To set the Flash, press the Five-Way Switch to the Left to select the desired Flash setting. You will have the four types of Flash settings: Flash Off, Auto Red-eye reduction, Flash Force On, and Night. Once you've set your Flash setting, proceed with your picture taking.

Flash Off		The Flash will not fire.
Auto Red-eye reduction		The Flash will fire depending on the light source. Red eye deduction will also be active when needed. (Flash will blink twice, picture will be shot when the second flash is fired.)
Flash Force On		The Flash always fire with every shot.
Night (Slow)		The camera extends the mechanical shutter action, and allow flash delay.

3.2.3. Self Timer

To set the self timer under the capture mode, please press Five-Way Switch to the Right button once to activate the self timer. You will have ten seconds to get ready for your pose. The countdown number will be displayed on the LCD as well followed by a beep sound.

3.2.4. Shooting Continuously Setting

Pictures can be shoot in successive orders.

1. Keep pressing the right button twice until Shooting Continuously icon appears on the LCD Display.
2. Keep pressing the shutter button to activate Shooting Continuously. Then release the shutter after the three sequences have been taken.

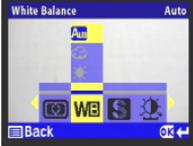
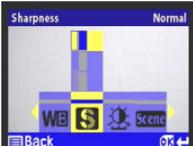
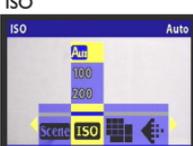
Note

Shooting Continuously function will not be available under resolution 5.5M setting.

3.2.5. Capture Mode Setup

1. Turn the mode dial to Capture Mode.
2. To enter/exit Capture Mode Setup, press the menu button.
3. Once you are in the Capture Mode Setup, you will be able to adjust the following settings.
4. To select each individual function settings, press the UP or DOWN arrow.

Function	Selection	Definition
Resolution 	Users can select from the following resolution: VGA 1.3M 3.0M 5.5M	The size of the picture. The default size is 3.0 M, but users will have the option of choosing VGA 1.3 M, 3.0 M, or 5.5 M
Image Quality 	Users can select from the following quality: Best (Default) Better Basic.	The quality of the picture. The default is Best.
Color Effect 	User can select from the following color tones: Normal (default) Sepia Black and white	It is the tone that will be applied in the picture. The default is Normal.
Metering 	Users can select from the following metering: Center Spot Matrix	It calculates the best overall exposure value. The default is Center.

<p>White Balance</p> 	<p>Users can select the following white balance:</p> <p>Auto Shade Sun Tungsten Fluorescent</p>	<p>It adjusts the relative brightness under different condition. The default is Auto.</p>
<p>Sharpness</p> 	<p>Users can select the following sharpness:</p> <p>Normal High Low</p>	<p>Enhance of edge detail. The default is Normal.</p>
<p>EV Adjust</p> 	<p>Users can select the following EV adjust: from EV+2.0~ toEV -2.0, in EV 0.5 step increase</p>	<p>This function allows users to control the exposure value, to either lighten or darken images the camera is trying to focus. The default is 0.</p>
<p>Scene</p> 	<p>Users can select the following scene:</p> <p>Night Portrait Landscape Night Portrait Off</p>	<p>This pre-defined settings make it even more convenient for users to take pictures. Users will not need to make any further adjustment to the camera. The scenes are already pre-defined.</p>
<p>ISO</p> 	<p>Users can select the following ISO setting:</p> <p>100 200 Auto</p>	<p>It adjusts the sensitivity of the camera. The higher the number, the more sensitive it is to light. The default is Auto.</p>

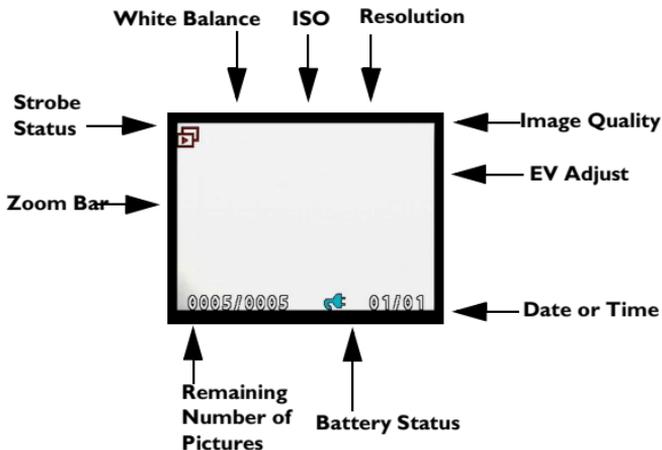
Note

The Memory Capacity will be changed according to the resolution and image quality you set, please refer to below table for the relative numbers, which will be changed a little in different photo backgrounds.

