



DVR SYSTEM

Installation User's Guide

Manual Revision : Version 1.0
Release Date : Nov. 2, 2002

1. Introduction

- Introduction of Product
- Safety Instruction
- Provided Components

2. Installation

2-1. DVR CARD

- DF-900
- DF-1000 &1500
- DF-2000
- DF-3000
- DF-5000

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- Connection for PAN/TILT
- Modem/ LAN Card Installation

2-3. Windows Setup

- Partition & Format
- Windows Setup
- Drive Installation
- DVR S/W Installation
- 8Ch. Or 16 Ch. Extension

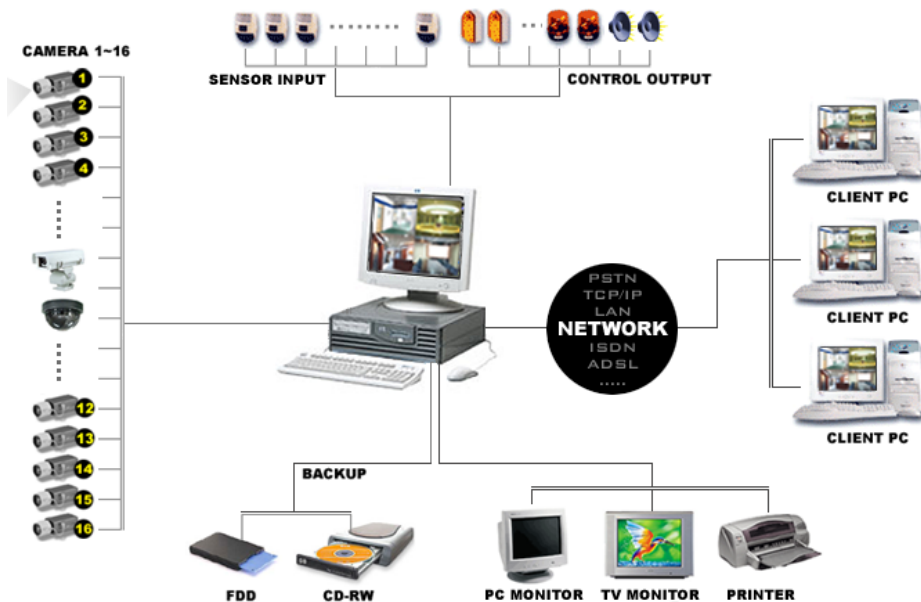


1.Introduction

ABOUT PRODUCT

- ◆ DVR is high technical digital video surveillance system which record image into HDD instead of Analog VCR tape. It gives you the convenience to run systems semi-permanently so video tapes do not need to be changed.
- ◆ No need to install any other equipment. Various functions of DVR make it possible to encode/decode, record, playback, and transfer image data.
- ◆ DVR is user friendly and very easy to install, also it does not need other extra update costs.
- ◆ DVR provides reliable high quality digital picture.
- ◆ DVR is able to be set unmanned to save cost.
- ◆ Max. 16CH screen division, motion detection recording, surveillance by sensor detection.
- ◆ DVR functions are controlled by the mouse only.

SYSTEM CONFIGURATION



SAFETY INSTRUCTION

Safety Notice

When using electrical devices, basic safety precautions should be followed including the following to reduce the risk of electric shock, fire, injury to person or damage to equipment.

Read all instruction before using **DVR** system.

Do not expose the product directly to the sun or a heating apparatus.

Do not expose to rain or extreme humid or dirt environment.

Turn off the Power before installation.

Do not operate any components of these systems if its cord or plug has been damaged, if it is not working properly, or if it has been damaged or dropped.

Proprietary Notice

We reserve the right to make changes to any products herein at any time without notice.

We do not assume any responsibility or liability arising out of the application or use of any product described herein, except as expressly agreed to in writing by us

This manual is made based on the system which is supplied with this manual. If you face any kind of difficulty to use the system, please contact us.



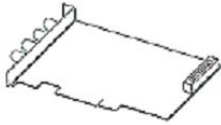
2.Installation

2-1. DVR card

DF-900 CARD

ACCESSARY

1



1. DVR Video Capture Card

2



2. DVR Watch-Dog Cable

3

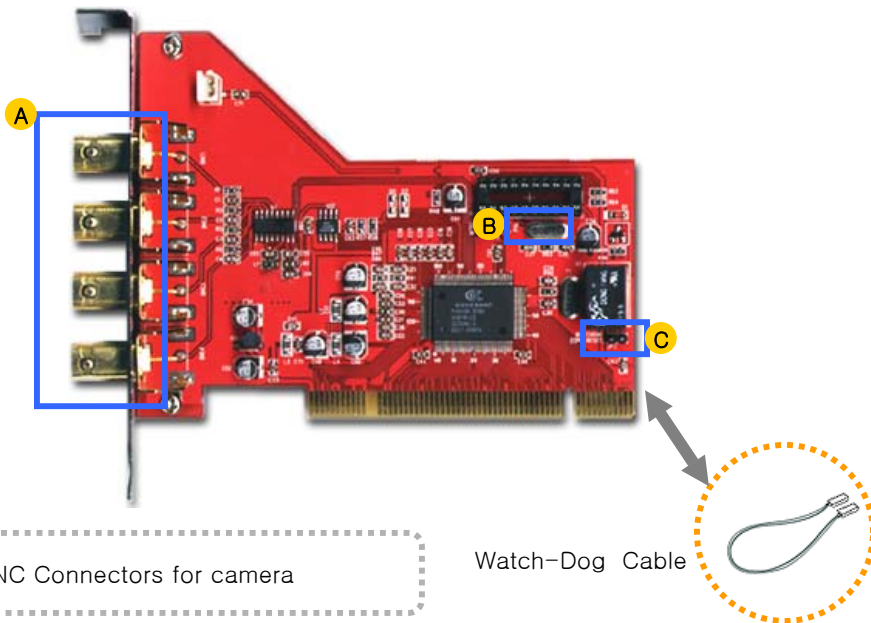


3. CD (Operating S/W, Manual)

SYSTEM REQUIREMENT

- ◆ CPU : Min. PIII 600MHZ (Pentium 4 recommended for over Win2000)
- ◆ MAIN BORD : ASUS MAIN BOARD (Intel – Min. 815 Chipset recommended)
- ◆ MEMORY : 128MB (256M recommended for over Win2000)
- ◆ HARD DISK : Min. 30GB
- ◆ VGA CARD : ATI 32MB RAM, TRUE COLOR (1024*768)
- ◆ O/S : Windows 98, Me, 2000 / NT / XP

DF-900 CARD

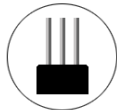


A. BNC Connectors for camera

Watch-Dog Cable

B.

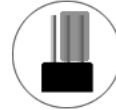
NTSC



PAL



NTSC



PAL

C. Connection for Watch Dog function

Please connect Watch Dog cable to “C” and connect the other side of the cable to RESET switch on Main Board of DVR system.

☞ To understand Watch Dog function of this system, refer SETUP/Standard setup.

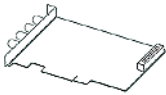
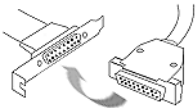


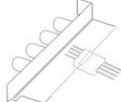


What is Watch Dog Function

As if a dog watches the system all the time, DVR capture card is connected to Reset Part on Main board by Watch Dog cable. When system is unstable (-When system is shut down, When system has Window error-) the DVR system has a function to restart itself without Operator. So this function enables the DVR to run at all times.

DF-1000 & 1500 CARD

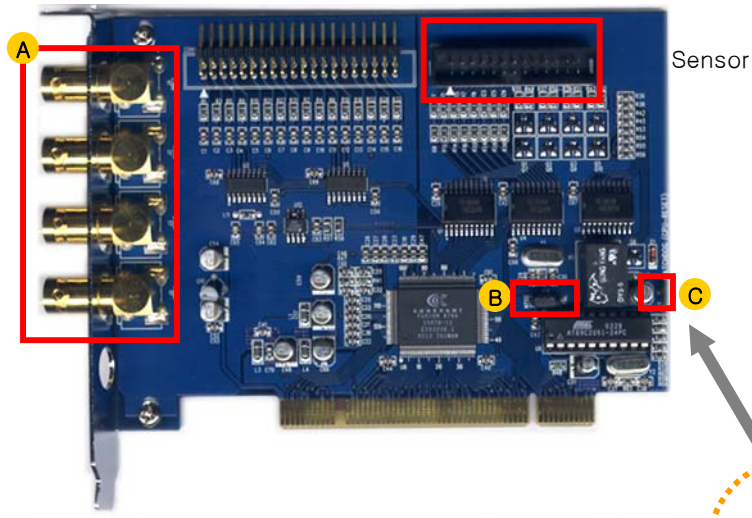
ACCESSORY

- 1  1. DVR Video Capture Card
- 2  2. DVR Sensor Cable
- 3  3. DVR Watch-Dog Cable
- 4  4. CD (Operating S/W, Manual)
- 4  5. BNC Connector (Option)

SYSTEM REQUIREMENT

- ◆ CPU : Min. PIII 600MHZ (Pentium 4 recommended for over Win2000)
- ◆ MAIN BORD : ASUS MAIN BOARD (Intel – Min. 815 Chipset recommended)
- ◆ MEMORY : 128MB (256M recommended for over Win2000)
- ◆ HARD DISK : Min. 30GB
- ◆ VGA CARD : ATI 32MB RAM, TRUE COLOR (1024*768)
- ◆ O/S : Windows 98, Me, 2000 / NT / XP

DF-1000 CARD

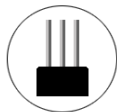


A. BNC Connectors for camera

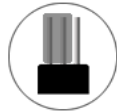
Watch-Dog Cable

B.

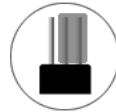
NTSC



PAL



NTSC



PAL

C. Connection for Watch Dog function

Please connect Watch Dog cable to “C” and connect the other side of the cable to RESET switch on Main Board of DVR system.

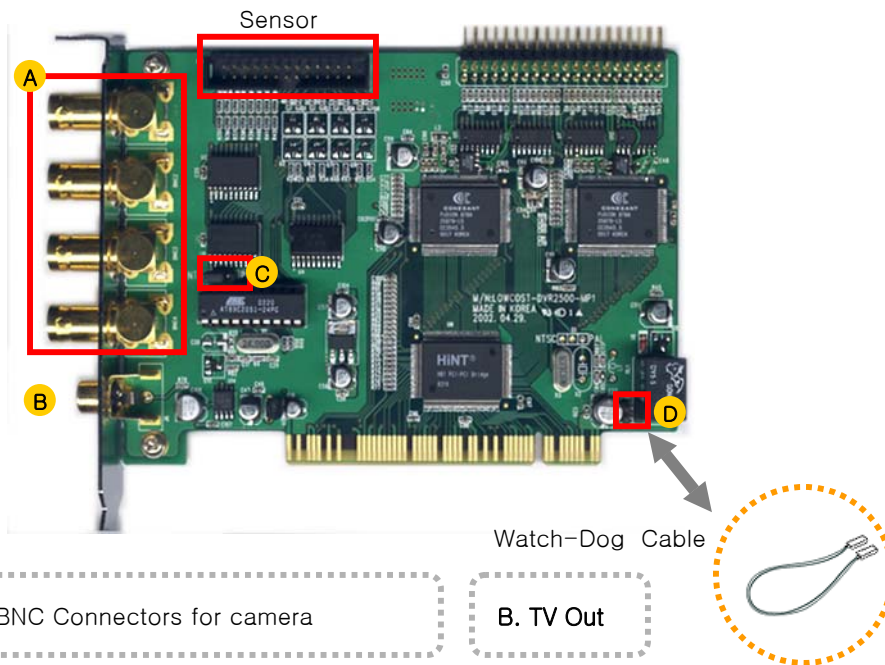
☞ To understand Watch Dog function of this system, refer SETUP/Standard setup.



What is Watch Dog Function

As if a dog watches the system all the time, DVR capture card is connected to Reset Part on Main board by Watch Dog cable. When system is unstable (-When system is shut down, When system has Window error-) the DVR system has a function to restart itself without Operator. So this function enables the DVR to run at all times.

DF-1500 CARD

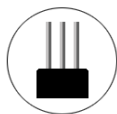


A. BNC Connectors for camera

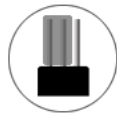
B. TV Out

C.

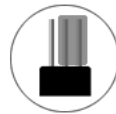
NTSC



PAL



NTSC



PAL

D. Connection for Watch Dog function

Please connect Watch Dog cable to “D” and connect the other side of the cable to RESET switch on Main Board of DVR system.

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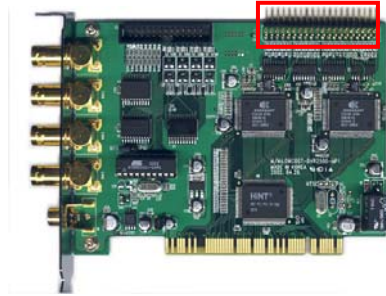
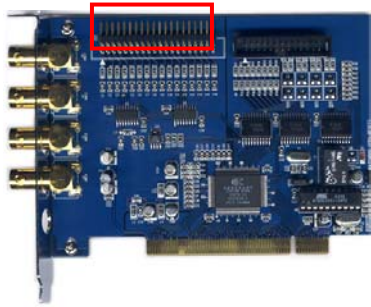
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As if a dog watches the system all the time, DVR capture card is connected to Reset Part on Main board by Watch Dog cable. When system is unstable (-When system is shut down, When system has Window error-) the DVR system has a function to restart itself without Operator. So this function enables the DVR to run at all times.

