eDVR Installation Guide

MD3200M

(v 1.0)

Download from Www.Somanuals.com. All Manuals Search And Download.

Caution

Since this device is operation purpose and registered as suitable electromagnetic waves, seller or user should be cautios on this point. If the device is sold or purchased wrongly, it is required to replace as Home use.

FCC Compliance Statement

Caution : Any changes or modifications in construction of this device which are not expressly approved the party responsible for compliance could void the user's authority to operate the equipment.

NOTE : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications, Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures

Warning

1. In case of changing built-in lithum battery, it should be replaced as same or kindred one to prevent a danger of explosion. Since old batteries could be a factor of environment contamination, be cautios to treat them.
2. Do not throw the batteries to fire or heating. Neither short circuiut or disassembly is prohibited.
3. Do not charge the batteries provided with Remote Controller

Download from Www.Somanuals.com. All Manuals Search And Download.

Important Notice

1. Do not place heavy objects on the top of the eDVR

2. eDVR is for indoor use. It is not weatherproof. Use eDVR with referring to its environmental specifications (Temperature & Humidity). To clean the eDVR, gently wipe the outside with a clean dry cloth.

3. eDVR use AC power of 110V~240V. Be cautions not to cause electric damages to eDVR.

4. Becareful not to drop the eDVR. Physical shocks may harm the products including internal HDD. In addition, be sure the eDVR is secured after installation.

5. eDVR is made of metal. Therefore you can hurt human beings if you throw it to them or hit on them. When eDVR is installed, be cautious to locate on safe places where children are unreachable.

6. If eDVR does not operate properly, please contact the closest WEBGATE distributor for after sales service. Tempering or disassembling the product will void warranty.

7. Security surveillance laws may differ for each country. Therefore, please contact the local region first to avoid any surveillance law violations.

The contents of this manual can be modified in accordance with Firmware or Software upgrade. In the interest of continually improving products, approval & outlook can be modified without prior notice

Download from Www.Somanuals.com. All Manuals Search And Download.

Contents

OVERVIEW **7**

1. What is MD3200M? 7

2. Supplied accessories 8

3. Description & Function 9

INSTALLATION AND CONNECTION **11**

4. Connecting & Running 11

4.1. Connecting camera 11

4.2. Connecting monitor 11

4.3. Connecting Audio 12

4.4. Supplying power 13

5. Running OSD menu 14

5.1. Using menu 14

5.2. Dialogue box to edit a word 15

6. Setting remote controller 16

6.1. Setting ID of MD3200M 16

6.2. Selecting MD3200M 17

6.3. Operable range of remote controller 17

6.4. Loading the batteries into remote controller 17

7. MD3200M configuration 18

7.1. Basic configuration 18

7.2. Advanced configuration 18

7.3. External storage & Back up configuration 19

7.4. Internet/ Intranet configuration 19

8. eDVR MD3200M basic setting 20

8.1. Viewing Image 20

8.2. Setting Date & Time 21

8.2.1. Time Zone 21

8.2.2. Daylight Saving 21

8.2.3. Sync with NTP 21

8.2.4. Time Format 22

8.2.5. Date 22

8.2.6. Time 22

Download from Www.Somanuals.com. All Manuals Search And Download.

8.2.7. Apply Date/Time 22
8.3. Setting recording condition 23
8.3.1. Configuration Status 23
8.3.2. Recording Speed/Quality 24
8.3.3. Speed(ips) 24
8.3.4. Quality 24
8.3.5. Audio Recording 24
8.3.6. Alarm Recording 24
8.3.7. Apply 24
9. Connecting and configuring DIO ports 25
9.1. Connecting and configuring sensor 25
9.1.1. Specification 25
9.1.2. Connecting sensor input 26
9.1.3. Configuring sensor at OSD menu 27
9.2. Connecting & configuring relay out 28
9.2.1. Specifications 28
9.2.2. Connecting relay out 29
9.2.3. Configuring relay out as OSD menu. 30
9.3. Connecting serial port 31
9.3.1. Configuring serial ports for Pan/Tilt/Zoom 31
9.3.2. Diagram of serial ports 32
9.3.3. Configuring Serial 33
9.4. Connecting external device with serial port 34
9.4.1. Connecting text inout device (ATM / POS / Access Control) 34
9.4.2. Configuring serial setup (COM1) at OSD menu 35
9.4.3. Configuring text 36
9.5. Connecting USB device 37
9.6. Connecting video in/output ..... **Error! Bookmark not defined.**
10. Connecting External Storage 38
10.1. IEEE1394 port 38
10.2. Connecting IEEE1394 Device 38
10.3. Available HDD 39
10.4. Registering & Formating HDD 39
11. Network monitoring & managing 40
11.1. Connecting Ethernet 40
11.2. Configuring Network infomraiton of MD3200M 41

Download from Www.Somanuals.com. All Manuals Search And Download.

12. Using Control Center Lite 42
12.1. Starting 42
12.1.1. PC system requirements for running Control Center Lite 42
12.2. Installing Control Center Lite 42
12.3. Log-In 43
12.4. Configuration Tool 44
12.5. Monitor 44
12.6. Playback 45

APPENDIX 46

#1. HDD 47
#1.1. Fundamental notions & terms 47
#1.2. Installing HDD 50
#2. Using CD-ROM 58
#3. How to recognize manufacturing date 59
#4. Specification 60

Download from Www.Somanuals.com. All Manuals Search And Download.

OVERVIEW

1. What is MD3200M?

The eDVR MD3200M is a 16-analog channels network digital video recorder. Video, Audio, Text and Event-Logs are digitized and stored on two internal Hard-Drives

□ 32 analog video channels

□ 4 channel two-way audio recording & playback

□ Max. 480ips[1] at 4CIF recording

□ Real-time (60fps[2] for each channel) monitoring

□ Built-in software multiplexer for all live monitoring channels (1/4/9/16/ch Mode on CCTV Monitor)

□ Maximum 8TB storage capacity (IEEE 1394 for external HDD)

□ ATM/POS transaction information text recording and search with corresponding video

□ 16 sensor inputs and 4 relay outputs

□ Built-in hardware motion detection with search function (22x18 or 22x15)

□ Various efficient back-up methods (

□ PTZ control via RS 232 and RS485

□ User friendly Color Graphic OSD

□ Static IP (DHCP, Dynamic IP) support for xDSL, Cable-Modem user

□ IR Remote Controller (User controls PTZ with remote controller)

□ Remote Management Software (Control Center Lite-D)

□ Dual CCTV Monitor (1 Normal, 1 Spot) support

□ Improvement in Video quality (Clearer Image, Night Noise filtering) function

□ Digital Water Mark function

<Note>

Extension through NVS04, IEEE 1394b will be supported later.

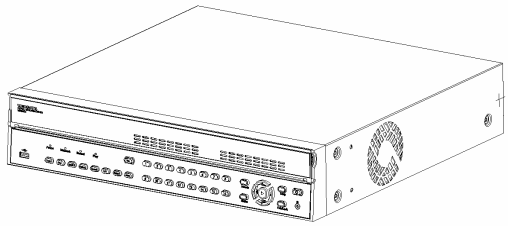
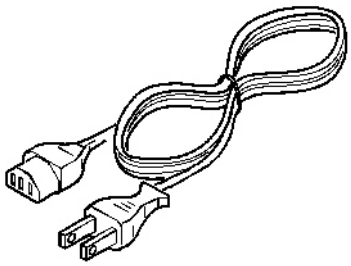
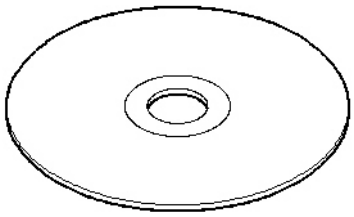
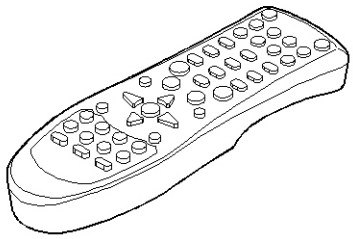
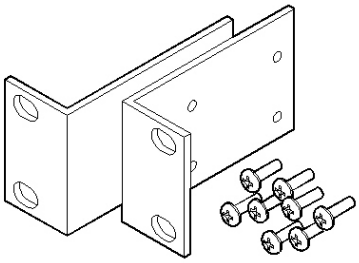
For the details, please contact to local distributor.

[1] ips = image per second
[2] fps = field per second

Download from Www.Somanuals.com. All Manuals Search And Download.

2. Supplied accessories

Unpack and check all the items as below;

1. eDVR MD3200M (1EA) 	2. AC Power Cord (1EA) 
3. CD (Including Software) (1EA) 	4. Remote Controller (1EA) 
5. RACK FIXING KIT (1SET) 	6. R-HDD screw (8EA)

<Note>

Attention for the system without HDD installed

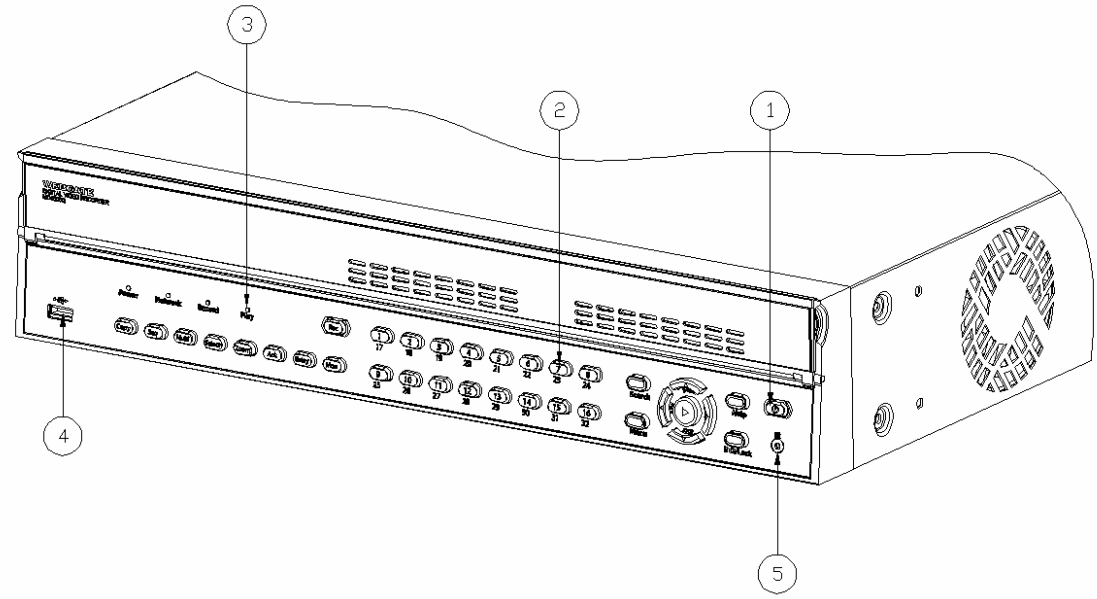
In case of system without HDD, HDD only can only be installed in R-HDD(Removable Hard disk rack).

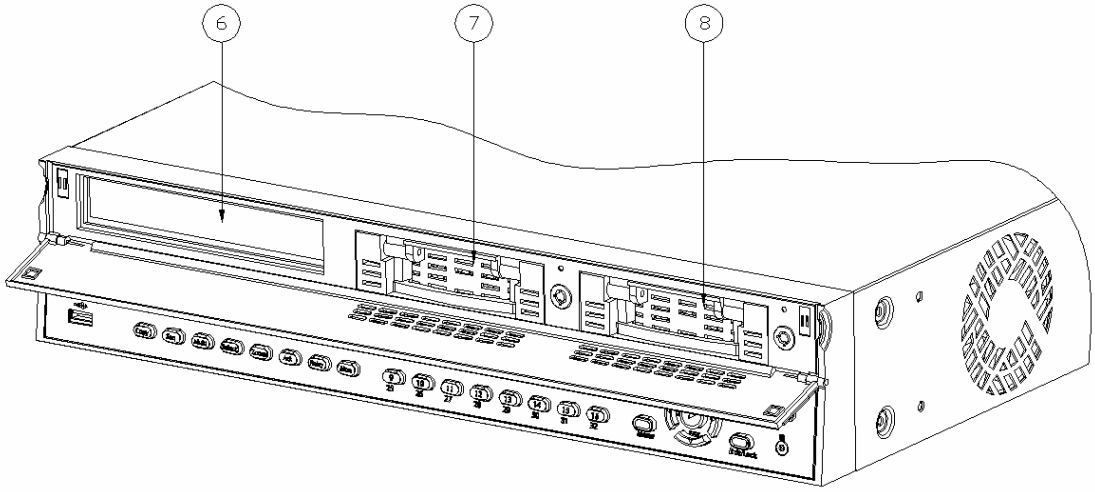
For the internal installation of HDD additionally, For the details, please contact to local distributor.

Download from Www.Somanuals.com. All Manuals Search And Download.

3. Description & Function

MD3200M front





(1) Power switch

(2) Function buttons

(3) LED

(4) USB port

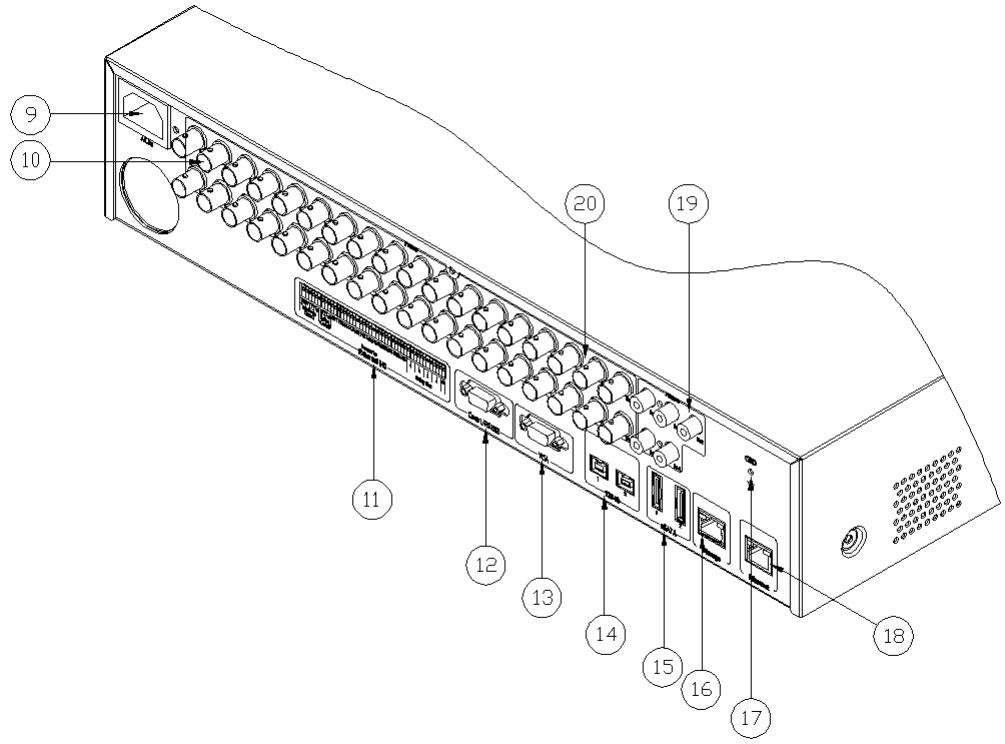
(5) Remote controller receiver

(6) CD/DVD-RW ROM

(7),(8) Built-in Hard Disk Rack

Download from Www.Somanuals.com. All Manuals Search And Download.

