BELL+HOWELL

S20HD Slim

Content

1. Parts of the Camera

1: Flash

2: Shutter button

3: Power button

4: Self-timer indicator light

5: Lens

6: USB jack

7: Microphone

8: Left/self-timer button
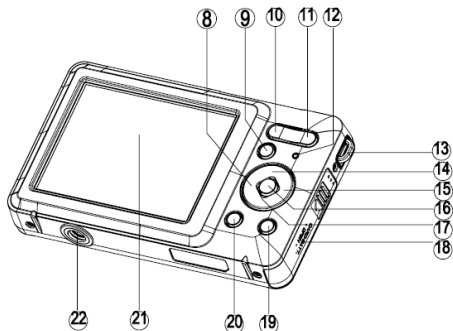
9: Playback button

10: Zoom out button

11: Zoom in button

12: Status indicator light

13: Hand strap

14: Up/Display button

15: Right / Flash button

16: OK button

17: Down/Mode button   20: Menu button

18: Battery /SD card cover   21: TFT monitor screen

19: Delete Button   22: Tripod socket

2. Preparing for Use

Installing the Battery

1. Push the lock button (1) down to open the battery cover.
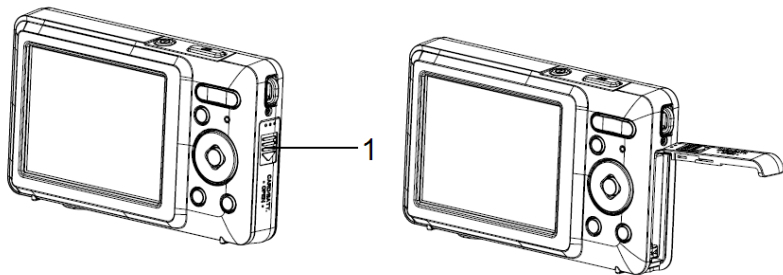
2. Insert the battery with the positive (+) and negative (-) poles matching
   the directions indicated inside the battery compartment.
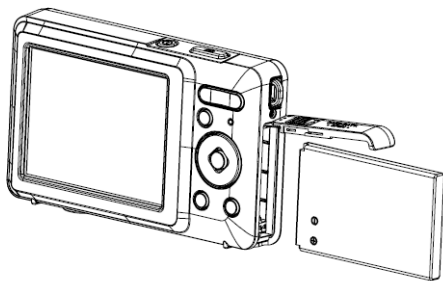
3. After the battery is properly installed, replace the battery cover until a
   click is heard.

Charging the Battery

Please charge the battery when the indicator shows the ▭ icon.

1. Power the camera off.
2. Connect the camera to the computer or AC adaptor with the USB cable.
3. Charging begins when the charge indicator LED turns GREEN. The
   charge indicator light turns OFF when charging is completed.
4. Disconnect the camera.

Inserting the Memory Card

1. Power the camera off.

2. Push the lock button (1) down to open the battery cover. You will then see the SD card slot.
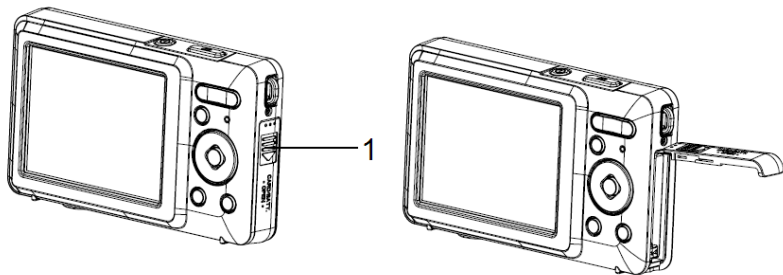
3. Insert the memory card into the card slot with the label facing the LCD screen. Confirm is it being inserted in the right direction before inserting the memory card.
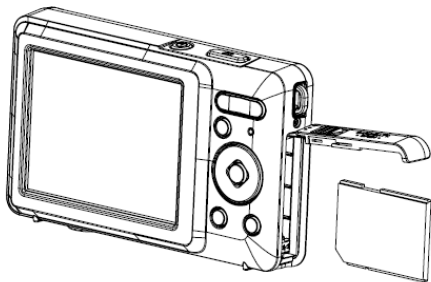
- To remove the memory card, open the battery cover first and then press the edge of the card gently. The card will pop out.