DF-1000 & 1500 CARD

EXTENSION

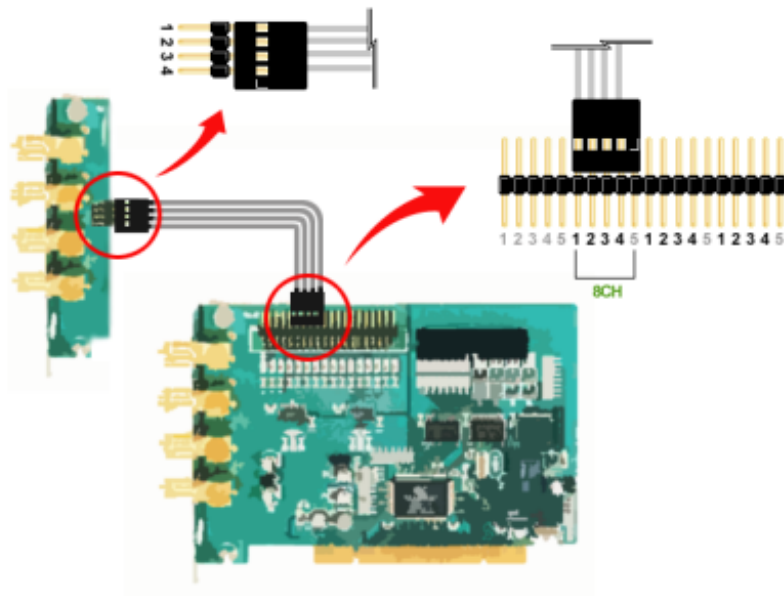
Channel Extension with BNC connector



👉 How to connect Extension boards

EXTENTION BOARD CONNECTION

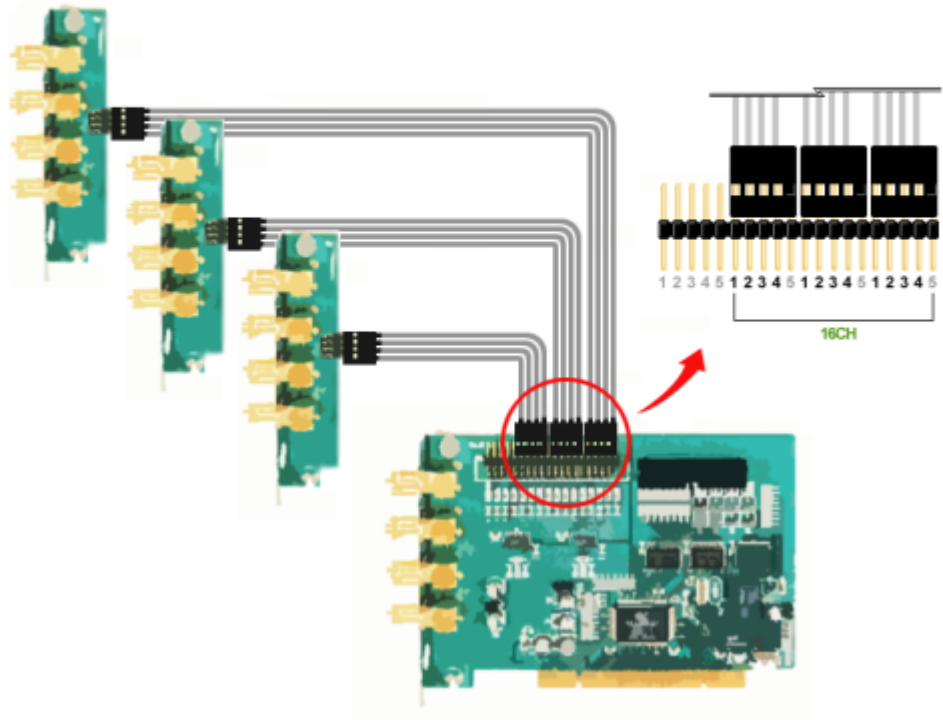
1. **DVR board 1 EA + BNC extension board 1 EA = 8 Ch.**



☞ How to connect Extension boards

EXTENTION BOARD CONNECTION

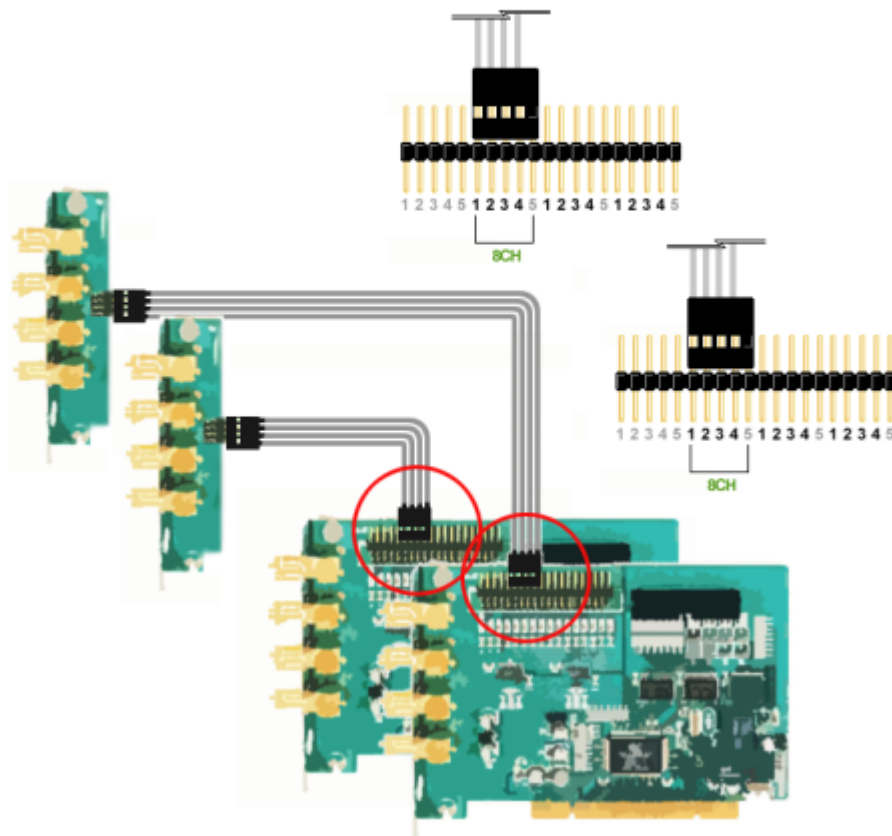
- 2. DVR board 1 EA + BNC extension board 3 EA= 16 Ch.



👉 **How to connect Extension boards**

EXTENSION BOARD CONNECTION

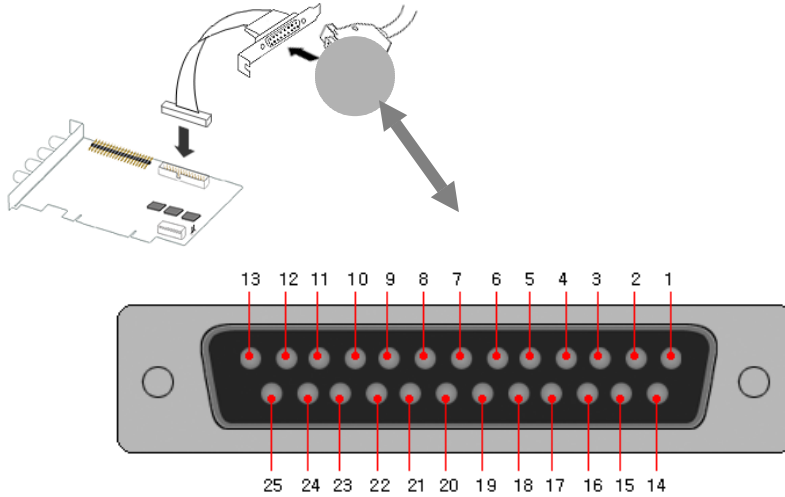
- 3. **DVR board 2 EA + BNC extension board 2 EA = 16 Ch.**



<< Only DF-1000 board is stackable up to 2 (Max. 60 FPS) >>

DF-1000 & 1500 CARD

SENSOR CABLE CONNECTION


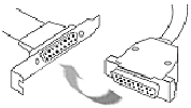





* 25PIN CONNECTOR PIN NUMBER FOR SENSOR

Pin NO	Input/Output	Color	Pin NO	Input/Output	Color
1	Sensor Input 1	Red	14	Sensor Input9	Red
2	Sensor Input 2	Orange	15	Sensor Input10	Orange
3	Sensor Input 3	Yellow	16	Sensor Input11	Yellow
4	Sensor Input 4	Green	17	Sensor Input12	Green
5	Sensor Input 5	Blue	18	Sensor Input13	Blue
6	Sensor Input 6	Purple	19	Sensor Input14	Purple
7	Sensor Input 7	Gray	20	Sensor Input15	Gray
8	Sensor Input 8	White	21	Sensor Input16	White
9	D/O1	red	22	D/O 5	Blue
10	D/O2	Orange	23	D/O 6	purple
11	D/O3	Yellow	24	D/O 7	Gray
12	D/O4	Green	25	D/O 8	White
13	12V Power	Black			

DF-2000 CARD

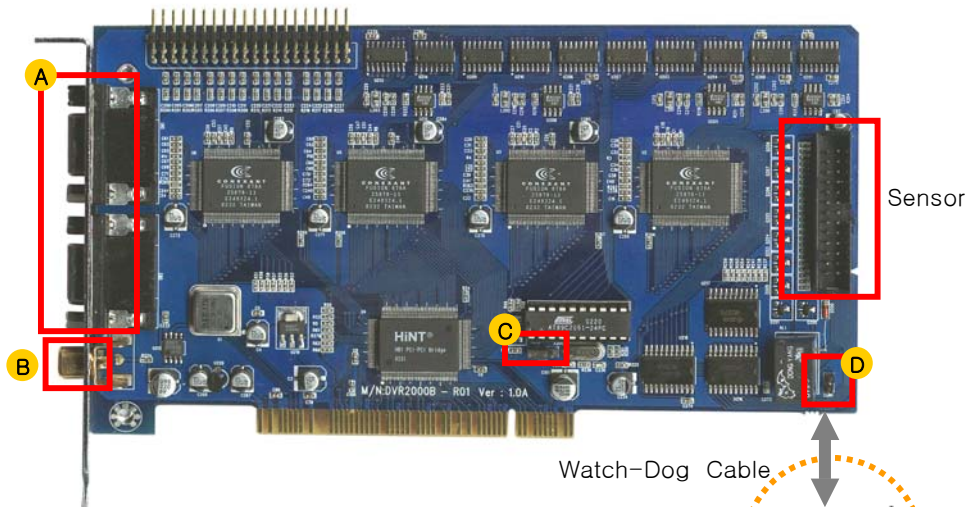
ACCESSORY

-  1. DVR Video Capture Card
-  2. DVR Sensor Cable
-  3. Camera Input Cable
-  4. DVR Watch-Dog Cable
-  5. CD (Operating S/W, Manual)

SYSTEM REQUIREMENT

- ◆ CPU : Min. PIII 600MHZ (Pentium 4 recommended for over Win2000)
- ◆ MAIN BORD : ASUS MAIN BOARD (Intel – Min. 815 Chipset recommended)
- ◆ MEMORY : 64MB (256M recommended for over Win2000)
- ◆ HARD DISK : Min. 20GB
- ◆ VGA CARD : ATI 32MB RAM, TRUE COLOR (1024*768)
- ◆ O/S : Windows 98, Me, 2000 / NT / XP

DF-2000 CARD

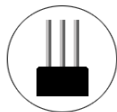


A. BNC Connectors for camera

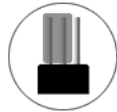
B. TV Out

C.

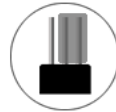
NTSC



PAL



NTSC



PAL

D. Connection for Watch Dog function

Please connect Watch Dog cable to “D” and connect the other side of the cable to RESET switch on Main Board of DVR system.

☞ To understand Watch Dog function of this system, refer SETUP/Standard setup.

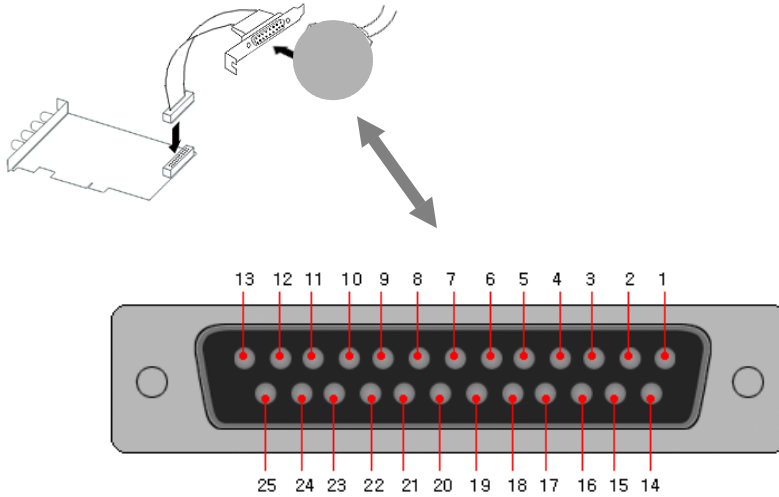


What is Watch Dog Function

As if a dog watches the system all the time, DVR capture card is connected to Reset Part on Main board by Watch Dog cable. When system is unstable (-When system is shut down, When system has Window error-) the DVR system has a function to restart itself without Operator. So this function enables the DVR to run at all times.