MD3200M rear



(9) AC power connector

(10) BNC connector for video input

(11) Terminal block for sensor, relay, and serial input/output

(12) RS232 connector

(13) VGA connector

(14) IEEE1394 connector

(15) eSATA connector

(16) Network Storage connector(RJ45)

(17) GND

(18) Ethernet connector

(19) Audio input/ output connector

(20) BNC connector for monitor output

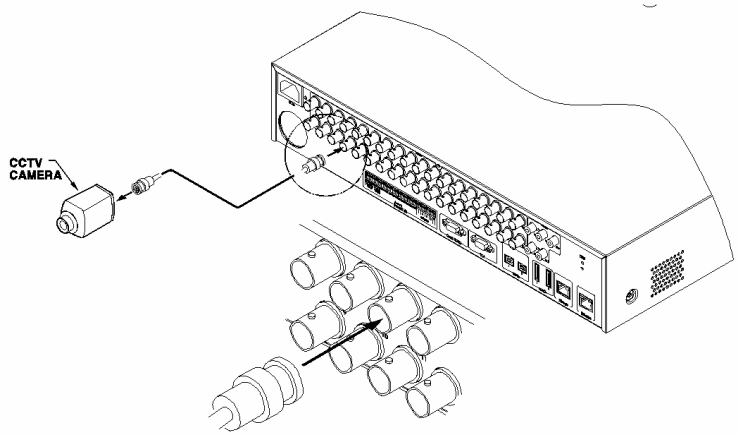
Download from Www.Somanuals.com. All Manuals Search And Download.

INSTALLATION AND CONNECTION

4. Connecting & Running

4.1. Connecting camera

(1) Connect CCTV camera to MD3200M with BNC cable as below.



<Note>

1. The video type for all channels should be either NTSC or PAL, not be combined both.
2. MD3200M sets video signal's impedance (75Ω) automatically.
   75-Ohm termination register is always connected on video input, and can't be removed. So MD3200M's video input must be a terminal of the connection.
3. Video Type(NTSC/PAL) should be changed after opeting MD3200M. The order of camera recognition follows Ch1 camera through Ch32 camera and 1st recognized camera type leads other camera type.

4.2. Connecting monitor

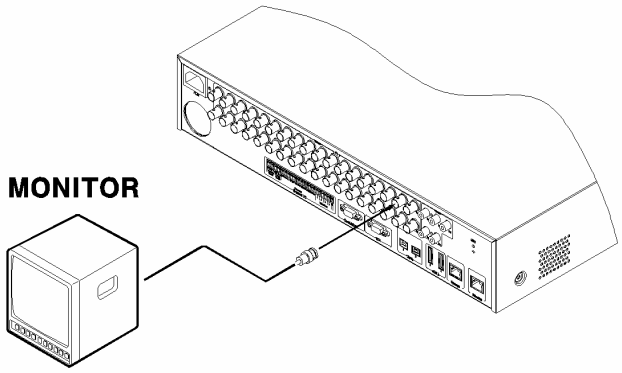
(1) Connect CCTV monitor to MD3200M with BNC cable as shown below;

Download from Www.Somanuals.com. All Manuals Search And Download.

<Note>

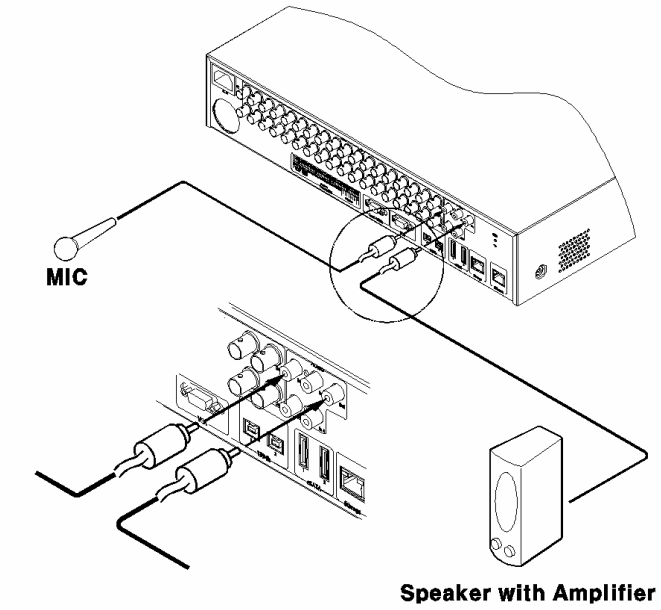
Monitor out put of MD3200M is separated as A(Normal) and B(Spot). Connect to Monitor A if only one Monitor is used .

Monitor output is fixed depend on channel. Video Out 1, 3 is output channel 1 to 16, and Video 2, 4 is output channel 17~32.



4.3. Connecting Audio

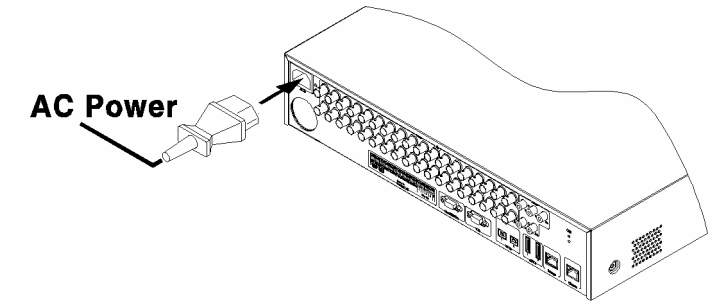
(1) Connect auto signal to MD3200M with using RCA cable.



Download from Www.Somanuals.com. All Manuals Search And Download.

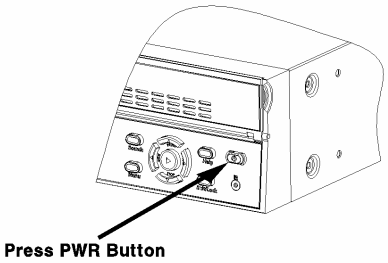
4.4. Supplying power

(1) Connect power cable as shown below



<Note>

1. When supplying power, MD3200M starts booting automatically.
2. In order to cut off power, press the power switch on MD3200M front during 4 seconds and enter admin password after appearing a pop window.
3. For supplying again, push the power switch.

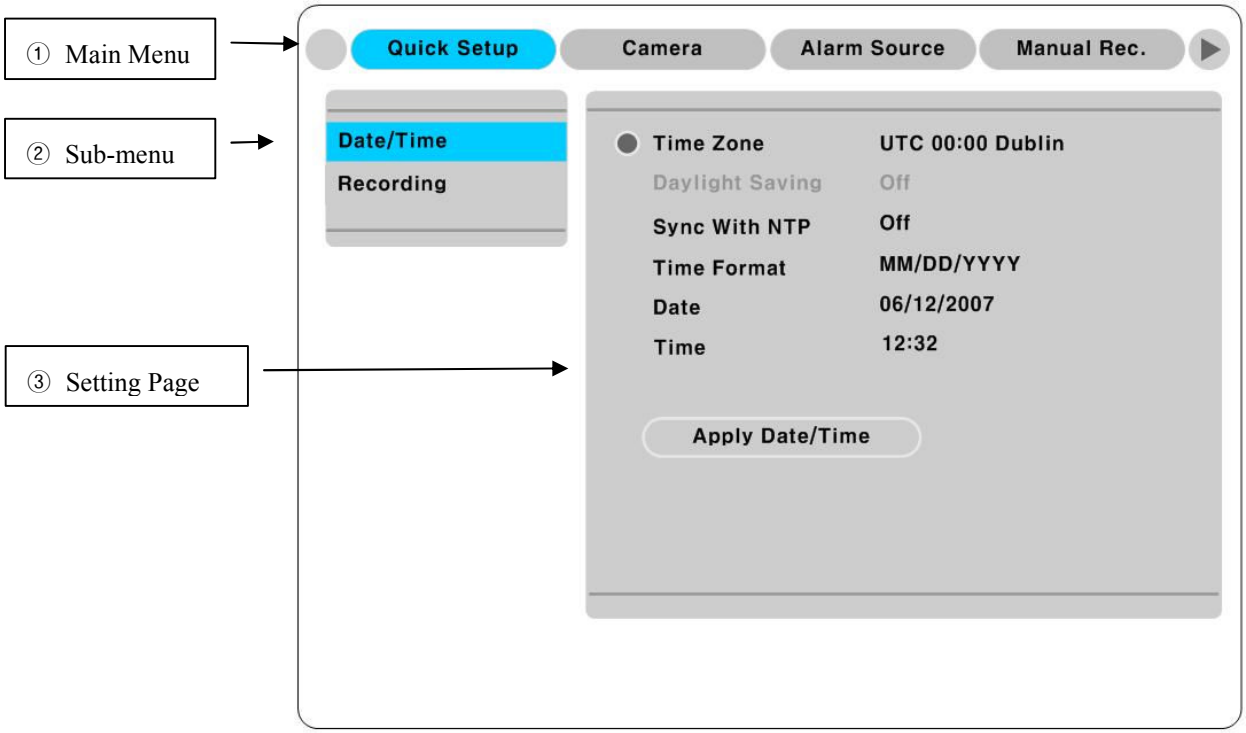


Download from Www.Somanuals.com. All Manuals Search And Download.

5. Running OSD menu

5.1. Using menu

Press the [MENU] in keypad of front to open the OSD Configuration Menu



(1) Main Menu : The selected tab is shown in blue and the related sub-menu will be shown below the tab. To movo to the previous/next Main Menu tab, use the [◀/▶] arrow buttons. To move to a sub-menu, press the [▷]/[▼] arrow buttons.

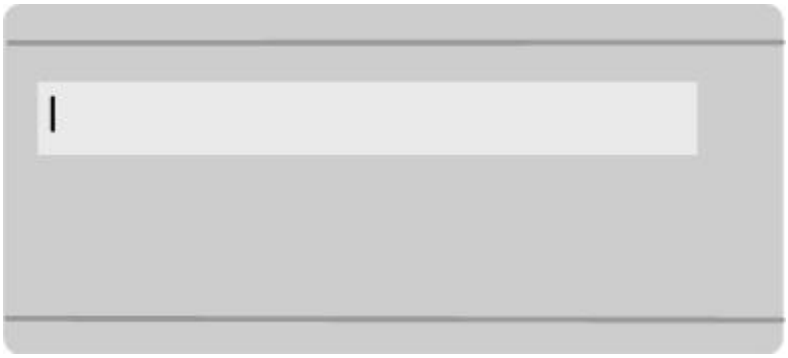
(2) Sub-menu : The selected sub-menu is shown in blue and the relaed setting will be shown the right of the sub-menu. Use the [▲/▼] arrow buttons to move within the sub-menu list. To move to the setting page, press [▷] button. To exit the setting page, press the [EXIT] button.

(3) Setting Page : The selected sub-menu is shown as a circle on the left side of the name and gray color for setting value. To move within each page, use the [◀/▶] or [▲/▼] arrow butons. Press the [▷] button to change the value of a setting. When setting value is a word, a dialogue box to edit the word will open. When setting value is a number, it should be set with using [◀/▶] or [▲/▼] arrow buttons. After the value is set, press the [EXIT] button. To exit the Setting page, press the [EXIT] button.

Download from Www.Somanuals.com. All Manuals Search And Download.

5.2. Dialogue box to edit a word

There are two methods to input a word..



(1) Entering words

Move pressing [▶] arrow button to enter next word until the word is looking for is shown using [▲/▼] arrow buttons. In case of spacing words, press [▶] to move one space and enter the word. To exit the Dialogue box, press the [▷] arrow button.

(2) Available words range to use

1 2 3 4 5 6 7 8 9 0

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

a b c d e f g h i j k l m n o p q r s t u v w x y z

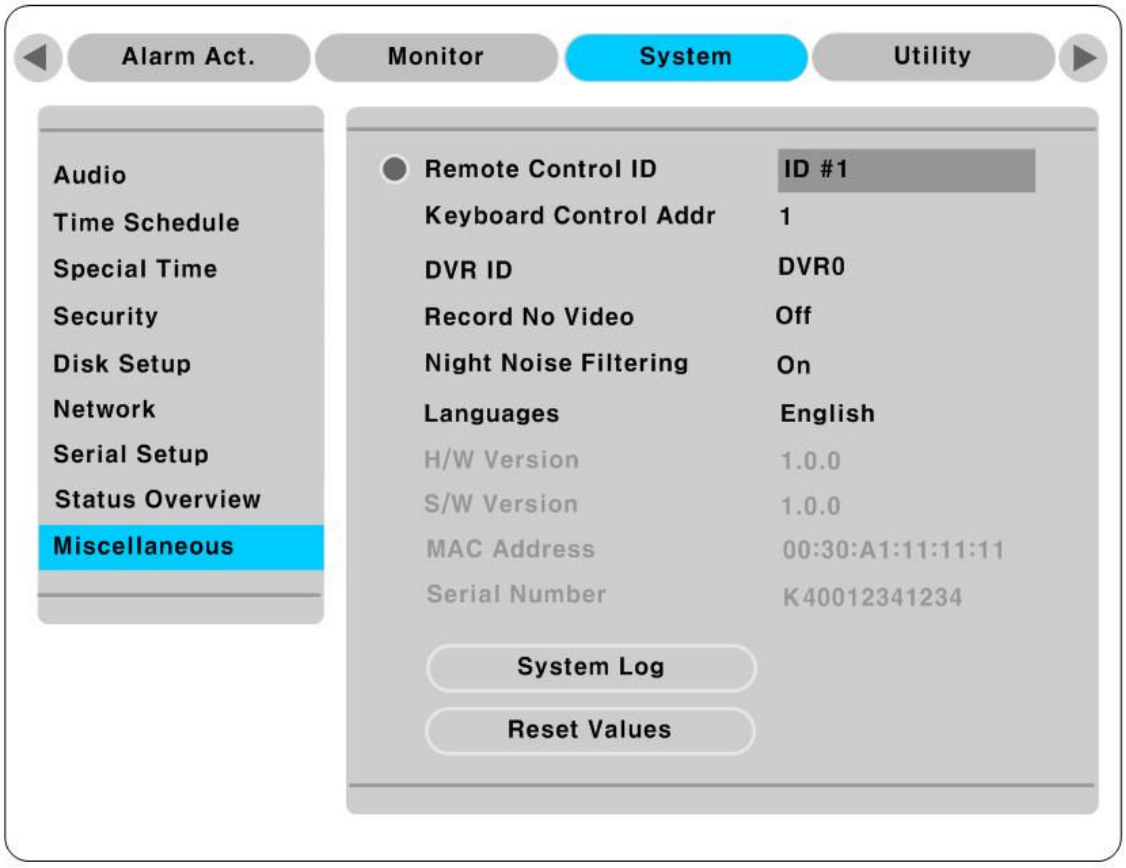
( ) - . $ # @

Download from Www.Somanuals.com. All Manuals Search And Download.

