CAM- X User's Manual

Company	Digital solution CO,.LTD
Date	2002 / 02 / 21
Writer	D.S.BAEK

FCC Compliance

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

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

USER INFORMATION

This equipment has been tested and found to comply with the limits for a Class B 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.

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1. The View

Cam-X is for taking a picture or recording a image as a PC-Camera. It can make a picture or image mail to your friends and family.

It is using for personal business or internet also using as PC-Camera of high grace design

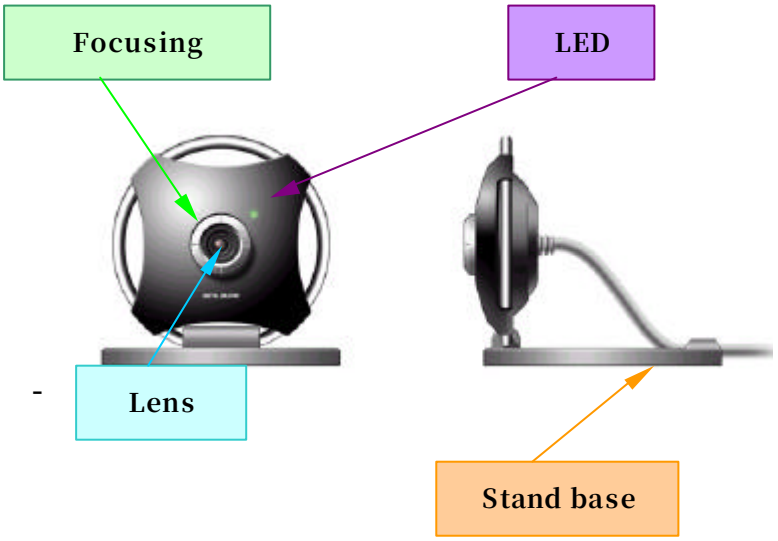
2. 내용물 PARTS

- Cam X PC Camera
- CD-Rom(software)
- Driver
- Operation Manual
- Power Supply for Lap Top

3. Request Items

- CPU : Pentium2-200MHz MMX or AMD K6 or Over Version (than these)
- MEMORY : 32MB or Over Version (than this)
- USB Port: On Board usb port or USB Card
- Windows 98, Windows 98 SE, Windows ME & Windows 2K Professional Version
- Microphone & Speaker System
- CD-ROM Drive

4. The Construction



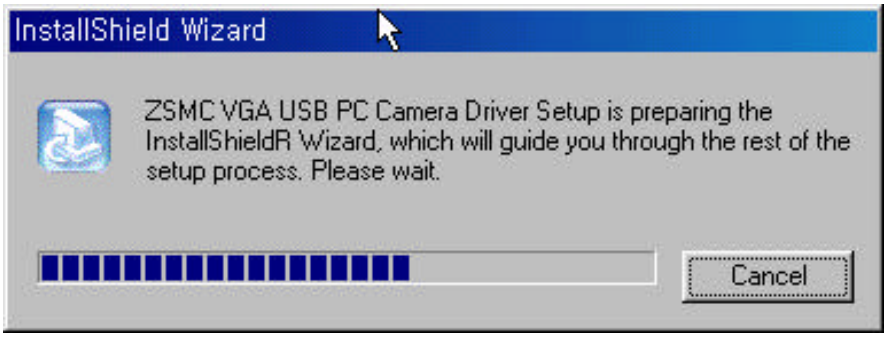
- LED: Power indication of CAM-X
- FOCUS : Adjust image focus
- LEVELING STAND : You can adjust it up and down to capture image that you want position.
- Power Supply for Lap Top : Connect it with Lap top