Resolution (based on 16 MB memory)	Image Quality (Best)	Image Quality (Better)	Image Quality (Basic)
2720 x 2040 (5.5M)	8	12	16
2048 x 1536 (3.0M)	14	21	28
1280 x 960 (1.3M)	36	55	73
640 x 480 (VGA)	146	218	291

3.3. Playback Mode

This mode will allow you to replay/view your images or video. It can also protect your desired images, set DPOF, slide show and voice memo.



Note

1. The icon information can be removed by pressing the menu button once.
2. Thumbnail can be viewed after the display button twice.
3. To turn off the LCD, press the display button three times.

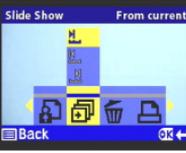
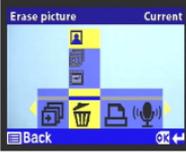
■ Displaying Thumbnails

1. Turn the Mode Dial to Playback Mode.
2. Press the display button two times to thumbnails in sets of nine.
3. Use the Five-Way Switch to change the image selection.
4. Press OK button to magnify images to standard size.
5. Press the left or right button to view other images.

■ Display with Digital Zoom

The camera has 4x digital zoom. The picture can be zoomed up to four times the original size. The five-way switch controls left, right, up, and down of the image. Press the OK button to quit Digital Zoom Display.

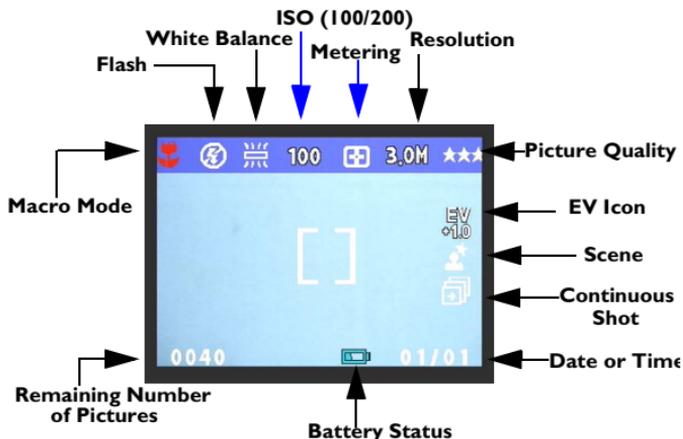
1. Turn the MODE DIAL to Playback Mode.
2. To enter/exit Playback Mode Setup, press the Menu button.
3. While you are in the Playback Mode menu setting, use the Five-Way Switch to select.

Function Setting	Selection	Definition
<p>Protect Picture</p> 	<p>Users can select the following:</p> <ul style="list-style-type: none"> Protect all Unprotect current Unprotect all Protect current 	<p>Protection setting for your pictures against accidental erasure. Once you are set, press OK to confirm.</p>
<p>Slide Show</p> 	<p>Users can select from:</p> <ul style="list-style-type: none"> From current (picture) From first (picture) From last (picture) 	<p>Pictures will be displayed in an orderly way. While you are in the Slide Show setting, press OK to start/exit slide show.</p>
<p>Erase Pictures</p> 	<p>Users can select from:</p> <ul style="list-style-type: none"> Current All Format 	<p>Erasing options for your pictures. When formatting, a warning message will appear. Press the OK button to confirm. Format will permanently remove all data such as internal memory/ SD card.</p>

<p>Digital Print Order Format or DPOF</p> 	<p>Users can select from:</p> <p>Frame Set Reset all</p>	<p>It is a standard for printing the pictures directly from the SD card. Pictures can be printed on printers compatible with the DPOF standard. frame set --> set for one image reset all --> set for all</p>
<p>Voice Memo</p> 	<p>You are allowed 20 seconds to record voice memo. Users can select from:</p> <p>Record Erase Play</p>	<ol style="list-style-type: none"> 1. Select the picture you wish you add voice memo. 2. Press menu button. 3. Choose Voice Memo. 4. Select record 4. Press the shutter to start or end recording.

