

COBRA

DC5500

User Manual

Thank you for purchasing this product. Please read this User Manual carefully before use. Keep this Manual for future reference.

CAUTIONS

- 1 Do not fire the flash close to anyone's eye. This might cause damage to the person's eyesight.
- 2 Do not subject the LCD screen to impact. This might damage the glass on the screen or cause the internal fluid to leak. If the internal fluid comes into contact with your body or clothes, rinse with fresh water. If the fluid entered your eyes, consult a physician immediately after rinsing.
- 3 A digital camera is a high precision electrical and optical instrument. Do not drop it, strike it or use excessive force when handling. This might cause malfunction to the camera.
- 4 Do not use the camera in humid, steamy, smoky, or dusty environments. This might cause fire or electric shock.
- 5 Do not remove the battery immediately after long period of continuous use. The battery becomes hot during use. Touching a hot battery might cause burns.
- 6 Do not wrap the camera or place it in cloth or blankets. This might cause heat to build up and deform the case, resulting in fire. Use the camera in a well-ventilated place.
- 7 Do not leave the camera in places where the temperature may raise significantly, such as inside a car. This might adversely affect the case or the parts inside, resulting in fire.
- 8 Before you move the camera, disconnect cords and cables. Failure to do this might damage cord and cables, resulting in fire and electric shock.
- 9 Handling the USB on this product may expose you to lead, a chemical know to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.
- 10 Please always download the stored images to your PC soon after images captured.
- 11 When camera is not in your native language, enter SETUP and look for  icon and switch to your preferred operating language.

NOTES ON BATTERY USAGE

- 1 Use only 1.5V AAA Alkaline or Ni-MH rechargeable batteries. Don't use any other type of
- 2 Ni-MH rechargeable batteries are recommended. To maximize performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.
- 3 To keep Rechargeable batteries at optimal conditions, do not recharge before fully drained.
- 4 Remove the batteries if the camera will not be used for an extended period of time.
- 5 The batteries may leak and cause a fire, injury or soiling of the battery compartment. If the batteries leak, clean and wipe the battery compartment carefully and install new batteries. Wash your hands carefully if you touch the battery fluid.
- 6 Avoid using batteries in extremely cold environments as low temperatures can shorten the battery life and reduce digital camera performance. Low temperature will adversely affect alkaline battery performance.
- 7 If you will not be using the batteries for an extended period of time, remove them from the camera to prevent leakage or corrosion, and don't dispose them in fire.
- 8 Never use batteries of different types (together) or mix old and new batteries.

Internal Memory vs External Memory Card

- 1 The product includes approximately 16 MB of "built-in" internal storage memory. You may wish to expand the memory capacity of your camera using a SD memory card.
- 2 When batteries are removed, internal memory will only last for approximately 3 minutes. To avoid lost of records, please replace batteries swiftly.
- 3 Card Preference:
When External Memory Card is inserted, the images will automatically be stored on the Memory Card in preference to the Internal Memory and records stored in Internal Memory will not be accessible until the External Memory Card is removed.

About FLASH Photography

- 1 The built-in flash has a maximum effective range of 2 meters and it is not meant to be used in very dark environments.
- 2 The flash works best as complementary light source for capturing images under shades, dim room lights or shooting against moderate light source.
- 3 When using the flash, avoid shooting directly against strong light source. It may cause extremely abnormal exposures.
- 4 Do not fire the flash close to anyone's eye.
- 5 Screen will turn black for 5 to 8 seconds while charging for the flash.
- 6 When battery level is low, Camera will beep and refuse to charge the flash. However, other functions can still be performed until battery is fully drained.
- 7 During charging the flash, the SHUTTER button is locked.