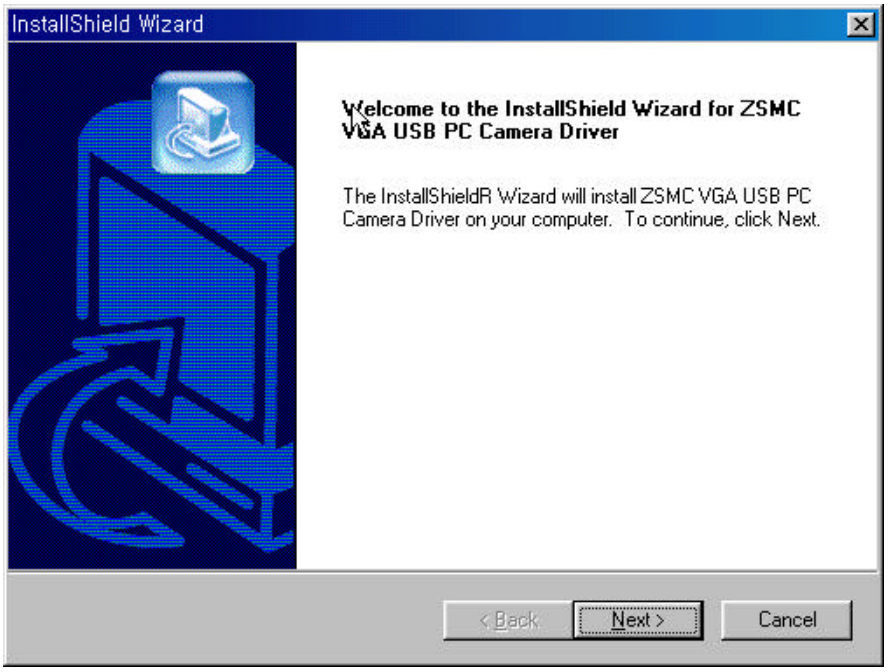
5. The Installation

1) Auto Drive Setting

After inserting the CD in the CD-ROM Drive, The Setting program is shown as following

Perform in sequence [Zsmc-Vga] [Auto] Setup.EXE





After completing the setting, The computer must be restarted to confirm the USB PC Camera working.

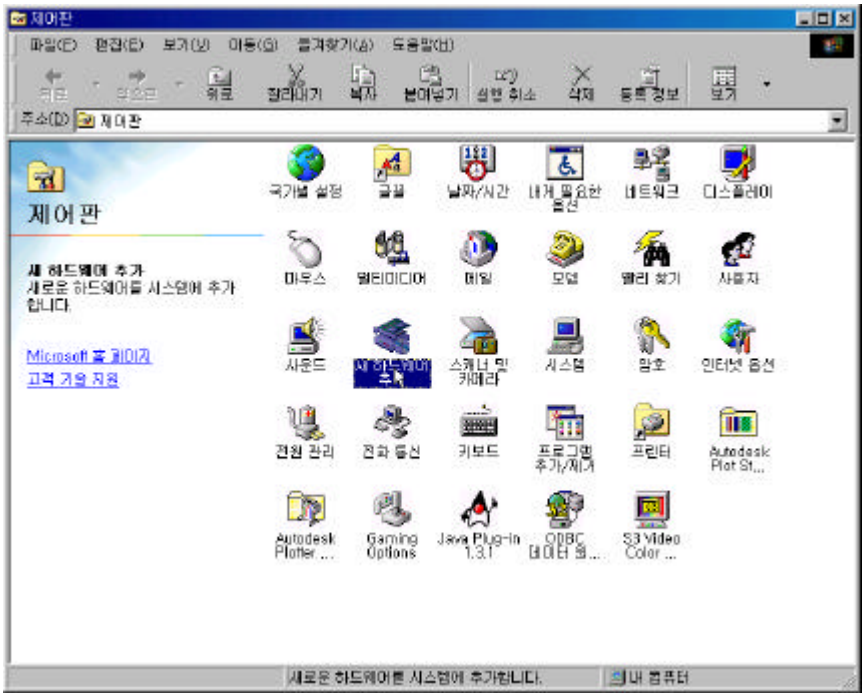
2) Software Setting

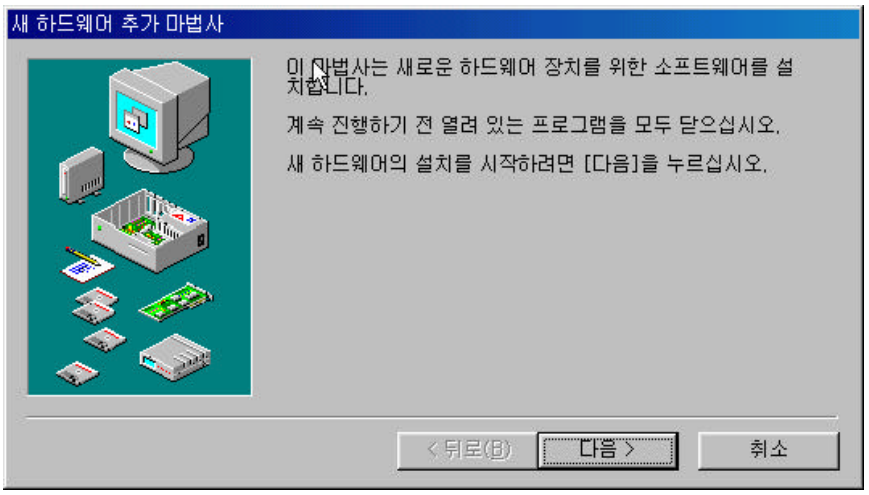
Click the "Software Setting", Then it will be set automatically