6. Setting remote controller

When controlling several eDVRs with one remote controller, set Remote Contorl ID as follows.

6.1. Setting ID of MD3200M



(1) Press the [MENU] button

(2) Select “System” with using [▶] button and press the [▷] or [▼] button

(3) Select “Miscelleaneous” from the sub-menu list using the button[▼] and press [▷] button.

(4) Select “Remote Control ID” and press the [▷].

(5) Select a value using the [◀/▶] buttons and press the [EXIT] button.

(6) Press the [EXIT] button to exit the Settings Page and return to Monitor mode.

<Note> Remote Control ID

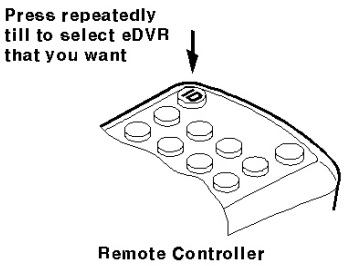
Up to 16 eDVRs can be controlled with a single remote controller.

When not using remote controller, set the Remote Control ID as “Off”.

Download from Www.Somanuals.com. All Manuals Search And Download.

6.2. Selecting MD3200M

If several eDVRs are set with unique ID numbers, they can be controlled with one remote controller. To select a specific eDVR (MD3200M), Keep pressing the ID button of remote controller until a buzzer sounds during 2 seconds.

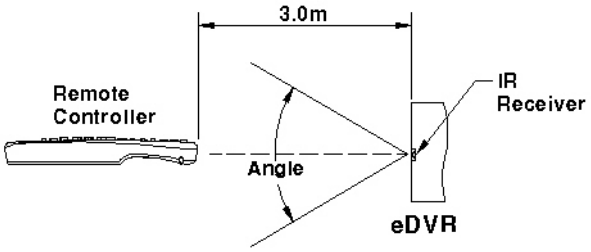


Unselected	PWR NET REC PLAY
Selected	PWR NET REC PLAY LED Blink One Time

<Note>

Because remote controller ID is sixteen, eDVR will correspond until pressing ID button sixteen times.

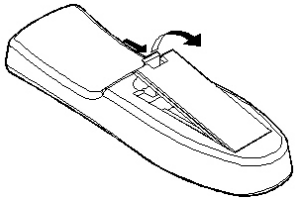
6.3. Operable range of remote controller



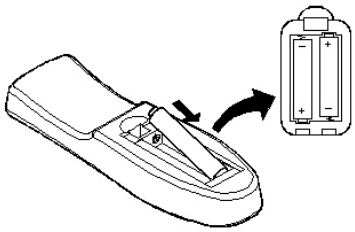
Horizontal Angle : ± 45°
Vertical Angle : ± 60°

6.4. Loading the batteries into remote controller

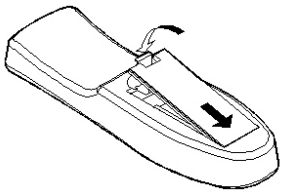
Remote Controller requires two AAA-type batteries



1. Remove the battery cover



2. Taking care that the poles(+/-) Are correctly positioned.



3. Replace the battery cover

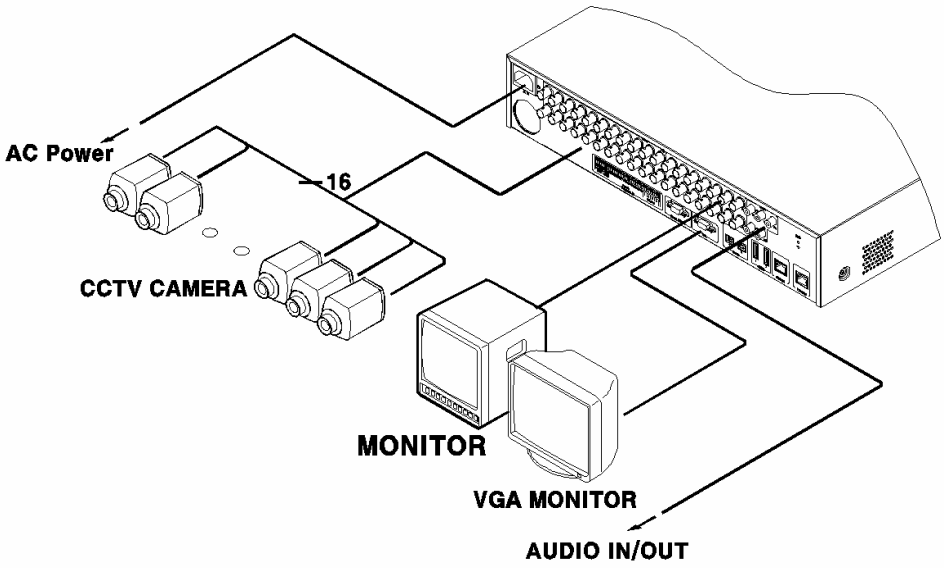
<Note>

Batteries are not included as a packing accessory

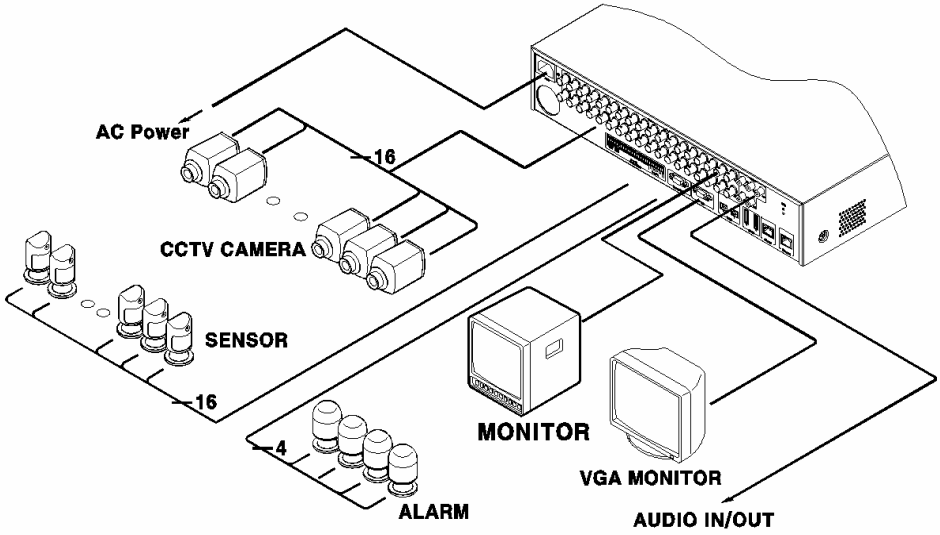
Download from Www.Somanuals.com. All Manuals Search And Download.

7. MD3200M configuration

7.1. Basic configuration

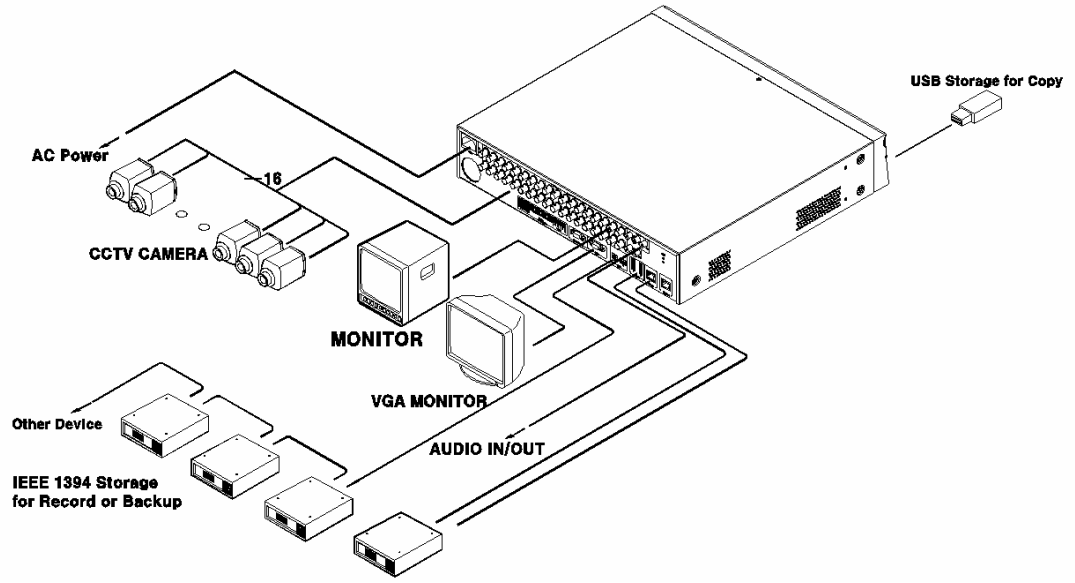


7.2. Advanced configuration

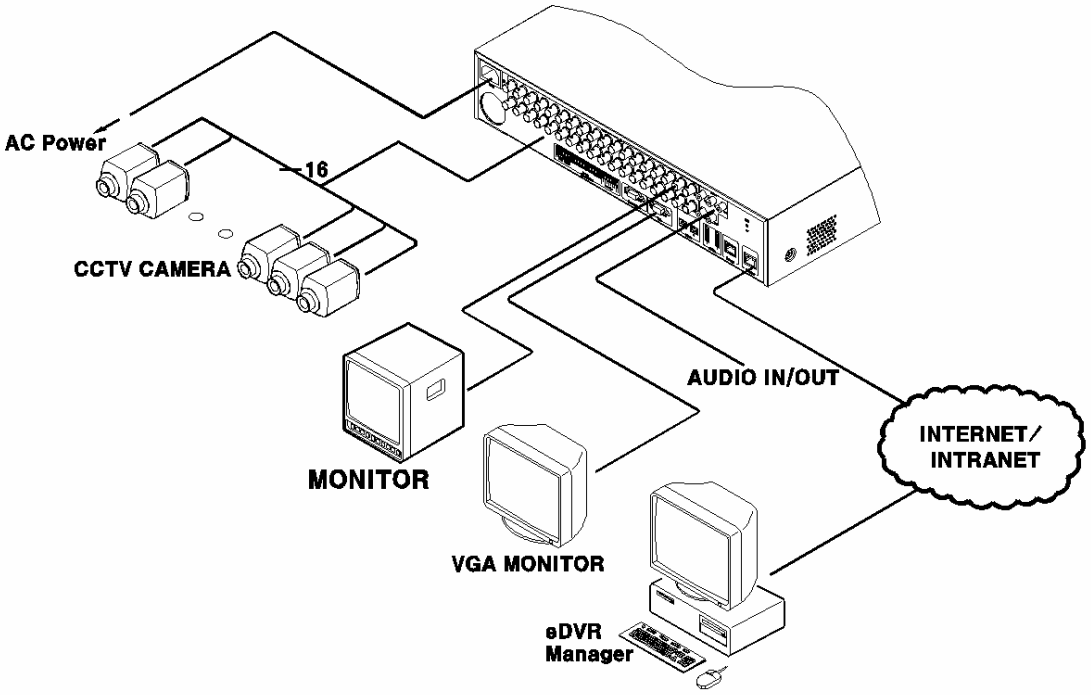


Download from Www.Somanuals.com. All Manuals Search And Download.

7.3. External storage & Back up configuration



7.4. Internet/ Intranet configuration



Download from Www.Somanuals.com. All Manuals Search And Download.

8. eDVR MD3200M basic setting

8.1. Viewing Image

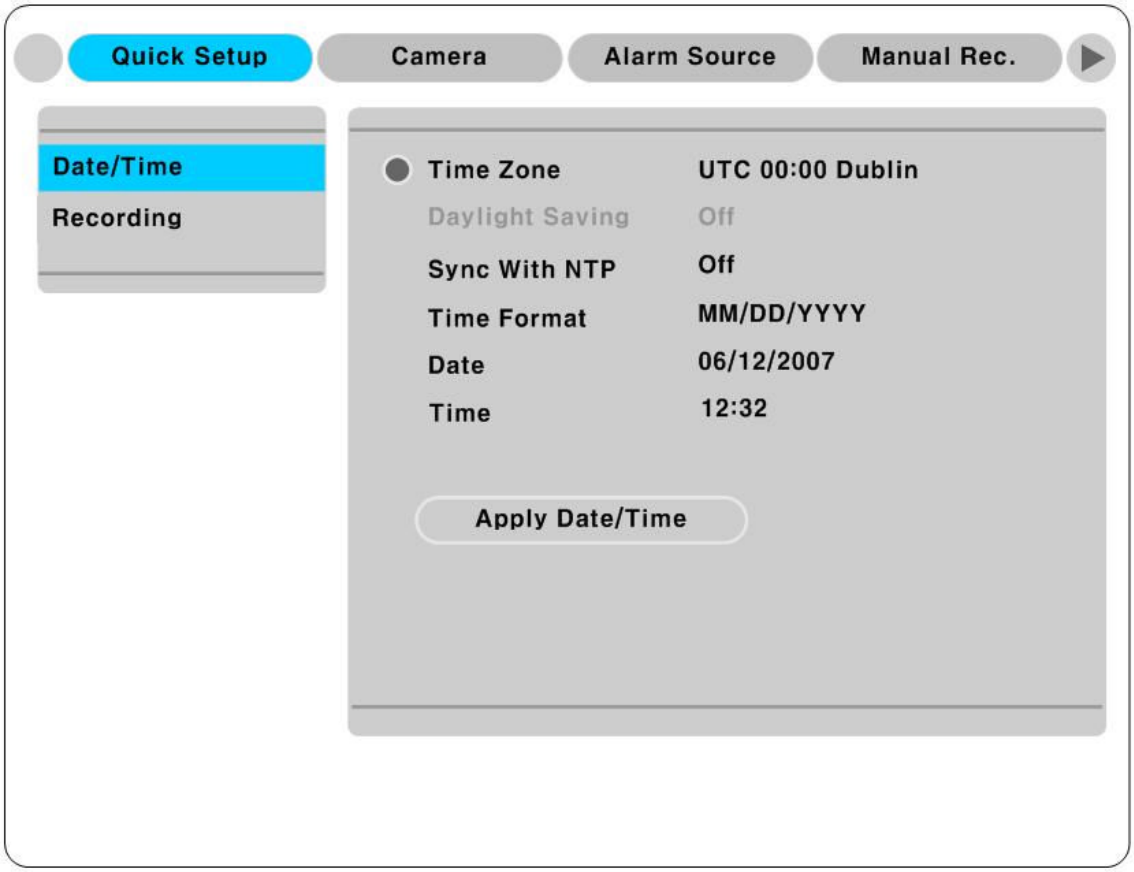
When power is on, MD3200M starts automatically and images are displayed in basic 16ch-split screen after the booting.

<Note>

If user password is set, a prompt for entering the password will appear. Facotry default is reserved as not responding key pad on eDVR front (It is not set from factory default)

Download from Www.Somanuals.com. All Manuals Search And Download.