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1 Driver Installation

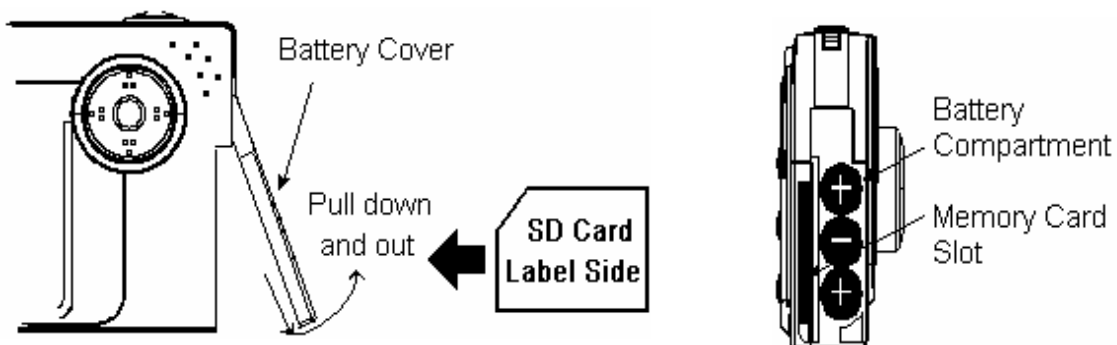
- 1 Insert CD provided.
- 2 Double click "XXX" file and installation will start automatically.
- 3 Click "Complete" bottom in pop-up dialogue box to finish installation.
- 4 Your Camera will be recognized as PC Cam or Mass Storage by your PC next time you connect it via the USB cable provided (see 4 *SETUP* on P.13).

- Note:
- ALWAYS install driver BEFORE connecting to your PC for the first time.
 - To use PC CAM function in any version of Windows*, you must install the correct driver provided.
 - To use MASS STORAGE function, driver is needed for Windows* 98 SE. No driver needed for Windows* ME, 2000, NT & XP.
 - Always set USB mode according to your need BEFORE connecting to PC. (See 3.9 *PC Cam* & 3.10 *Mass Storage* on P.13)
 - Both PC CAM and MASS STORAGE functions are supported by Windows* 98 SE and later versions of Windows*.
- * **Windows** is a trademark of Microsoft Corp.

2 Preparation For Use

2.1 Loading Batteries

- 1 Open the Battery Cover as shown
- 2 Load 3 AAA batteries with correct polarity as indicated inside Battery Cover "+ - +"

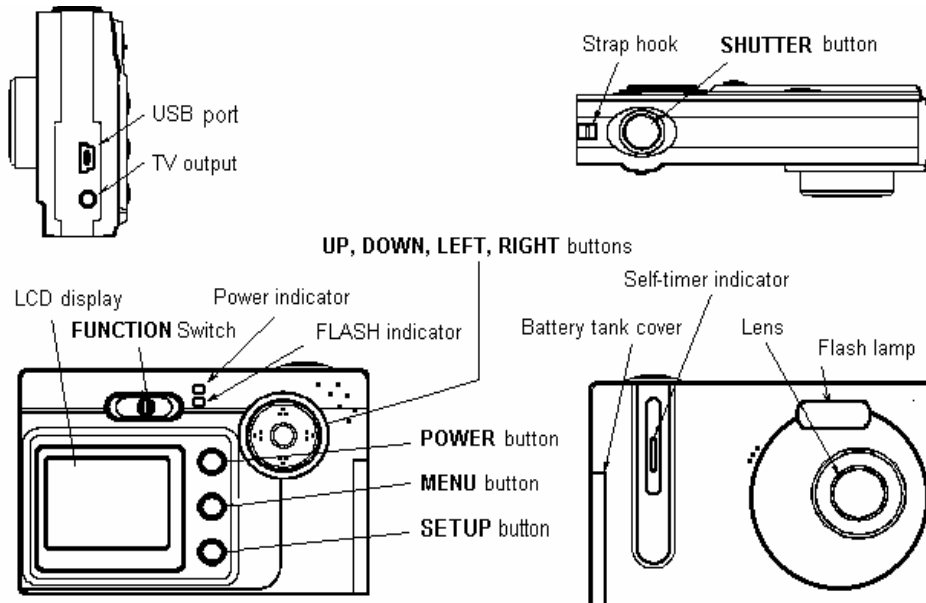


2.2 Inserting a Memory Card

- 1 Open the Battery Cover as shown
- 2 Insert a SD card into the slot in the indicated direction
 - Contact pins first and label side facing LCD display
- 3 Press the card gently into the slot, it will "click" into place
- 4 To remove a memory card press gently on the edge of the card to eject