[Ready]

3) Manual Setting

- Connect the USB Port
- Click in sequence [Control]-[Addition New Hardware]-[Next]





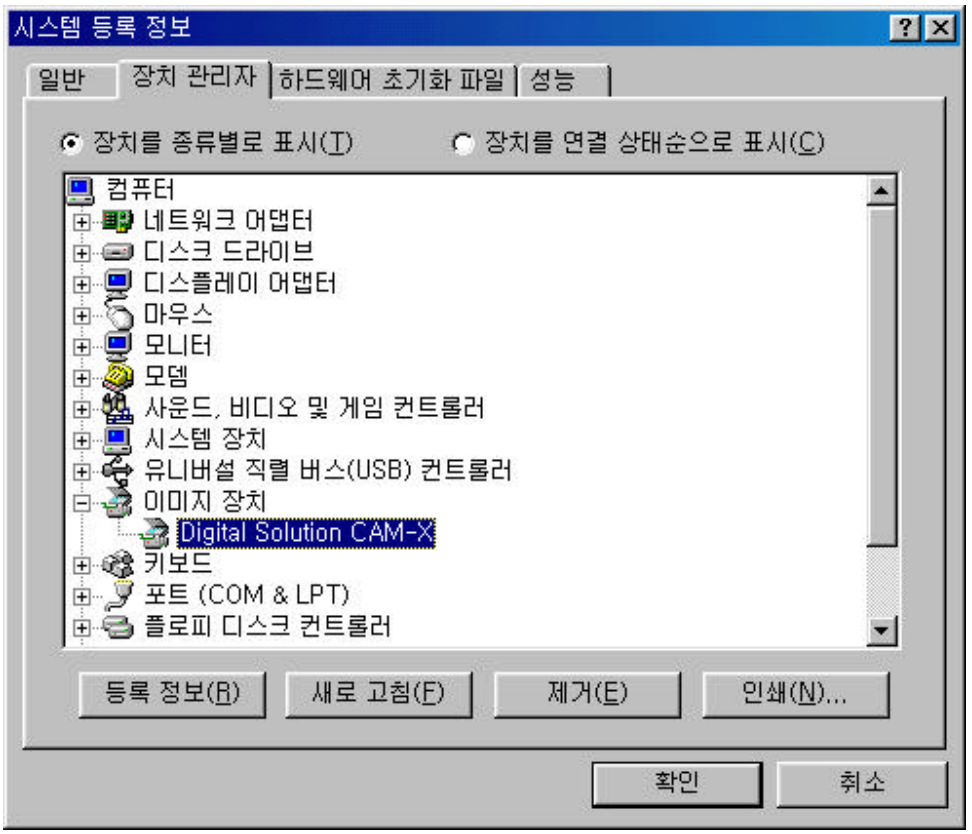
- Select [YES] to check New Hardware
- Select [CD-ROM Driver] and Click [Next] button
- Installation wizard check a proper driver file and copy it in the system.

- During the setting, if "Insert the Windows 98" appear on the screen, then follow this massage.
- After completing the Installation Wizard, Click [Finish] button.
- If you want to check the installed driver file, Click [My Computer] icon in the 바탕 화면(Base(Main) Screen) and Click the right button of your Mouse.

  And Select [Registration Information] menu.

  If the installation was correct then it will display to like a below.

  It display [Image Equipment] [Digital solution Cam-X] in dialogue Box of [System Registration Information] will be shown



6.Connection with Lap Top

How to connect with lap top

7.The caution

- Here are caution items of Cam-X
- Don't place Cam-X at the high humid or temperature place and maintain it cleanly.
- When you clean the Cam-X, please use dry cloth.
- Please don't use tough cloth or solvent
- Please don't break it up, you can not get our service.

