

SPLIT & CLIP



MANOVA

Dual Mode

Digital Camera

DC 200-C

DC 200-V

DC 200-VG ✓

USER'S MANUAL

Support for
Windows XP

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1. PACKAGE CONTENTS

DIGITAL CAMERA x 1



CD ROM x 1



INSTRUCTION MANUAL x 1

USB CABLE x 1



CAMERA BAG x 1

Note: Only available for some special package



Battery *AAA* 1.5V x 2

2. SYSTEM REQUIREMENTS

FOR PC :
Windows 98, ME or Windows 2000
Pentium 166MHZ or Higher
Minimum 32MB RAM or Higher
CD-ROM Drive Available

FOR MAC :
Mac OS 8.6 - 9.1
Minimum 32MB RAM or Higher
USB Port Available

3. PRECAUTIONS

- To prevent damages of your digital camera, do not leave it in humid environment or expose it to rain.
- Operation temperature should not be below 5°C or above 40°C.
- The digital camera contains very delicate mechanism & components inside, do not drop or give excessive shock to it.
- Do not use thinner, benzene or others organic solvents to clean the digital camera.
- Remove dust and stains only with soft cloth.
- Do not attempt to disassemble the digital camera.
- Disconnect the digital camera from the computer before cleaning it.

4. CAMERA SPECIFICATIONS

Note: This is a dual mode camera which can be used as a digital still camera and also as a web-camera.
As a digital camera, it can capture not only snap shots but also movie clips.

DC200-C

Image Sensor : Color CIF (352x288) CMOS
Image Resolution : CIF Mode (352x288), QCIF Mode (176x144)
White Balance : Auto white balance
Memory : SDRAM 16Mbit (2MB)
Picture Storage : 80 pictures for QCIF Mode,
20 pictures for CIF Mode
Video Function : 8 seconds AVI movie clips in QCIF format
Interface : Plug & Play USB Port
Power : AAA 1.5V x 2 (alkaline batteries)
Dimension : 80 x 73 x 26 (mm)
Weight : 61g (without battery)

DC200-V

Image Sensor : Color VGA (640x480) CMOS
Image Resolution : VGA Mode (640x480), QVGA Mode (352x288)
White Balance : Auto white balance
Memory : SDRAM 64Mbit (8MB)
Picture Storage : 99 + 8 pictures for QVGA Mode,
26 pictures for VGA Mode
Video Function : 10 seconds AVI movie clips in QVGA format
Interface : Plug & Play USB Port
Power : AAA 1.5V x 2 (alkaline batteries)
Dimension : 80 x 73 x 28 (mm)
Weight : 61g (without battery)

Remarks: The above specifications may be changed without notice in order to achieve better quality.

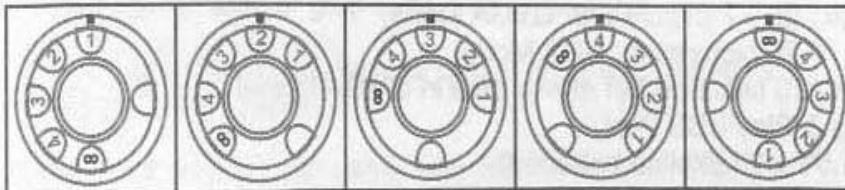
DC200-VG

(High quality lens with Macro Function, 5 steps adjustable focal length)

Image Sensor : Color VGA (640x480) CMOS
Image Resolution : VGA Mode (640x480), QVGA Mode (352x288)
Focal Distance : 4 inches (10cm) to Infinity
Lens Aperture : F2.6
White Balance : Auto white balance
Memory : SDRAM 64Mbit (8MB)
Picture Storage : 99 + 8 pictures for QVGA Mode,
26 pictures for VGA Mode
Video Function : 10 seconds AVI movie clips in QVGA format
Interface : Plug & Play USB Port
Power : AAA 1.5V x 2 (alkaline batteries)
Dimension : 80 x 73 x 29 (mm)
Weight : 64g (without battery)

Remarks: The above specifications may be changed without notice in order to achieve better quality.

5 Steps Adjustable Focal Length



Step 1 = 10cm

Step 2 = 20cm

Step 3 = 30cm

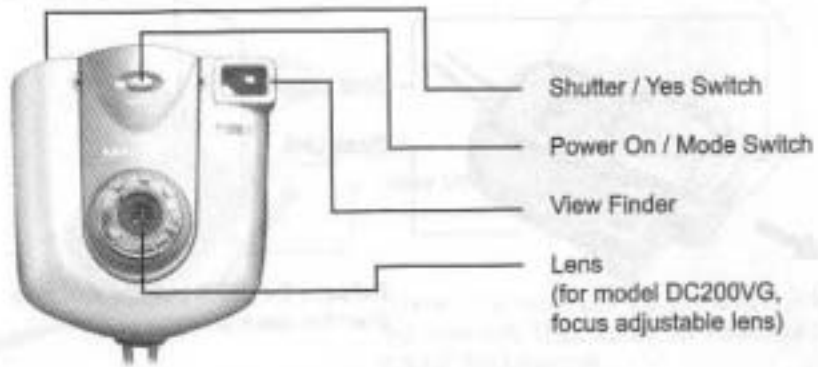
Step 4 = 40cm

Step ∞ =
50cm to Infinity

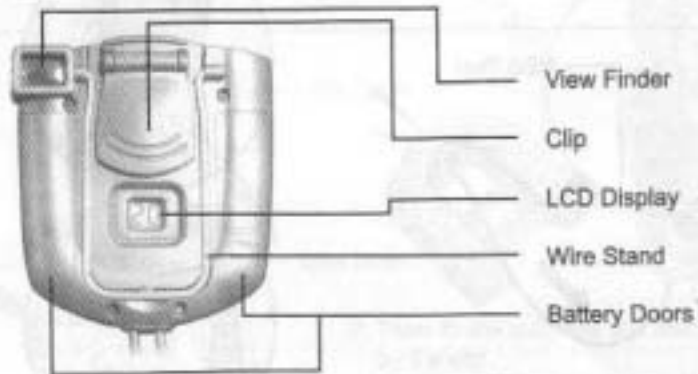
Remarks: Always remember to set the focus ring to "∞" for taking standard pictures.