8.2. Setting Date & Time



(1) Press [MENU] button and select “Quick Setup” tab.

(2) Select “Date/Time” using the [▷] or [▼] and press [EXIT] button.

8.2.1. Time Zone

(1) Select “Time Zone” using the [◀/▶] or [▲/▼] buton and press [▷] to configure.

(2) Select Time Zone using the [◀/▶] button and press [EXIT].

8.2.2. Daylight Saving

(1) Daylight Saving Time is only activated for Time Zone that uses Daylight Savings.

(2) Select “Daylight Saving” using the [◀/▶] or [▲/▼] button and press [▷] button.

(3) [◀/▶] Select On/Off using the [◀/▶] and press [EXIT].

8.2.3. Sync with NTP

In order to synchronize time with NTP (Network Time Protocol) server, select “on”.

(1) Select “Sync with NTP” using the [◀/▶] or [▲/▼] button and press [▷] button.

(2) Select On/Off using the [◀/▶] button and press the [EXIT] button.

Download from Www.Somanuals.com. All Manuals Search And Download.

8.2.4. Time Format

(1) Select “Time Format” using the [◀/▶] or [▲/▼] button and press [▷] button..

(2) Two time formats are available; ‘DD/MM/YYYY,’ ‘MM/DD/YYYY’, ‘YYYY/MM/DD’; Select a value using [▲/▼] buttons and press the [EXIT] button when it is finished. (Factory default is set as ‘MM/DD/YYYY’)

8.2.5. Date

(1) Select “Date” using the [◀/▶] or the [▲/▼] buttons and press [▷]. Select ‘MM’, ‘DD’, ‘YYYY’ using the [◀/▶] buttons.

(2) Press the [EXIT] button when setting is finished.

8.2.6. Time

(1) Select “Time” using the[◀/▶] or [▲/▼] buttons and press [▷].

(2) Select ‘HH’, ‘MM’ using the [◀/▶] buttons, and select the value using the [▲/▼] button.

(3) Press the [EXIT] button when setting is finished.

8.2.7. Apply Date/Time

Most setting values are applied automatically, when exiting from the related menu page. But “Date” & “Time” setting are not applied automatically because they may critically affect the file system of the recorded HDD. To apply Date/ Time settings confirm with [Apply Date/ Time] buttons.

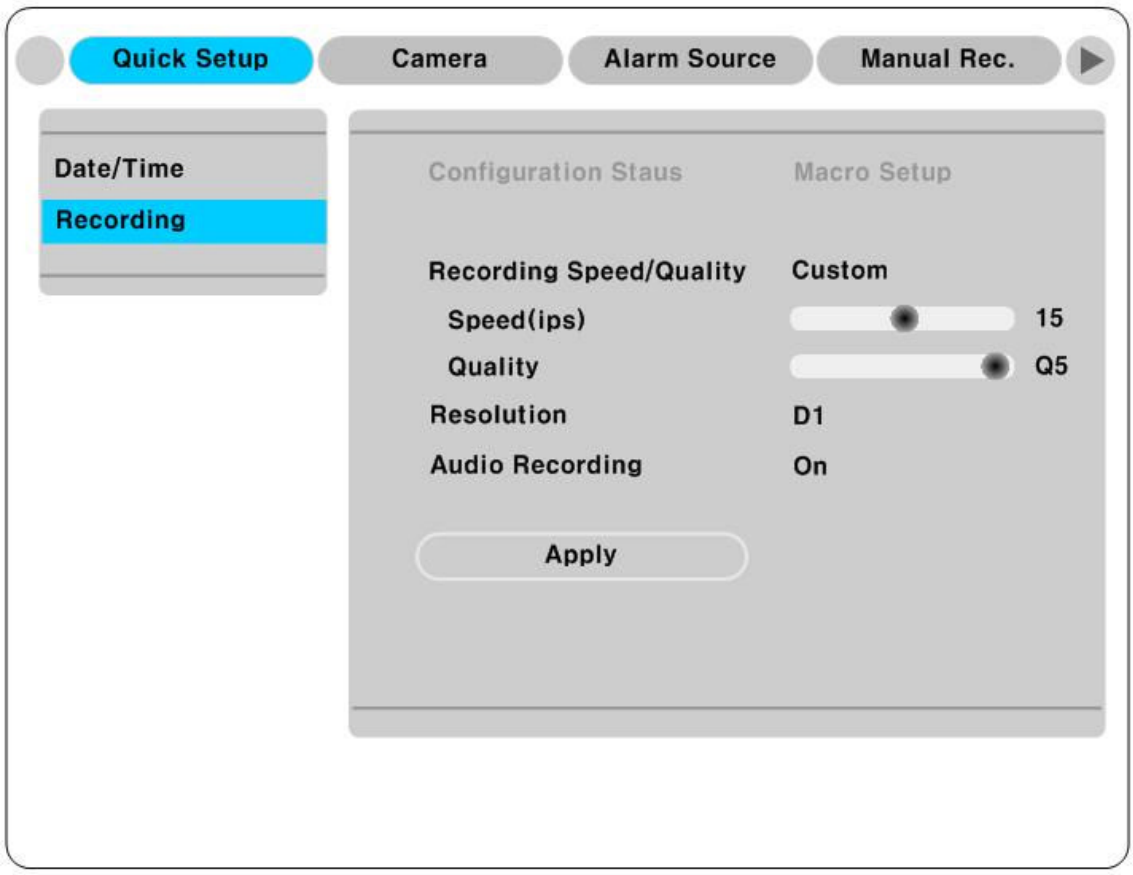
(1) Select “Apply Date/time” using the [◀/▶] or [▲/▼] buttongs and press [▷]. A warning message will be appeared will be appeared as below;

(2) Select “OK” using [◀/▶] or [▲/▼] buttons and press [ENTER] button. To cancel, press the [EXIT] button.

Download from Www.Somanuals.com. All Manuals Search And Download.

8.3. Setting recording condition

Recording conditions under the “Quick Setup” menu tab apply the same values to all analog channels 1~16. All settings are applied for 24 hours/ day regardless of the value set for “Time Schedule” or “Alarm Rec.”



(1) Press [MENU] button and select “Quick Setup” when OSD menu is shown.

(2) Move to sub-menu by pressing [▷] or [▼] button.

(3) Select “Recording” using the [▲/▼] buttons and press [▷].

8.3.1. Configuration Status

Displays the recording configuration status. When setting through the “Quick Setup” menu, “Quick Setup” will be shown. When setting up thorugh “Normal Rec,” or “Alarm Rec,” “Custom Setup” will be shown.

<Note>

Only when normal recording of all channels are same, it is marked as ‘Macro Setup’.

Download from Www.Somanuals.com. All Manuals Search And Download.

8.3.2. Recording Speed/Quality

(1) Select “Recording Speed/ Quality using [▲/▼] buttons and press [▷].

(2) Select a value using the[◀/▶] button. Press the [EXIT] button when it is finished.

<Note> Recording Speed/Quality means

Low : Speed=7.5(6)ips and Quality=Q3 and Resolution=CIF

Standard. : Speed=15(12.5)ips and Quality=Q3 and Resolution=Half

High : Speed=30(25)ips and Quality=Q5 and Resolution=Half

Custom : Speed and Quality = Manually defined by user

8.3.3. Speed(ips)

When “Recording Speed/Quality” is set as” Custom”, values can be set manually.

(1) Select “Speed” using the [▲/▼] button and press [▷].

(2) Select a value using the [◀/▶] button. Press the [EXIT] button when it is finished.

8.3.4. Quality

When “Recording Speed/Quality” is set as “Custom”, values can be set normally.

(1) Select “Quality” using the[▲/▼] button and press [▷].

(2) Select a value using the [◀/▶] button. Press [EXIT] button when it is finished.

8.3.5. Audio Recording

(1) Select “Audio Recording” using the[▲/▼] buttons and press [▷].

(2) Select a value using the[◀/▶] button and press [EXIT] button when it is finished.

8.3.6. Alarm Recording

(1) Select “Alarm Recording” using the[▲/▼] buttons and press [▷].

(2) Select a value using the[◀/▶] button and press [EXIT] button when it is finished.

8.3.7. Apply

(1) Select “Apply” using [▲/▼] buttons and press [▷].

(2) Setting values are applied and the prevous menu will be displayed.

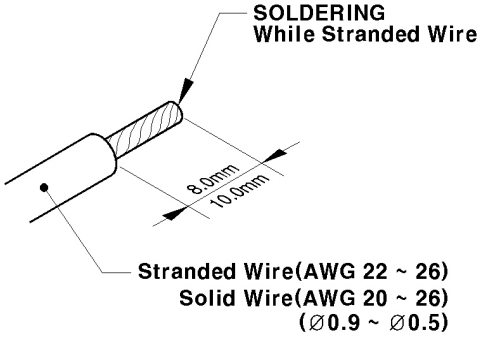
Download from Www.Somanuals.com. All Manuals Search And Download.

9. Connecting and configuring DIO ports

<Note> Wire Handling

Trimming Wire

When connecting a wire to a terminal block, follow the instructions below. Note the different types of wire that can be used.

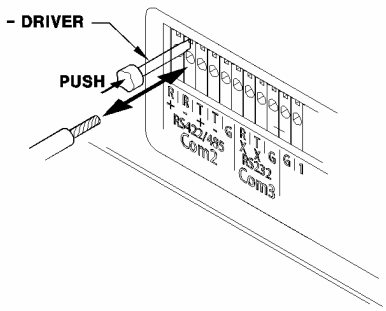


Standard Wire : Peel off the wiring, cover 8~10mm and solder it. Wire gage should be AWG 22~26.

Solid Wire : Peel off the wiring cover 8~10mm and solder it. Wire gage should be AWG 20~26

Inserting & removing wire

To insert & remove wirte in TERMINAL BLOCK, use a screwdriver in the diagram to the right.



9.1. Connecting and configuring sensor

9.1.1. Specification

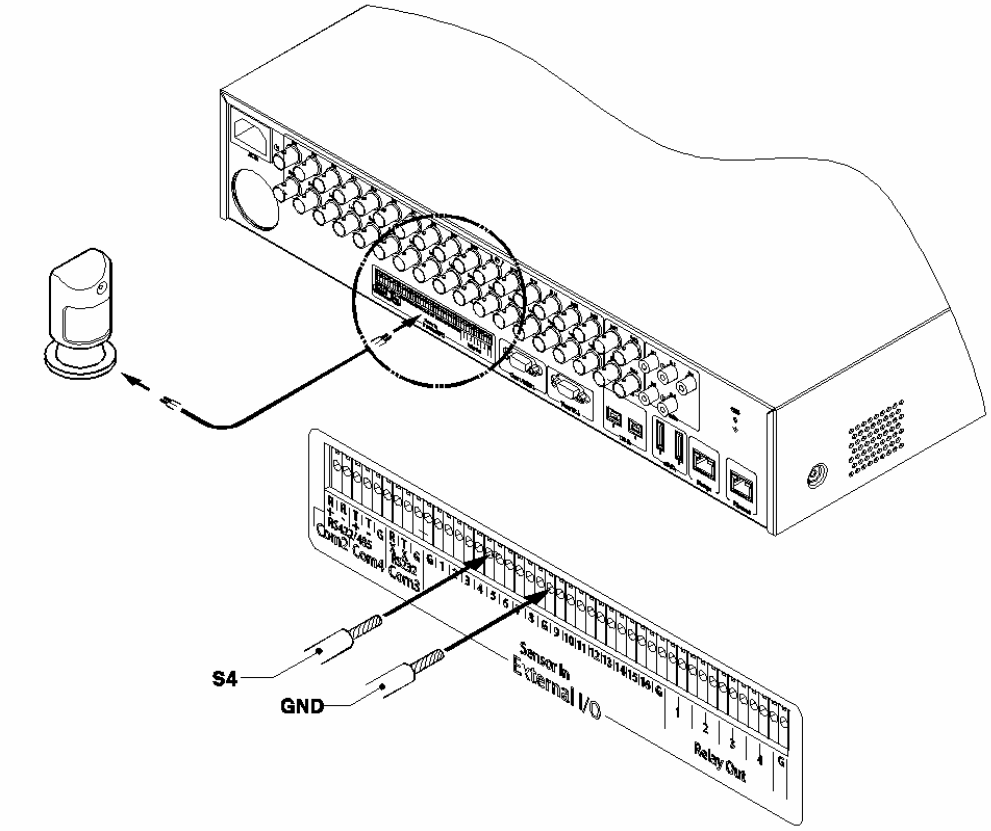
In order to run sensor input of eDVR MD3200 Series normally, the following conditions are required.

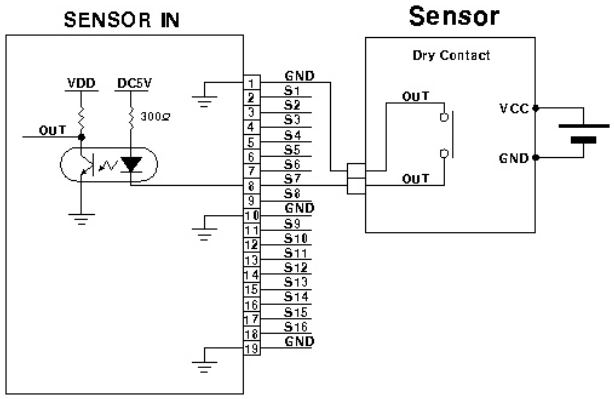
Spec.	Input Ch.	16Ch Photo coupler inputs
	Input type	N.C (Normal Close)/ N.O. (Normal Open) type.
	Supported sensor	Dry contact sensor
	Connecting	Connecting the trimmed wire to terminal block
Performance	Available input pulse range	Min. 500ms
	Output current	Typical DC 12mA

Download from Www.Somanuals.com. All Manuals Search And Download.