8.The specification

- Characteristic of product

1. Stability and high compatibility
2. High grace and super small design
3. Apply to VGA Mode and CIF Mode (Select it in program)
4. Fast flame rate(30 frame/sec) and (high) elegance image
5. Direct show and VFW(Video for Window) Interface
6. Multi output format (RGB24, 1420)
7. Clearness screen by Adopting CMOS of over 320-thousand pixels(?)
8. (160 × 120, 176 × 144, 320 × 240, 352 × 288, 640 × 480) Variety output size
9. (Brightness, Contrast, Hue, Saturation, Gamma, White Balance, Blacklight Compensation and Auto-Exposure 등) Variety Color Selection
10. TradeOff of Speed and Quality
11. USB Bandwidth for user favorite
12. Easy to save the real-time image file(?)
13. CPU Power of low cost energy and high ability system operation
14. Supply the function of Twain(Use to like a scanner driver)

- the specification

1. IMAGE SENSOR : 320,000 화소(640 x 480 Pixel)
2. PC Interface: USB v1.0 & v1.1
3. Lens specification
   - Focal Length : 8.0mm(±0.5 %)
   - View Angel : 30° (1/3 inch) (±0.5 %)
   - Aperture (Fixed Iris) : F/2.0 (±0.5 %)
   - Back Focal Length : 4.5mm(±0.5 %)
   - Flange back Length :3.9mm(±0.5 %)

4. Focus : Macro 10Cm , Normal 3m Infinity
5. Gain Control : Auto
6. Supply Voltage : 5V ~3.3V
7. USB Cable Length : 1.5 m ± 0.2

9. Using Way for Software

How to use the software

Operation method 2(AMCAP)

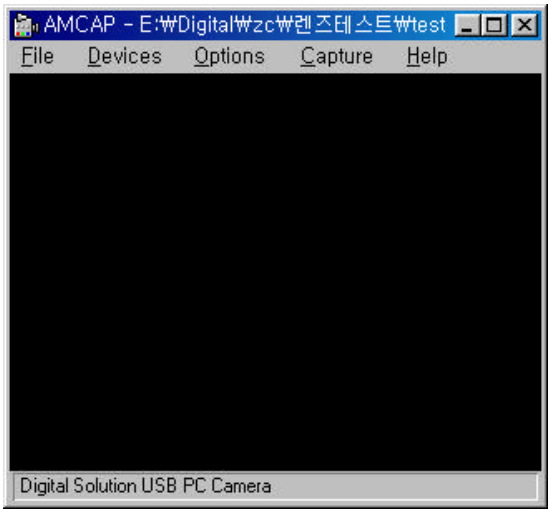
If you click amcap.exe, then you can get the image screen through the camera directly.

Copy the amcap.exe file at the 바탕화면(Base(main) Screen) and double click it with your mouse. The LED of the camera blink during 2~3 sec after initializing the operation box(실행창) appear on the screen.

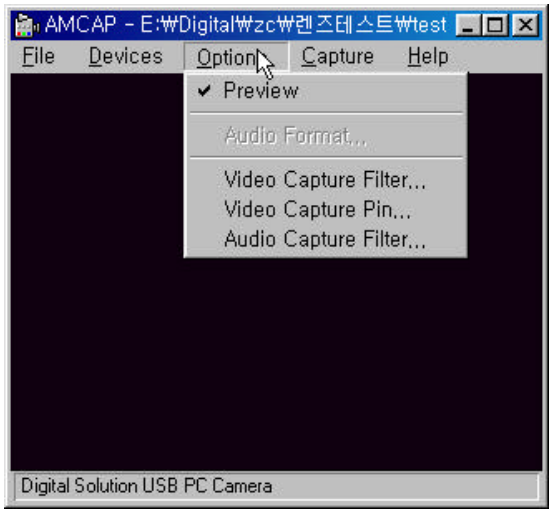
실행 아이콘

If you click the amcap then the program is operated as following.

1) Operation Box

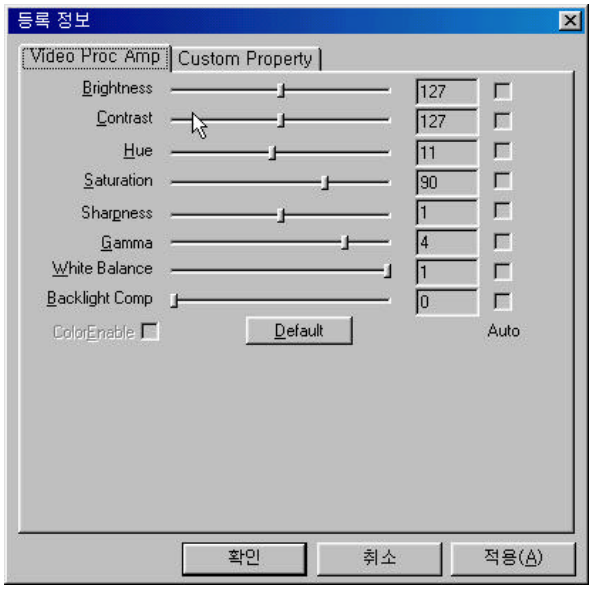


When the image file not appear on the screen, Check [option preview]. You can get real-time image screen.