Formatting the Memory Card

It is important to format the memory card when using your camera for the first time. All data will be deleted including protected files. Be sure to download any needed files to your computer before formatting.

1. Power the camera on, and set the digital camera to the Setup Menu.
2. Press the **Up/Display** or **Down/Mode** button to select **[Format]** then press the **OK** button to launch the submenu.
3. Press the **Up/Display** or **Down/Mode** button to select the item and then press the **OK** button to launch the format submenu.

4. Press the **Up/Display** or **Down/Mode** button to select the item **[Yes]** and then press the **OK** button to erase all data.

Setting the Language

When using your camera for the first time after purchasing it, be sure to choose a language and set the date & time before initial use.

1. Power the camera on, and set the digital camera to the Setup Menu..
2. Press the **Up/Display** or **Down/Mode** button to select **[Language]** then press the **OK** button to launch the submenu.
3. Press the **Up/Display** or **Down/Mode** button to select the desired language and then press the **OK** button to confirm the setting.

Setting the Date and Time

1. Power the camera on and press the **MENU** button to display the menu.
2. Press the **Left** or **Right** button to select [Capture Setting] Menu.

3. Press the **Up** or **Down** button to select [**Date]** then press the **OK** button to launch the submenu.

4. Press the **Up** or **Down** button to select [**Set Date]** then press the **OK** button to launch the dialog box.

5. Press the **Up** or **Down** button to change the highlighted value. Press the **Left** or **Right** button to move the cursor between settings.

YY	MM	DD
2012⬍	01	02
hr	min	sec
06	42	58

6. Press the **OK** button to confirm the settings.
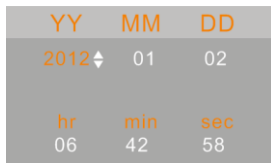
Note: The date and time can be only added to still images by setting the function [Date] in Capture Setting menu.

LCD Screen Display

1. Camera Mode

   ⬛ Still Image Capture
   ⬛ Video recording
   ⬛ Audio recording
   ▶ Playback
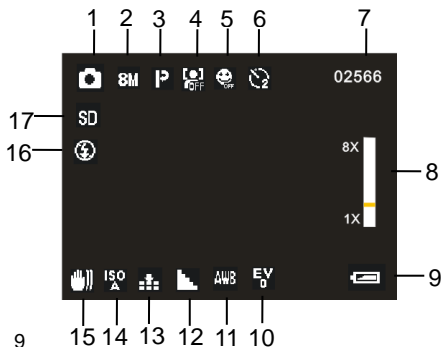
2. Image Resolution

- 20M 5200x3900
- 16M 4608x3456
- 12M 4000x3000
- 10M 3648x2736
- 8M 3264x2448
- 7M 3072X2304
- 5M 2592x1944
- 3M 2048x1536
- 2M 1600x1200
- VGA 640x480

3. Scene Mode

- P Auto
- Night Portrait
- Night Scenery
- Portrait
- Scenery
- Sport
- Party
- Beach
- High Sensitivity

4. Face Detection

- On
- Off

5. Smile Capture

- On
- Off

6. Self-Timer

- Off
- 2 Seconds
- 5 Seconds
- 10 Seconds
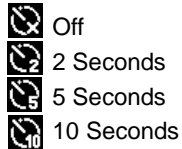
7. Number of pictures Remaining on SD Card

8. Zoom Value Level

9. Battery Power Level
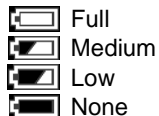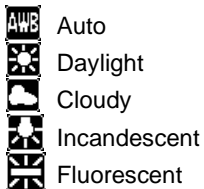
- Full
- Medium
- Low
- None

10. Exposure

- +3
- +2
- +1
- 0
- -1
- -2
- -3

11. White Balance

- Auto
- Daylight
- Cloudy
- Incandescent
- Fluorescent

12. Sharpness

- Sharp
- Normal
- Soft

13. Image Quality

- Super Fine
- Fine
- Normal

14. ISO

- Auto
- 100
- 200
- 400
- 800

15. Anti-Shake

- On
- Off

16. Flash Mode

- Always On
- Auto
- Off

17. SD Card inserted

- No protect status
- Protect status
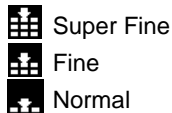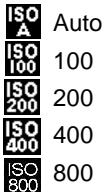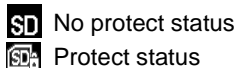
Video Record Mode [▭]