5. LOOKING AT YOUR DIGITAL CAMERA

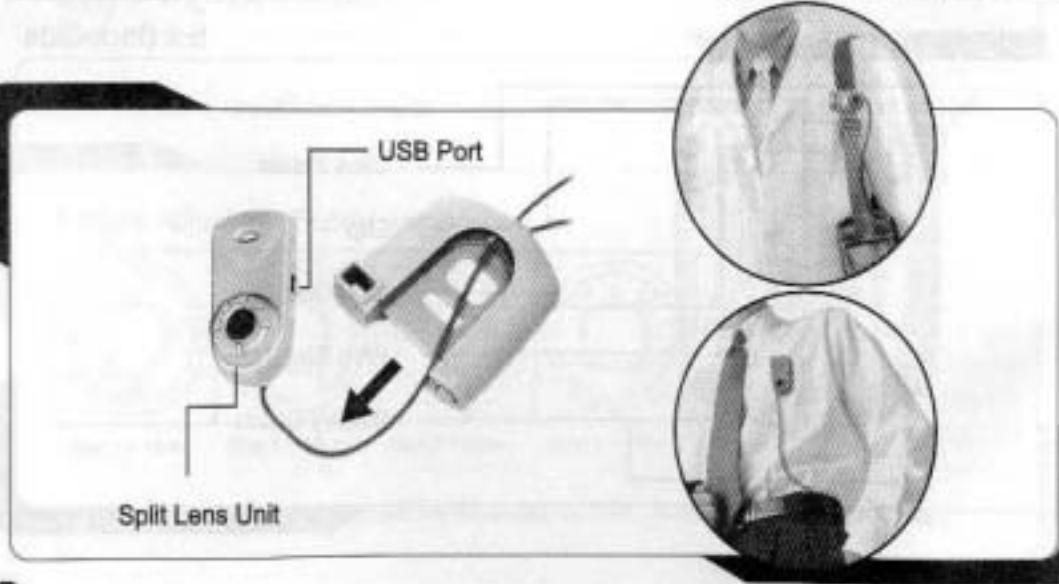
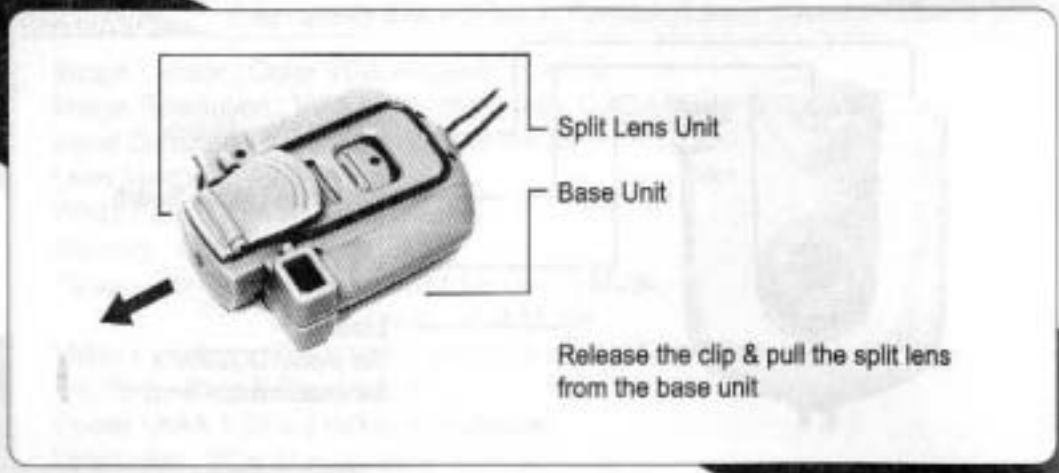
5.1 Front-Side



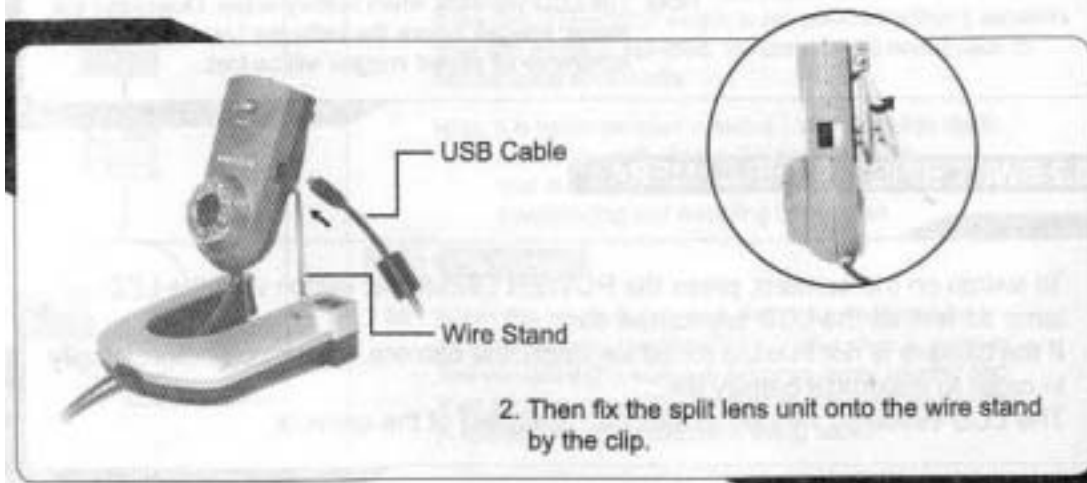
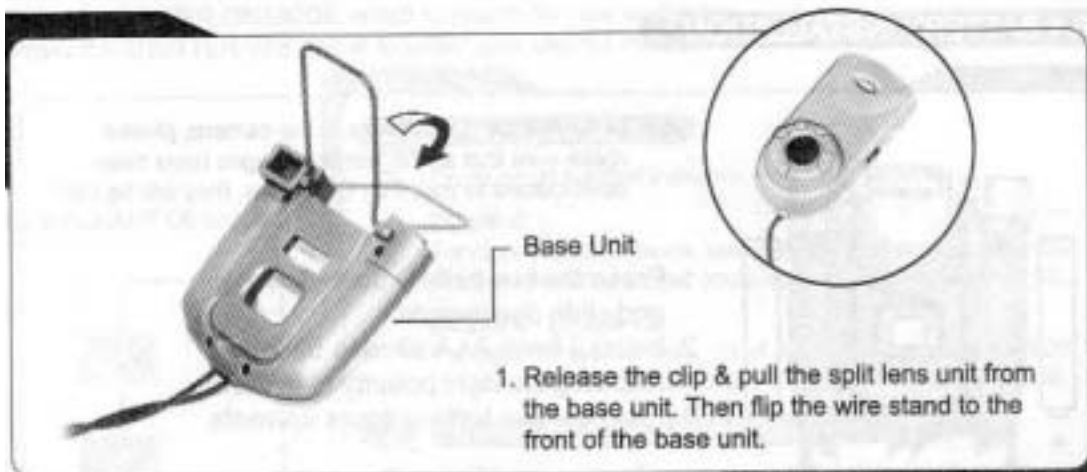
5.2 Back-Side



5.3 SPLIT LENS FEATURES



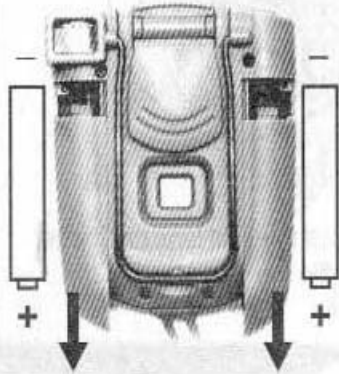
5.4 USE AS A WEB-CAM



Note : This camera is powered by the USB connector when it is attached to a PC.

6. HOW TO USE YOUR DIGITAL CAMERA

6.1 BATTERY INSTALLATION :



Note: Before replacing batteries in the camera, please make sure that all the wanted images have been downloaded to your PC. Otherwise, they will be lost.

1. Press the two battery doors inwards and slide downwards.
2. Insert 2 fresh AAA alkaline batteries, following the right polarity of batteries.
3. Push the two battery doors upwards.