3.4. Macro Mode

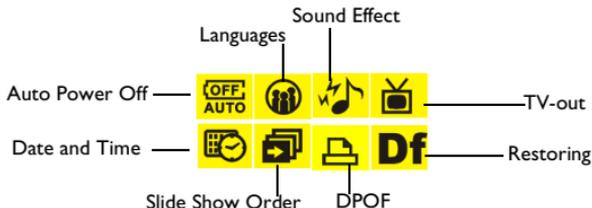
Macro mode is best used for taking close-up images with franges from 15-50 cm.



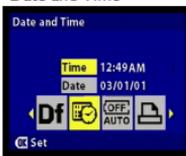
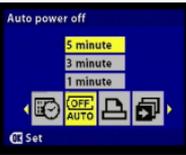
* The icons can be removed from the display by pressing the display button once.

3.5. Dsc Setup Mode

Under this mode, you will be able to set your desired settings. There are a total of eight different settings.



1. Turn the mode dial to enter the DSC Setup Mode.
2. Select the type of setup you want to perform by pushing the left or right button. Press the UP or Down arrow to select the function setting.

Function Setting	Selection	Definition
Date and Time 	Users can select to set: Time (hh:mm:ss) Date (yy/mm/dd)	Reset date and time when change battery.
Auto Power Off 	Users can select the following minutes to Auto Power Off the camera.	This setting automatically turns off the camera. (Prior to shutting off, the LCD will shut itself automatically)
DPOF 	Users can select the number of copies (1-255) of images they want to print, and whether turn the date and the no. of files on or off in the picture.	It is a standard for printing the pictures directly from the SD card. Pictures can be printed on printers compatible with the SD card. Users can set certain pictures to DPOF.

<p>Slide Show</p> 	<p>Users can select the:</p> <p>Interval Repeat Direction</p>	<p>Under this setting, users can set the number of seconds they want the slide show to proceed per slide, repeat the show or not, and the direction where these slides should proceed.</p>
<p>Sound Effect</p> 	<p>Users can select either on or off</p>	<p>This function allows users to turn the sound ON or OFF.</p>
<p>Languages</p> 	<p>Users can select from the following languages:</p> <p>Deutsch English French Italian Japanese Korean Spanish Simplified Chinese Traditional Chinese</p>	<p>There are a total of nine languages you can choose to navigate this camera. Camera will keep your language setting but users will need to reset when change battery. Press the Up or Down button to select. Press OK to confirm.</p>
<p>TV-Out</p> 	<p>Users can select from:</p> <p>NTSC PAL</p>	<p>Depending on where your location, different region requires different system for TV-out function. Please use the docking station (Optional) to set the TV-Out. Press the Up or Down button to select. Press OK to confirm.</p>
<p>Restoring</p> 	<p>Reset back to default.</p>	<p>To revert the setting back to the default setting. Press the OK if you want to, if not, press the "right" or "left" button to continue next setting. When restoring is completed, "done" will appear on the LCD.</p>

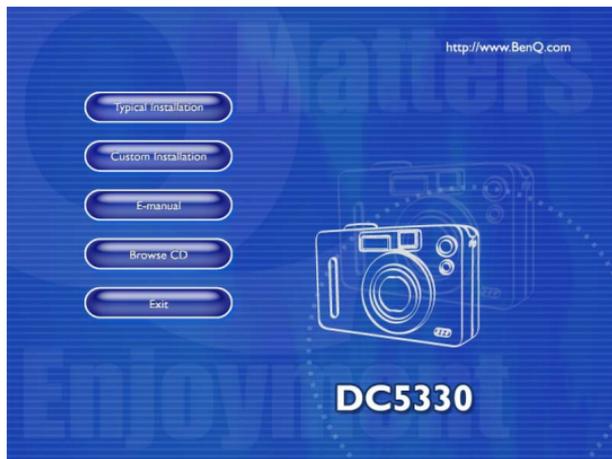
4. PC DEPENDENT FEATURES

Preparations

To use the PC dependent functions, you need to install your digital camera software and connect the camera to your PC.

4.1. Installing digital camera software

- If your operation system is Windows 98, please setup the DC 5330 driver first, if the operation system is Windows ME/2000/XP, then it's not necessary for you to setup driver in advance.
- It's recommended that you setup driver and software before connecting digital still camera to your PC for smooth installation. Normally, a software installation menu appears automatically after this installation CD is inserted into your CD-ROM drive.