1. Video record icon
2. Video Resolution
3. Recording time available
4. Zoom value level
5. Battery power level
6. Exposure
7. White Balance
8. Sharpness
9. Image quality
10. SD Card inserted

▭	VGA	01:04:24
SD		
		8X
		4
		1X
⊞ ▮ AWB EV₀		▭ 5
9 8 7 6		
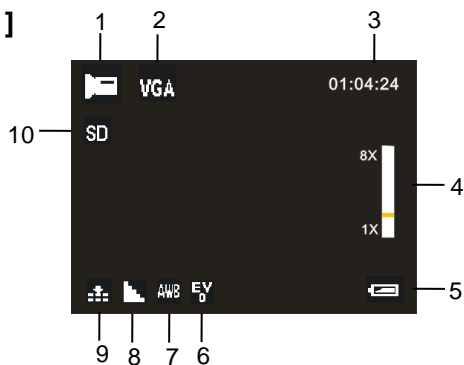
Audio Mode [🎤]

1. Audio recording icon
2. Audio recording time available
3. Battery power level
4. SD Card inserted

🎤	12:56:31
SD	
	▭
	3

1
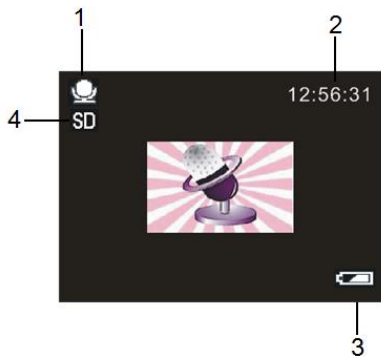
Playback Mode [▶]

1. ▶ Playback still image icon
   ▦ Playback movie clips icon
   🔊 Playback audio recording icon
2. Image/Video size
3. File number on SD card/
   Current Image Number#/
   Video#/Audio#
4. Date Imprint
5. Video recording time
6. Battery power level
7. Date stamp (Only still Image mode)
8. Press the **SHUTTER** button to playback video file
9. Press the **UP** button to automatically play slide show.
10. SD Card inserted

```
      1    2                        3
    ┌─────────────────────────────────┐
    │ ▶  8M                 100-0005  │── 4
    │ ▦                  06:42 01/02  │── 5
    │ 🔊                    00:00:24  │
10 ─│ SD                              │
    │                                 │
  9 ─│ ▲ Slide Show                   │
    │ Play ➞ SHUTTER  2012/01/02 05:42:58 ▭ │── 6
    └─────────────────────────────────┘
              8          7
```

1
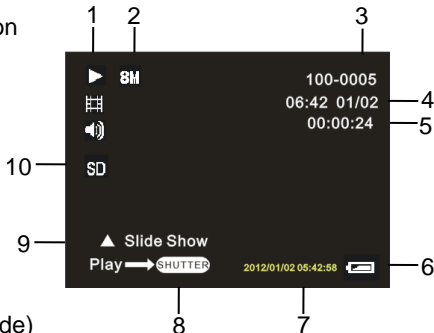
3. Using the Camera

Powering the Camera On and Off

Press the **POWER** button to power the camera on and press it again to power the camera off.

To conserve battery power, you can change the power-off time by setting the [Auto Power Off] function in the Setup menu.

Change the Recording Mode

There are three modes for use.

1. Press the **POWER** button to power the camera on.

2. Press the **Down/Mode** button to change the mode. Each time the **Down/Mode** button is pressed the mode icon is changed.

Display	Title	Description
🔳	Capture mode	For taking still photos.
▭	Video mode	For recording movie clips.
🔲	Audio mode	For recording audio files.
▶	Playback mode	For previewing record files.

Note:

You can only switch the camera to playback mode by using the PLAYBACK button. Press the PLAYBACK button to set the camera to playback mode ▶ and press it again to exit back to recording.

Shooting Still Photos

1. Power the camera on and set the camera to default capture mode, the icon 🔘 appears on the LCD screen.
2. Zooming:

   Press the **T** or **W** button to zoom in or zoom out the screen. the value of magnification level appears on the LCD monitor.
3. Hold the digital camera steady and then press the **SHUTTER** button completely to shoot a photo.