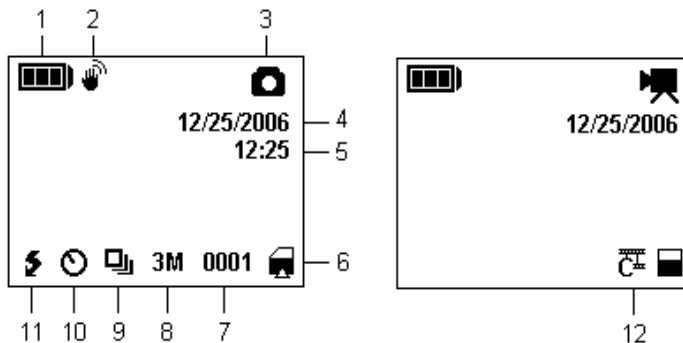
3 Physical Features

3.1 Body



3.2 Display Icons

Press RIGHT button at STILL CAMERA & VIDEO CAMERA Modes to switch DISPLAY modes:
Normal >> Image Only >> Display Off

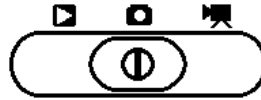


- 1 Battery Meter: Full battery Low battery
- 2 Dim Light Warning: Hold steady AFTER capturing to avoid blurry images
- 3 Capture Mode: STILL CAMERA VIDEO Camera
- 4 Date: MM/DD/YYYY
- 5 Time: HH:MM
- 6 Memory Meter: SD Card Internal Memoery
 - White area shows space available in Memory
- 7 Number of images remaining (estimated according to current settings)
- 8 Still Image Resolutions:
- 9 Burst Capture: 3 Frames continuous capture
- 10 Self-timer: 10,15,20 seconds self-timer
- 11 Flash Modes: Flash off Auto OFF
BY PRESSING LEFT BUTTON ON SILVER CIRCULAR SWITCH
- 12 Video Clip Resolutions: QVGA 320x240 VGA 640x480

4 Main Functions

4.1 Capturing Still Images

- 1 Slide FUNCTION switch to the middle
- 2 Related Buttons & Definitions



Still Camera Mode

Button	Definition
FUNCTION SWITCH	<i>Slide to Middle</i>
SHUTTER	Capture
POWER	-----
MENU	Enter Menu / Exit
SETUP	-----
UP	ZOOM in
DOWN	ZOOM out
LEFT	Flash Mode Switch
RIGHT	Display Mode Switch

4.2 Still Image Settings

- 1 At STILL CAMERA Mode, press MENU button to enter Still Camera menu
- 2 Related Buttons & Definitions

Still Camera Menu

Button	Definition
FUNCTION SWITCH	<i>Slide to Middle</i>
SHUTTER	-----
POWER	-----
MENU	Enter Menu / Exit
SETUP	-----
UP	UP
DOWN	DOWN
LEFT	LEFT
RIGHT	RIGHT

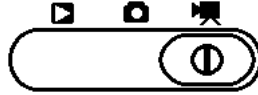
NOTE: Simply EXIT menu to confirm your selections

- 3 Resolution: 3M, 4M, 5M
- 4 Exposure: -2 to +2 step 0.5 (+EV brightens -EV darkens)
- 5 White Balance: Auto Sunny Cloudy
 Tungsten Fluorscent1 Fluorscent2
- 6 Burst Capture: Single 3 Frames continuous capture
- 7 Self Timer: Off 10 15 20 seconds
- 8 Time Stamp: Off Date Only Date & Time

4 Main Functions

4.3 Capturing Video Clips

- 1 Slide FUNCTION switch to the Right
- 2 Related Buttons & Definitions



Video Camera Mode

Button	Definition
FUNCTION SWITCH	<i>Slide to Right</i>
SHUTTER	Start / Stop Capture
POWER	-----
MENU	Enter Menu / Exit
SETUP	-----
UP	ZOOM in
DOWN	ZOOM out
LEFT	Flash Mode Switch
RIGHT	Display Mode Switch



4.4 Video Clip Settings

- 1 At VIDEO CAMERA Mode, press MENU button to enter Video Camera menu
- 2 Related Buttons & Definitions

Video Camera Menu

Button	Definition
FUNCTION SWITCH	<i>Slide to Right</i>
SHUTTER	-----
POWER	-----
MENU	Enter Menu / Exit
SETUP	-----
UP	UP
DOWN	DOWN
LEFT	LEFT
RIGHT	RIGHT

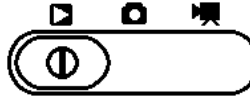
NOTE: There is no need to press any other buttons to confirm your selections. Simply press MENU button to exit when finish selecting.