9.1.2. Connecting sensor input

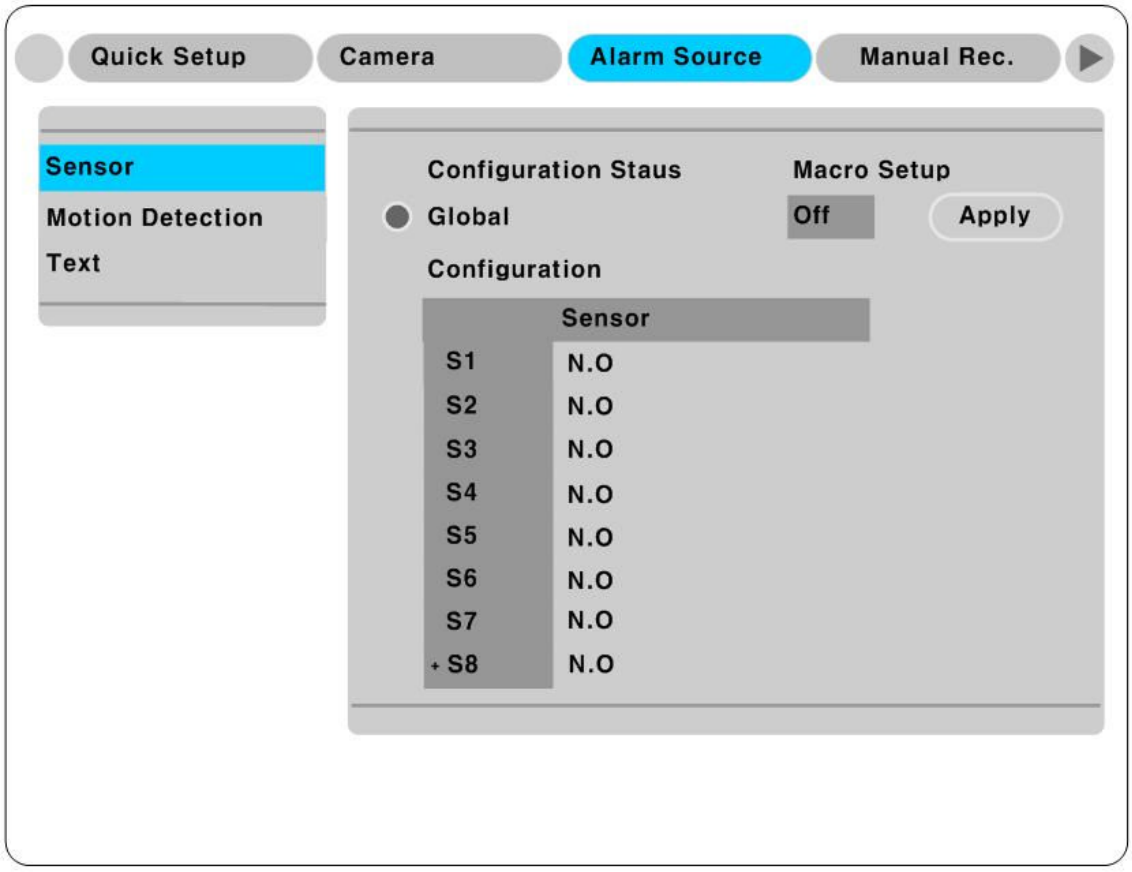
Connect S1 ~ S16 with referring to the followings. It shows to connect a dry contact (Please refer to "***<Note> Wire Handling***" on page 27). When connecting a non-dry contact type of sensor (e.g. Open collector output) please contact WEBGATE's customer Support team.





Download from Www.Somanuals.com. All Manuals Search And Download.

9.1.3. Configuring sensor at OSD menu



(1) Press the[Menu] button and select “Alarm Source”.

(2) Press [▷] or [▼] button to move to Sub-Menu, select “Sensor” and press [▷].

9.1.3.1. Global

Use when selecting all 16 sensors simultaneously, which can be selected as “Do not use”(Off). “Normal Open” (N.O), and “Normal Close” (N.C.).

(1) Select a “Global” and set a type as Off, N.O. or N.C...

(2) Press “Apply” to save a configuration

9.1.3.2. Configuration

Use when selecting each 16 sensor individually.

(1) Select a “Confiugration” and press [▷].

(2) Select a sensor (S1 ~ S16) and set a type.

(3) Press [Exit] to out from OSD Menu.

Download from Www.Somanuals.com. All Manuals Search And Download.

<Note>

1. Configuration a sensor is to set On/Off usage and type.
2. Please refer to “Alarm Rec” for saving and “Alarm Act” for relay-out on the ***“eDVR User’s Guide”***

9.2. Connecting & configuring relay out

9.2.1. Specifications

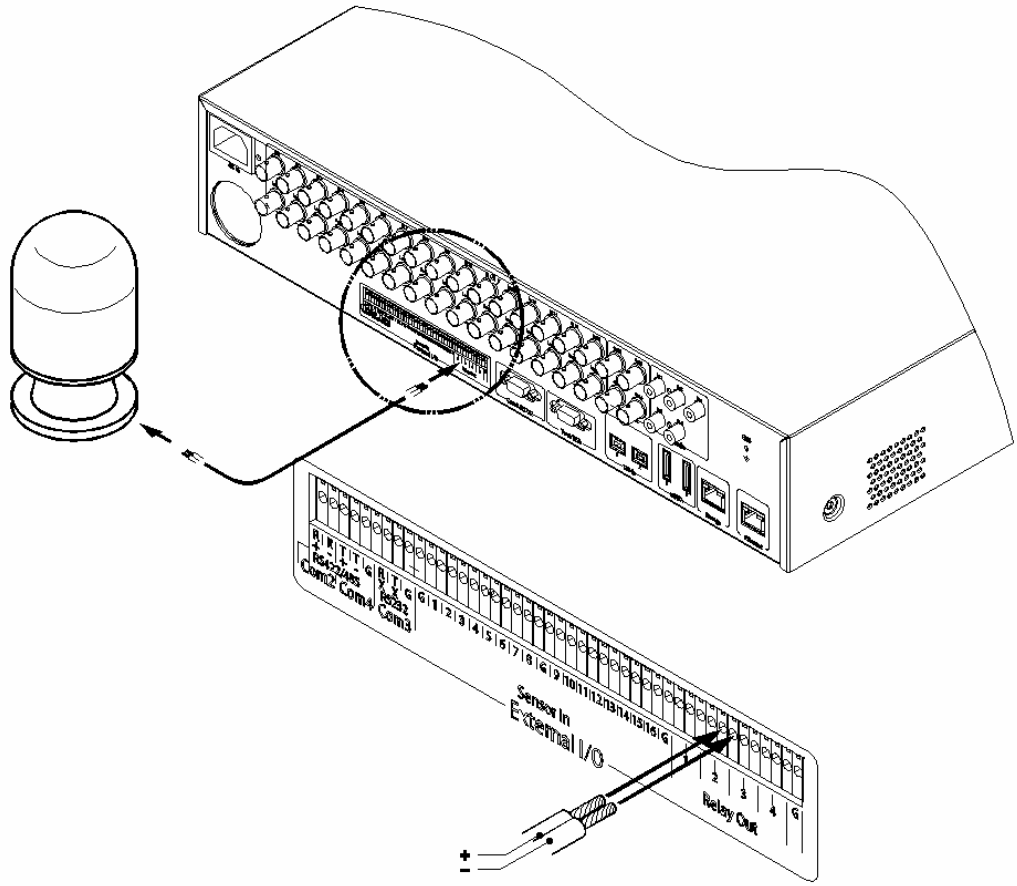
In order to run relay output of eDVR MD3200M normally, the following conditions are required.

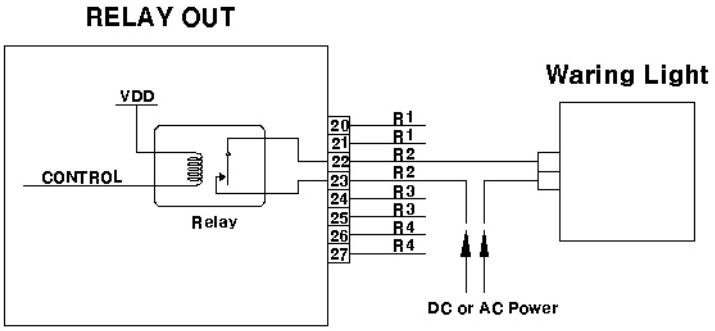
Spec.	Output Ch.	4Ch relay differential outptus
	Output type	Dry Contact
	Connecting type	Connect the trimmed wire to terminal block
정격	DC	24V DC, 1.25A, 30W
		125V DC, 0.24A, 30W
	AC	125V AC, 0.5A, 62.5VA
		250V AC, 0.25A, 62.5VA

Download from Www.Somanuals.com. All Manuals Search And Download.

9.2.2. Connecting relay out

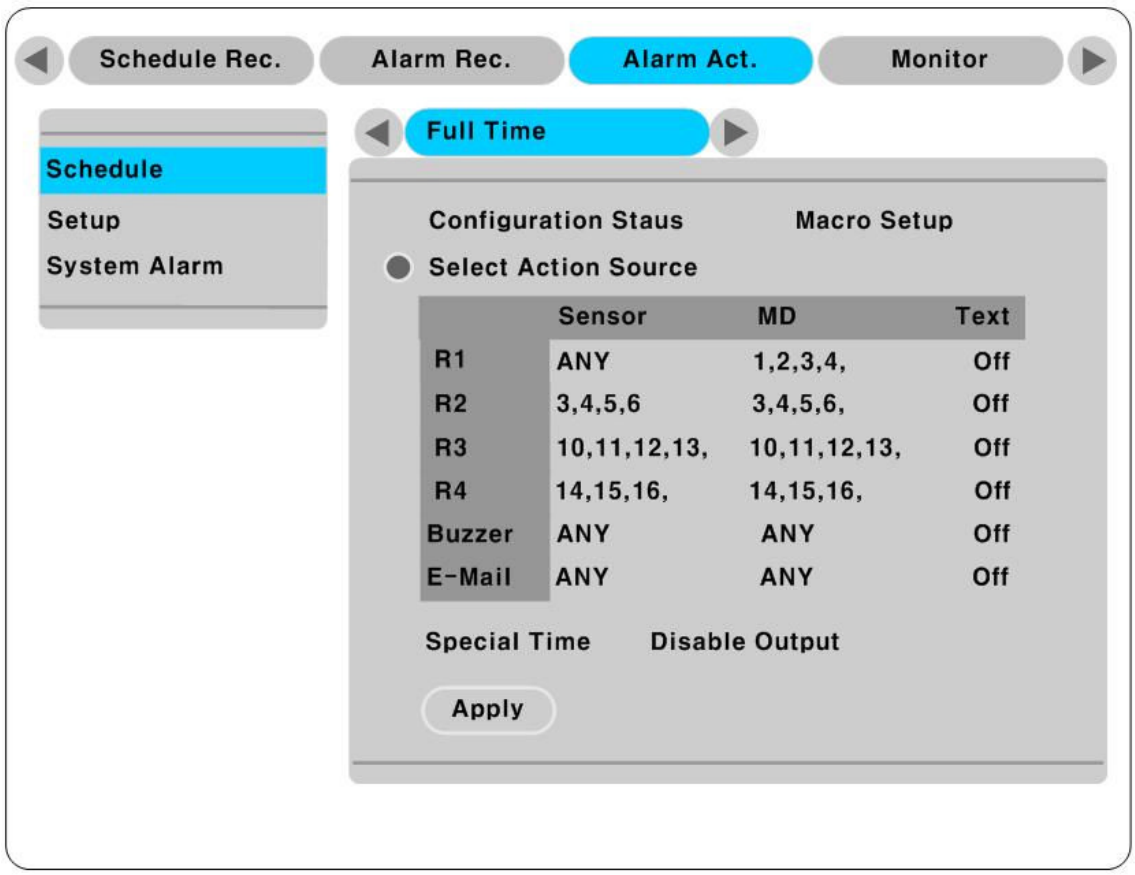
Connect R1 ~ R4 with referring to the followings, It shows to connect a warming light. Please refer to "***<Note> Wire Handling***" on page 27.





Download from Www.Somanuals.com. All Manuals Search And Download.

9.2.3. Configuring relay out as OSD menu.



Relay can run by sensor or MD and its condition can be set differently according to schedule. When using the [Relay] button + [Number] button on the front panel or Control Center Lite-D S/W, relay can be operated from remote site.

<Note>

Please refer to the ***"eDVR User's Guide"*** for more information.

Download from Www.Somanuals.com. All Manuals Search And Download.

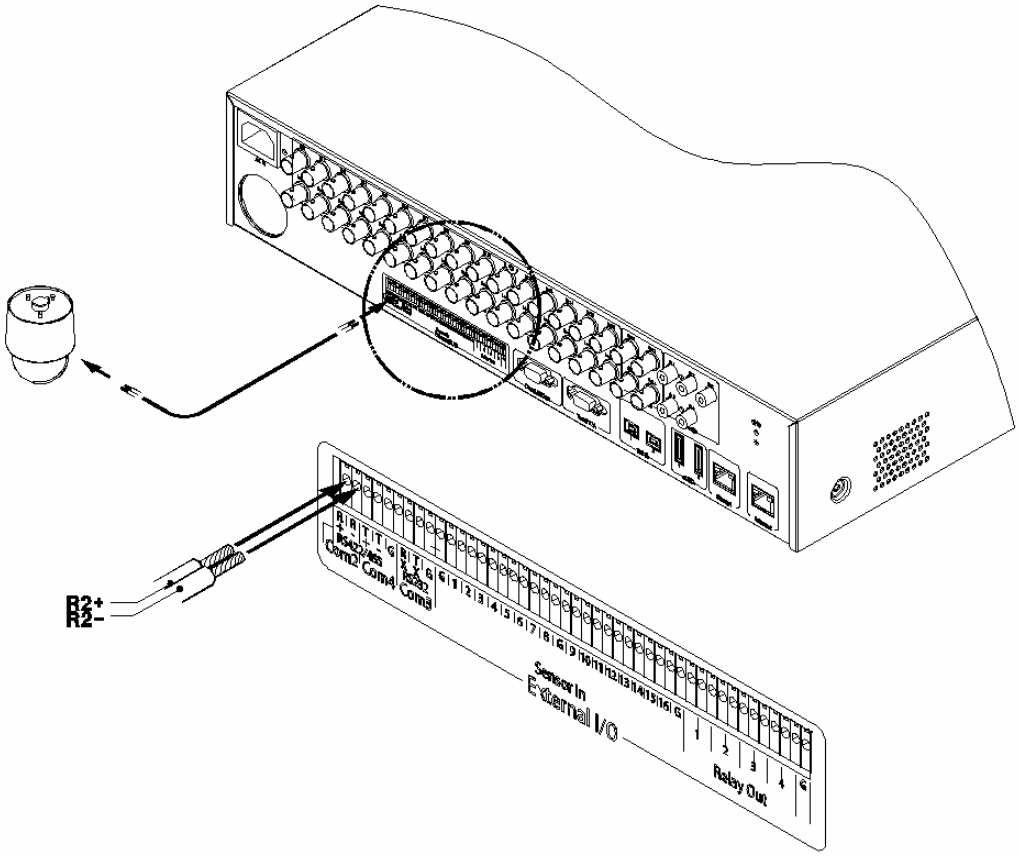
9.3. Connecting serial port

9.3.1. Configuring serial ports for Pan/Tilt/Zoom

The MD3200 series have most major PTZ protocols already pre-programmed. Makes and models not supported can still be controlled using the Transparent Protocol. For a list of supported protocols, refer to the list on the OSD Configuration menu.

The following figure shows how to connect PTZ camera to RS485 (COM2). When using another serial port, connect it with referring to each connection diagram below.

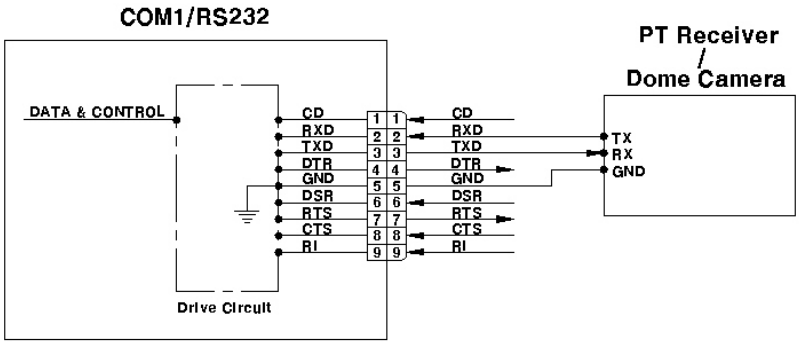
Please refer to the ***"<Note> Wire Handling"*** on page 27.