Using the Self-Timer

Use the self-timer to set a delay from the time the shutter button is pressed to the time the image is captured.

1. Power the camera on and set the digital camera to the Capture mode.
2. Press the **LEFT/SELF-TIMER** button to change the self-timer mode.

Each time the **LEFT/SELF-TIMER** button is pressed, the self-timer icon changes.

Off: Don't use self-timer.

2 Seconds: The shutter release will delay for 2 seconds.

5 Seconds: The shutter release will delay for 5 seconds.

10 Seconds: The shutter release will delay for 10 seconds.

3. Press the **SHUTTER** button to take a picture.

4. After Self-timer begins, the self-timer LED will flash. One second per Flash until count down is completed.

Using the Flash

The flash is not only for taking pictures when there is insufficient light, but also for when the subject is in shade or with backlight conditions. Pressing the **RIGHT/FLASH** button cycles your camera through the various flash modes. The flash will not activate during continuous shooting or movie recording.

1. Set the digital camera to a Capture mode (photo or video).

2. Press the **RIGHT/FLASH** button to change the flash mode.

Each time the flash button is pressed, the flash icon changes.

⚡A	Auto: Automatically turn on/of

⚡	Flash on: Force on the flash
☉	Flash off: Force off the flash

3. Press the **SHUTTER** button to shoot a photo.

Note:

When the battery power level is low, the flash strobe will not activate.

Pressing the **RIGHT/FLASH** button, a message displays "Low battery" on to inform you that the flash strobe will not fire.

Recording a Video Clip

1. Power the camera on and press the **DOWN/MODE** button to set the digital camera to video record **▣** mode.

2. Zooming:

   Press the **T** or **W** button to zoom in or zoom out the screen. The value of magnification level appears on the LCD monitor.

3. Press the **SHUTTER** button to start recording.

4. Press the **SHUTTER** again to end recording. If the memory is full the video camera will stop recording automatically.

• The upper portion of the LCD monitor displays the recorded time.

• Do not remove the card when video recording, Or, it may cause the digital camera can not work normally.

Recording Audio

1. Turn on the camcorder and set the camera to audio record mode (🎤).
2. Press the **SHUTTER** button to start recording.
3. Press the **SHUTTER** button again to end the recording. If the memory is full the camera will stop recording automatically.

4.Using the Menu in Record Mode

When a menu is displayed, the **UP**, **DOWN, OK** button are to be used to confirm a desired setting.

Menu in Capture Mode

1. Power the camera on and set it to capture mode.
2. Press the **MENU** button to display the menu, and press the **LEFT** or **RIGHT** buttons to select the desired menu.
3. Press the **UP** or **DOWN** buttons to select an item.
4. Press the **OK** button to enter the submenu.
5. Use the **UP** or **DOWN** buttons to select the desired item.
6. Press the **OK** button to confirm the setting and close the menu.

Menu item	Function	
Mode	You can select a scene mode according to the image you wish to capture. There are 9 available modes. [Auto]/[Night Portrait]/[Night Scenery]/[Portrait]/[Scenery] [Sport]/[Party]/[Beach]/[High Sensitivity].	
Image Size	There are 9 available options for selection: [20M]: 5200x3900; [16M]: 4608x3456; [12M]: 4000x3000; [10M]: 3648x2736; [8M]: 3264x2448; [7M]: 3072x2304; [5M]: 2592x1944; [3M]: 2048x1536; [2M]: 1600x1200; [VGA]: 640x480;	
Anti-Shake	Use the function to avoid a shaking when shooting photos. There are 2 options for selection. [On]/[Off].	
Face Detection	Use this function to detect faces when taking pictures. There are 2 options for selection. [On]/[Off].	
Smile Capture	Setting smile capture to on, Face Detection will be automatically enabled. Once it detects smile, the camera will automatically shoot a photo. [On]/[Off]	
Shooting		Use this function to take 6 pictures continuously.