DF-2000 CARD

SENSOR CABLE CONNECTION



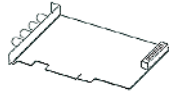
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8	Sensor Input 8	White	21	Sensor Input16	White
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10	D/O2	Orange	23	D/O 6	purple
11	D/O3	Yellow	24	D/O 7	Gray
12	D/O4	Green	25	D/O 8	White
13	12V Power	Black			

DF-3000 CARD

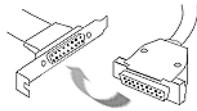
ACCESSORY

1



1. DVR Video Capture Card

2



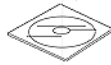
2. DVR Sensor Cable

3



3. DVR Watch-Dog Cable

4

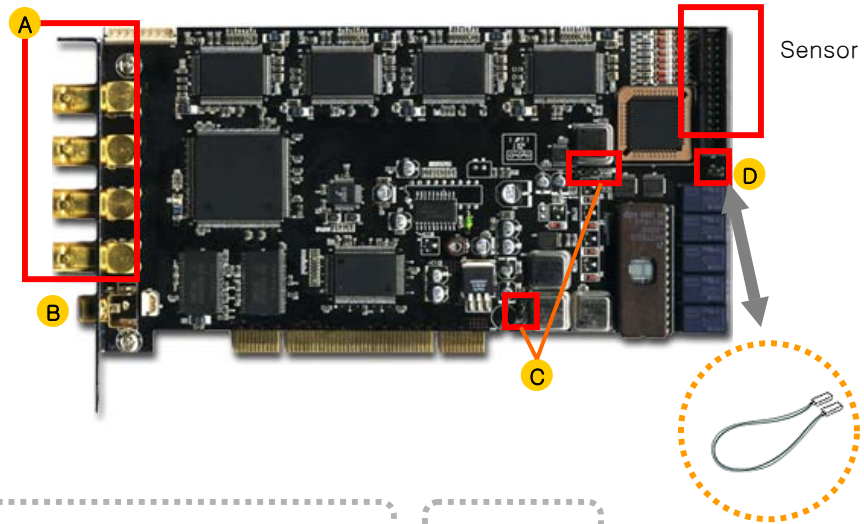


4. CD (Operating S/W, Manual)

SYSTEM REQUIREMENT

- ◆ CPU : Min. PIII 600MHZ (Pentium 4 recommended for over Win2000)
- ◆ MAIN BORD : ASUS MAIN BOARD (Intel – Min. 815 Chipset recommended)
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- ◆ HARD DISK : Min. 20GB
- ◆ VGA CARD : ATI 32MB RAM, TRUE COLOR (1024*768)
- ◆ O/S : Windows 98, Me, 2000 / NT / XP

DF-3000 CARD

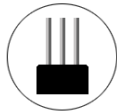


A. BNC Connectors for camera

B. TV Out

Watch-Dog Cable

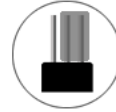
C. NTSC



PAL



NTSC



PAL

D. Connection for Watch Dog function

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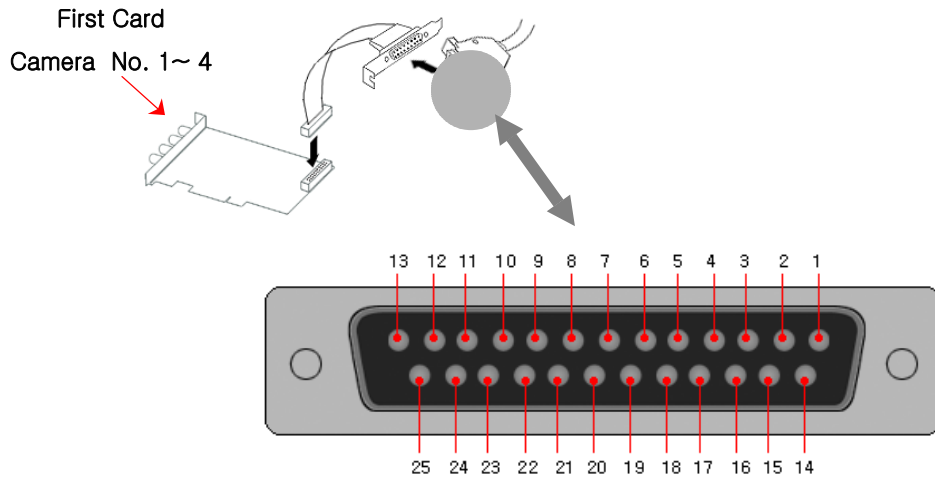


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DF-3000 CARD

SENSOR CABLE CONNECTION



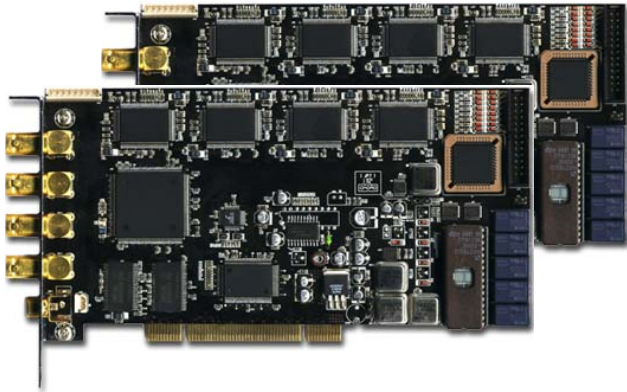
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6	Sensor Input 6	Green	19	D/O 2 NO	Yellow
7	Sensor Input 7	Blue	20	D/O 3 NC	White
8	Sensor Input 8	Purple	21	D/O 3 COM	Gray
9	Sensor GND	Black	22	D/O 3 NO	Orange
10	Sensor GND	Black	23	D/O 4 NC	White
11	Sensor GND	Black	24	D/O 4 COM	Gray
12	Sensor GND	Black	25	D/O 4 NO	Purple
13	Sensor GND	Black			

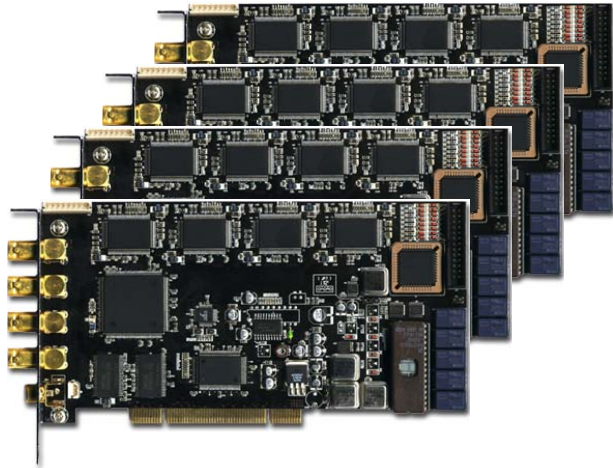
DF-3000 CARD

EXTENSION

8CH









16CH



DF-5000 CARD

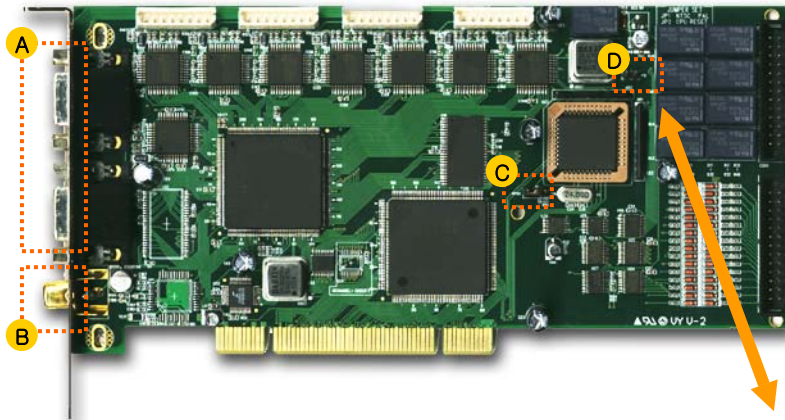
ACCESSORY

-  1. DVR Video Capture Card
-  2. DVR Sensor & Alarm Card
-  3. Fan Card
-  4. DVR Watch-Dog Cable
-  5. CD (Operating S/W, Manual)
-  6. Camera input cable

SYSTEM REQUIREMENT

- ◆ CPU : Min. Pentium 4
- ◆ MAIN BORD : ATX MAIN BOARD (Intel – Min. 815 Chipset recommended)
- ◆ MEMORY : 256M recommended
- ◆ HARD DISK : Min. 20GB
- ◆ VGA CARD : 32MB RAM, TRUE COLOR (1024*768)
- ◆ O/S : Windows 2000 / NT / XP

DF-5000 CARD



Watch-Dog Cable

A. BNC Connectors for camera

B. TV Out

C.

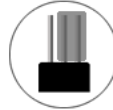
NTSC



PAL



NTSC



PAL

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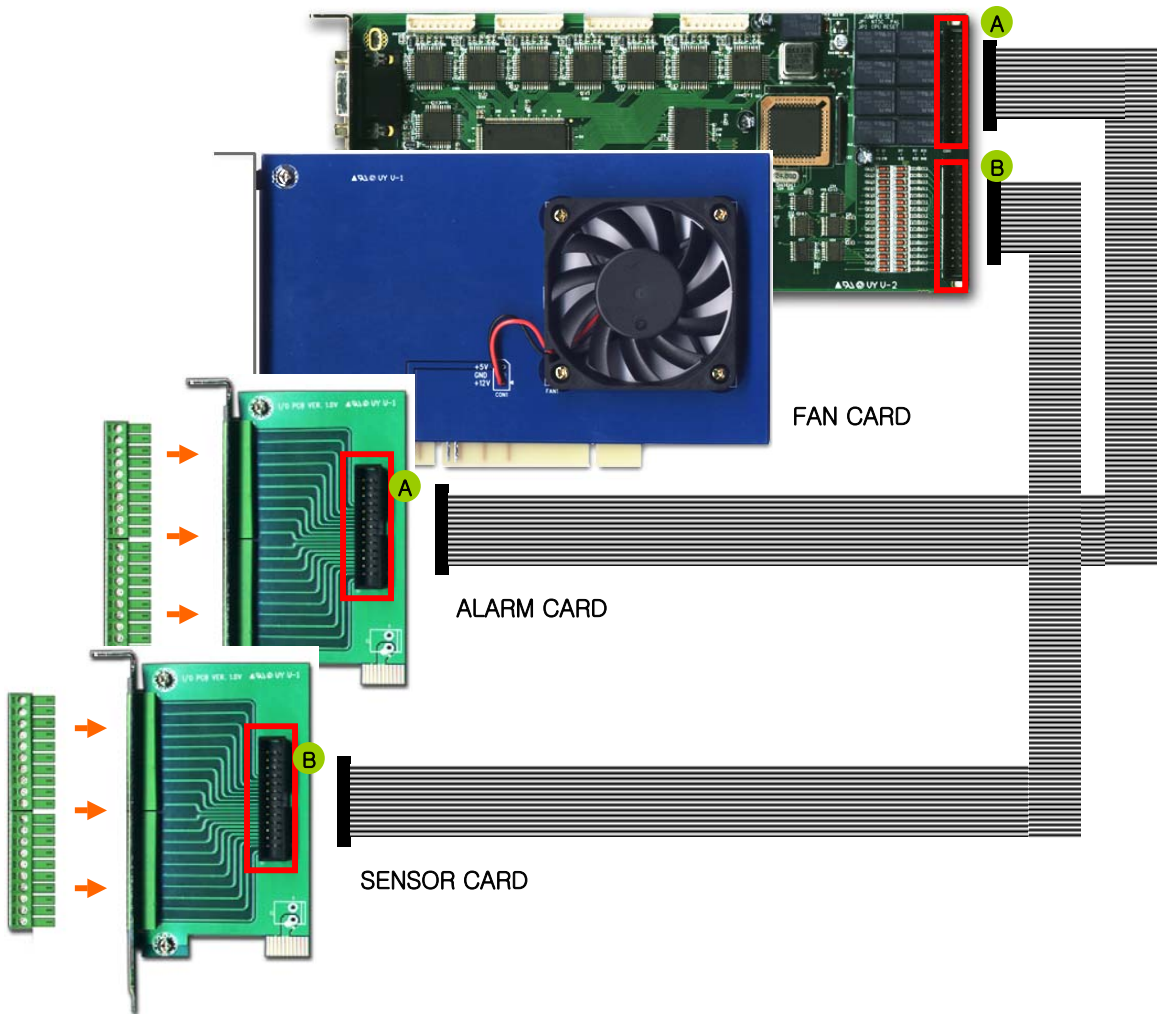


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DF-5000 CARD

SENSOR CABLE CONNECTION



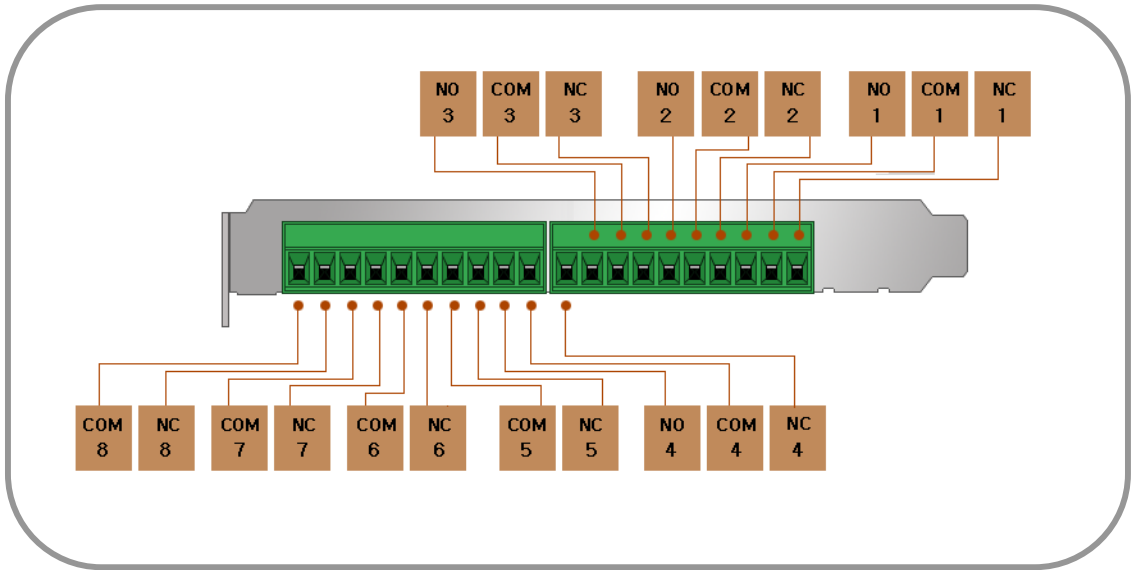
A ALARM CONNECTION

B SENSOR CONNECTION

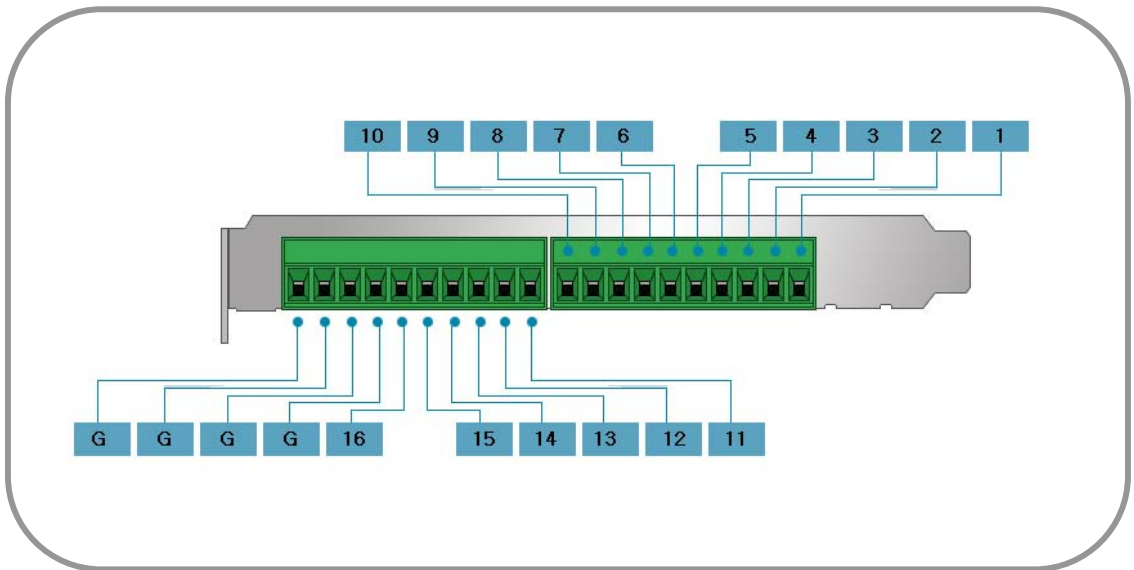
DF-5000 CARD

SENSOR CABLE CONNECTION

A ALARM CARD (8 EA)