- 3 Resolution:  QVGA 320x240  VGA 640x480
- 4 Exposure: (See 3.2-4 *Capturing Still Images* on P.8)
- 5 White Balance: (See 3.2-5 *Capturing Still Images* on P.8)

4 Main Functions

4.5 Playback Mode

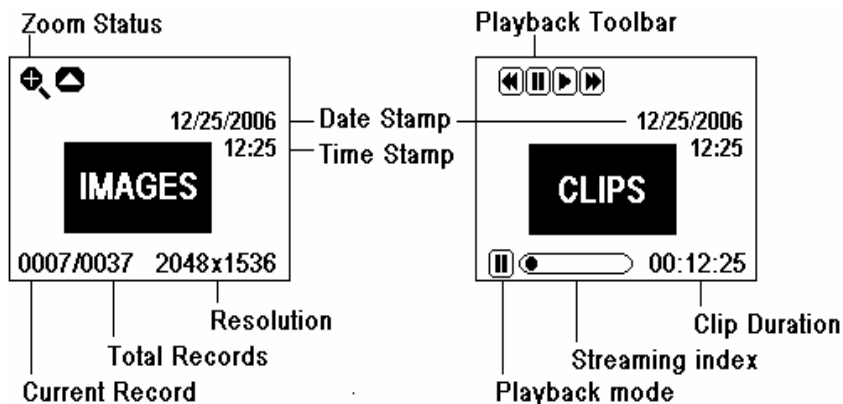
- 1 Slide FUNCTION switch to the left
- 2 Related Buttons & Definitions



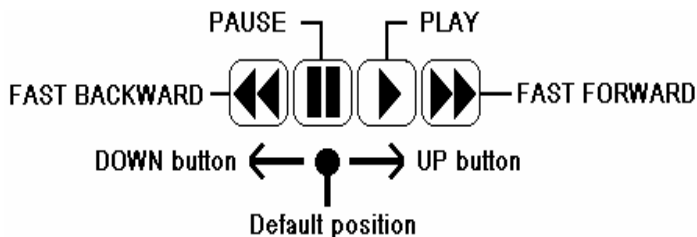
Playback Mode

Button	Definition	
FUNCTION SWITCH	Slide to Left	
SHUTTER	Enter THUMBNAIL Mode	
POWER	- - - - -	
MENU	Enter Menu / Exit	
MODE	Enter MODE menu	
<i>Record Type</i>	IMAGES	VIDEO CLIPS
UP	ZOOM in	Playback Toolbar RIGHT
DOWN	ZOOM out	Playback Toolbar LEFT
LEFT	Previous Record	
RIGHT	Next Record	

3 Display Icons



- While loading record, the icon will appear
- Use UP DOWN button to move along VIDEO Playback Toolbar



- Use UP button to move RIGHT along the Playback Toolbar
- Use DOWN button to move LEFT along the Playback Toolbar

4 Main Functions

4.6 Playback Options

- 1 At Playback Mode, press MENU button to enter Playback Menu
- 2 Related Buttons & Definitions

Playback Menu

Button	Definition
FUNCTION SWITCH	<i>Slide to Left</i>
SHUTTER	CONFIRM OK
POWER	-----
MENU	Enter Menu / Exit
SETUP	-----
UP	UP
DOWN	DOWN
LEFT	LEFT
RIGHT	RIGHT

- 3 Slide Show: Records will be playback automatically in loop
- 4 Delete Record: Press SHUTTER button twice to confirm delete
- 5 Delete ALL: Press SHUTTER button twice to confirm delete
- 6 Lock / Unlock: Locked Records cannot be deleted
- 7 Print Stamp: DROF function

4.7 Thumbnail Mode

- 1 At Playback Mode, press SHUTTER button to enter Thumbnail Mode
- 2 Related Buttons & Definitions

Thumbnail Mode


Button	Definition
FUNCTION SWITCH	<i>Slide to Left</i>
SHUTTER	Select to View
POWER	-----
MENU	Enter Menu / Exit
SETUP	-----
UP	UP
DOWN	DOWN
LEFT	LEFT
RIGHT	RIGHT