	Multi-Snapshot	[On]: Press the shutter button once to take six pictures continuously. [Off]: Press the shutter button once to take one picture at a time.
	Panorama	Use this function to shoot an entire surrounding area. Shooting the directional position at 180 degrees horizontally and 90 degrees vertically. [Off]/[Up]/[Right]
	Self-Timer	Use the self-timer to set a delay from the time the shutter button is pressed to the time the image is shot. [Off]/[2 Seconds]/[5 Seconds]/ [10 Seconds]
Capture Setting	ISO	The ISO menu allows you to set the level of sensitivity that your camera has to light in the surrounding environment. [Auto]/[100]/[200]/[400]/[800].

		This function can be used to add a date or time to your pictures as you take them. There are 3 options for selection: [On]: Add the date & time to printed images. [Off]: Do not add the recording date & time to printed images. [Set Date]: Allows you to set the date and time for the digital camera.
	Date	
Image Setting	Exposure	Set the exposure value manually to compensate for unusual lighting conditions such as indirect indoor lighting, dark backgrounds, and strong backlighting. The exposure value range is –3 to +3.
	White Balance	Adjust the white balance to suit different lighting sources. There are 5 options for selection: [Auto]/[Daylight]/[Cloudy]/[Incandescent]/ [Fluorescent]
	Frequency	Light Frequency should be set to either

		60Hz or 50Hz depending on your region. [50HZ]/[60HZ]
	Image Quality	Select a lower image quality to decrease the image size in order to capture more images on your SD card. There are 3 options for selection: [Super Fine]/[Fine]/[Normal]
	Sharpness	You can set the level of sharpness in the photos taken with your camera. The sharpness level dictates if the edges of objects in the image are more or less distinct. [Sharp]/[Normal]/[Soft]
	Effect	Set the color effect to add a color tone to the picture. [Normal]/[B&W]/[Sepia]/[Red]/[Green]/ [Blue]/[Sunset]/[Warm]/[Cool]/ [Over Exposure]/[IR]/[Binary]/[Vivid]/ [Undertone]/[Dog Eye]/[Aibao]/[Gothic]/ [Japan Style]/[LOMO]/[Negative]
	Saturation	Sets the image's saturation. [High]/[Normal]/[Low]

Menu in Video Mode

1. In video record mode, press the **MENU** button to display the menu.
   and press the **LEFT** or **RIGHT** buttons to select the desired menu.
2. Press the **UP** or **DOWN** buttons to select an item.
3. Press the **OK** button to enter the submenu.
4. Use the **UP** or **DOWN** buttons to select the desired selection.
5. Press the **OK** button to confirm the setting and exit the menu.

Menu item	Function	
Size	Select a higher recording size for better resolution. There are 4 options for selection: FHD:1920x1080 HD; HD:1280x720 HD; D1:720x480; VGA: 640x480; QVGA: 320x240	
Image Setting	Exposure	Set the exposure value manually to compensate for unusual lighting conditions such as indirect indoor lighting, dark backgrounds, and strong backlighting. The exposure value range is –3 to +3.
	White Balance	Adjust the white balance to suit different lighting sources. There are 5 options for

		selection: [Auto]/[Daylight]/[Cloudy]/[Incandescent]/ [Fluorescent]
	Frequency	Light Frequency should be set to either 60Hz or 50Hz depending on your region. [50HZ]/[60HZ]
	Image Quality	Select a lower image quality to decrease the image size in order to capture more images. There are three options for choice: [Super Fine]/[Fine]/[Normal]
	Sharpness	You can set the level of sharpness in the images taken with your camera. The sharpness level dictates if the edges of objects in the image are more or less distinct. [Sharp]/[Normal]/[Soft]
	Effect	Set the color effect to add a color tone to the picture. [Normal]/[B&W]/[Sepia]/[Red]/[Green]/[Blue]/ [Sunset]/[Warm]/[Cool]/[Over Exposure]/[IR]/ [Binary]/[Vivid]/[Undertone]/[Dog Eye]/ [Aibao]/[Gothic]/[Japan Style]/[LOMO]/

		[Negative].
	Saturation	Sets the image's saturation.
		[High]/[Normal]/[Low]

Setup Menu

You can set the system items in the setup menu.

1. Power the camera on and press the **MENU** button to display the menu.
2. Press the **LEFT** or **RIGHT** buttons to select [Setup] Menu.
3. Press the **UP or DOWN** buttons to select an item.
4. Press the **OK** button to enter the submenu.
5. Press the **UP or DOWN** buttons to select the desired item.
6. Press the **OK** button to confirm the setting and exit the menu.