- Click on each item to start installing the software program of your choice. If the menu did not appear, please browse the CD and find a program file named "setup.exe" in the root directory and double-click on it. The menu will appear. If you want to know the content of this CD and install software manually, please refer to the descriptions of the CD content below.

4.2. The Software of this Installation CD

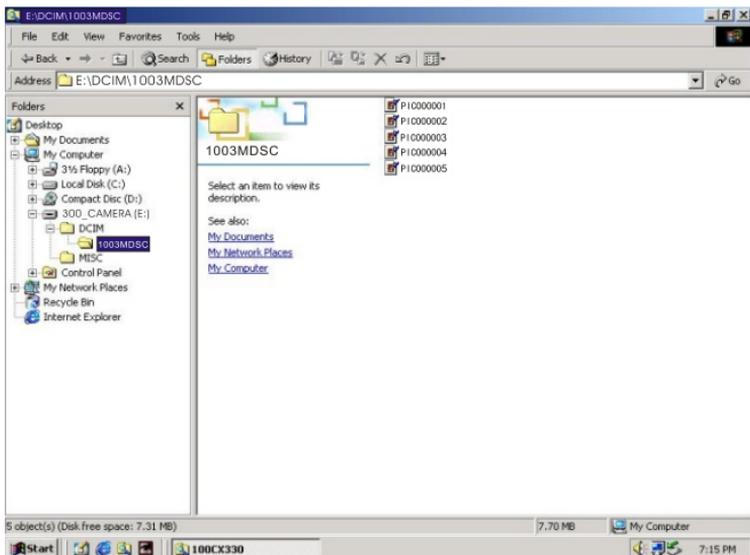
Software	Description
1. PhotoBase	Arcsoft PhotoBase, for you to find and organize your media-files efficiently. You can use it to create a slide show, a web album, or a video postcard, then sharing these media-files with your friends through internet.
2. PhotoImpression	ArcSoft PhotoImpression, it is an easy-to-use photo editing and creative design program. You can edit and retouch your photos, then add special effects or place them in cards, calendars, frames and fantasy templates. PhotoImpression also includes a wide variety of printing options.
3. VideoImpression	Arcsoft Video Impression, for you to edit and combine the video files. New videos can be created by existing video, animation, and image files, quickly and easily create desktop video presentations for use at home, business or on the internet.
4. PhotoPrinter Pro.	Arcsoft Photo Printer this versatile printing utility lets you print out casually, it can be several different images on a single sheet of paper. It's as simple as opening your image, selecting from an assortment of templates and clicking Print.
5. Microsoft DirectX	Microsoft DirectX, an all-in-one and cross-platform media tool.
6. Acrobat reader	Adobe Acrobat Reader, it's a "must have" utility to read files in the popular cross-platform file format "PDF".
7. BenQ Q-link	BenQ Q-link, for your smart photo downloads, printout, edit function and share via email with others, for photos folders management and could also slide show photos on screen.

4.3. Downloading the Image(s)

Under Windows Operating System (Windows 98/98SE/2000/ME/XP)

■ Downloading Image(s) From Removable Disk

1. Turn on the PC.
2. Switch on the camera.
3. Connect the camera to the PC with USB cable under any working mode.
Please make sure the USB cable is well connected to the PC and camera.
4. When the USB cable is connected to the PC, it will create a new hard disk named Removable Disk .
5. The stored image(s) can be found in Removable Disk\300_CAMERA.
6. View the image with double-clicks.