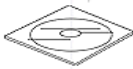



B SENSOR CARD (16 EA)



DF-6000 CARD

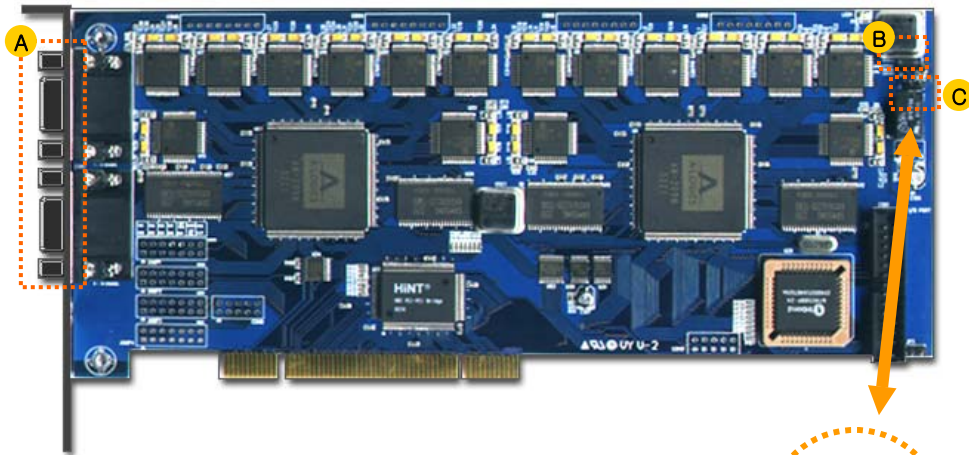
ACCESSORY

1.  1. DVR Video Capture Card
2.  2. DVR Sensor & Alarm Card
3.  3. Fan Card
4.  4. DVR Watch-Dog Cable
5.  5. CD (Operating S/W, Manual)
6.  6. Camera input cable

SYSTEM REQUIREMENT

- ◆ CPU : Min. Pentium 4
- ◆ MAIN BORD : ATX MAIN BOARD (Intel – Min. 815 Chipset recommended)
- ◆ MEMORY : 256M recommended
- ◆ HARD DISK : Min. 20GB
- ◆ VGA CARD : 32MB RAM, TRUE COLOR (1024*768)
- ◆ O/S : Windows 2000 / NT / XP

DF-6000 CARD



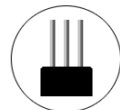
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Watch-Dog Cable

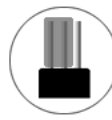


B.

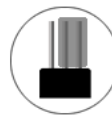
NTSC



PAL



NTSC



PAL

C. Connection for Watch Dog function

Please connect Watch Dog cable to “C” and connect the other side of the cable to RESET switch on Main Board of DVR system.

👉 To understand Watch Dog function of this system, refer SETUP/Standard setup.

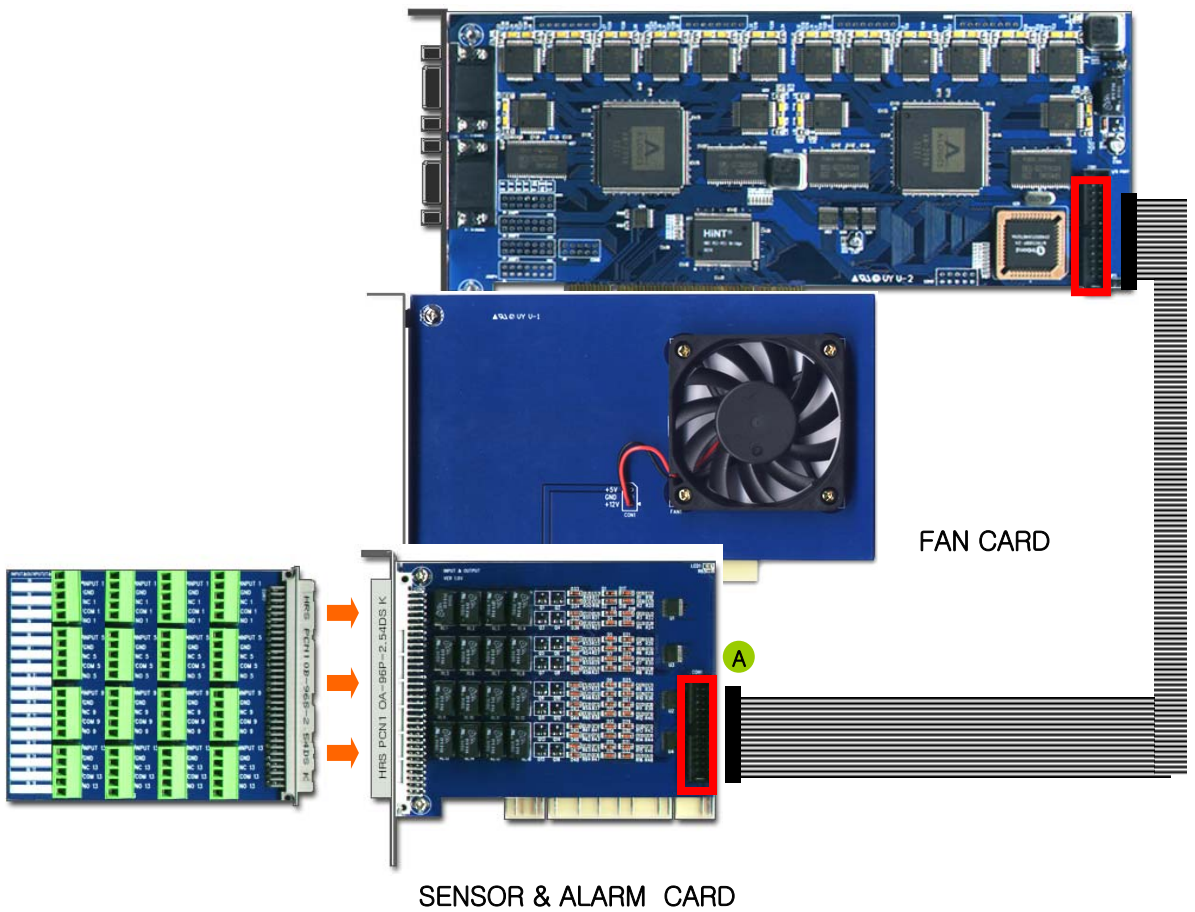


What is Watch Dog Function

As if a dog watches the system all the time, DVR capture card is connected to Reset Part on Main board by Watch Dog cable. When system is unstable (-When system is shut down, When system has Window error-) the DVR system has a function to restart itself without Operator. So this function enables the DVR to run at all times.

DF-6000 CARD

SENSOR CABLE CONNECTION

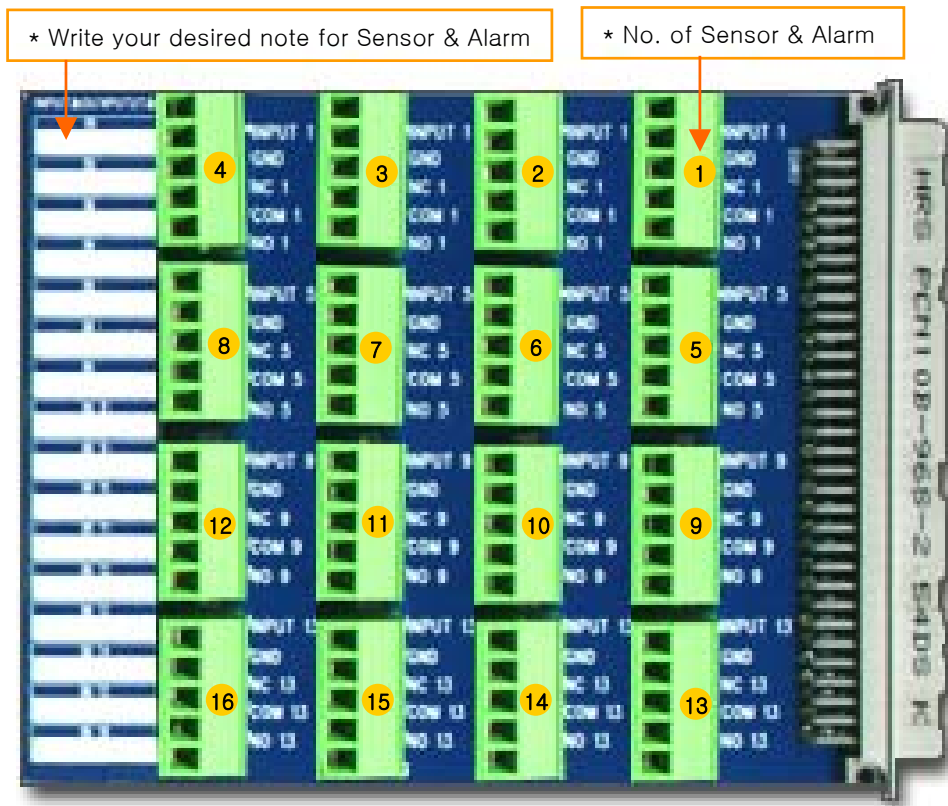
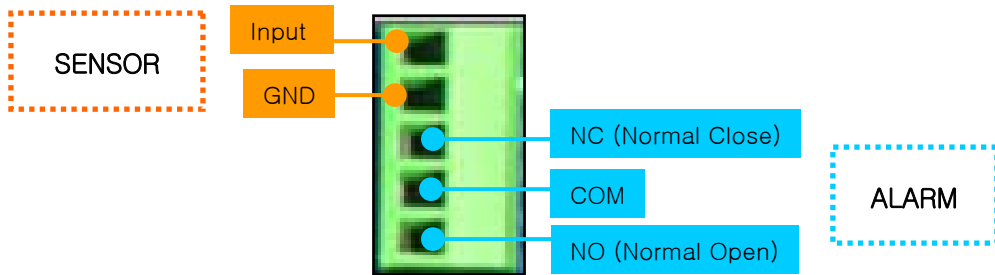


A SENSOR & ALARM CONNECTION

DF-6000 CARD

SENSOR & ALARM CONNECTION

● SENSOR & ALARM CARD

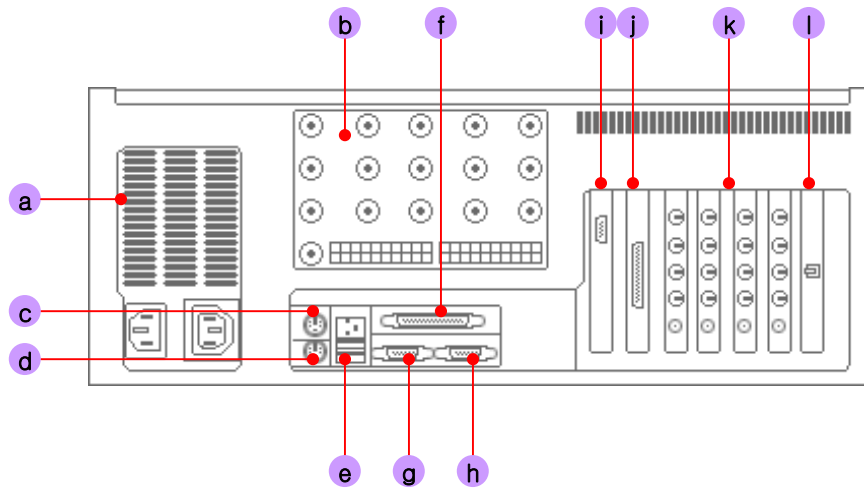




2.Installation

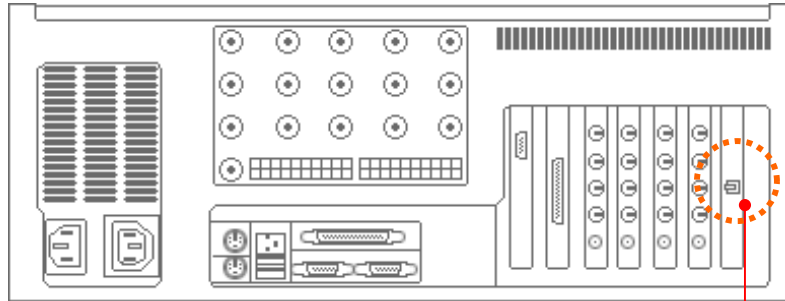
2-2. DVR system

REAR PANEL OF SYSTEM



- a. POWER SUPPLY : Check Set Dip Switch of 110/230V AC. Connect Power Cable into Power socket.
- b. CAMERA INPUT : BNC Connectors for camera input. Depend on type of Rack mount, which is not included.
- c. MOUSE : PS/2 socket for mouse
- d. KEY BOARD : PS/2 socket for keyboard
- e. USB : USB port
- f. PRINTER : Pinter port
- g. COM1
- h. COM2
- i. VGA CARD
- j. SENSOR CABLE : Fixed the provided sensor cable guide as picture.
- k. CAMERA INPUT : Each DVR card has CAMERA INPUT BNC Connector.l
- l. MODEM CARD / LAN CARD : MODEM or LAN card can be installed.