Note: The LCD will blink when battery is low. Download the stored images before the batteries have been run out, otherwise all stored images will be lost.

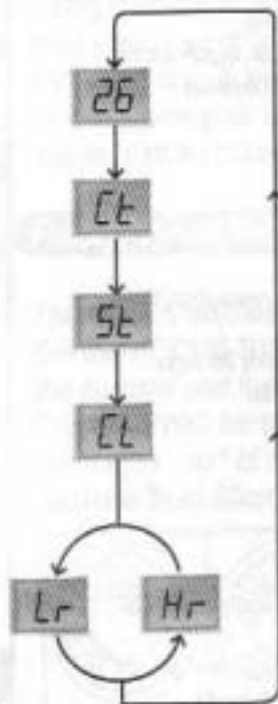
6.2 SWITCHING ON THE CAMERA :

To switch on the camera, press the POWER ON/MODE switch until the LED lamp as well as the LCD are turned on.
If the camera is not in used for 30 seconds, the camera will turn off automatically in order to maximize battery life.
The LCD indicates various modes (ie : features) of the camera.

6.3 LCD DISPLAY OF VARIOUS MODES :

- Press the POWER ON/MODE switch to search for various modes.
- Press the SHUTTER/YES switch to select your desired mode.

FLOW CHART OF MODES



26 Picture Count Down

26 Count down number indicates remaining pictures.

DC200-C :

For high-resolution mode, count down number starts from 20.
For low-resolution mode, count down number starts from 80.

DC200-V / DC200-VG :

For high-resolution mode, count down number starts from 26.
For low-resolution mode, count down number starts from 99.

Ct Continuous Mode (Movie Clips Mode)

Ct Continuous mode allows you to take pictures continuously by holding the SHUTTER/YES switch down.
If the SHUTTER/YES switch is not pressed within 5 seconds after this mode is selected, the camera will revert back to normal snap shot mode.

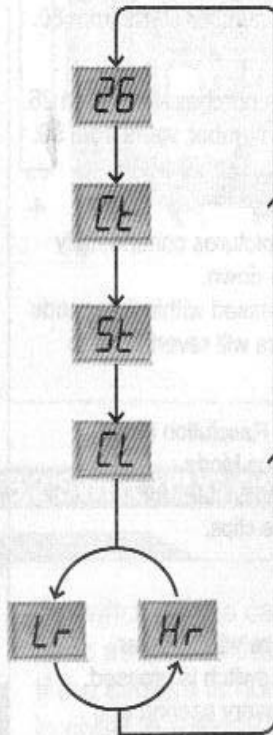
Note: It is recommended to select Low Resolution Mode before you activate the Continuous Mode.

See also " 8.3 DOWNLOAD MOVIE CLIP" for downloading and e-mailing movie clips.

St Self Timer

St When this mode is selected, the picture will be taken 10 seconds after the SHUTTER/YES switch is pressed.
The camera will create a short beep every second and then a longer beep. The long beep indicates the shutter is activated and the picture is being taken.

FLOW CHART OF MODES



CL Clearing the Stored Images

- Cl When this mode is selected, you can erase the entire stored images by pressing the SHUTTER/YES twice. Pressing the SHUTTER/YES switch once will cause the camera beeping and the LCD will blink. Then press the SHUTTER/YES switch again within 5 seconds and the LCD counter will be reset.

Hr High Resolution Mode

- Hr For DC200-C, you can take 20 high resolution(CIF) pictures by this mode.
For DC200-V/DC200-VG, you can take 26 high resolution(VGA) pictures by this mode.

Lr Low Resolution Mode

- Lr For DC200-C, you can take 80 low resolution(QCIF) pictures by this mode.
For DC200-V/DC200-VG, you can take 99 + 8 low resolution(QVGA) pictures by this mode.

6.4 TAKING A STILL PICTURE :

Using it as a normal still camera, you can view the object through the viewfinder. After position the picture in the viewfinder, press the SHUTTER/YES switch to take a picture. The camera will beep which means a picture was taken successfully and the LCD counter will count down. A low beep indicates insufficient light for taking pictures. A series of beep means the memory is full.

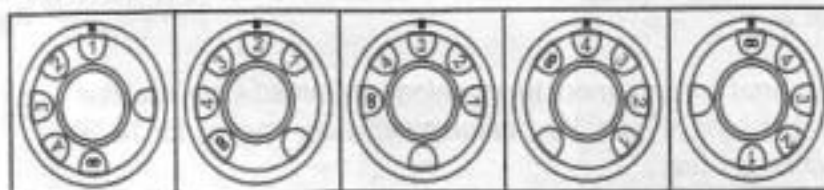
Using it as a split lens camera, you can clip the split lens unit of the camera onto your pocket or handbag. You cannot view the object through the viewfinder but only achieve the image position by experience. The base unit can be put inside your other pocket. Press the SHUTTER/YES switch of the base unit to take a picture.

Focal Distance Macro Picture (For DC200-VG only)

There are 5 adjustable focal distance.

Set the FOCUS RING of the lens according to various distance between the camera and the object. For example, turning to "step 5" of the FOCUS RING for taking macro picture of focal distance of 10cm.

Turning to " ∞ " of the FOCUS RING for taking standard picture of focal distance from 50cm to ∞ .



Step 1 = 10cm

Step 2 = 20cm

Step 3 = 30cm

Step 4 = 40cm

Step ∞ =
50cm to infinity

6.5 CREATING A MOVIE CLIPS

" Ct " Continuous Mode lets you take 8 to 10 seconds motion images like sports, games, performances and leisure activities.

Press the POWER ON/MODE button and search for the " Lr " Low Resolution mode and then confirm it by pressing the SHUTTER/YES button.

Now, press the POWER ON/MODE button and search for the " Ct " Continuous Mode on the LCD. You have to start taking movie within 5 seconds, otherwise the "Ct" mode will go back to the normal mode. To start taking continuous images, position the objects through the viewfinder and then " press & hold " the SHUTTER/YES button.

6.6 IMAGE STORAGE CAUTIONS

The images are stored by Mbit SDRAM memory chip. This requires a continuous power supply to work with. Once the batteries have been run out, all stored images will be lost. To secure the image storage, please follow these procedures:

1. Always download the images to the computer at your earliest convenience after taking photos.
2. If you know the stored image cannot be downloaded immediately, replace new batteries prior taking photos. Your camera can store images for 14-20 days if the batteries are new.
3. Do not replace batteries until you have downloaded all stored images to the computer.