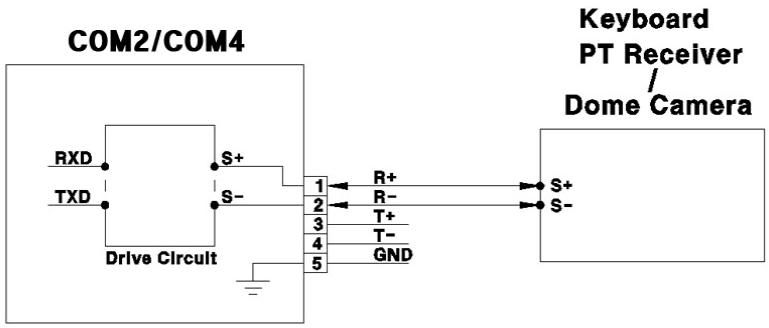
Download from Www.Somanuals.com. All Manuals Search And Download.

9.3.2. Diagram of serial ports

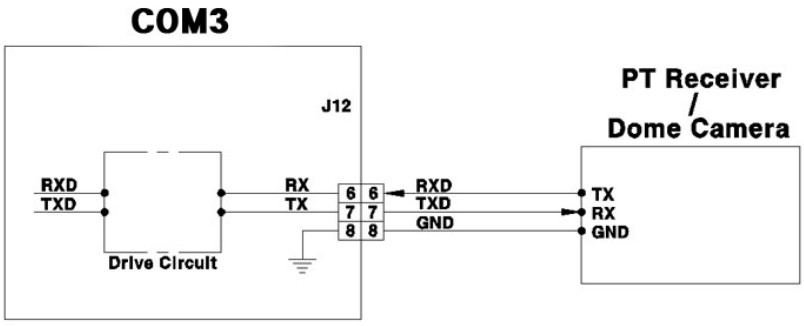
9.3.2.1. Diagram of COM1(RS232)



9.3.2.2. Diagram of COM2/COM4



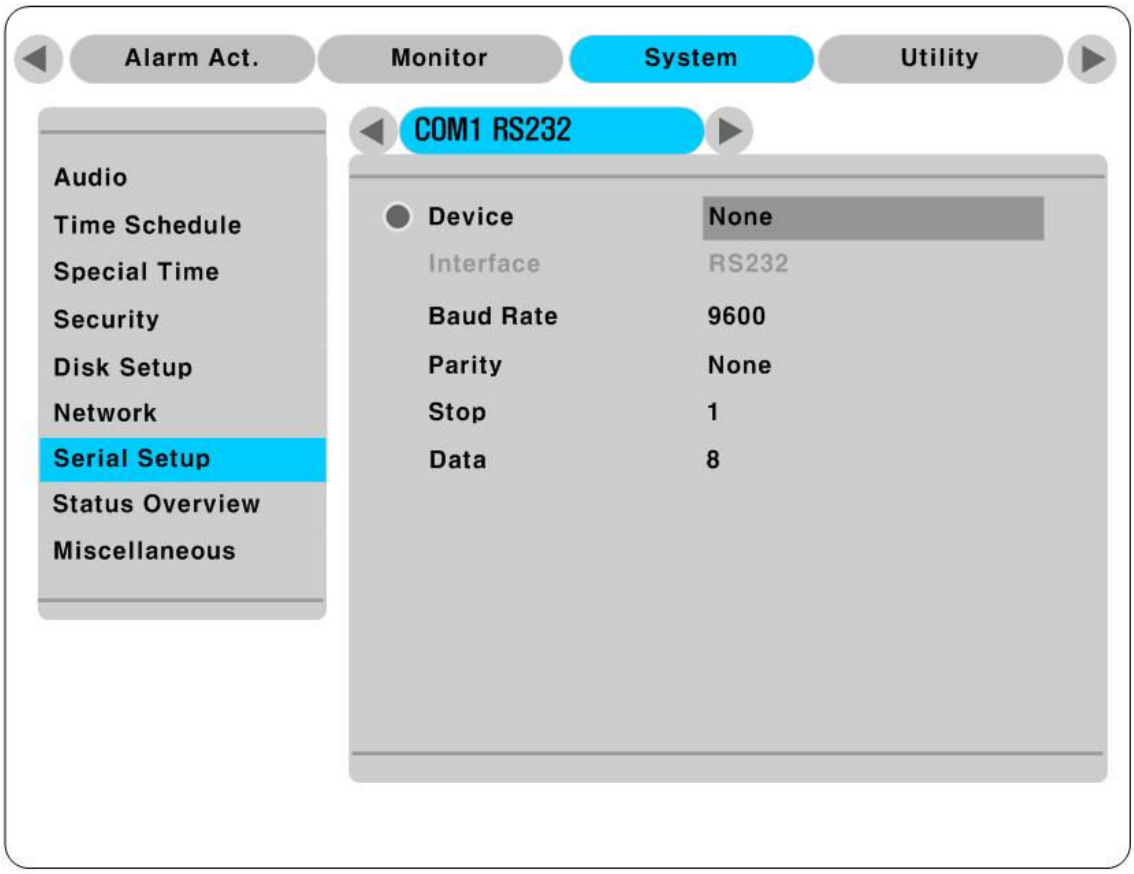
9.3.2.3. Diagram of COM3



Download from Www.Somanuals.com. All Manuals Search And Download.

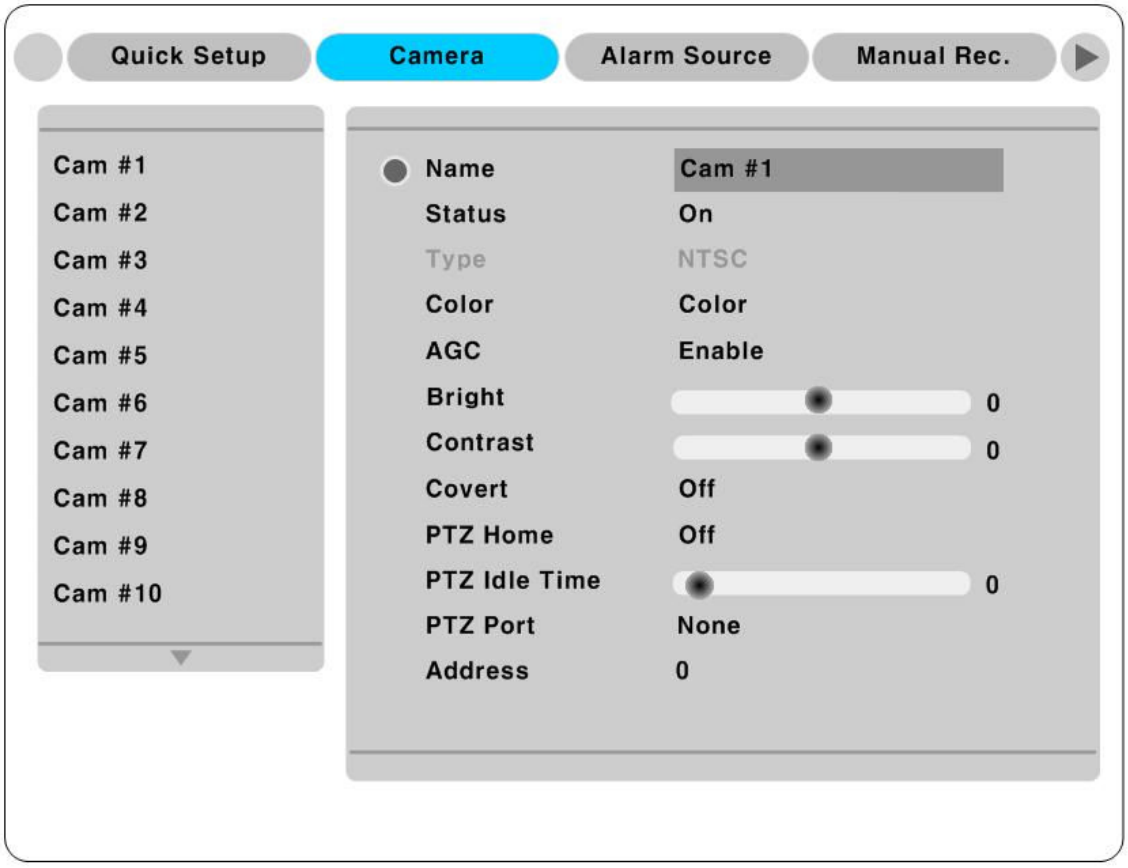
9.3.3. Configuring Serial

Configure PTZ COM ports and available models at “System/ Serial Setup” in MD3200 Series.



After completing serial setup, configure base address or port for each channel at “ Camera menu” tab. When connecting PTZ devices to several cameras, be sure base address matches address for the camera.

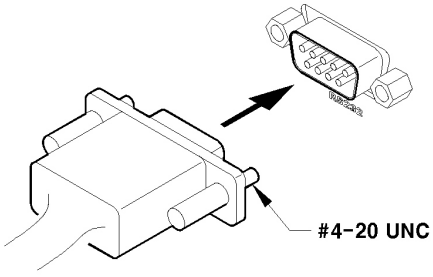
Download from Www.Somanuals.com. All Manuals Search And Download.

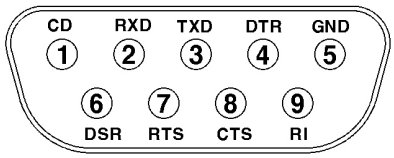


9.4. Connecting external device with serial port

9.4.1. Connecting text inout device (ATM / POS / Access Control)

The MD3200 Series can record text data received from POS/ATM through the COM/RS232 serial port.

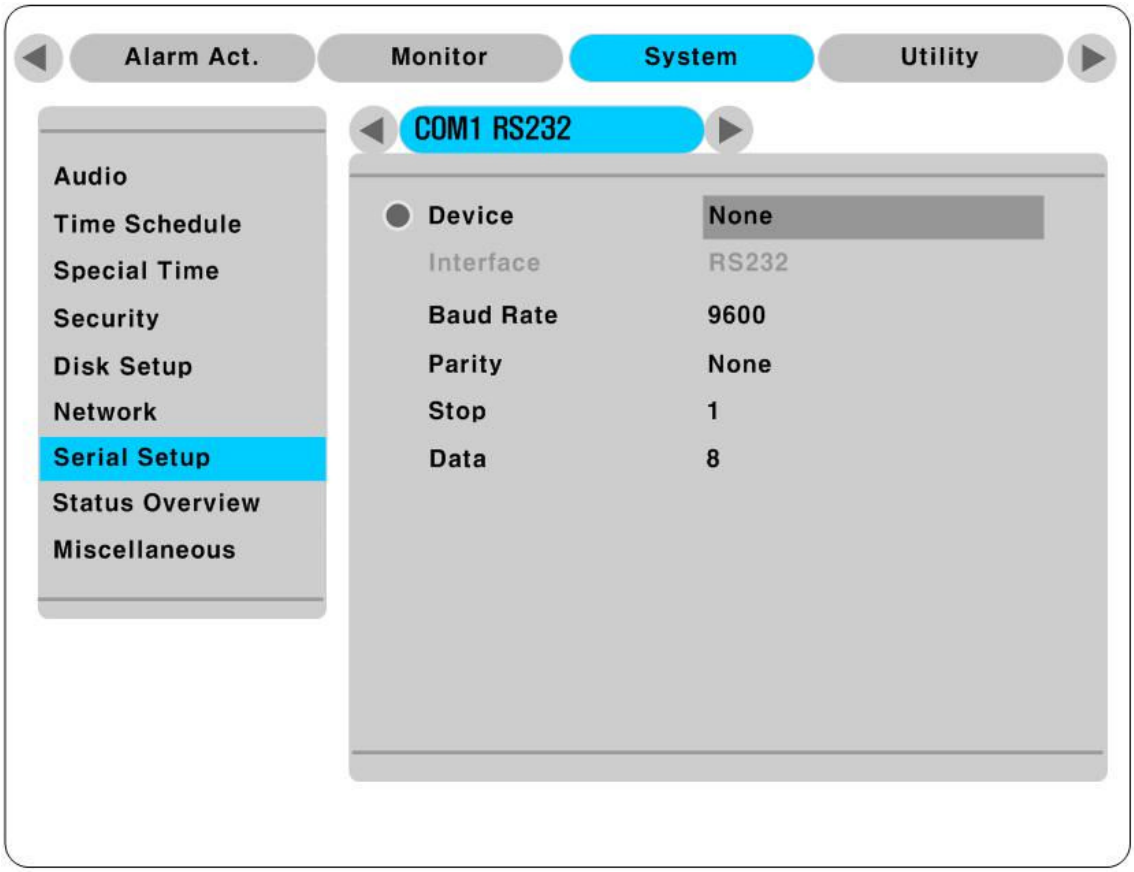




Connect to COM1/RS232 (9Pin D-Sub) of MD3200M and configure the “Serial Setup” sub-menu under the “System” tab and “Text” sub-menu under the “Alarm Source” tab shown as above figure.

Download from Www.Somanuals.com. All Manuals Search And Download.

9.4.2. Configuring serial setup (COM1) at OSD menu



(1) Set the “System” in OSD menu and move to “Serial Setup” menu.

(2) Select COM in “Serial Setup”, set Devices as “Text”.

(3) Set Baud Rate/ Parity/ Stop bit with referring to manual of the connected external device.

Download from Www.Somanuals.com. All Manuals Search And Download.

9.4.3. Configuring text

(1) Select the “Alarm Source” menu among OSD menus.

(2) Select the “Text” and set each value.

<Note>

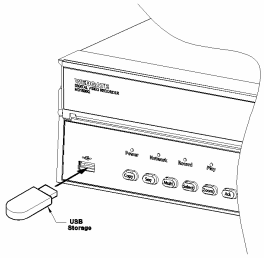
Before installing any external device, consult with the local WEBGATE distributor. Some external devices may not be compatible with the eDVR.

Download from Www.Somanuals.com. All Manuals Search And Download.