2) Option 설정 Option setting

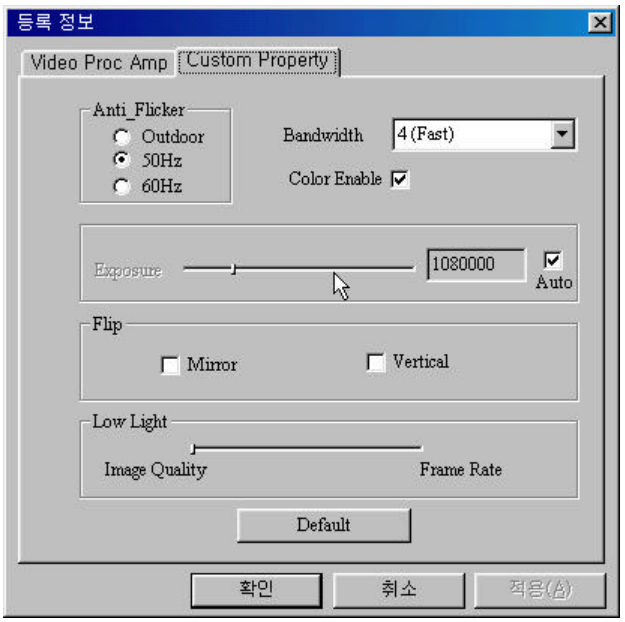
Click [Options video capture filer], be operated as following Video Proc Amp dialog will be opened.



You can get the best image condition by adjusting the Gamma, While Balance, Backlight Comp etc.

If you click the Default then all image condition will be adjusted automatically.

If you operate the Custom Property dialog



-Anti-Flicker : You can adjust frequency that control the image display

-Band Width : You can adjust displayed width of frequency

-Color Enable : You can get the Color Image when Enable is selected

You can get the Black Image when Disable is selected

-Exposure : You can adjust the Brightness and Light/Shade with Scroll bar

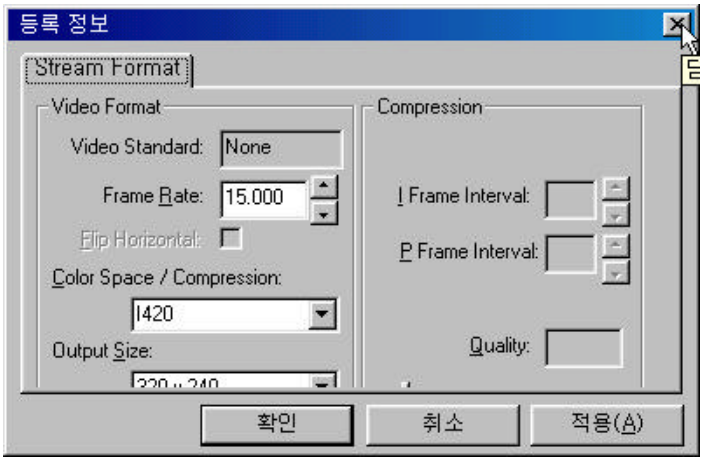
-Mirror : Current image is displayed into horizontal image

Vertical: Current image is displayed into vertical image

Low Light: It adjust the brightness of image etc.