7 HOW TO INSTALL YOUR SOFTWARE :

7.1 SOFTWARE CONTENTS

FOR PC :

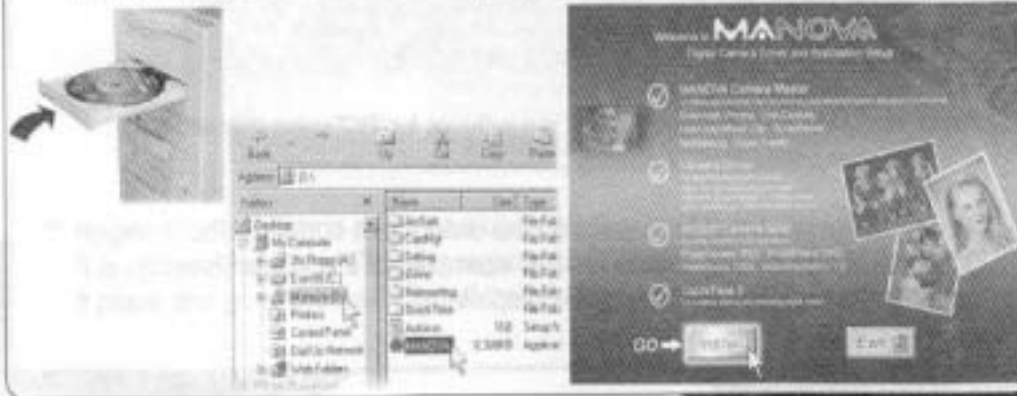
- Manova Camera Master
- Manova Camera Driver
- ArcSoft® PhotoStudio™ 2000
- ArcSoft® PhotoFantasy™ 2000
- ArcSoft® VideoImpression™ 1.6
- ArcSoft® PhotoPrinter® 2000
- QuickTime 5.0

For Macintosh :

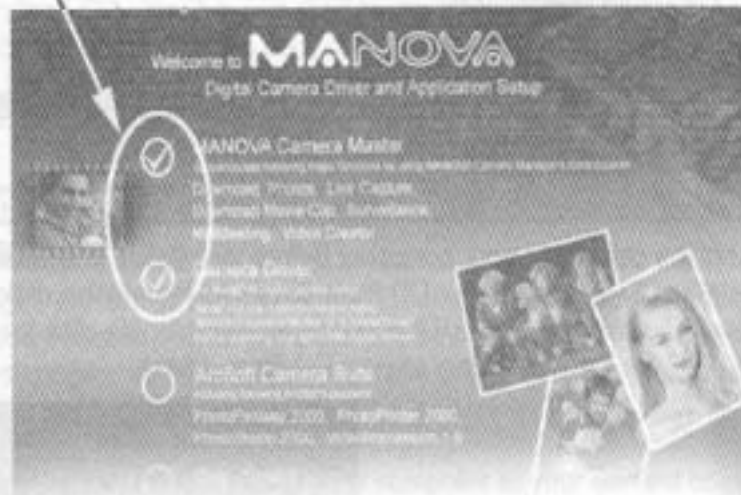
- Manova Camera Driver
- ArcSoft® PhotoStudio™ 2000
- ArcSoft® PhotoPrinter® 2000
- QuickTime 5.0

7.2 SOFTWARE INSTALLATION

1. Do not connect the camera to your computer before installation is completed. Insert the installer CD-Rom into your CD-Rom drive. An installation dialogue will automatically launch as below. (If it does not startup, double click the "MANOVA.exe" file in the directory of your CD-Rom drive.)



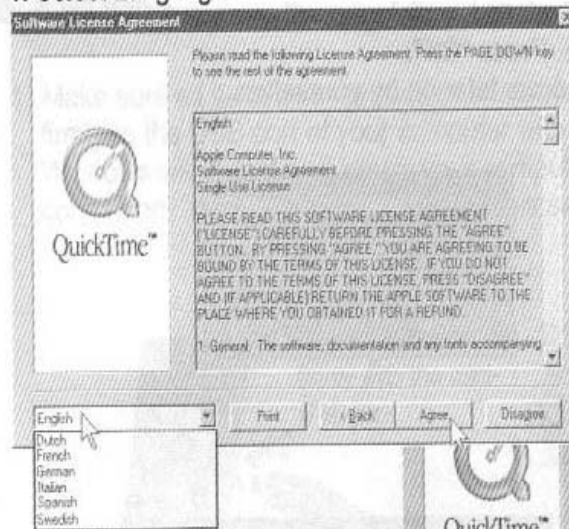
2. Simply click the " **Install** " button to install all software we provided (recommended for all beginners). If you already have the same software we provided, for example "Quick Time 5", you do not need to install it again. In order to do so, cancel the "tick" in the tick box by clicking it. However, you have to install the "MANOVA Camera Master" and "Camera Driver" before you connect the camera to the computer and start to play.



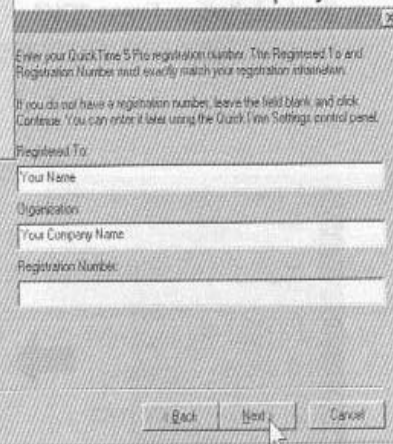
* Remarks: "MANOVA Camera Manager" is a software for "PC" users only and not compatible with "Macintosh".

3. Follow the instructions presented on the dialogue to complete the installation one by one. Below are the examples of the instructions that may require you to follow and complete.

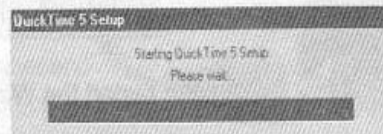
1. Select Language



2. Type Your Name & Company Name



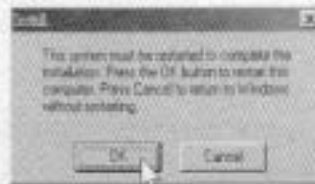
3. QuickTime 5 Setup



**** Registration number is required while installing the "Quick Time 5". It is optional for you to fill in the registration number. You can just leave it blank and go to the next step of installation.**

4. After all selected software are installed, a dialogue will come out and ask you to restart the Windows. Press "OK".
Or you can just restart the Windows later on by yourselves.

You are required to restart the Windows to complete the installation. Press "OK"



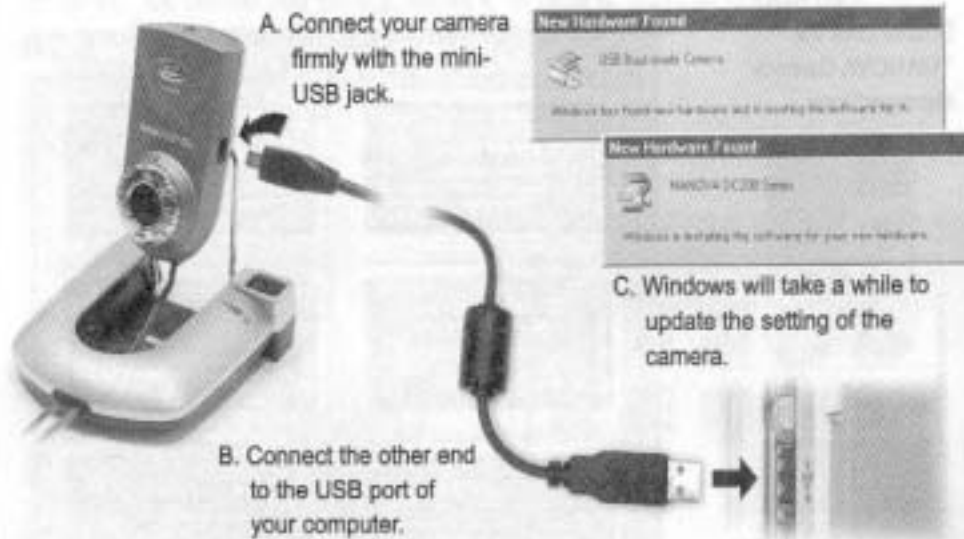
OR



You can restart the Windows by yourselves later on.