5. TROUBLESHOOTING (ERROR MESSAGE TABLE)

Symptoms	Causes	Solutions
The power won't turn on.	<ul style="list-style-type: none"> The battery is out of power. The AC power adapter is not well connected or damaged. 	<ul style="list-style-type: none"> Use the battery charger to charge the battery. Make sure the AC power is connected and it's not damaged.
The power turns off during use.	<ul style="list-style-type: none"> The battery is out of power. Auto power off. The battery/SD card cover is opened when in process. The adapter has not been connected properly. 	<ul style="list-style-type: none"> Use the battery charger to charge the battery. Switch on the Power . Do not opened the battery/SD card cover when camera is under operating. Connect the adapter correctly.
The battery power is draining quickly.	<ul style="list-style-type: none"> The external temperature is too cold. The battery is not used for a long time. 	<ul style="list-style-type: none"> Keep the camera away from extreme temperatures. Recharge the battery with battery charger.
The camera does not take pictures when the shutter button is pressed .	<ul style="list-style-type: none"> The camera is not set at Recording Mode. The battery is weak. The power has not been switched on. 	<ul style="list-style-type: none"> Set the Mode Dial at Recording Mode. Replace the battery with a new one. Switch on the power.
The close-up image is blurred.	<ul style="list-style-type: none"> You should select the correct focus range. 	<ul style="list-style-type: none"> If the subject is within 15 cm, select macro mode from mode dial.
The flash does not fire.	<ul style="list-style-type: none"> The camera flash is turned off. The light source is sufficient. 	<ul style="list-style-type: none"> Set the flash mode to Auto Flash or Fill-in Flash mode.
Incorrect date/time is displayed.		<ul style="list-style-type: none"> Reset Date/Time.
Camera fails to work by any button or switch.		<ul style="list-style-type: none"> Removed the battery and reload again.
There is something wrong with the color of the captured image.	<ul style="list-style-type: none"> White Balance is not set properly. 	<ul style="list-style-type: none"> Set white balance to Auto mode or other suitable mode.
The picture is too bright or too dark.	<ul style="list-style-type: none"> There is excessive or inadequate exposure. 	<ul style="list-style-type: none"> Reset exposure compensation.
The TFT LCD monitor is not clear.	<ul style="list-style-type: none"> The LCD monitor plastic cover is dirty. 	<ul style="list-style-type: none"> You should clean the LCD cover.

The camera cannot download images to the PC.	<ul style="list-style-type: none"> • Cable is not connected properly. • Camera is off. • There are no battery or the adapter is not well connected. • OS is not Window 98/98SE / 2000/ME/XP or PC is not equipped with USB port. • USB driver is not installed. 	<ul style="list-style-type: none"> • Check the cable connection. • Turn on the power. • Load new battery or check the AC power adapter connection. • Install Windows 98/98SE/2000/ME/XP and USB Port. • Install USB Driver.
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6. SPECIFICATIONS

Image Sensor	1/2.5" CCD with 3.23 Mega pixels
Lens	f=35-104 mm (film equivalent) F2.8 / F4.8
Digital Zoom	Capture Mode:4x (continuous)& Play Mode:4x (continuous)
Viewfinder	Optical real image viewfinder
LCD Monitor	1.6" color TFT LCD (240 x 354 pixels)
Focusing	TTL Auto Focus
Focusing Range	Macro: 15cm, Normal: 0.5m-infinity
Shutter	Mechanical shutter and Electrical shutter
Shutter Speed	1/30~ 1/1000 sec. Mechanical shutter 1/1000 sec. Electrical shutter
Exposure	Center weighted TTL AE / Exposure compensation ± 2 EV (0.5 EV / step)
ISO Equivalent	100,200 (Automatic)
White Balance	Auto / Shade / Sun / Tungsten / Fluorescent
Flash	Auto / Fill-in flash / Red - eye reduction / Flash off

Flash Range	0.5 ~ 2.5m
Self-timer	10 seconds with LED indicator
Movie Clips	Size : 320x240 with sound Recording time : Manual (unlimited length)
Storage	Internal memory: 16MB flash memory; External memory: support SD Card
File Format	Still Image: JPEG , EXIF2.1 , DCF, DPOF; Movie Clip: AVI format with wave sound
Image size	Extra-Large: 2720 x 2040 (by interpolated), Large: 2048 x 1536 pixels, Medium: 1280 x 960 pixels, Small : 640 x 480 pixels
Image Play	Single image / AVI play / Thumbnails / Slide show
Interface	Digital output connector: USB 2.0 DC power input connector: 5V
Power Source	Lithium-ion battery, DC adaptor (optional)
Dimensions (WxHxD)	96 x 61 x 38 mm
Weight	185g (without batteries and card)

System Requirments

FOR WINDOWS	<ul style="list-style-type: none"> * Pentium MMX-class CPU * 64MB RAM * CD-ROM drive * 100MB free hard disk space * Available USB port * Windows XP/ME/2000/98SE/98
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7. SERVICE INFORMATION

Technical support

If you encountered problems using DC 5330 and the camera driver program, please send an E-mail (containing detailed descriptions of the problem you came upon, the hardware and software environment of your system) to the following addresses:

USA: support-sc@BenQ.com

Europe: service@BenQ-eu.com

Taiwan: service-tw@BenQ.com

China: service_china@BenQ.com

Asia and other countries: support@BenQ.com

For free driver program updates, product information and news release, please visit the following web address:

<http://www.BenQ.com.tw/global/>

<Memo>