9.5. Connecting USB device

USB port can be used to copy up to 1 minute of images to a USB Flash memory disk. When connecting USB Device, do not exceed the rated values of USB device as below;

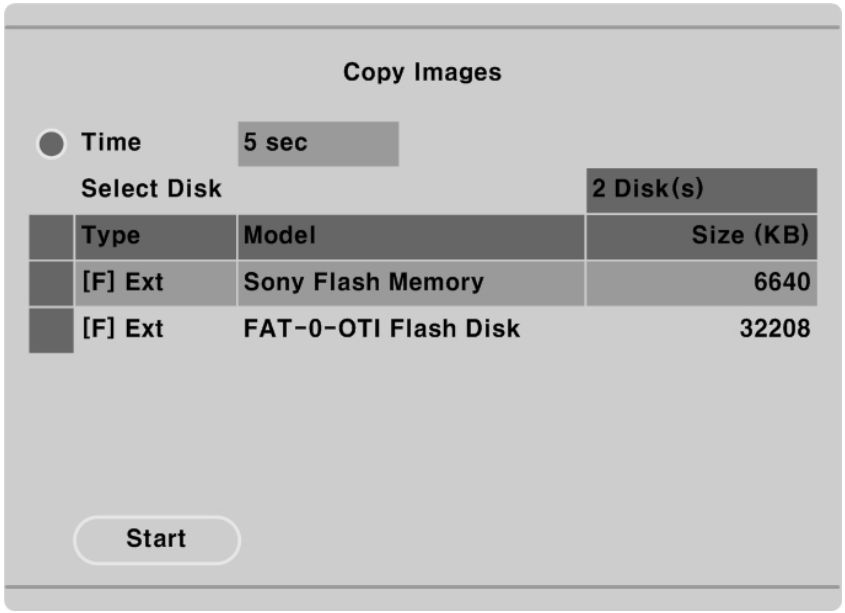
USB Spec.	Ver 1.1 (Max 12M bps)
Available Device	USB Memory Stick,
Output Voltage/Current	Max. 200mA per DC 5V/ Port



<Note>

The disk should be formatted with FAT32 type.

If properly connected the disk is recornized automatically as in the following pricutre. To copy images the process is as follows; Set copy range (up to 1minute) → Select drive → Copy



<Note>

1. USB Flash products that required a Windows program to operate may not be recognized by the eDVR
2. For more information about copy function, please refer to the ***"eDVR User's Guide"***

Download from Www.Somanuals.com. All Manuals Search And Download.

10. Connecting External Storage

<Note>

Extension through NVS04, IEEE 1394b will be supported later.

For the details, please contact to local distributor.

10.1. IEEE1394 port

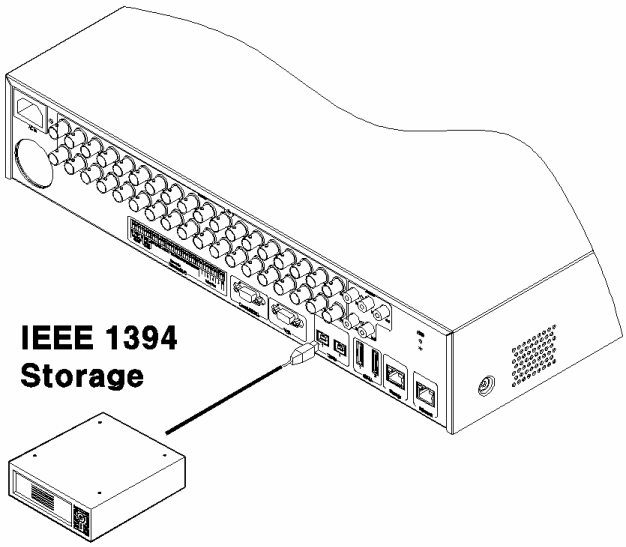
MD3200 Series have two IEEE 1394 ports (Rear: 2-ports) for external storage device interface.

<Note>

Some IEEE 1394 Bay may not be recognized by the MD3200 series. Before purchasing consult the local WEBGATE's local distributor.

10.2. Connecting IEEE1394 Device

When using FireWire supported external HDD, hard drive bays can be connected to 2 ports in the rear panel. The MD3200 series do not supply power to the hard drive bay; therefore only bays that use external power can be used.



<Note>

MD3200 Series detect external HDD, even though MD3200 series run. If not, it is recommended to connect as follows;

1. Power off MD3200M
2. Connect external HDD to IEEE1394 port.
3. Power on external device
4. Power on MD3200M

Download from Www.Somanuals.com. All Manuals Search And Download.

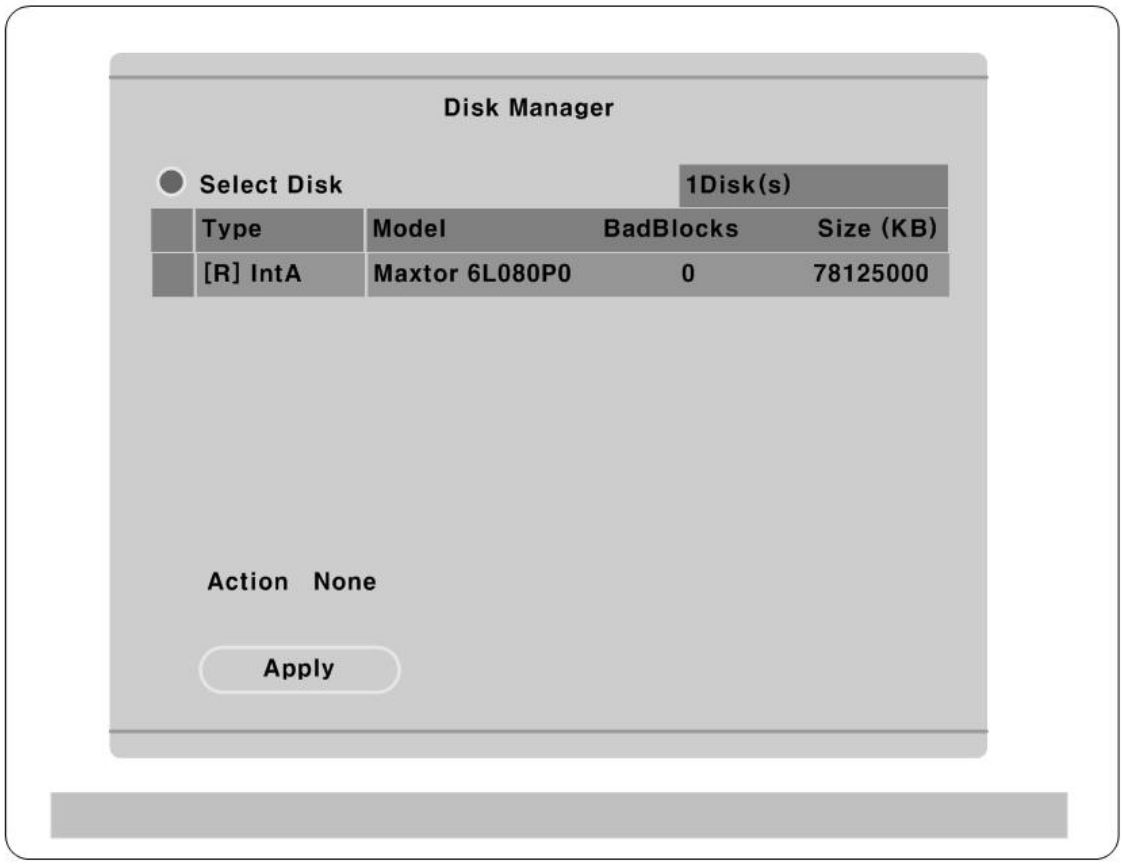
10.3. Available HDD

It is recommended to use following HDD models with the MD3200M. If a non-recommended HDD is used, WEBGATE Inc. will guarantee the warranty.

10.4. Registering & Formating HDD

"Disk Manager" will automatically run on start-up installing a HDD as below;

If "Disk Manager" deos not automatically run on start-up, make sure the HDD is properly installed.



(1) Press [▷] button marked at "Select Disk".

(2) Select new added HDD(indicated as "[F]") using [▲/▼] button and press [EXIT].

(3) Select "Action" using [▲/▼] button and press [▷].

(4) Select "Add" using [◀/▶] button and press [EXIT].

(5) Select "Apply" using [▲/▼] button and press [▷]. The HDD status is changed to "[*]".

(6) Select "Action" using [▲/▼] button and press [▷].

(7) Select " Format" using [◀/▶] button and press [EXIT] button.

(8) Select "Apply" using [▲/▼] button and press [▷] button. The HDD status is changed to "[R]" after formatting.

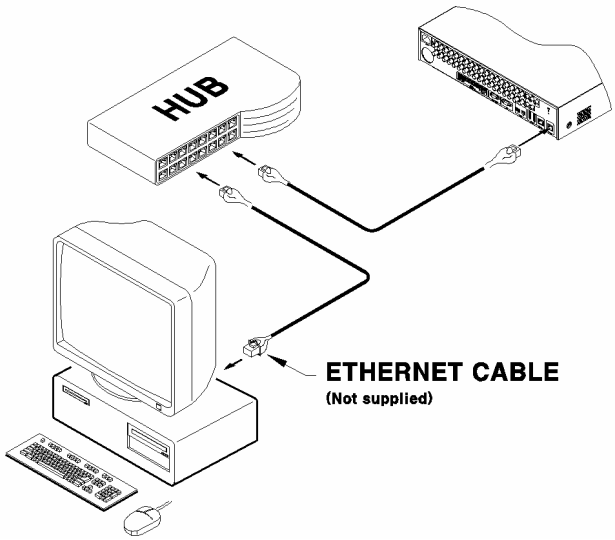
Download from Www.Somanuals.com. All Manuals Search And Download.

(9) Shut down “Disk Manager” by pressing [EXIT] button.

11. Network monitoring & managing

MD3200M can be accessed, controlled, and managed from remote site using PC via Internet/ Intranet, which is same way as local access for controlling & monitoring features.

11.1. Connecting Ethernet



(1) Turn off power switch of MD3200M

(2) Connect MD3200M to hub with Ethernet cable

(3) Turn on power switch of MD3200M

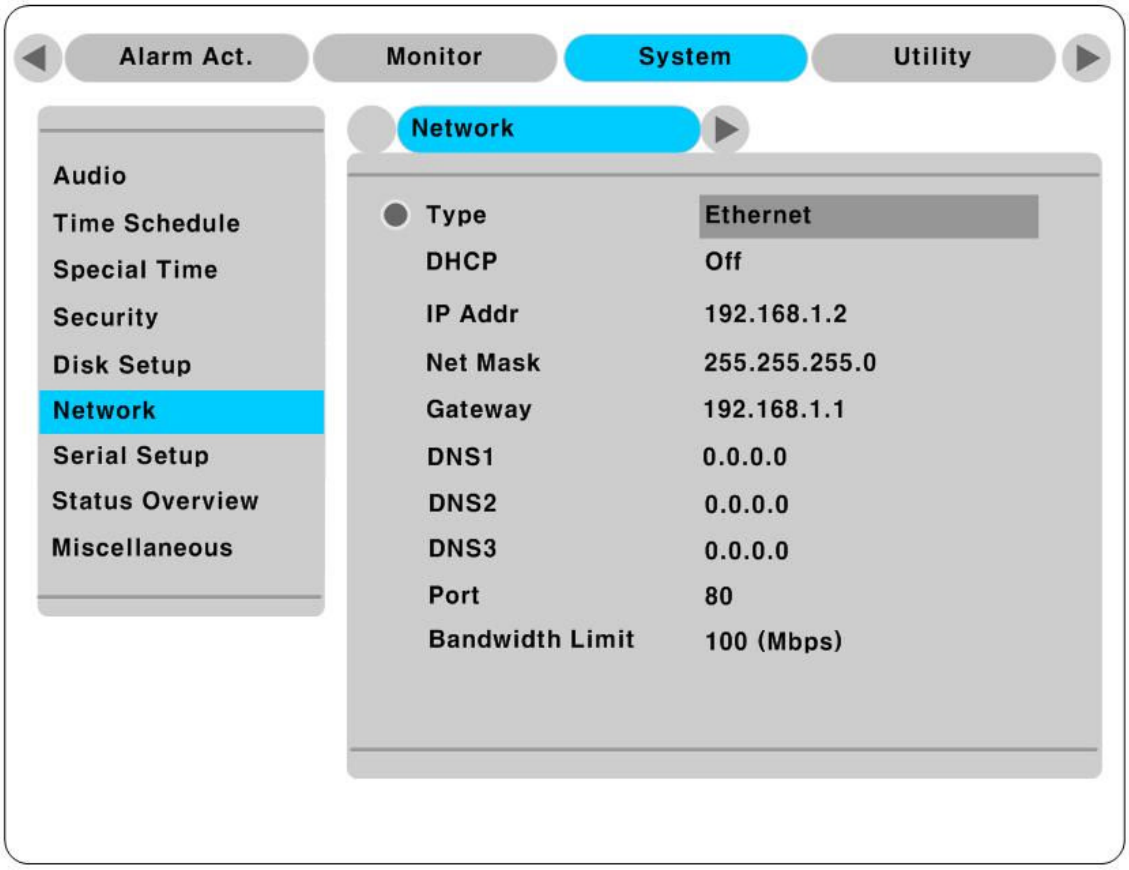
<Note>

1. Supply power to MD3200M after connecting Ethernet cable to protect against electrical damage to MD3200M.
2. Check cable connection status.
3. Check LED on rear panel of MD3200M after supplying power.

Download from Www.Somanuals.com. All Manuals Search And Download.

11.2. Configuring Network infomraiton of MD3200M

The following description is based on Ethernet connection. For more detailed information on the Network setting page and way of using xDSL, please refer "**eDVR USERS' GUIDE**".



(1) Press [MENU] button

(2) Select "System" using the [◀/▶] buttons and press the [▷] button.

(3) Select "Network" using the [▲/▼] buttons and press the [▷] button.

(4) Select "IP Addr" using the [▲/▼] and press the [▷] button.

(5) Press [EXIT] button after entering IP address in the dialogue box.

(6) Select "Net Mask" using the [▲/▼] buttons and press the [▷] button.

(7) Press [EXIT] button after entering Net Mask in the dialogue box.

(8) Select "Gateway" using the[▲/▼] and press the [▷] button.

(9) Press [EXIT] button after entering Gateway in the dialogue box.

(10) Select "DNS" using the [▲/▼] buttons and press [▷] button.

(11) Press [EXIT] button after entering DNS in the dialogue box.

(12) Press [EXIT] button to exit to montor mode

Download from Www.Somanuals.com. All Manuals Search And Download.

12. Using Control Center Lite

Control Center List is a DVR Management Software and it makes DVR installtion & setting more easier throguth a PC which is connected with DVR in Network. All configuration could be handled in OSD menu of DVR without a PC, however, Control Center Lite makes the complete setting more simply.

12.1. Starting

To do setting DVR through Control Center Lite, PC and DVR should be connected via Network and installed Contorl Center Lite on the PC.

