USER MANUAL
DC-2200A

Digital camera
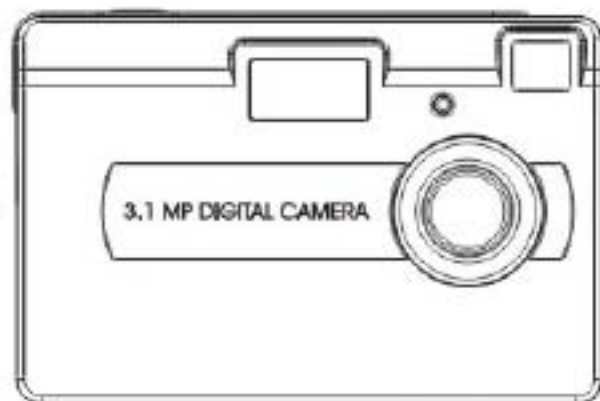
3.1 MP DIGITAL CAMERA

CATALOGUE

1. General

Thank you for purchasing this digital camera. Please read these directions carefully before use. This unit can take photos and also own the built-in PC CAMERA. It has built-in SDRAM or NAND FLASH and external SD or MMC card (8M-512M). The icon of removable disk will appear on the computer if you connect the unit with a computer by USB, thus you can directly copy your photos into the computer. You can make visible chatting with other people through Internet if you use the function of built-in PC camera.

2. Precautions

1. Please try several times before you take any important photos (for example, wedding or on holiday) so as to ensure good functions of camera. Our company will not bear any additional losses due to any failure of the unit (for example, any photo is lost or any loss arises from).
2. Do not use any battery on the unit if it is not in conformity with these directions. The battery may explode or leak and thus cause fire, personal injury or pollution to the battery case if any battery not in conformity with the requirements.
3. While installing batteries into the unit, you should check the polarity of batteries (+ or -) to ensure correct installation. If this unit will not be used for long time, you should take out the batteries or otherwise the batteries may leak and thus cause fire, personal injury or pollution to the battery case. If you contact any liquid leaking from batteries, you should wash your hands carefully.
4. If you use the built-in SDRAM to access photos, you should download photos onto your computer before replacing any batteries or otherwise the photos in the unit will be completely lost; if you want to take photos outdoors, you may replace with new batteries to prevent inconvenience arising from low power. While NAND FLASH SD or MMC card is being used for saving photos, photos will not be lost due to replacement of batteries in normal OFF status.

3. Package
●Digital camera   ●User's Directions   ●Software CD   ● USB cable

4. Requirements of system

1. Processor: 486 / 60MHz or above
2. Memory: 64MB or above
3. Colour display: (at least over 800*600, 24 bits)
4. Operational system: MS Windows 98\MS Windows Me
   \Ms Windows 2000\MS Windows XP
5. Usable USB cable and optical drive

5. Introduction of digital camera

1. Flashlight
2. Self-photograph indicator
3. Camera
4. View window
5. Power and charge indicator
6. ON/OFF(MODE)
7. UP
8. DOWN〈Flash〉
9. DISPLAY
10. PREVIEW
11. USB interface
12. Cord hole
13. Battery cover / SD card
14. Shutter

6. Installation of software

The installation menu will be popped out on the computer as following after you put CD into optical drive:

Install drive

Install application ————————————→

Install photo editing program ————————→

Install drive program ————————————→

Browse CD ——————————————→

Exit ———————————————————→

Install application program
Select 'Install Photo Impression' in the above picture and install according to the instructions.

Install photo editing program
Select 'Install Funhouse" in the above picture and install according to the instructions.

Install drive program
Display the installation menu, click 'Install Driver' to install the drive program of the unit: install according to the instructions and restart your computer after successful installation.

Browse CD
Select 'Browse CD' to browse the content in the CD.

7. Functions of the unit

ON The functions of the unit are based on the working status of the camera. Install batteries and press 【ON/OFF MODE】 to start the unit. It enters the working status. You can operate other functions of the unit.

3

OFF The unit will be automatically turned off if any operation is made on the unit within 60s. You can also turn off the unit by pressing 【ON/OFF MODE】for 3s and hearing a long 'beep'.