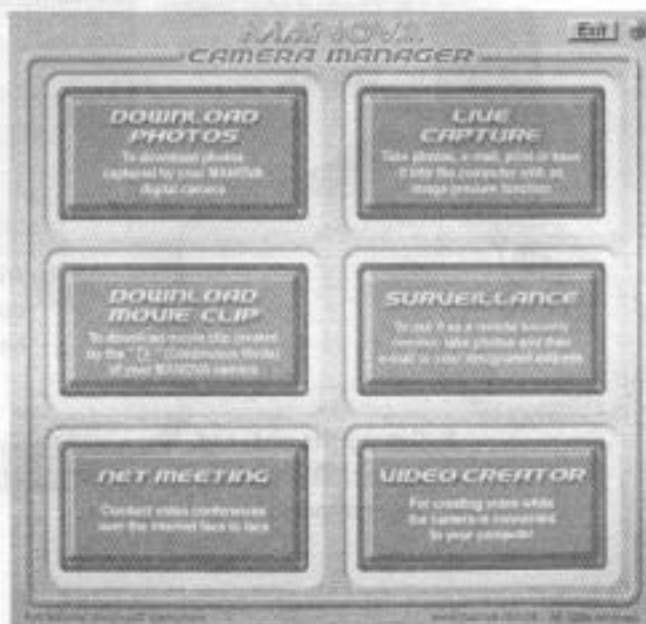
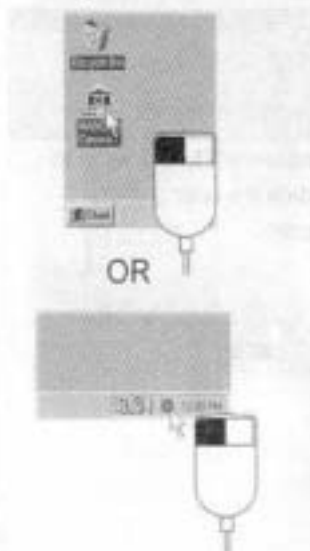
8. RUNNING THE MANOVA CAMERA MASTER

- 1) Make sure all installation procedures are completed, connect your camera firmly to the USB port of your computer with the provided USB cable. Windows will detect and inform your computer that a new device is being connected. It takes a while to update this setting.



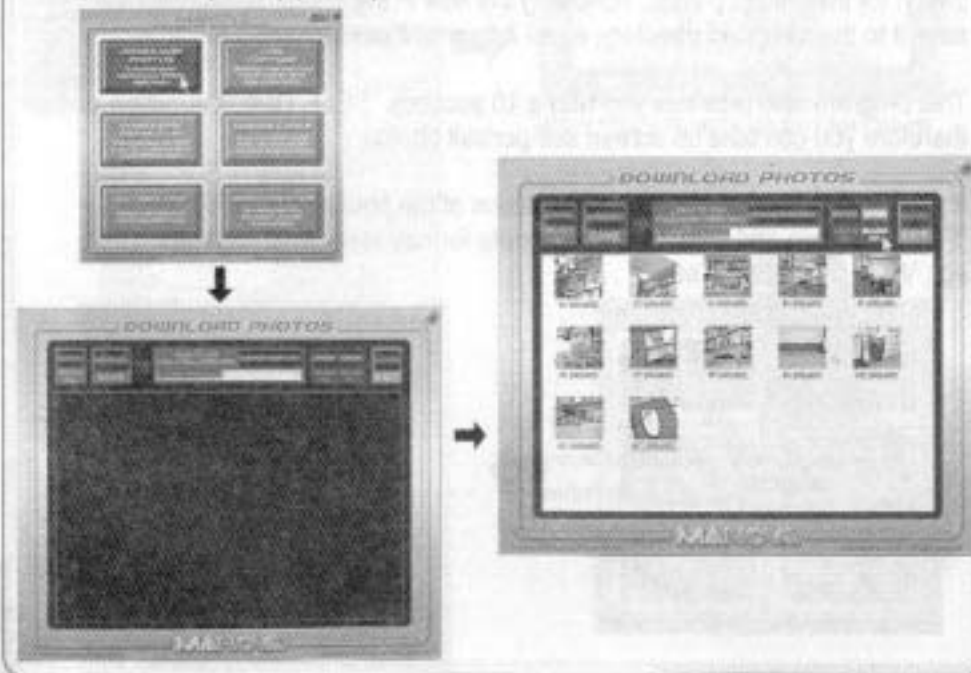
- 2) Double click the "MANOVA Camera Master" icon on your desktop.
 A dialogue will launch with six big buttons. Select different functions by clicking different buttons, namely "DOWNLOAD PHOTOS", "LIVE CAPTURE", "DOWNLOAD MOVIE CLIP", "SURVEILLANCE", "NET MEETING" and "VIDEO CREATOR".

Double click the
 "MANOVA Camera
 Manager" icon



8.1 DOWNLOAD PHOTOS

This program allows you to download photos from your camera to the computer easily. Simply click on the "DOWNLOAD PHOTOS" icon on the "MANOVA CAMERA MASTER", all photos stored in your camera will be downloaded automatically to the "DOWNLOAD PHOTOS" dialogue. You can see the thumbnail photos displayed on the screen. You can select only one photo or all photos and then save to your assigned directory. Following the flow in the dialogue, you can email the selected photo(s) instantly. Or before you save it, email it, or print it, you can double click the thumbnail photo(s) for a preview.



8.2 LIVE CAPTURE

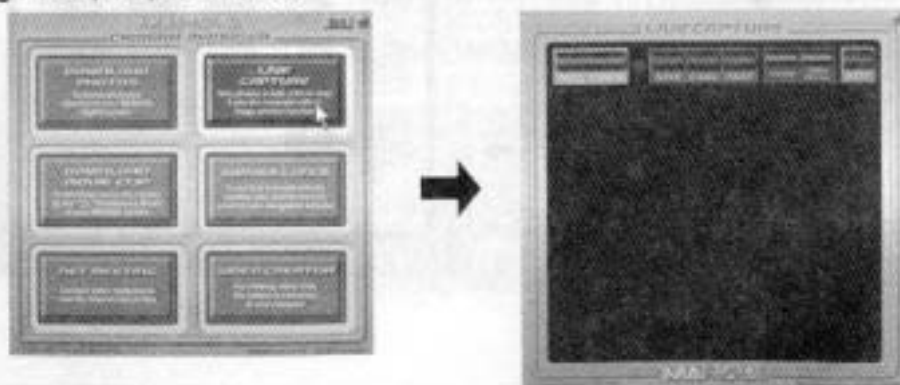
2010/04/20 14:02:13

Live Capture allows you to take photos with a live time preview function while your camera is connected to the computer. What you see on the screen is what you get.