MODEM / LAN CARD INSTALL



Install Modem Card
in Server System

MODEM

Install LAN Card
in Server System

LAN

PSTN

INTERNET
&
LAN

Install Modem Card
in Client PC

MODEM

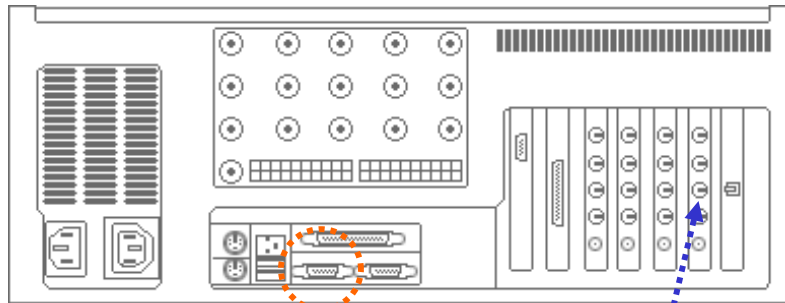
Install LAN Card
in Client PC

LAN



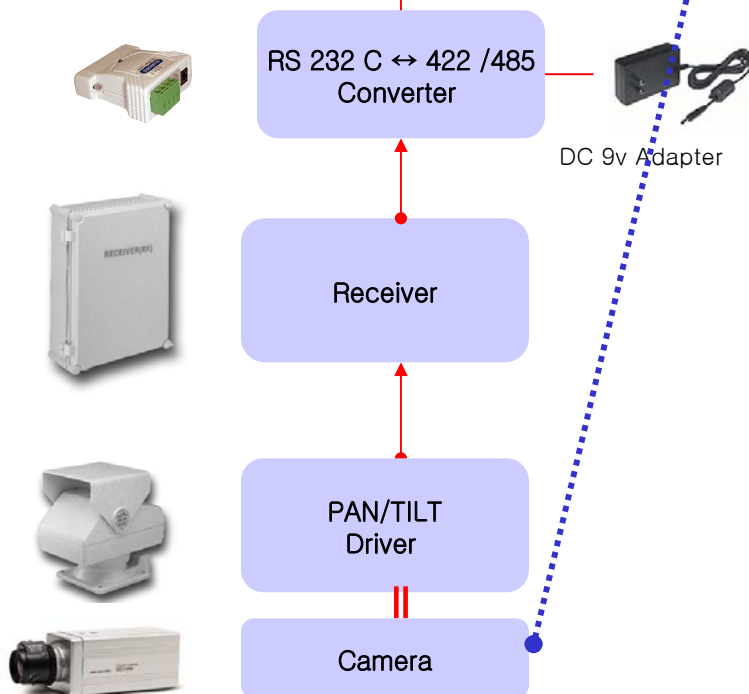
CLIENT PC

CONNECTION FOR PAN/TILT



Connect RS 232 C \leftrightarrow 422/485 Converter for Pan/Tilt Receiver or Speed Dome to COM port of DVR Server System

Connect Video image data cable from Camera to DVR card





2.Installation

2-3. Windows setup

PARTITION & FORMAT

☞ Please make sure to understand it before HDD Partition of DVR System

C : \ → In C: Drive must be DVR Operating S/W and O/S – Window98 only.
About **3Gb** for the space of C: Drive is enough.

D : \ → In D: Drive is for the space of input image data from cameras.
About the space is rest of HDD space that deduct C: Drive space from
HDD total space.

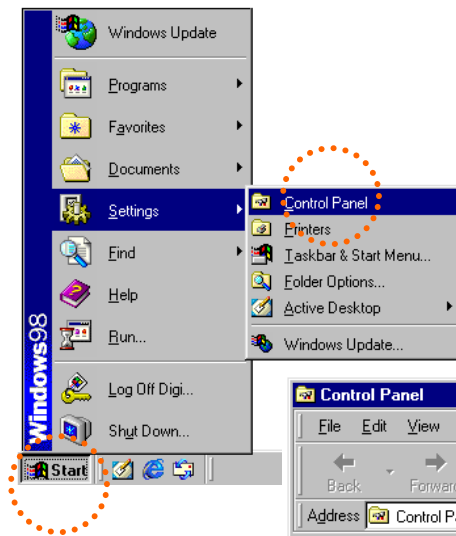
※ Disk Drive can be made from C:W to X:W (about 20 different Space). Input image data from camera is automatically recorded from D:W by DVR S/W.
When D:W is full it automatically starts to write next Drive E:W, F:W....
Please refer to the next two pages (Example of HDD partition) to learn about how to make HDD partition.

※ When you want to use certain Drive for back up Windows or DVR S/W etc,
Make a Folder named "BACKUP" or "MAIN". DVR S/W will find those
two names of the folder and skip the Drive. It will record to next Drive.

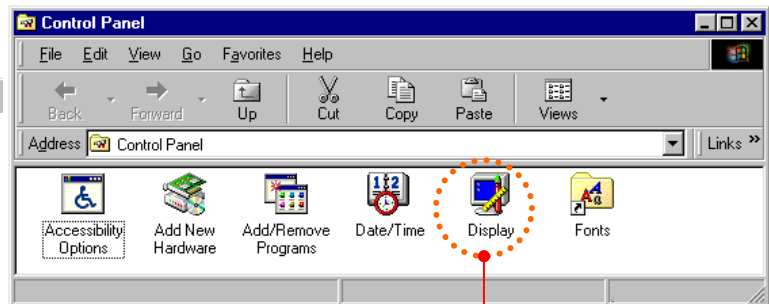


※ If you must use the DVR system for DVR purpose only,
the system can be damaged, when you install other S/W
for other purpose not only Windows and DVR S/W as first.
And this can be a problem for A/S.

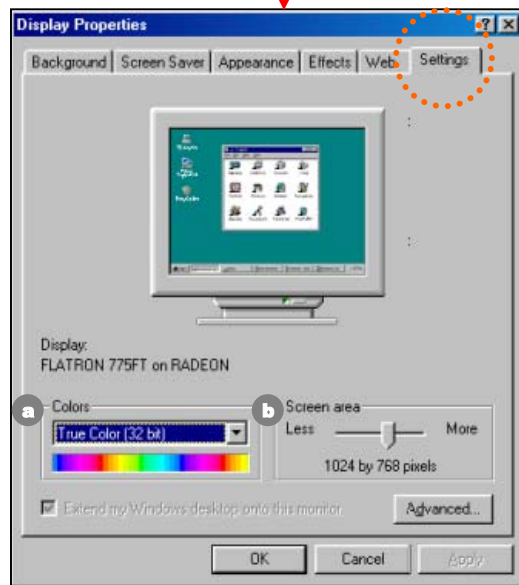
ADJUST SCREEN RESOLUTION



Start -> Setting ->Control Panel

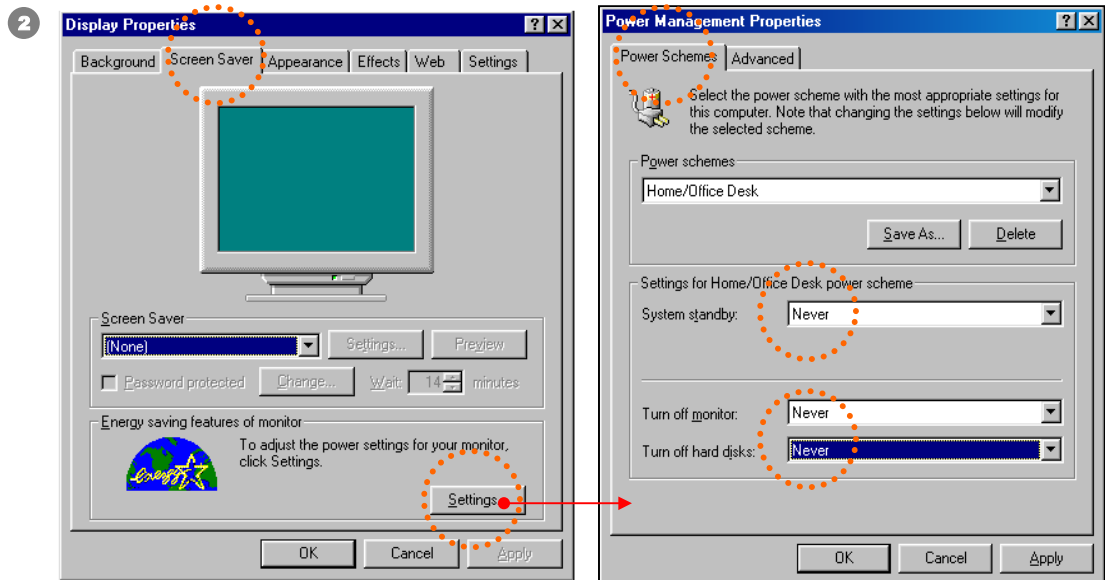


1



- a. On Display Properties Screen, Color adjust Display 'True Color 32bit'
- b. Screen area 1024 x 768 pixels resolution.

POWER MANAGEMENT PROPERTIES



☛ Screen Saver Set Up

If you don't set up 'Power Management', often the Monitor turns off to save power. It may cause a misunderstanding that DVR system may have an error.

☛ System standby : 'Never'

Turn off Monitor : 'Never'

Turn off hard disks : 'Never'

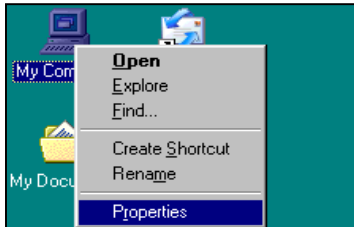
Please make sure that set up is as above. Then click Apply, click OK !

SET HDD DMA FUNTION

FOR WIN 98 & ME

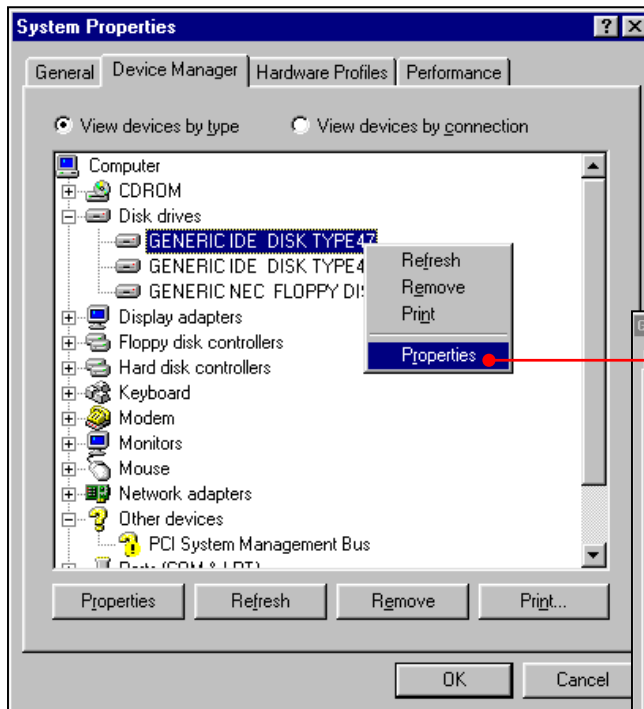
☞ HDD DMA is allowed to access Memory directly without using CPU. It is faster in recording more data images.

1



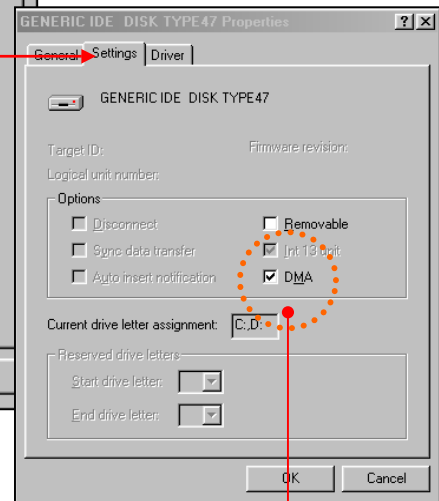
☞ On Desk Top Click mouse Right button on 'My Computer' icon. And choose 'Properties'

2



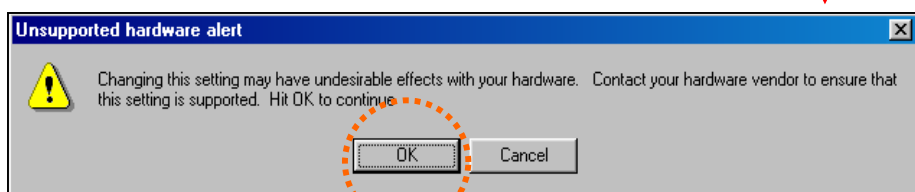
☞ Choose Disk Device Manager.

→ Disk drives → GENERICIDE DISK TYPE 47 → Click mouse right button to choose "Properties"



3

☞ DMA When DMA box check, You can see the dialog box, Then Click 'OK' button.



CLICK!

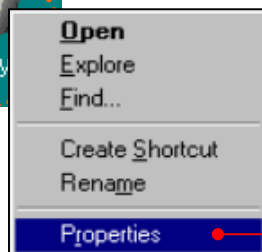
SET RECYCLE BIN PROPERTIES

Even though DVR S/W deletes the oldest data, Windows data still remains in recycle bin. Please make sure to set up Recycle Bin Properties correctly for saving HDD space.