Take photos The camera will take a photo in starting status when you press 【Shutter】once, at this time the camera will give two' beep" and photograph is completed. LCD number will increase one after a photo is taken (for example, if it shows "000' after the unit is turned on, it will show "001' after a photo is taken, and '002' after two photos are taken). LCD will show 'FUL' if any more photos cannot be taken.

Attention:

The unit shall keep stable when you take a photo;

Low quality or failure to take photo will occur when the brightness is low.

1. First-grade menu: press 【ON/OFF MODE】in the status of preview.

Press 【ON/OFF MODE】once to show photo number / pixel

Press 【ON/OFF MODE】twice to make auto-photograph after 10s. A photo will be automatically taken after 10s when 【Shutter】is pressed once.

Press 【ON/OFF MODE】thrice for continually taking AVI. It will continually take AVI when you press SHUTTER. There is a flashing icon of AVI at the left low corner of CSNT, photo graph will stop when you press 【Shutter】once. Photograph will also stop if memory is not sufficient (note: each section needs about 1 minute. The above procedure shall be followed if you want to further take AVI).

Press 【ON/OFF MODE】four times to continually take three photos. The unit will take three VGA photos one time when you press 【Shutter】once, at this time, the unit will give three "beep' in interval to show completion of photograph. (It can Take three photos only in VGA format).

Note: LCD will come back to the status of preview from Option Menu if this menu has no operation within 5s

4

2. Second-grade menu: press 【PREVIEW】 once in one-grade menu

Image resolution: (Resolution is the size of digital image represented with pixel (points), and is generally written in the manner of "horizontal pixel x vertical pixel"). Use 【UP】 or 【DOWN】 to convert.

VGA   640*480

SVGA   1024*768

1.3M 1024*1280

2.0M 1600*1200   (Difference 2.0M)
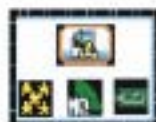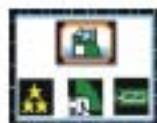

3.0M 2048*1536 (Difference 3.0M)

Image compression: it is the technology that can make digital image officiently store in the memory of the camera. It shall take digital technology to compress each picture and thus it can store proper quantity of images in the memory space. The higher the compression is, the more it can store images, but compression will affect quality of image. Excessive compression may cause low visual quality of digital image.

In the second-grade menu, press 【ON/OFF MODE】 once, press 【UP】 or 【DOWN】 to convert

No compression status   Compression status

Switching between U disk and PC CAMERA: press 【ON/OFF MODE】 twice in the second-grade menu, and press 【UP】 or 【DOWN】 to convert

Functions of U disk   Functions of PC CAMERA

Note: when the functions of PC CAMERA are set, it shall be connected with a computer in the ON status, or otherwise it will restore to U disk status after turned off.

50/60Hz switching: when you capture photos or visual sections indoors, the photos with the best effect may be obtained if you make some setting on this unit to meet frequency of indoor light. Generally, the frequency for USA and Asia is 60Hz. 50Hz is suitable for Britain, Japan and Europe.

In the first-grade menu, press 【ON/OFF MODE】 thrice, and press 【UP】 or 【DOWN】 to convert

Frequency 50Hz   Frequency 60Hz

Note: press 【PREVIEW】 once to return to the status of preview after the setting in the second-grade menu has been completed.

3. Flashlight: you can select automatic flash to compensate insufficient sunlight. You can press 【DOWN】 to convert in the status of PREVIEW.

Turn off functions of flashlight   automatic flash   compulsive flash

Note: this function is invalid if batteries are in low power.
4. Browse photos: press 【PREVIEW】 once, and use 【UP】 or 【DOWN】 to
see photos. Press 【Shutter】 to automatically browse photos, and the interval
of each photo is 3s. Press 【PREVIEW】 again to exit browse function and
come back to the status of preview.
The unit will not be turned off if there is no operation within 60s while browse
until the power is low.
5. Cancel photos: press 【ON/OFF MODE】 while you browse photos
 Cancel any photo: when you see photos with UP or DOWN, you can press
【ON/OFF MODE】 once to cancel the current photo.
The key is shown as right picture

Use 【UP】 or 【DOWN】 to switch to ✔ . The icon is flashing at this time.
Press 【SHUTTER】 to cancel the current photo and come to the next photo.
Cancel all photos (formatting or card): press 【ON/OFF
 MODE】 twice
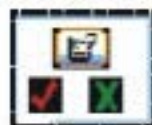
Shown as the right picture ✔ : use UP or DOWN to switch to . The icon is
flashing at this time. Press OK to cancel all information inside memory or card
and come back to the status of preview.