4 Main Functions

4.8 TV Playback


- 1 Enter SETUP menu and adjust TV System (PAL or NTSC) according to your domestic specifications
- 2 Slide FUNCTION switch left to PLAYBACK Mode
- 3 Connect Camera to PC via TV cable provided
- 4 Set your TV set to AV input mode
- 4 Playback records on TV as in Camera's PLAYBACK mode

4.9 Mass Storage

- 1 Install driver **once** (See *5 Driver Installation* on P.14)
NOTE: No drivers needed for Windows ME, NT, 2000 & XP
- 2 Enter SETUP (See *4 SETUP* on P.14) and set USB mode to "MASS STORAGE"
- 3 Connect Camera to PC via USB cable provided
 - If your PC did not ask for a driver, it has been recognized successfully.
- 4 Camera will show up in "My Computer" as a removable disk
 - If the CAMERA failed to show up in "My Computer", right click "My Computer" and check "Hardware Management" ( icon means bad connection).
 - In case of bad connection, remove and re-connect, or restart computer.

4.10 PC Camera

NOTE: To use this function, you need to install proper third-party software of your choice on your PC. The USB cable will provide the power supply needed during use and it is recommended that the batteries be removed.

- 1 Install driver **once** (See *5 Driver Installation* on P.14)
- 2 Enter SETUP (See *4 SETUP* on P.14) and set USB mode to "PC CAMERA"
- 3 Connect Camera to PC via USB cable provided
 - If your PC did not ask for a driver, it has been recognized successfully.
- 4 Run the relevant third-party software to capture video with Camera
 - Choose "STK016 Camera" as capture hardware
 - If the CAMERA failed to perform as a PC CAM, right click "My Computer" and check "Hardware Management" ( icon means bad connection).
 - In case of bad connection, remove and re-connect, or restart computer.
 - If connection is normal, consult third-party software developer.

5 SETUP

- 1 Press SETUP button
- 2 Related Buttons & Definitions

SETUP Menu

Button	Definition
FUNCTION SWITCH	-----
SHUTTER	OK
POWER	-----
MENU	Cancel
SETUP	Enter / Exit SETUP
UP	UP
DOWN	DOWN
LEFT	LEFT
RIGHT	RIGHT

3 Date and Time Setting :

- 4 Language: English, Franois, Espanol
- 5 Format Storage: Re-format SD Card
- 6 TV System: NTSC or PAL
- 7 USB modes: PC CAM or MASS STORAGE
- 8 Auto Power Off: 1, 3 or 5 Minutes
- 9 Light Frequency: 50Hz (Most 220V+ countries) or 60Hz (Most 110V+ countries)
- 10 Default Setting: To return to original status of manufactory
- 11 System info: Manufacturer's stamp of production

Note: When Camera is turned off, default settings will automatically be restored except: Resolutions, Date & Time, Language, TV System, USB Mode, Auto Power Off, Light Frequency

6 Maintenance

- 1 Remove all batteries before you store away Camera for next time of use.
 - Battery leakage WILL cause fatal damage to Camera.
- 2 ALWAYS use a wrist strap to avoid dropping the camera.
- 3 Clean the lens and LCD with damp cloth if needed.
 - Avoid scratching the Lens at all times. It will cause permanent damage to image quality.

7 Specifications

1	Maximum output pixels	2560 x 1920
2	Effective pixels	2048 x 1536
3	Image resolutions	2048 x 1536 3M
		2272 x 1712 4M Interpolation
		2560 x 1920 5M Interpolation
4	Video Clip resolutions	320 x 240 Video only
		640 x 480 Video only
5	Zoom	4 X Digital
6	Color depth of still images	24 bits
7	Equivalent sensitivity	ISO100 ~ 400
8	Shutter speed	1/10 ~ 1/1000
9	Self-timer	10, 15, 20 seconds
10	Guide Number	GN4
11	Flash charge time	5 ~ 8 seconds
12	Focus	9.8mm
13	Aperture	F/2.8
14	Angle of view	52°
15	View range	1.2m ~
16	Optical view amplification factor	0.6X
17	Optical field of view	>75% of actual shoot
18	Dimensions	88 x 60 x 30.5mm
19	Weight	84 g
20	PC Systems required	98SE, ME, 2000, NT, XP