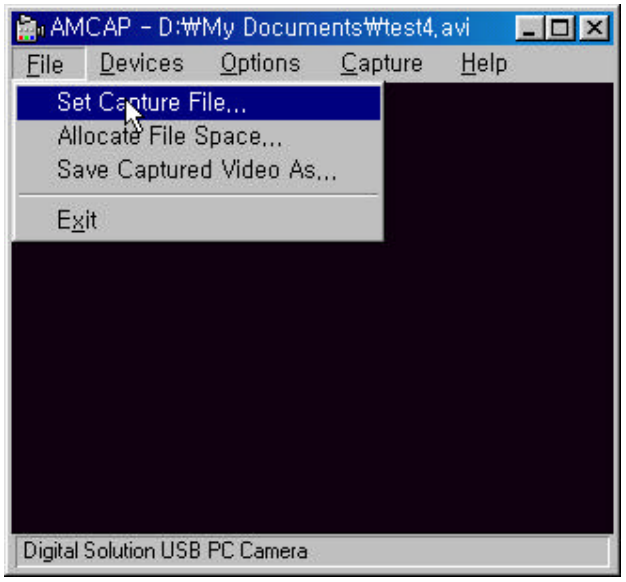
Default: It adjust the best image condition automatically

[Video Capture Pin]



User can adjust the Frame Rate, Color space/ Compression, Output Size etc.

2) Making(Creating) Image Screen(동영상?)
How to make(create) Image Screen(동영상?)

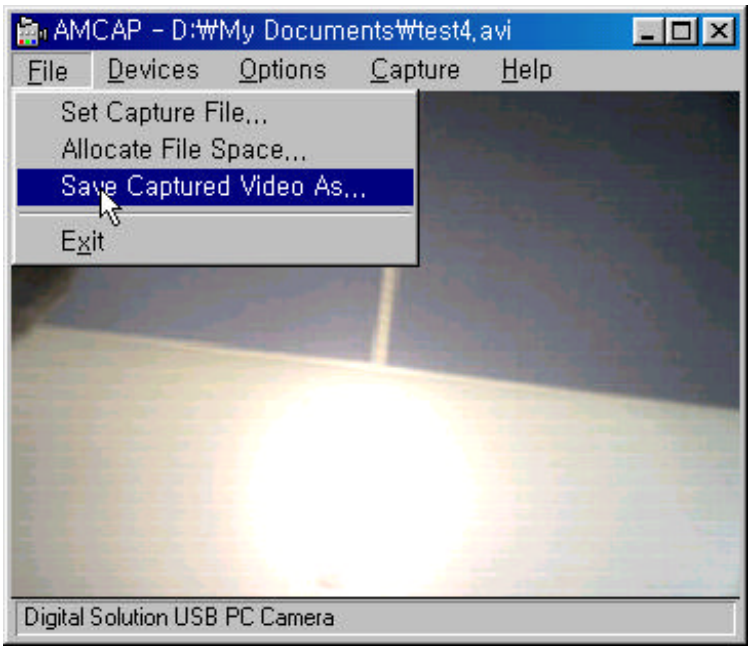


If you select "File Set Capture file", then make a image screen(동영상) file name that user wanted folder or directory in the file open dialog.
The image screen(동영상) name is C:My Document/ *.avi, Please set the extension with "avi".

Click "Capture start capture", you can record into the image screen.(동영상)

You can stop the image screen during the play it by using "capture stop capture"
You can watch the image screen(동영상?) by using midi-player or the other image screen program.

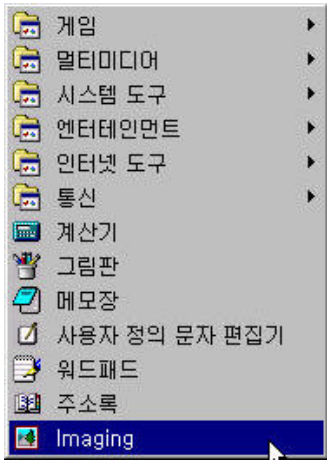
[저장된 파일명을 변경]