Menu item	Function
Auto Power Off	To conserve power, the camera powers off automatically after a period of time. There are 7 options for selection: [Off]/[1Minute]/[2 Minutes]/[3 Minutes]/[4 Minutes]/[5 Minutes]/[10 Minutes]
Sound Effect	Sets the operation sound effects on or off.
Language	Select a language for the Display menu and interface
LCD	Sets the LCD screen's brightness.

Brightness	[Dark]/[Normal]/[Bright]
Default Setting	To reset the entire menu and button operation settings to factory default settings.
Format	To erase all data stored on the memory card if you are using a memory card, or all data stored in the internal memory if there is no card inserted. All data will be deleted including protected files. Be sure to download any needed files to your computer before formatting.

5. Playback

Playback Still Image

1. Press the **PLAYBACK** button to enter playback mode.

   The latest recorded file appears on the LCD screen. If there are no images stored, a message [No File Exist] is displayed.

2. Press the **LEFT** or **RIGHT** buttons to preview the previous or next image.

3. Press the **UP** button to play slide show.

4. Zooming:

   Press the **T** or **W** button to zoom in or zoom out the image. When the picture is enlarged press the **UP, DOWN, LEFT, RIGHT** button to browse

2

the details of the image.

5. Press the **OK** button to resume the normal mode.

Playback Movie Clips

1. Press the **PLAYBACK** button to enter playback
2. Press the **LEFT** or **RIGHT** buttons to select the movie clips you want to playback.
3. Press the **SHUTTER** button to start playing and press it again to pause，press **UP** button to end the playing.

Playback Audio Files

1. Press the **PLAYBACK** button to enter playback.
2. Press the **LEFT** or **RIGHT** buttons to select the audio file you want to Playback.
3. Press the **SHUTTER** button to start playing, press the **OK** button to pause and press it again to continue, press the **SHUTTER** button again to end the playing.

Viewing Thumbnails

Press the **W** button in playback mode to view the file as a thumbnail. Use the **LEFT/RIGHT/ UP/DOWN** buttons to select a file. Press the **OK**

button to view the file in full screen.

Menu in Playback Mode

1. In playback mode press the **MENU** button and press the **LEFT** or **RIGHT** buttons to select the desired menu.

2. Press the **UP** or **DOWN** buttons to select an item.

3. Press the **OK** button to enter the submenu.

4. Press the **UP or DOWN** buttons to select the desired item.

5. Press the **OK** button to confirm the setting and close the menu.

Menu item	Function
Rotate	Use this function to rotate the images. [90º]: Rotate the image 90 degrees clockwise. [180º]: Rotate the image 180 degrees clockwise. [270º]: Rotate the image 270 degrees clockwise. [Cancel]: Cancel image rotation.
Protect	Use this function to protect files from being deleted by accident. [Lock This]: Lock the current file. [Unlock This]: Unlock the current file. [Lock All]: Lock all files. [Unlock All]: Unlock all files.

Delete	Use this function to delete a single file or all files.
	[This Image]: Delete current singe file.
	[All]: Delete all files except locked files.
	[Cancel]: No delete the file.
Crop Image	Use this function to crop an image.
	[Crop]: Use the **UP/DOWN/LEFT/RIGHT/**
	Zoom In/Zoom Out buttons to select a select a range,
	and then press the **OK** button to crop the selected
	range, at last press it again to save the cropped image.
	[Cancel]: No crop the image.
PictBridge	Use this function to print a picture without a computer.
	Make sure you have a printer which supports
	PictBridge function and then connect it to the camera
	via the USB cable. [PictBridge]/[Cancel]

6. Making Connections

Connecting Your Camera to a PC

There are two ways to download files from the camera's internal memory or memory card to a computer:

- By inserting the memory card into a card reader
- By connecting the camera to a computer using the supplied USB cable.

Using a Card Reader

1. Eject the memory card from the digital camera and insert it into a card reader that is connected to a computer.

2. Open [My Computer] or [Windows Explorer] and double-click the removable disk icon that represents the memory card.

3. Copy images from the card into a directory of your choice on the computer's hard disk.
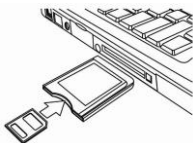
Connecting the Camera to a PC with the USB Cable

1. Connect the supplied USB cable to the computer's USB port and turn on the digital camera. "MSDC" appears on the screen when connection to the computer has been successfully completed.