Click the "LIVE CAPTURE" icon on the "MANOVA CAMERA MASTER" and a dialogue will come out to remind you to download photos before you start this program. Click "yes" if you do not need downloading and start to play with "LIVE CAPTURE". Click either the "TAKE PHOTO" icon or the "SHUTTER/YES" switch for instant snap shot. Following the flow in the dialogue, you can then save it to the assigned directory, email it or print it out instantly.

This program also provides you with a 10 seconds "SELF TIMER" function, therefore you can take on screen self-portrait photos.

If you need to change the format/resolution of the photos, click on the "FORMAT" icon and select the appropriate format/ resolution you want, eg : VGA, CIF, QCIF & etc.



1. Change Format.



Click "Take Photo" icon for Live Capture

OR



Take Photo when you press the Shutter/Yes switch of MANOVA Camera

2. Select Format to achieve different Image size.
In order to get a better display quality, It is recommended maximize the image size.
ie: VGA for DC200-V, DC200-VG and CIF for DC200-C.

8.3 DOWNLOAD MOVIE CLIP

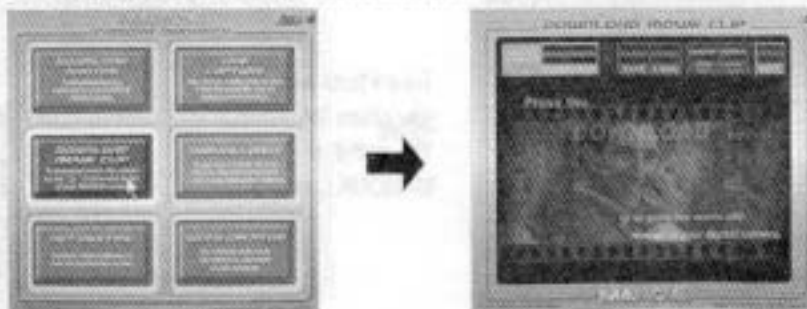
After you have created a movie clip by the "Ct" continuous mode, you can download the movie clip to the computer with this program.

Click the "DOWNLOAD MOVIE CLIP" icon on the "MANOVA CAMERA MASTER" and a dialogue will come out. Click the "DOWNLOAD" button at the upper left corner and the movie clip saved in your camera will be downloaded to the screen.

Before you click the "DOWNLOAD" button, you can select whether to compress the file. You are recommended to compress the file if you need to e-mail it later on.

After the movie clip has been downloaded to the screen, you can click the "play" icon to playback the movie clip. You can also see the file size of the movie clip at the side.

Now you can select to save it to an assigned directory or e-mail it. Usually the size of the file after compression is around 3Mb.




STEP 1:

1. Select Compression
2. Click "Download" button



STEP 2:

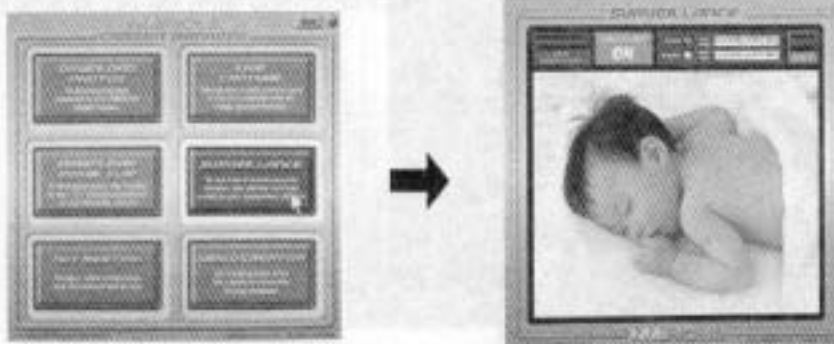
1. The file size indication is on the right side
2. Click play icon  for playback

8.4 SURVEILLANCE

This program lets your camera become a remote security monitor. You can set up this security monitor in your home or office before you go out. The monitor will take photos frequently and then send out the photos by e-mail to your assigned address. Therefore you can keep on watching your home or office by receiving e-mailed photos.

Click the "SURVEILLANCE" icon on the "MANOVA CAMERA MASTER" and a dialogue will come out to remind you to download photos before you start this program. Click "yes" if you do not need downloading and start to play with "SURVEILLANCE".

Click the "SURVEILLANCE SETTINGS" icon and a dialogue will come out. You need to fill the name of your SMTP server, your current e-mail address and the e-mail address you are going to send to. If you do not know the name of your SMTP server, go to "OUTLOOK EXPRESS" and look at the "TOOLS". Find out the name of the SMTP server in the "ACCOUNTS". The name of the SMTP server is located in the box of "OUT GOING MAIL SERVER".



Now you need to select the time interval, you are recommended to select the time interval not less than every 20 minutes. Also, be reminded that the file size of each photo is about 200Kb. Make sure the mail box of the assigned e-mail address have enough capacity to contain the photos that will be sent out frequently.

Click the tick box to keep the settings and then press "OK" to complete the SETTINGS.

Now Click "START SURVEILLANCE" icon to activate the SURVEILLANCE. A dialogue will come out to re-confirm whether the e-mail address, the name of the SMTP server & the selected time interval are correct. Check it again and click "yes" and the "SURVEILLANCE" is now activated.

If you want to stop the "SURVEILLANCE" program, simply press "STOP SURVEILLANCE" icon.

3.4 SURVEILLANCE

STEP 1:

1. Click "Surveillance Setting" button
2. Fill the name of your SMTP Server
3. Fill the E-mail Address
4. Select Time Interval
5. Click "Keep these Settings"
6. Click "OK"



Surveillance Settings [X]

Mail Settings:

SMTP Server:

Your Email Address:

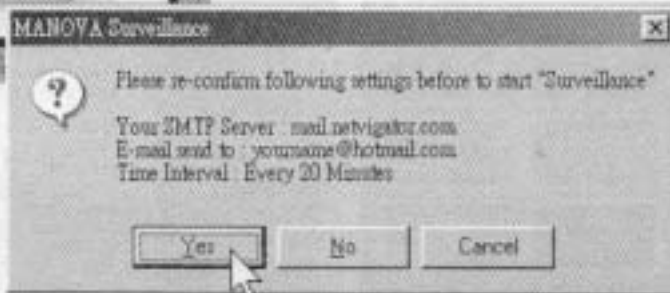
Send To Address:

Send Every: Min/Sec

Keep these Settings

STEP 2:

1. Click "Start Surveillance" button
2. Check & confirm the name of SMTP Server, E-mail Address & Time Interval
3. Click "Yes"



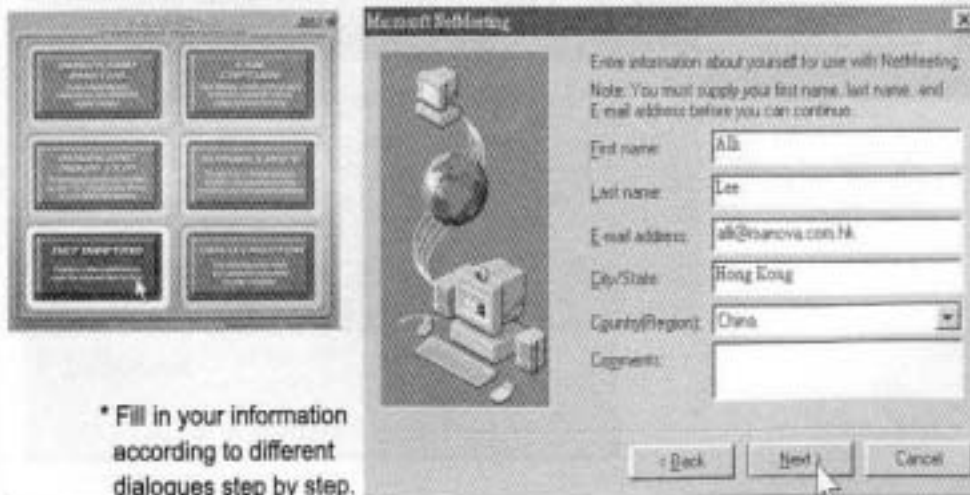
8.5 NET MEETING

This program helps you to access to "Microsoft NetMeeting" easily and instantly.