6. Install batteries and memory card
Open battery cover and properly install two new AA alkaline batteries according
to the "+/-' sign on battery cover, put memory card (SD or MMC card) into and
put on the battery cover. LCD shows the following after the unit is turned on:
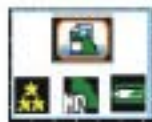
Read card   Lock card

In consideration of compatibility with SD/MMC card, you should make immediate testing with this unit when you purchase a SD/MMC card. You can only purchase any SD/MMC card compatible with this unit (when you install a new card, the right picture will appear. Please press shutter to format SD/MMC).
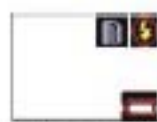
7.Power indication of battery

Normal power of battery   Low power of battery   Insufficient power of battery   Very insufficient power of battery

Note: the icon is flashing if the power of battery is very insufficient, and the unit will be turned off after 5s.

8. Download photos

When the memory of your camera has been full, you can download the photos onto your computer for store, and you can edit and print photos with application software at this time.

1. Use USB cable to connect the computer and the digital camera. If the beeper gives out a "beep' (no sound will be given when you connect computer in the ON status), it indicates normal connection, at this time the following is shown on LCD of the digital camera

2. The icon of removable disk (U disk) will appear in "My Computer". The photos taken by the camera will be stored in the directory of this removable disk /DCIM/100IMAGE, and you can directly copy photos into your desired directory.

9. Functions of PC CAMERA

When you want to use functions of PC CAMERA, you should
Turn on the unit and set it as function of PC CAMERA (please
refer to the switching setting of U disk and PC CAMERA); or
you can keep pressing the shutter in the OFF status, and
release the shutter until the beeper gives out a 'beep' after
the computer and the digital camera are connected with USB
cable. At this time, the following is shown on LCD of the
Digital camera

1. Live browse
Select PCCam.exe under the directory of 'MegaCam' on the desk and double
click, as shown in Fig. (1)
Select Preview under Options from tool bar in this status, as shown in Fig. (2)

（1）

（2）

2. Video meeting
This digital camera can be used as a video camera for image transmission and
video meeting when you:
1. Connect the camera and your computer with USB cable;
2. Start the video meeting software Microsoft Netmeeting on your computer;
3. Input IP address of other person in the column of address and start to make
calling,
Select [tool]\[video]\[receive] Transmitting video program, when other person
receives your calling, you can make video meeting.

10. Specifications

Image resolution: 800K 1024*768 ; 1.3M 1280*1024 ; 300K 640*480
Difference: 3.0M(2048*1536) and 2.0M(1600*1200)
Built-in memory: SD RAM or Nand FLASH (optional)
External memory: SD card or MMC card (8M-256M)
Frame frequency of PC CAMERA: 10 frame/s (VGA) 25 frame/s (QVGA)
Shutter speed: 0.2-1/5000s
Photograph mode: single photo, automatic photograph, continual three photos
Automatic energy saving: the unit will be automatically turned off if there is no
operation within 60s.
Flashlight: automatic flash compulsive flashing
Exposure and white balance: automatic
Power: two AA (1.5VDC) batteries or USB 5V
Computer interface: USB 1.1
Working temperature: 0~40℃
Image storage capacity:
Photos to be saved are subject to change from different ambient light

3.1M	2048*1536	In Normal mode, about 8 photos; in Compression mode, about 15 photos
2.0M	1600*1200	In Normal mode, about 13 photos; in Compression mode, about 20 photos
1.3M	1280*1024	In Normal mode, about 18 photos; in Compression mode, about 28 photos
800K	1024*768	In Normal mode, about 25 photos; in Compression mode, about 33 photos
300K	640*480	In Normal mode, about 46 photos; in Compression mode, about 69 photos

11.FCC Caution

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a 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. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment

FCC Notes:
The manufacturer is not responsible for and radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.