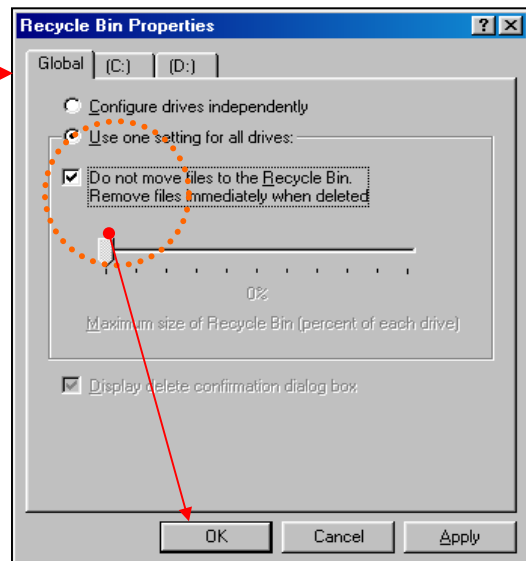
1



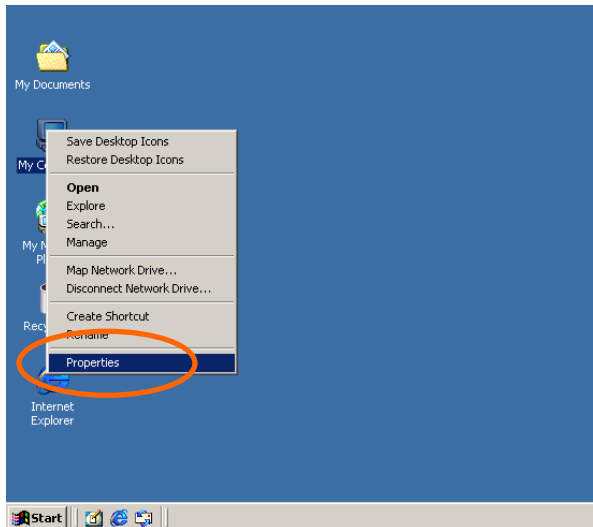
Click mouse right button on Recycle icon. And Click Properties.



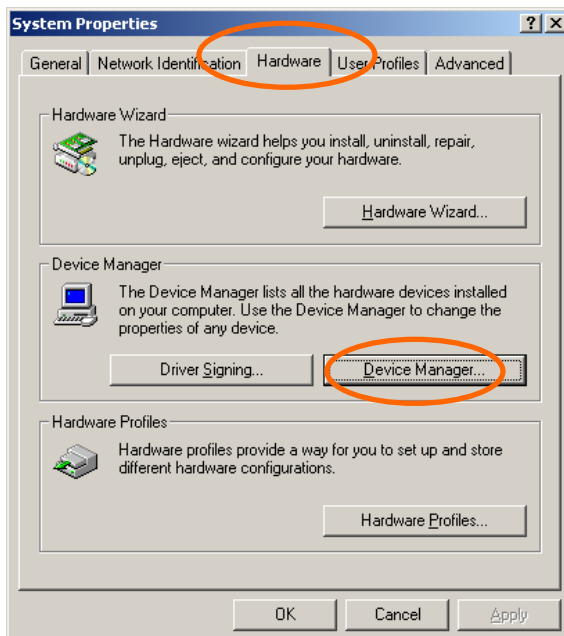
Please click check box as next picture not to remain the deleted data in HDD. And Click 'OK' button to finish



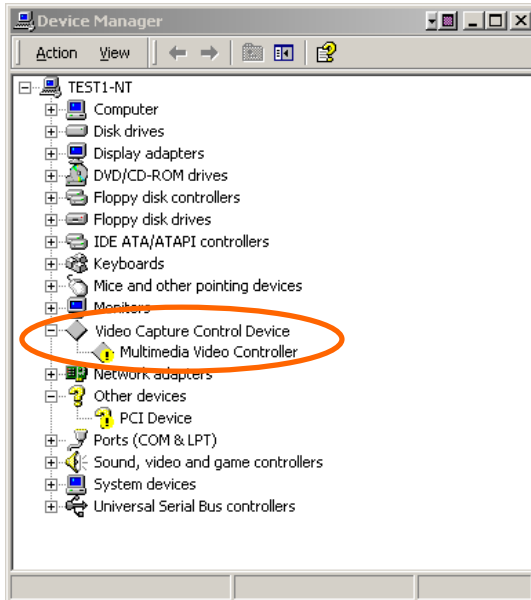
How to set DVR driver



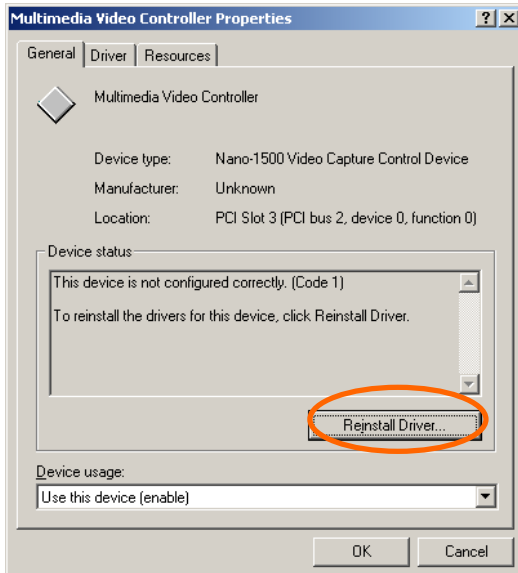
1. Right click once on 'my computer' icon on the desktop.
Click "Properties"



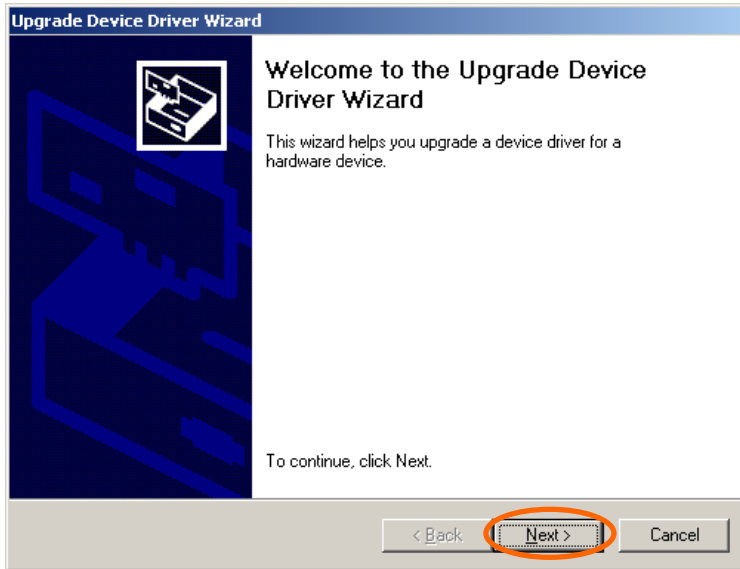
2. Select "Hardware"
->"Device Manager.."



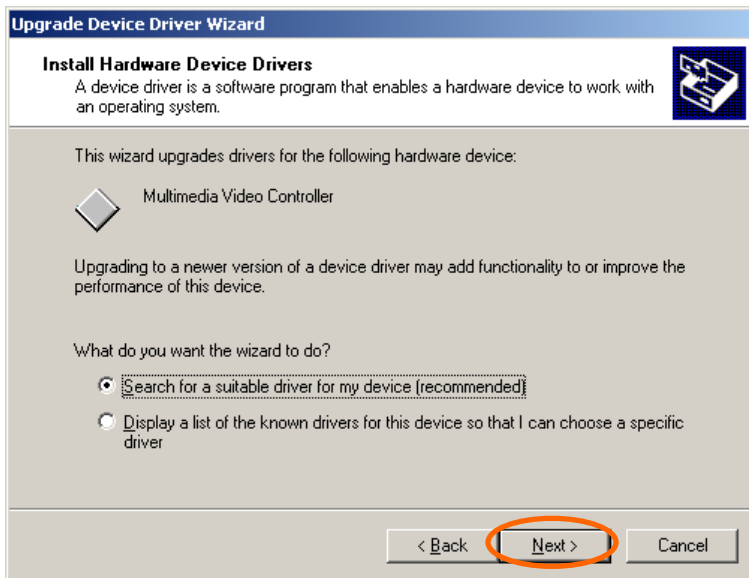
3. Find “Video Capture Control Device”
Right click once on “Multimedia Video Controller”



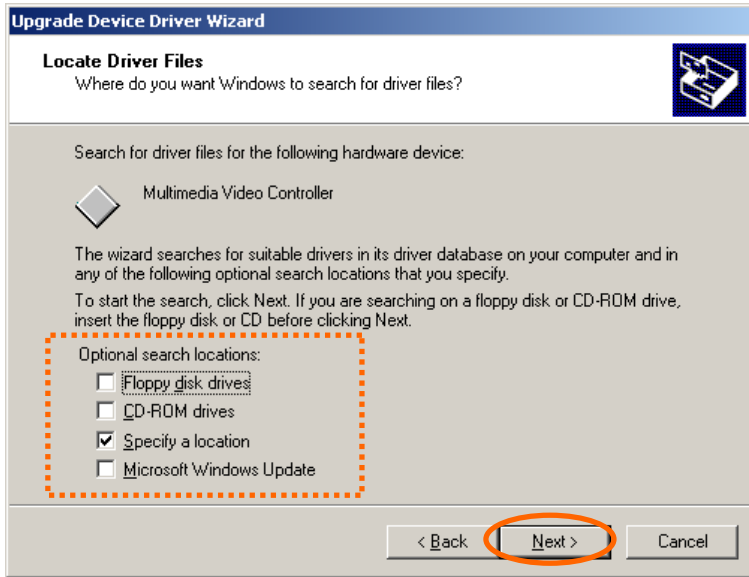
4. Click “Reinstall Driver”



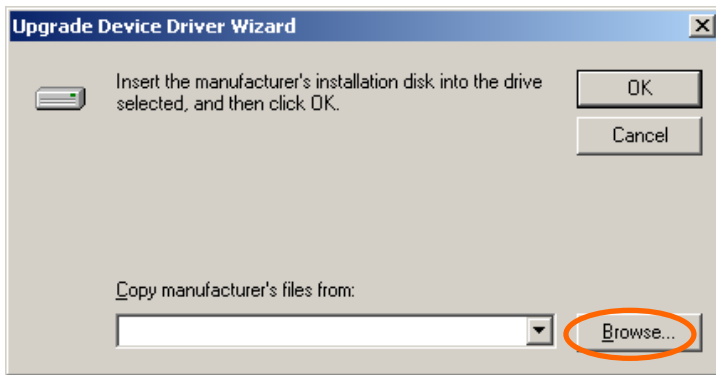
5. Click "Next"



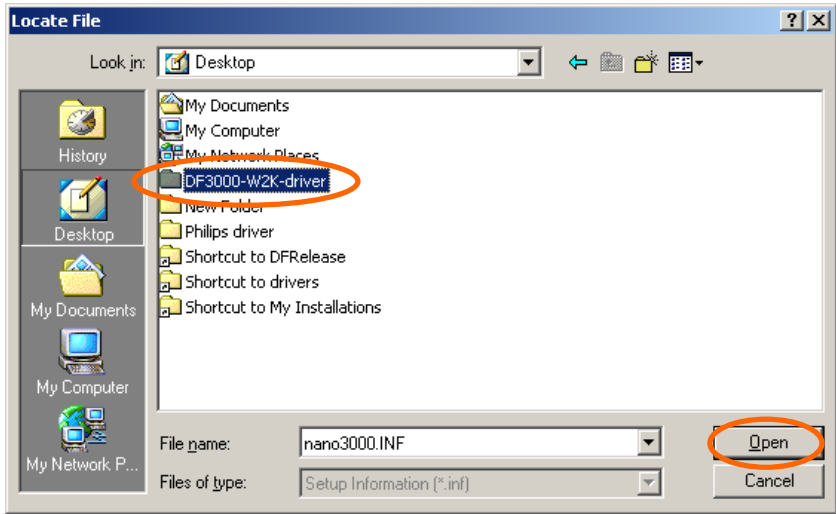
6. Click "Next"



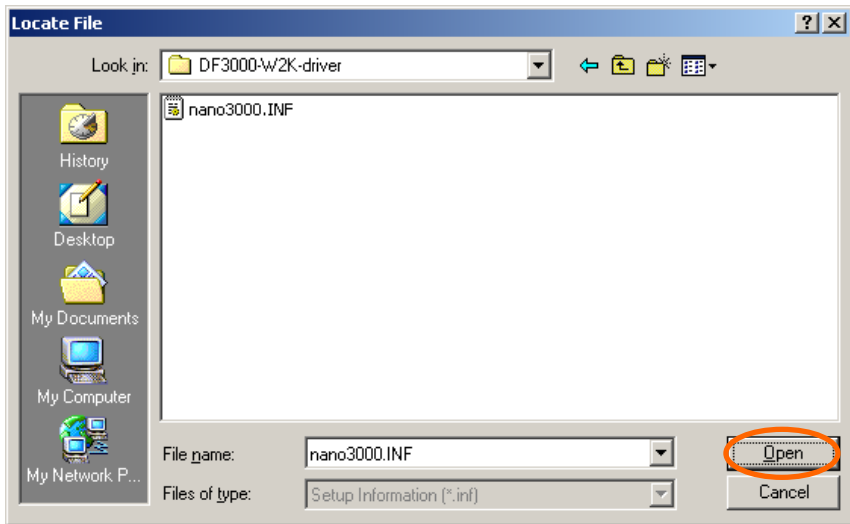
7. Click a check Box for drive
And Click “Next”



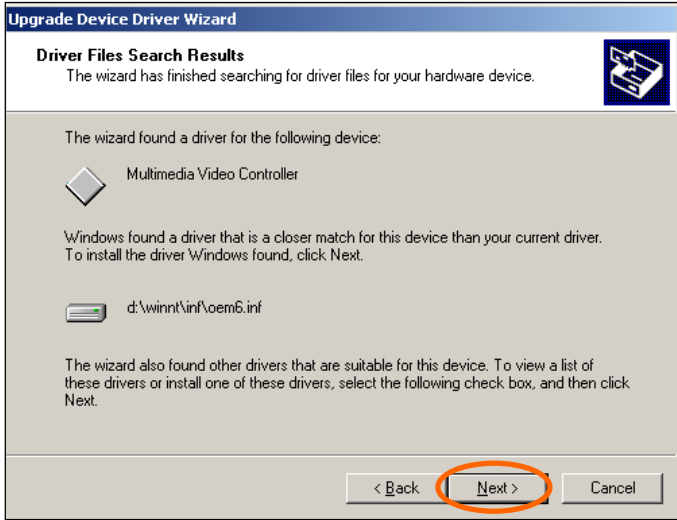
8. Click “Browse..”