Connect your microphone(not included) to the external microphone connector of your audio card at the back of your computer.

Click the "NET MEETING" icon on the "MANOVA CAMERA MASTER" and some dialogues will come out one by one. You are requested to fill in your information step by step, according to the questions in different dialogues.

After all necessary settings have been completed, you can start using your face to face video conferencing via internet. Before you place a call, make sure you have got a "Microsoft.NET Passport" and completed the registration of your e-mail address in the "MSN MESSENGER SERVICE". First of all, link up your

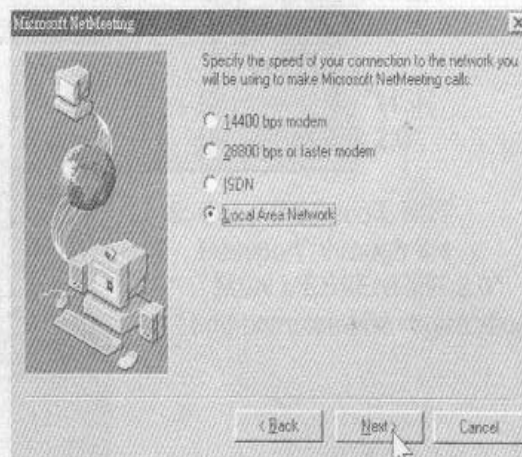


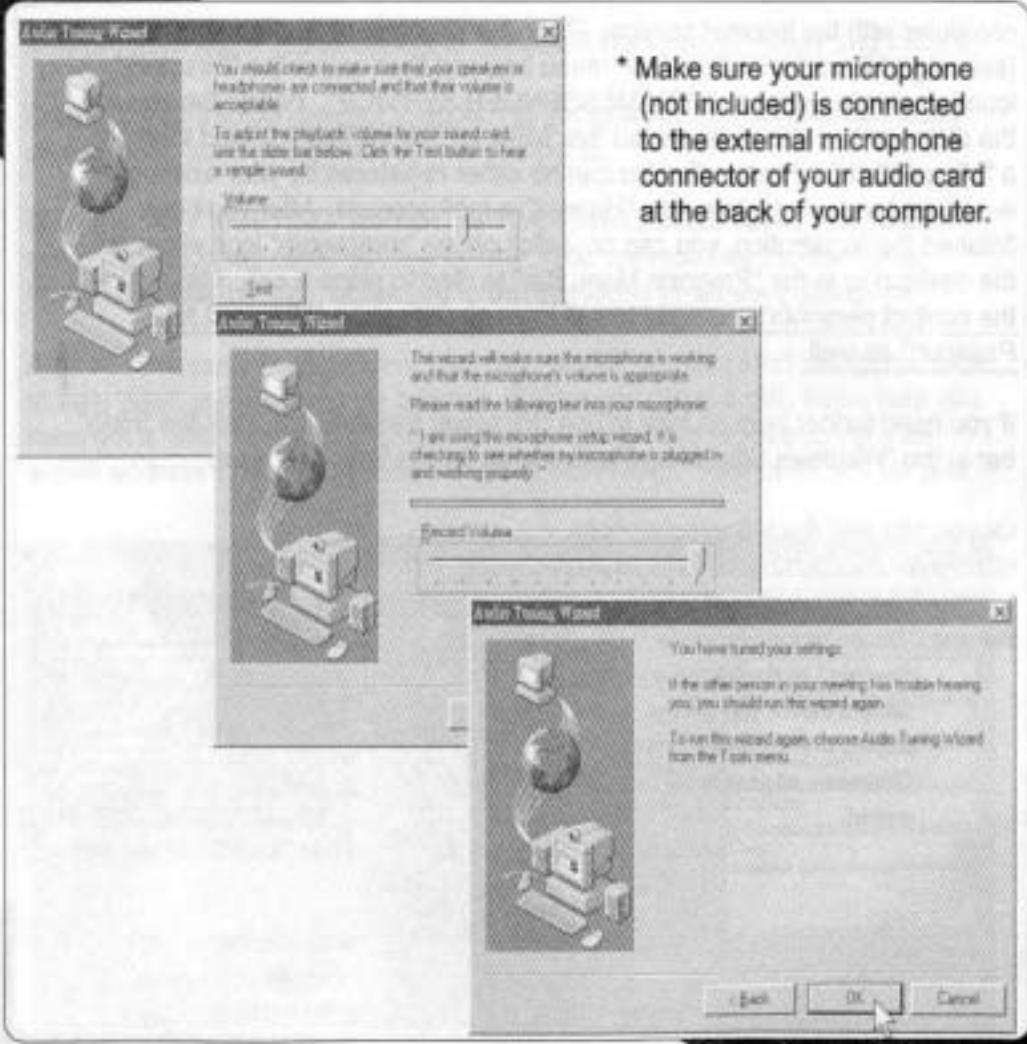
computer with the internet service. Go to the dialogue of "NetMeeting" (see page 32) and click the "Call" menu bar, and then select the "Directory" icon in order to log on to "MSN MESSENGER SERVICE". Follow the steps in the dialogue in order to download the "MSN MESSENGER 2.0" and then get a "Microsoft.NET Passport". You can be either registered by your existing e-mail address or create a new "Hotmail" e-mail account. After you have finished the registration, you can now click on the "mmssetup" icon either on the desktop or in the "Program Menu Bar" to start to place a call. Make sure the contact person(s) you want to call have already got a "Microsoft.NET Passport" as well.