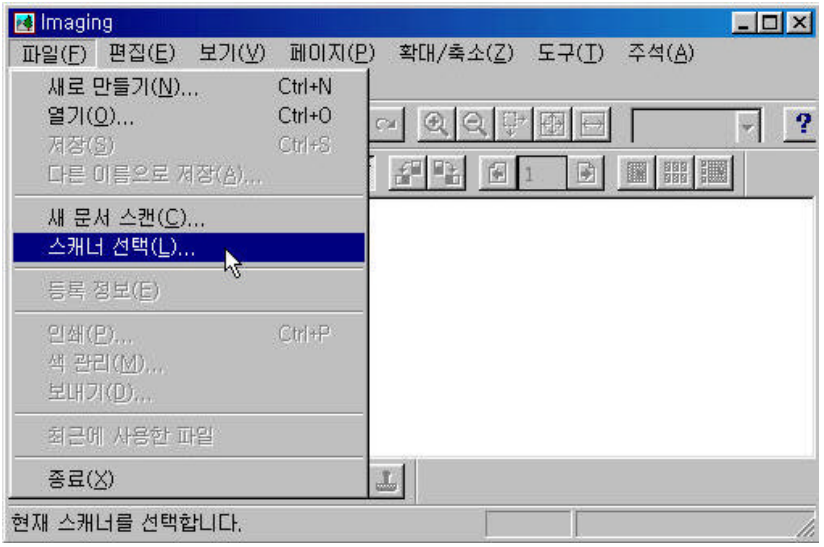


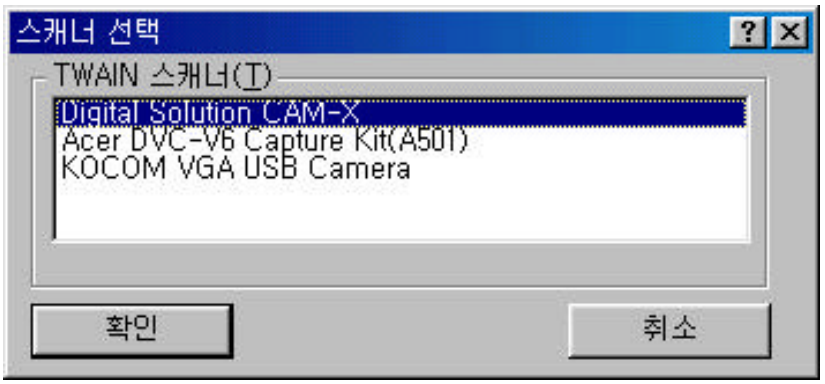
You can use it by setting of function for audio or video freely through other capture and option.

4) 화면 Capture Screen Capture

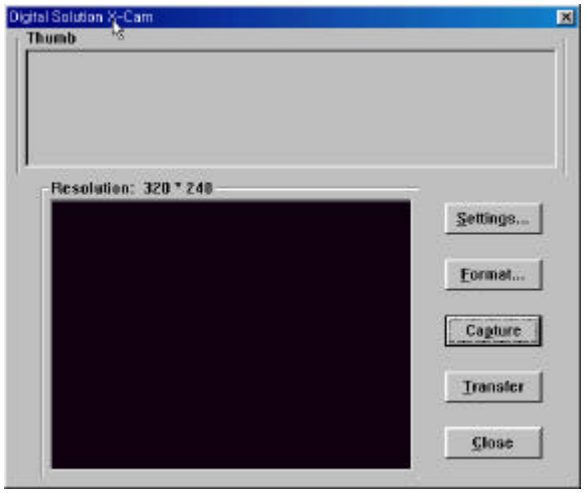
If you want to use the screen capture function, Click in sequence Start Button → Program → Sub-Program → Imaging . You can get the image capture that you wanted

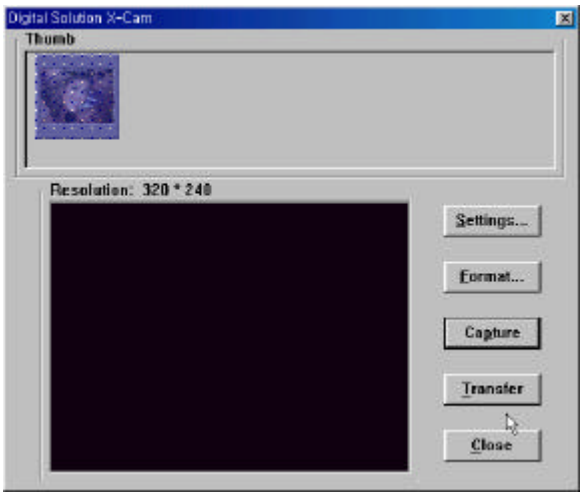






Imaging
파일(F) 편집(E) 보기(V) 페이지(P) 확대/축소(Z) 도구(T)
새로 만들기(N)... Ctrl+N
열기(O)... Ctrl+O
저장(S) Ctrl+S
다른 이름으로 저장(A)...
새 문서 스캔(C)...
스캐너 선택(L)...
등록 정보(E)
인쇄(P)... Ctrl+P
색 관리(M)...
보내기(D)...
1 A:₩PCB-FRONT.jpg
2 A:₩PCB-BACK.jpg
3 E:₩Digital₩...₩ds-00.jpg.bmp
4 E:₩Digital₩...₩kl66424sn-2.tif
종료(X)


Digital Solution X-Cam
Thumb
Resolution: 320 * 240
Settings...
Format...
Capture
Transfer
Close