9. Click a desired driver



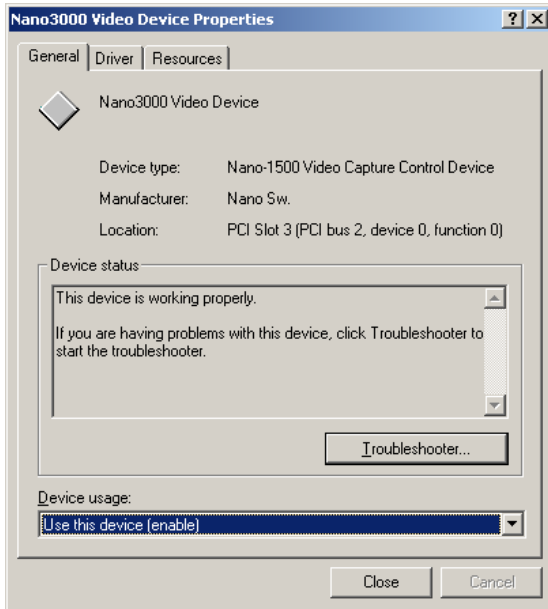
10. Click "Open"



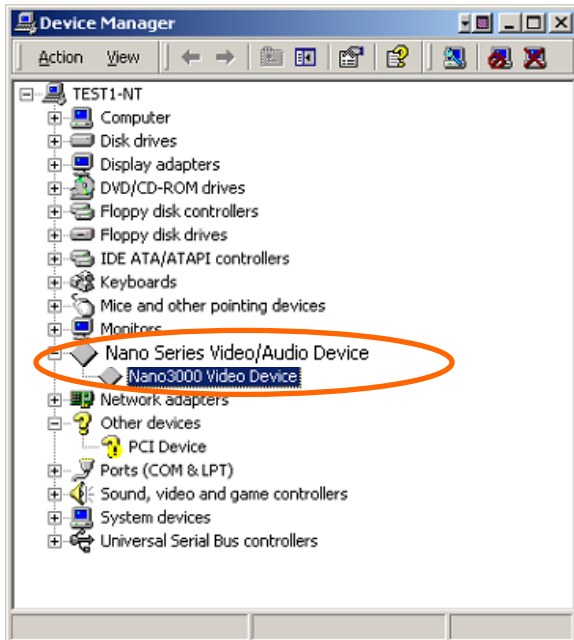
11. Click "Next"



12. Click "Finish"

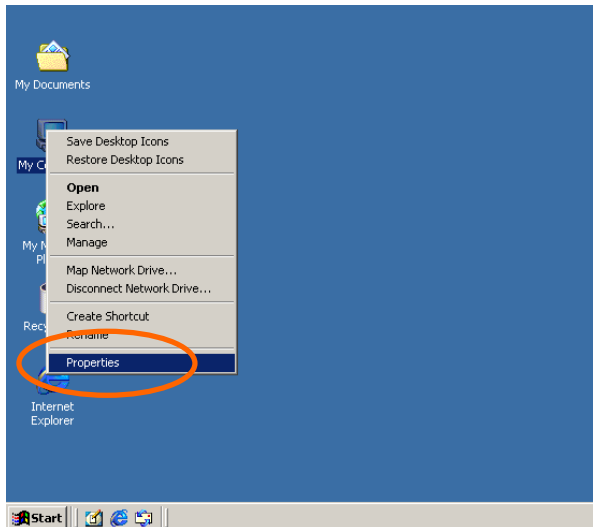


13. Click "Close"

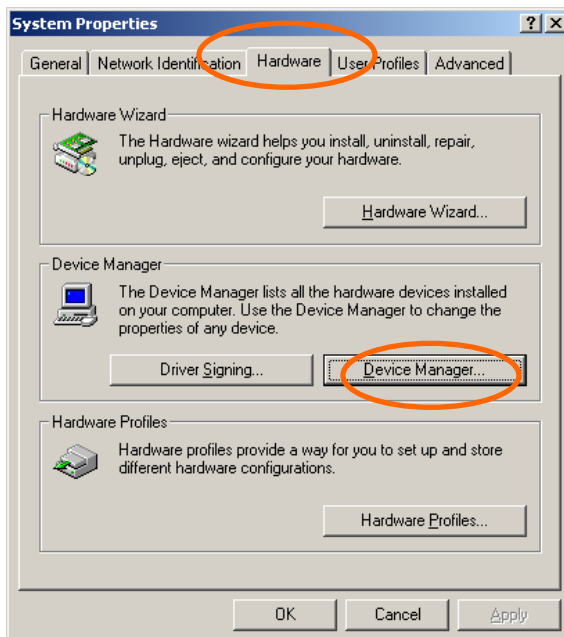


14. Confirm the desired diver.

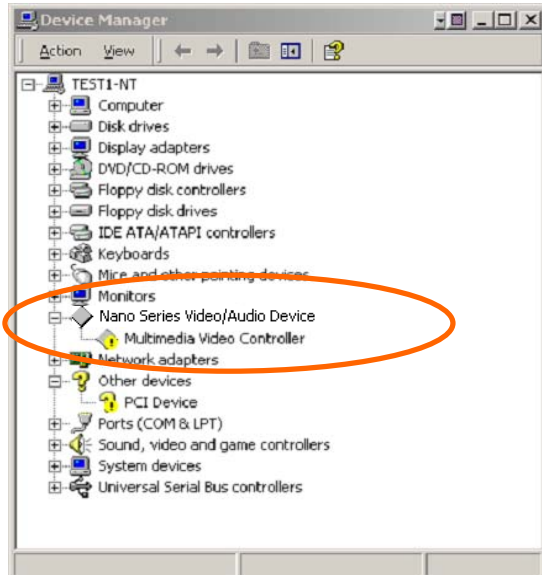
How to change Driver A to B



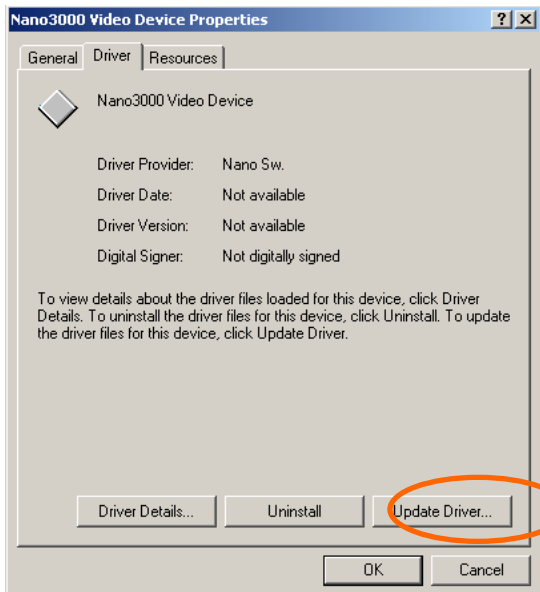
1. Right click once on 'my computer' icon on the desktop.
Click "Properties"



2. Select "Hardware"
->"Device Manager.."



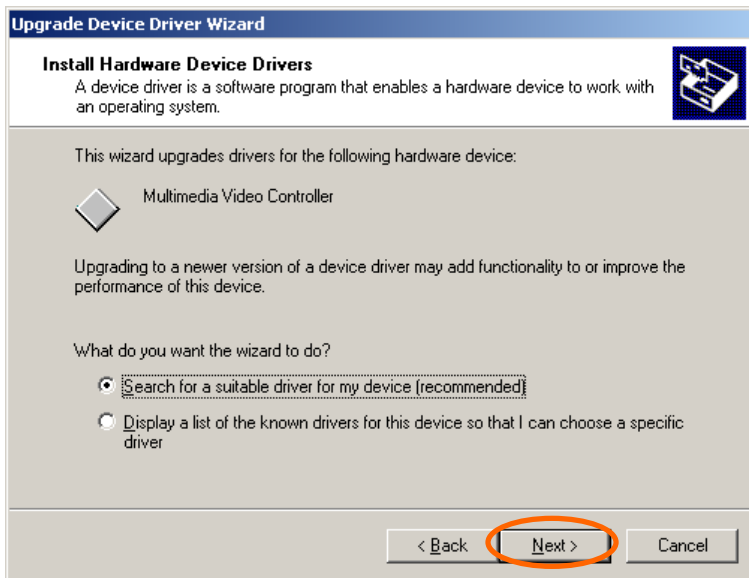
3. Find “Video Capture Control Device”
Right click once on “Multimedia Video Controller”



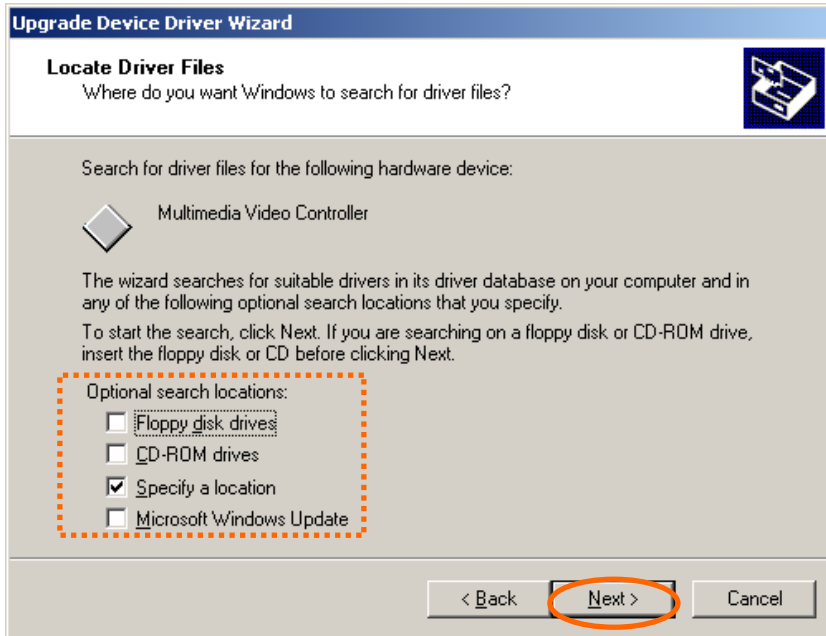
4. Click “Update Driver...”



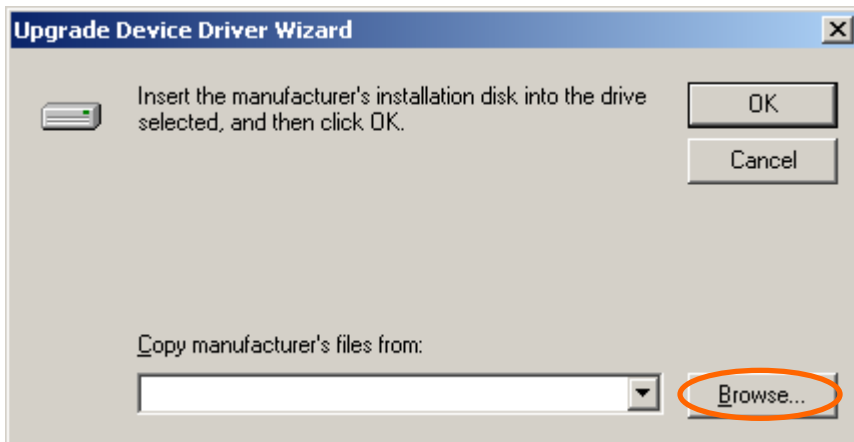
5. Click "Next"



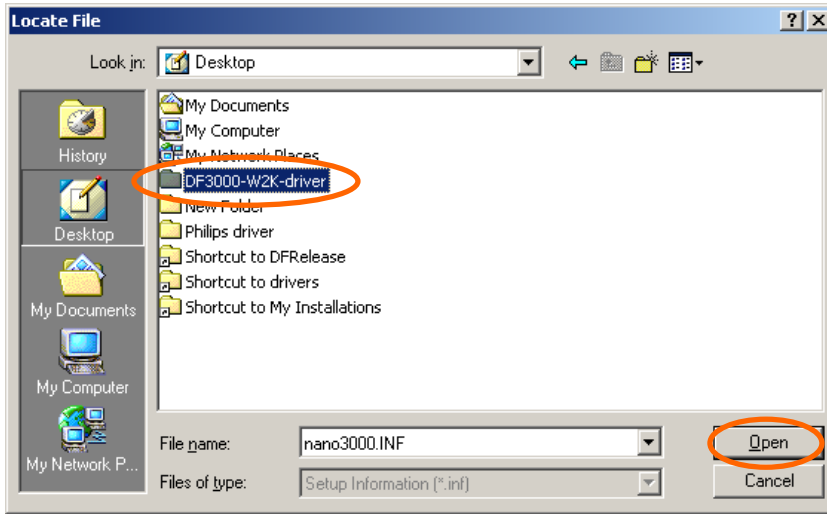
6. Click "Next"



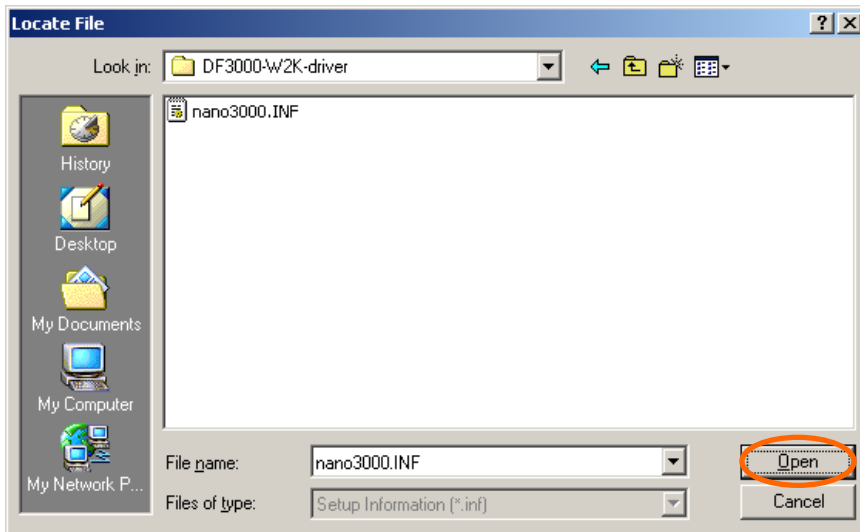
7. Click a Box for drive.