2. Open [My Computer] or [Windows Explorer]. A "Removable Disk" appears in the drive list. Double-click the "Removable Disk" icon to view its contents. Files stored on the camera are located in the folder named "DCIM".

3. Copy the photos or files to your computer.

Note: To enter PC CAM mode, at first you have to hold and press the shutter button for a few seconds, then connect the camcorder to the computer with the supplied USB cable. An icon "PC CAM" will appear on the screen. If not, please continue to press the shutter button and press the power button as well. An icon "PC CAM" appears on the screen.

7. Software Installation

Insert the CD into your CD-ROM drive. The autorun menu appears:

The following software listed below will be seen on the menu of the bundled software CD on your computer screen:

• Install MAGIX Video easy SE- Installs software for editing video clips.

• Install MAGIX Photo Manager 10 - Installs software for editing pictures.

Click the items in the autorun menu to install the software.

If the autorun menu does not appear automatically, open the CD-ROM in [My Computer] or [Windows Explorer] and then double-click the file named [start.exe] to start the program. You can also click [Run] in the Windows Startup menu, enter "D:\start.exe" (where D is your CD-ROM drive letter) in the text box, and click [OK].

Notes:

1. Open MAGIX Video easy SE or MAGIX Photo Manager 10, you have to register the software at first, then use program without any time limit.
2. Don't forget to install the QuickTime Player during installing the MAGIX Video easy SE.
3. MAGIX Video easy SE and MAGIX Photo Manager 10 only include Windows XP and Windows Vista, Windows 7 platforms.

System requirements for Magix Video Easy SE:

► Intel® Pentium 4 or AMD® Athlon® 1 GHz and higher
► 512 MB RAM
► 400 MB free hard disk memory and a DVD drive for program installation
► Graphics card with a screen resolution of at least 1024 x 768

► Sound card

Supported devices:

► Video, TV, or graphics cards with video input.

Magix Photo Manager 10:

System Requirements (minimum configuration)

► Microsoft® Windows® XP I Vista® I 7. PC with Intel® Pentium® or AMD® Athlon® 700 MHz or higher
► 256 MB RAM, 120 MB hard disk space for program files
► SVGA graphics card with min. 4 MB RAM, (min. resolution 1024 x 600, 16-bit high-color)
► Microsoft® compatible mouse.

8. Technical Specifications

Image Sensor	8.0Mega Pixels CMOS
Display	3.0" TFT Color LCD
Aperture	F 2.8，f=5.3mm
Shutter Control	Electronic Shutter
Shutter Speed	Shutter: 1/2~1/2000 sec.
Resolution	Still Image:
	[20M]: 5200x3900; [16M]: 4608x3456;
	[12M]: 4000x3000; [10M]: 3648x2736;
	[8M]: 3264x2448; [7M]: 3072x2304;
	[5M]: 2592x1944; [3M]: 2048x1536;
	[2M]: 1600x1200; [VGA]: 640x480;
	Video:
	FHD:1920x1080 HD; HD:1280x720 HD;
	D1:720x480; VGA: 640x480; QVGA: 320x240
Sensitivity	Auto/100/200/400/800
White Balance	Auto/Daylight/Cloudy/Incandescent/Fluorescent
Exposure	+3.0 EV ~ -3.0 EV in 1.0EV increment
Effect	Normal, B&W, Sepia, Red, Green, Blue, Sunset,

	Warm, Cool, Over Exposure, IR, Binary, Vivid, Undertone, Dog Eye, Aibao, Gothic, Japan Style, LOMO, Negative.
Mode	Auto, Night Portrait, Night Scenery, Portrait, Scenery, Sport, Party, Beach, High Sensitivity
Continuous Shot	3 Frames (per shot)
Self-Timer	2 /5 /10 seconds
Storage	SD , MMC, Support SDHC
Power Supply	Lithium-Ion Battery
PC Interface	Mini USB 2.0 (Hi-Speed)
Supported O/S	Windows 7 and later
Dimension	100.0x59.8x18.4 (mm)
Weight	Camera Body w/o battery: Approx. 75g

If you're having difficulties with your camera, or would like further assistance, please call our toll-free technical support hotline at 800-441-1100. Please be sure to have your camera handy when calling.