Digital Solution X-Cam
Thumb
Resolution: 320 * 240
Settings...
Format...
Capture
Transfer
Close

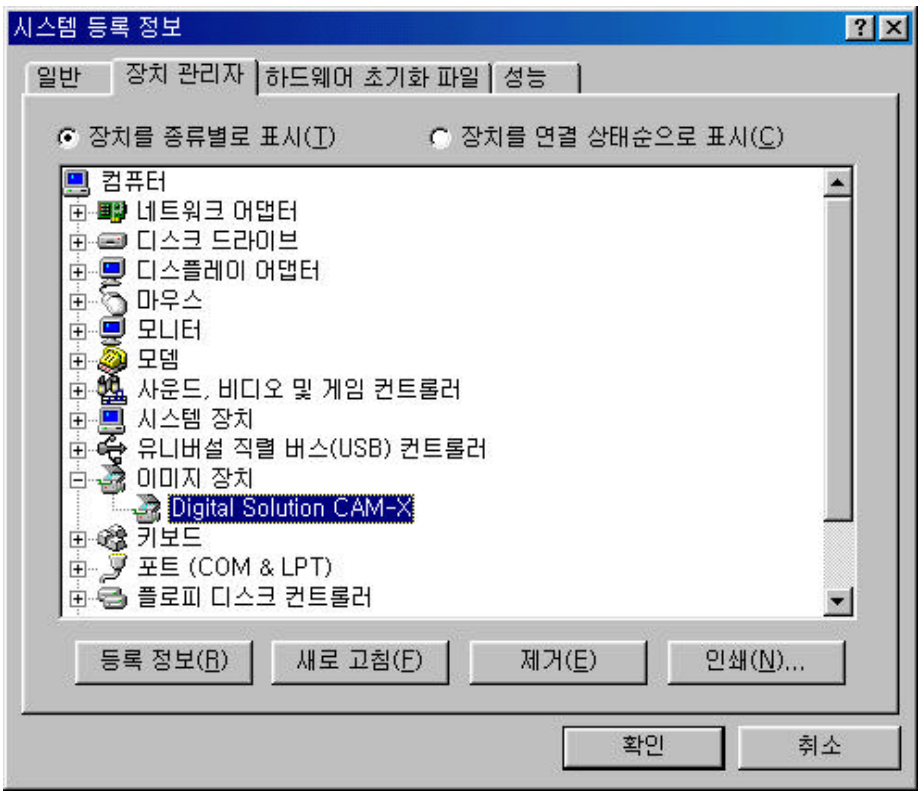
You can modify as a capture the image easily like a above method.

2. 문제해결 방안 The trouble shooting

Q : The Cam-X is not work.

A : Please do yourself like a blow.

1. Take the plug off and connect it again.
2. If the Cam-X is recognized by "Plug in play" in the PC then install the driver again.
3. When it is not recognized "Plug in Play", Click [My computer]-[Registration information]-[invalid equipment] with your right mouse button and operate [Registration information]-[driver]-[driver update] to reinstall the driver.
4. When the above process is corrected, [My computer]-[Registration information]-[Equipment manager]-[image equipment]-[Digital Solution Cam-X] will appear on your screen.



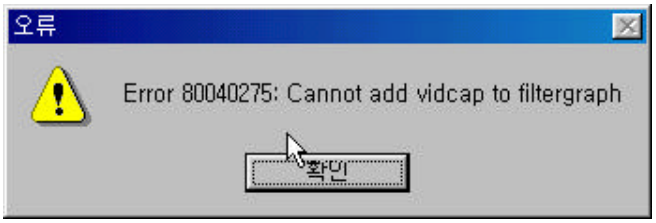
Q : How to remove the Cam-X driver
A :Please do yourself like a blow.

1. Remove the camera (from the card)
2. Click [Control]-[Program add/delete], it is deleted automatically

Q : How to work if Preview Window becomes into black.
A : Check the power of camera and connection of cable with computer. Also check the brightness of Video if it is set properly

Q: You can not hear any sound of Audio, when the recorded video play
A: Check the connection of microphone or speaker and also check the power of speaker.
Check the power of volume, the setting of microphone or speaker.
Normally it is happened at Off situation of microphone's condition, when it record something.

Q: The error message is happened like a below



A: It is happened under the unconnected situation of cable with camera or the drive setting was wrong in the computer. So please reinstall the drive.