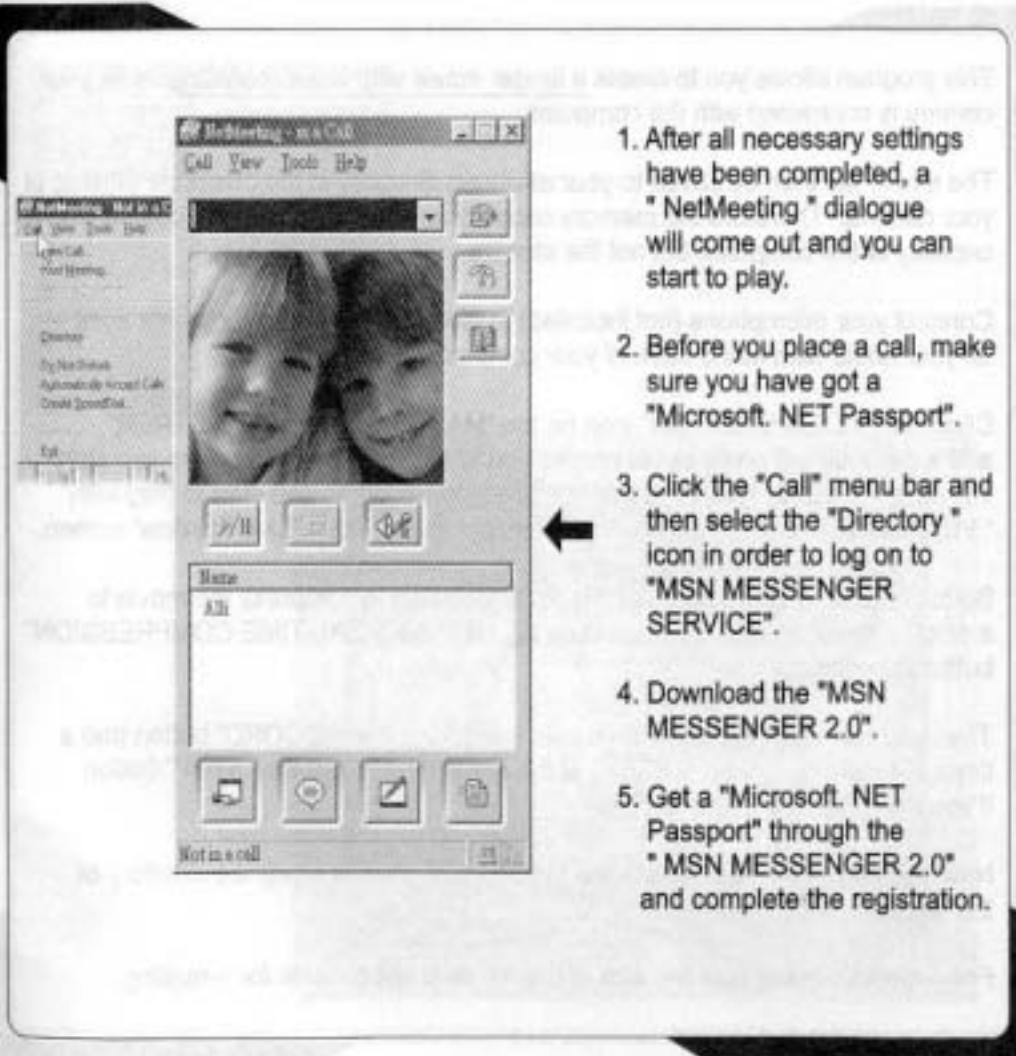
If you need further help on how to use "Microsoft NetMeeting", click the "Help" bar in the "Windows Start Menu" and search for the topic you want.

Or you can visit the following website :
<http://www.microsoft.com/windows/netmeeting>

Warning : You are recommended to download all the photos in your camera before you started playing with the "NetMeeting". Otherwise, all photos will be erased.







1. After all necessary settings have been completed, a "NetMeeting" dialogue will come out and you can start to play.
2. Before you place a call, make sure you have got a "Microsoft. NET Passport".
3. Click the "Call" menu bar and then select the "Directory" icon in order to log on to "MSN MESSENGER SERVICE".
4. Download the "MSN MESSENGER 2.0".
5. Get a "Microsoft. NET Passport" through the "MSN MESSENGER 2.0" and complete the registration.



8.6 VIDEO CREATOR

This program allows you to create a longer movie with voice recording while your camera is connected with the computer.

The movie will then be saved to your assigned directory in the computer instead of your camera. Therefore the memory capacity for the movie is depended on the capacity of the computer, but not the camera.

Connect your microphone (not included) to the external microphone connector of your audio card at the back of your computer.

Click the "VIDEO CREATOR" icon on the "MANOVA CAMERA MASTRER" and a dialogue will come out to remind you to download photos before you start this program. Click "yes" if you do not need downloading and start to play with "VIDEO CREATOR". A dialogue will then come out with a "Live Preview" screen.

Before recording the movie, you are recommended to compress the movie to a smaller memory size. In order to do so, click the "REAL-TIME COMPRESSION" button for setting.

Then you can start recording the movie by clicking the "RECORD" button and a timer of recording will be activated at the same time. Click the "STOP" button if you have finished the recording.

Now you can select to playback the movie, save it to the assigned directory of the computer, or e-mail it.

For e-mailing, make sure the size of the movie is appropriate for e-mailing.



9. Running The Bundled ArcSoft® Software

Make sure all installation procedures are completed, connect your camera firmly to the USB port of your computer with the provided USB cable. Apart from using the software of "Manova Camera Master", now you can also download, edit, retouch, and print out your photos by the bundled ArcSoft® Software.

9.1 PhotoStudio™ 2000

This is a full-featured digital image-editing program which provides a complete set of photo editing and retouching tools. You can easily create special effects, different layers for images and edit texts by using this program.

Go to the "Windows Start Menu" and click on the "ArcSoft® Camera Suite" bar inside the "Program" group. Then select the PhotoStudio™ 2000 and start to play.

For further help on how to use PhotoStudio™ 2000, please visit the web site of <http://www.arcsoft.com> for all FAQ's, user tips and technical support.



9.2 PhotoFantasy™ 2000

This is a program of image entertainment which lets you to combine your personal photos with a wide variety of fantasy backgrounds, e.g. fictional characters, nostalgia, classic works of art, sports figures and etc.

Go to the "Windows Start Menu" and click on the "ArcSoft® Camera Suite" bar inside the "Program" group. Then select the PhotoFantasy™ 2000 and start to play.

For further help on how to use PhotoFantasy™ 2000, please visit the web site of <http://www.arcsoft.com> for all FAQ's, user tips and technical support.

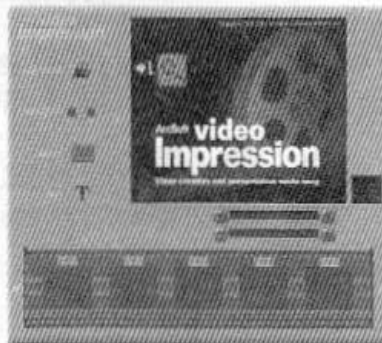


9.3 VideImpression™ 1.6

This is a full-featured video editing program which lets you not only to create new videos while your camera is connected with the computer, but also to edit existing videos by using this program to enhance presentation.

Go to the "Windows Start Menu" and click on the "ArcSoft® Camera Suite" bar inside the "Program" group. Then select the "VideImpression™ 1.6" and start to play.

For further help on how to use VideImpression™ 1.6, please visit the web site of <http://www.arcsoft.com> for all FAQ's, user tips and technical support.



9.4 PhotoPrinter® 2000

This is a full-featured printing utility program which lets you arrange layout, re-size, print multiple copies of an image(s). Different templates, backgrounds, and frames are provided to enhance the presentation of your digital photos.

Go to the "Windows Start Menu" and click on the "ArcSoft® Camera Suite" bar inside the "Program" group. Then select the PhotoPrinter® 2000 and start to play.

For further help on how to use PhotoPrinter® 2000, please visit the web site of <http://www.arcsoft.com> for all FAQ's, user tips and technical support.