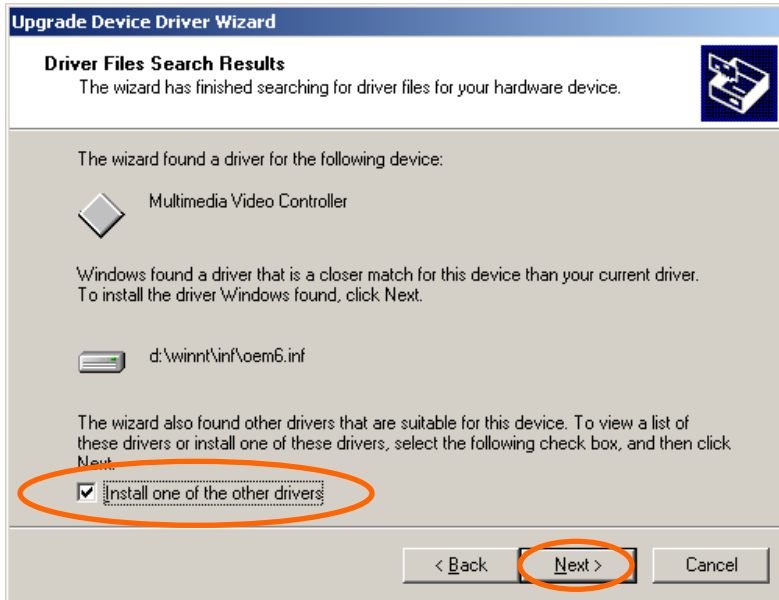
8. Click "Browse.."



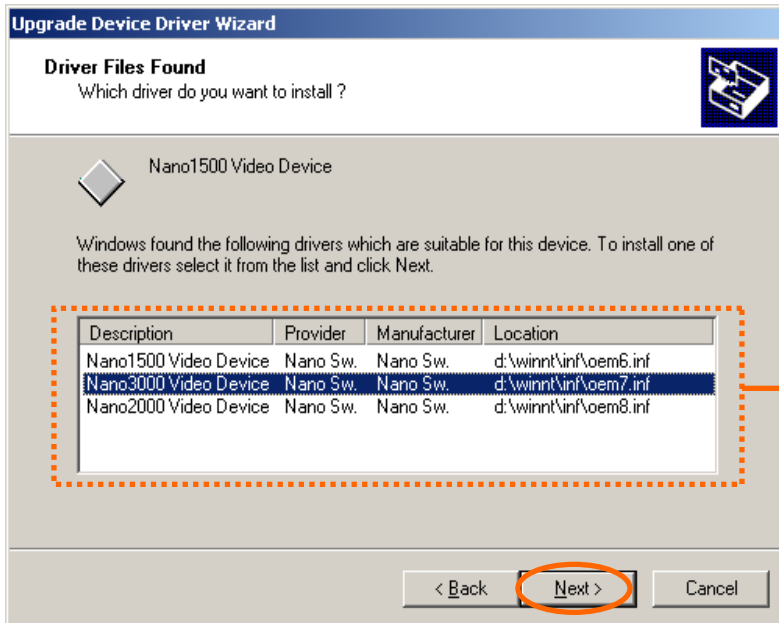
9. Click a desired driver



10. Click "Open"



11. Check “Install one of the other drivers”
And Click “Next”

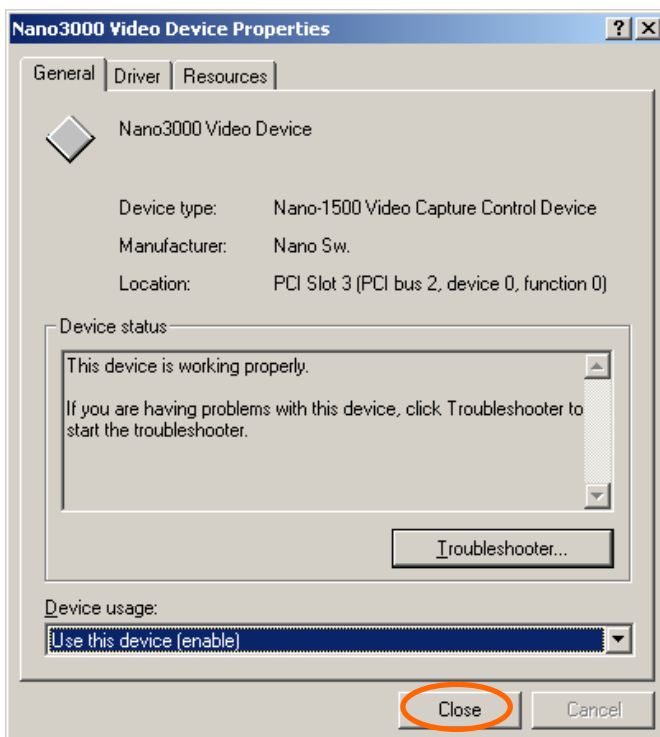


12. Click a desired DVR Driver.
And Click “Next”

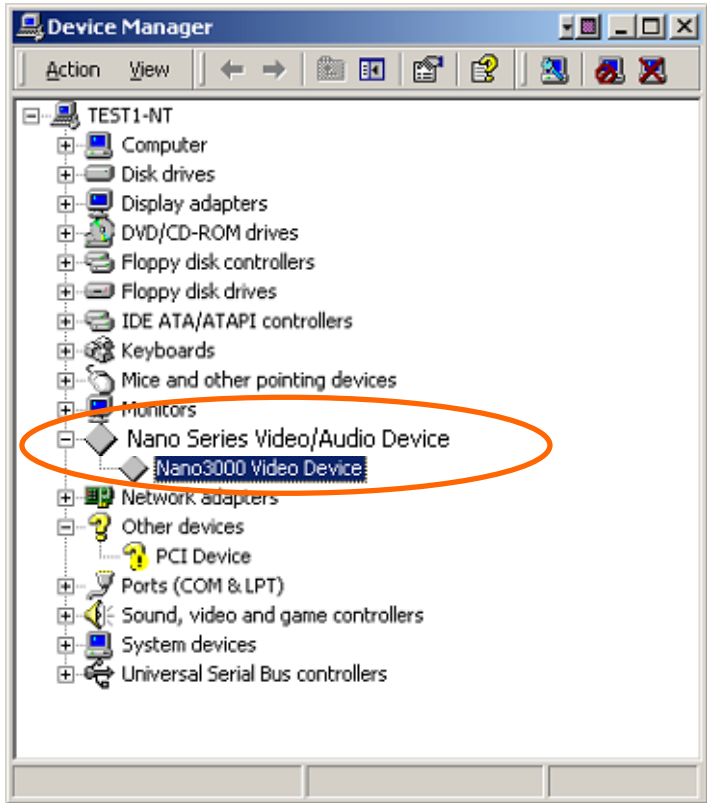
→ This driver list shows including previous installed Drivers



14. Click "Finish"



15. Click "Close"



16. Confirm the desired diver.

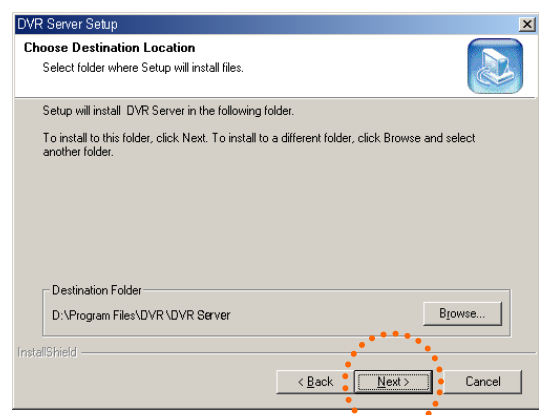
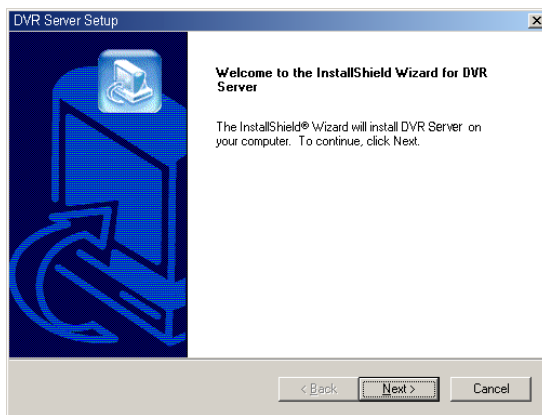
S/W INSTALLATION - 1



Now Windows98 installed in the system completely, and ready to install provided DVR operating S/W. Before installation of DVR operating S/W, you must check all Window options we mentioned and make sure setup is complete.

☞ Check list below for reminders

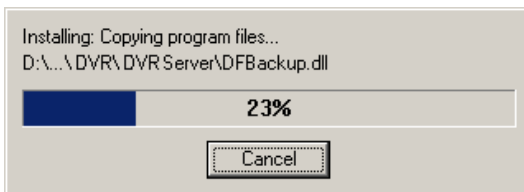
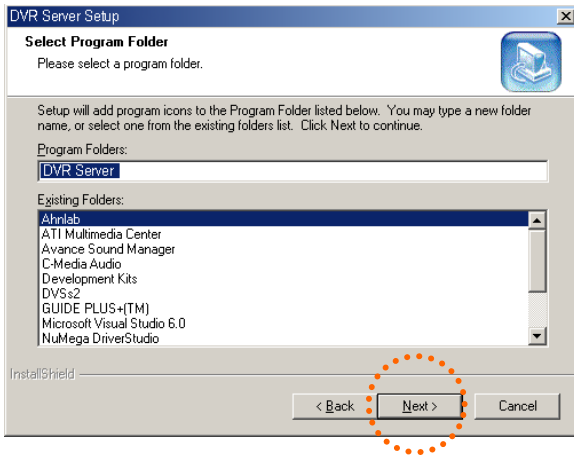
1. Is HDD Partition installed and formatted correctly?
2. Is Windows O/S fully installed?
3. Is adjusted screen resolution correct?
4. Is Power Management Properties set up?
5. Is HDD DMA set up?(For Win98, ME)
6. Is recycling bin properties set up?



1 DVR S/W instillation.
Click 'Next' to start install S/W.

2 Destination Location
Click 'Next'.

SW INSTALLATION - 2

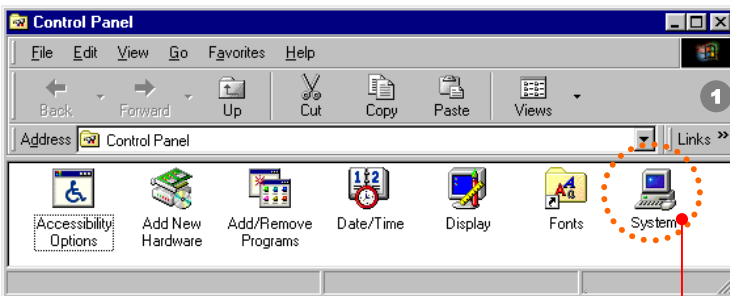


- 3 Select Program Folder
Press "Next" to choose the Folder where you wish to copy S/W.

- 4 Copying program files.
Server S/W installed completely.

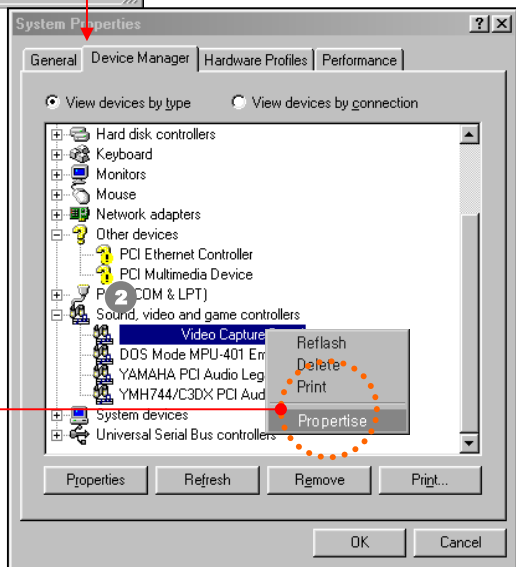
INSTALLATION CONFIRM

☞ After H/W and S/W are installed completely, You can check to see if the video capture and driver of the board is correct. When this board is installed correctly, you can see two of devices under Sound, video and game controller. If installation was not proper, this board must be registered under Other devices

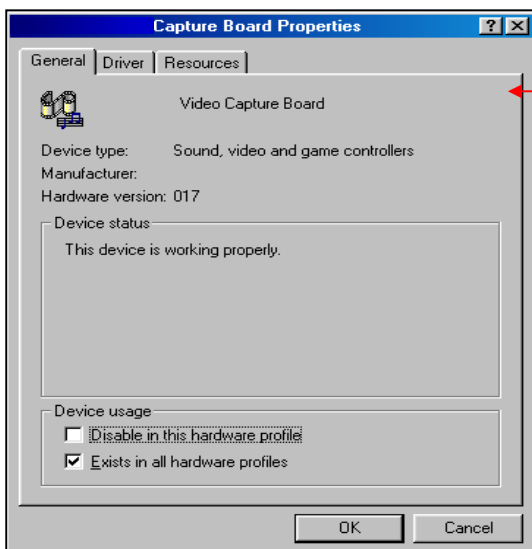


☞ Click 'Start' – 'Setup' – 'Control Panel', Double Click 'System' icon.

☞ Click Device Manager –Sound, Video and game controllers. Click Mouse right button.



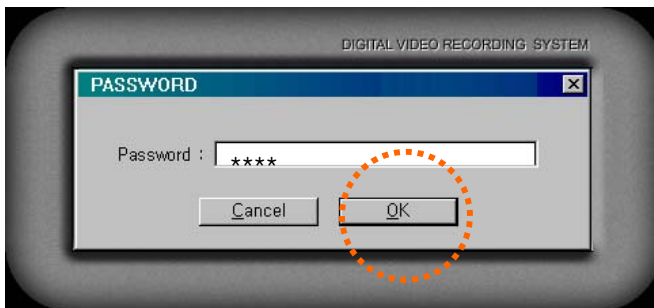
☞ You can check Video Capture Board installed properly.



SERVER S/W OPERATING



- 1 After install DVR Server Program, the Icon will be made as picture. Run the DVR Server S/W by double click the icon Server.



- 2 For the first time, a password has not been set up in the DVR system. So first time you run the system this picture is shown.

If you want to set password to protect other people access the system, go to SETUP / STANDARD / CHANGING PASSWORD and insert new password.



CAUTION

You must remember the Password to enter next time.

When you forget the correct password, You have to Uninstall the S/W and reinstall it again.