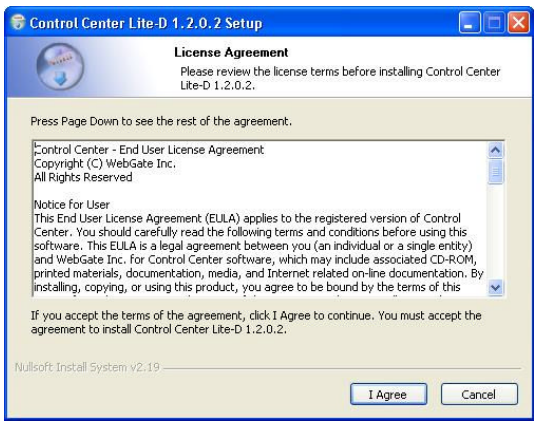
12.1.1. PC system requirements for running Control Center Lite

	Mininum Requirements	Recommended Requirements
CPU	Intel Pentium4 3Ghz(Hyper-Thread)	Intel Core™ 2 Duo Processor
Memory	512MB	2GB
Video Card	128MB	128MB
Resolution	1280 x 1024	1280 x 1024
HDD recording space	1GB or higher	1GB or higher
OS	Windows XP SP2	Windows XP SP2
Etc.	DirectX 8.1 or higher	DirectX 8.1 or higher

12.2. Installing Control Center Lite

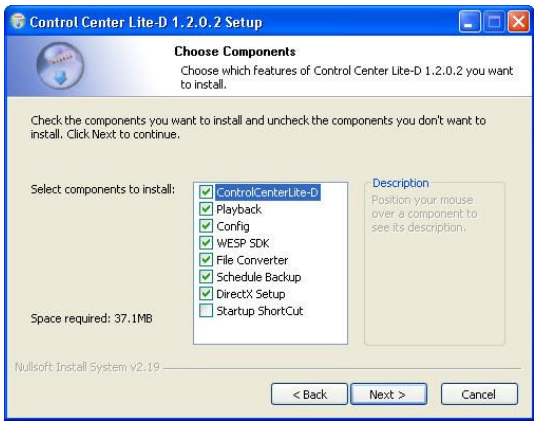
1> Execute “1.x.x.x Setup.exe” file in Control Center Lite Set up CD.

To install Control Center Lite, user level of the PC should be Administrator mode.



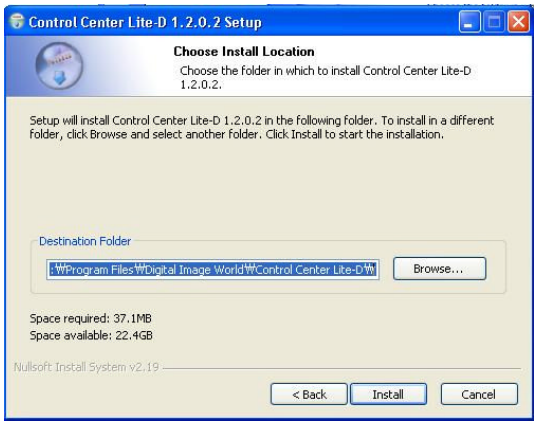
2> Click “I Agree” button to accept the license agreement

Download from Www.Somanuals.com. All Manuals Search And Download.



3> Select components which wish to install and press “Next” button.

“WESP SDK” must be installed.



4>.Click the “Install” button after selecting a directory to be insatalled.

12.3. Log-In

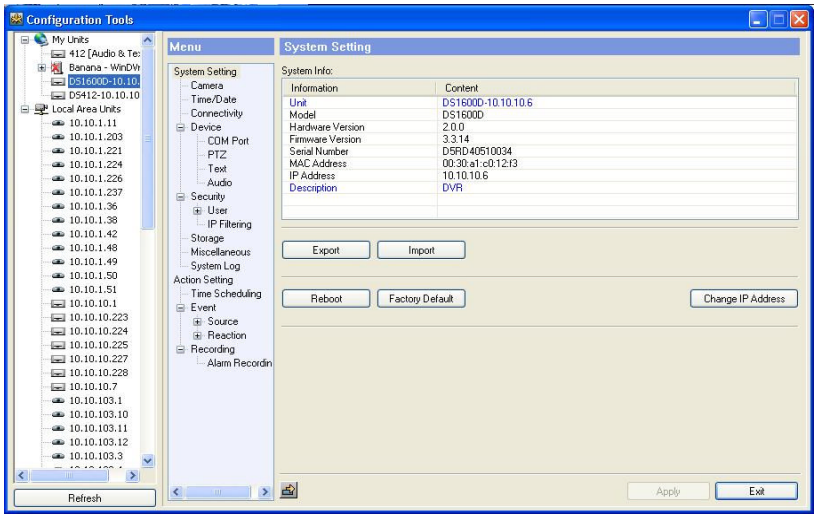
Enter User Name, Password and press “Ok” button.

The factory default value : User Name:Administrator, Password:admin

Download from Www.Somanuals.com. All Manuals Search And Download.

12.4. Configuration Tool

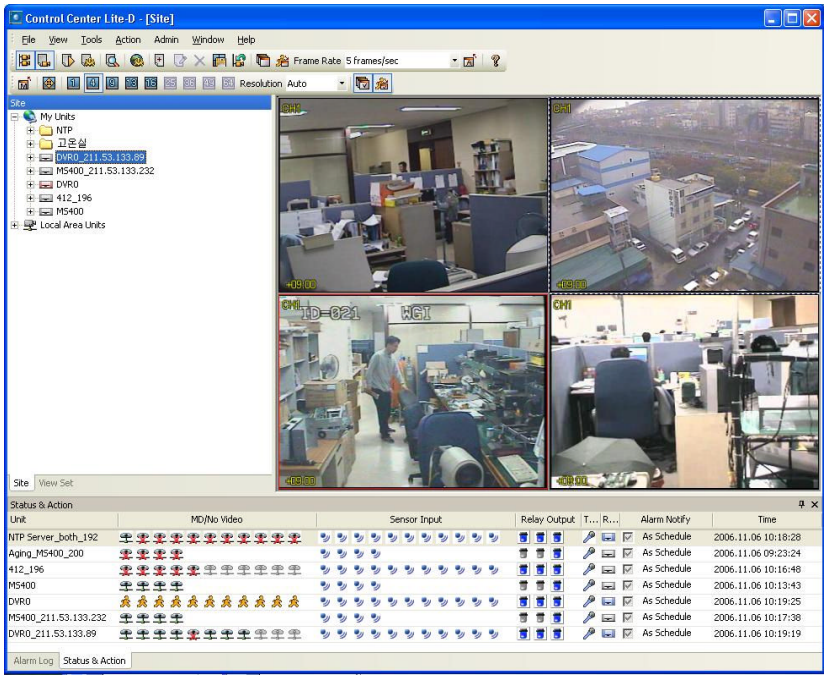
Click the icon on the desk top to run “Control Center Lite Configuration Tool”.



12.5. Monitor

* Max. 5 users could be connected simultaneously in one unit of MD3200M.

Click the icon on the desk top to run “Control Center Lite Monitor”.

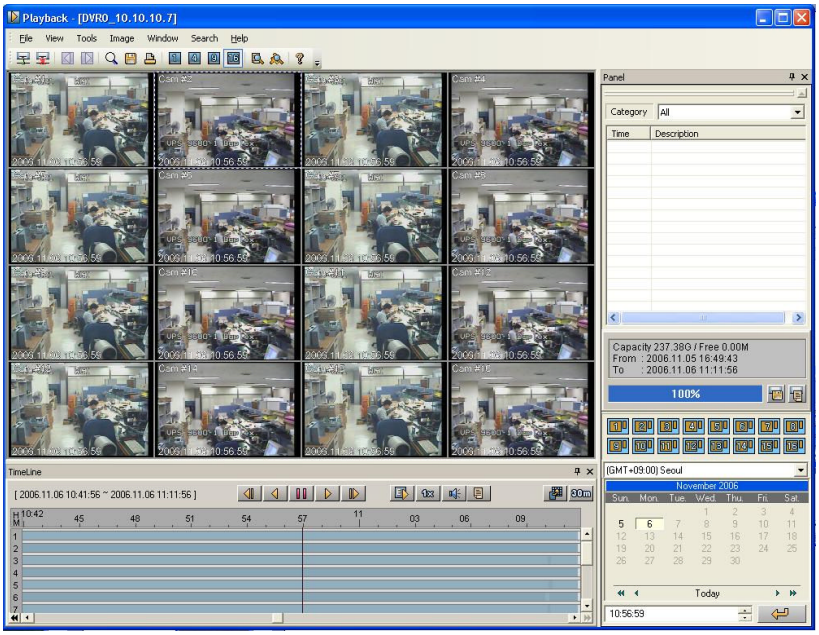


Download from Www.Somanuals.com. All Manuals Search And Download.

12.6. Playback

* Max. 2 user could be connected for playback in one unit of MD3200M.

Click the icon on the desk top to run “Control Center Lite Playback”.



Download from Www.Somanuals.com. All Manuals Search And Download.

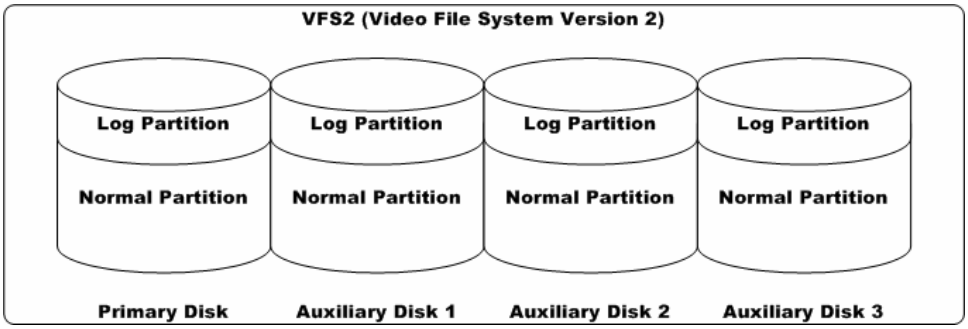
APPENDIX

Download from Www.Somanuals.com. All Manuals Search And Download.

#1. HDD

#1.1. Fundamental notions & terms

eDVR storing constructure (VFS2)



eDVR series has a peculiar storing constructure, and its features are as follows.

(1) It is possible to connect 2 sets of HDD internally (Internal, ATA Interface) and 63 sets of HDD externally (External, 2 ports of IEEE1394 / External, 2 ports of eSATA / Storage Network).

(2) All of the connected HDDs are recognized as one virtual disk, and eDVR supports upto 8TB.

<Note>

Log Partition	To store the information of recorded data
Normal Partition	To store the data as normal recording schedule

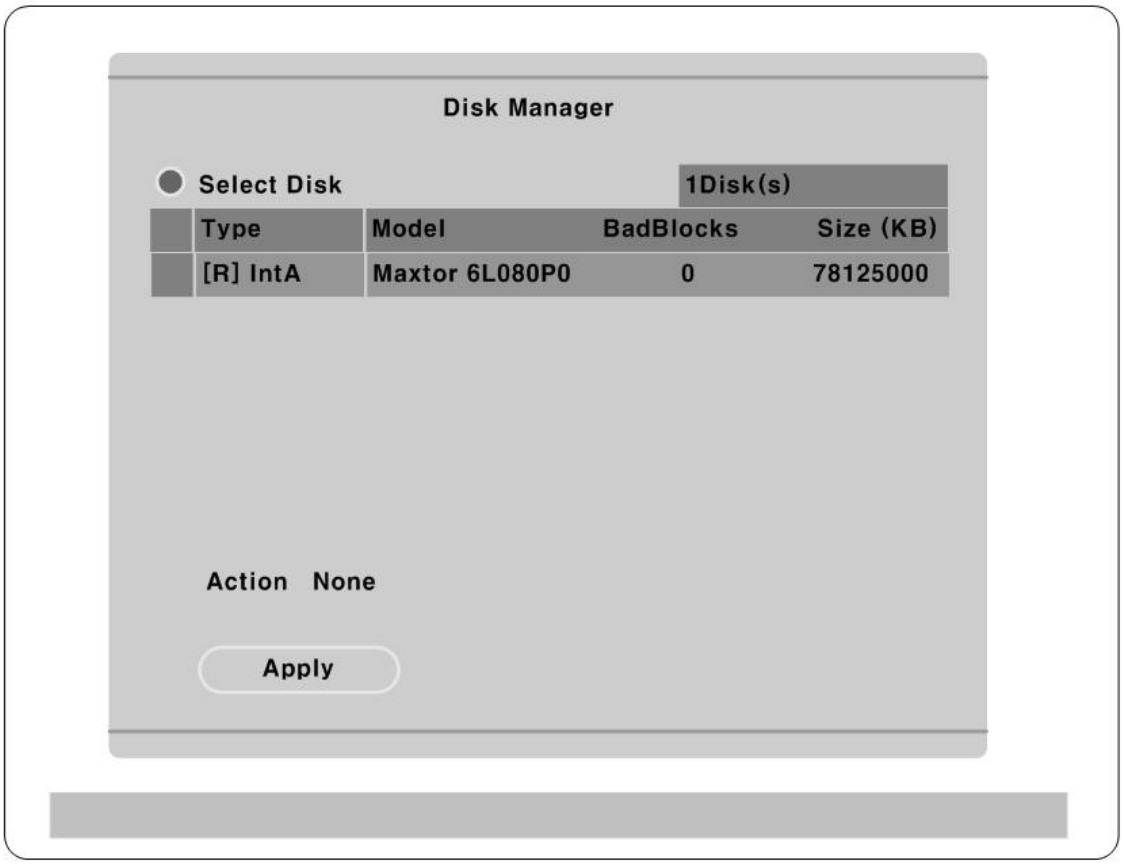
Backup

(1) Backup is possible only through (IEEE1394 port, eSATA, Storage Network) and HDD for backup should be formatted as FAT32 type. (Its type is indicated as [F] in Disk Manager.)

Disk Manager

(1) When HDD is added or deleted physically, Disk Manager runs automatically after rebooting. If not, you can run “Disk Manager” manually with moving “Menu→Utility→Disk Manager”.

Download from Www.Somanuals.com. All Manuals Search And Download.



Download from Www.Somanuals.com. All Manuals Search And Download.

(2) HDD Type at Disk Manager

[R]	Available recording status
[V]	Connected and formatted as eDVR's file system. If using 'Add Used' command, it will be changed to [R]. There is no need to format.
[F]	Connected but not available eDVR's file system. After using 'Add', need to format for making as [R]. Indicate FAT32 file system connected for backup.
[C]	CD/DVD-Recorder
[X]	HDD cable is not connected nor has some problem. In case of that, HDD should be removed with using 'Confirm Removed' menu. In case of being [X] at the disk list, the buzzer will ring until closing a disk manager.
IntA	Internal Primary IDE Channel Master HDD
IntB	Internal Secondary IDE Channel Master HDD
Ext	External HDD, which can be reordered by the order of recognition

(3) HDD Managing Command

Add	Add a HDD for recording. In case of adding a disk, "Alarm Partition" menu is activated as an available status. "Alarm Partition" means that one HDD divides a partion as Normal Recording & Alarm Recording part.
Add Used	Add a HDD that has been used and formatted. There is no need to reformat. It is possble only when HDD is added as Primary Disk.
Remove	Remove current HDD. HDD can be reused without data loss by the 'Add Used' command.
Confirm Removed	Use when a removed HDD is still listed. ALL DATA WILL BE LOST!
FAT32 Format	: Use when connect to the external HDD Format the partition of below 250GB to copy/backup by FAT32 file system. It is necessary to create partition by using Disk manager on PC for this work. In case the size is over 250GB, format each partition by FAT32 file system after creating multiple partitions smaller than 250GB.

Download from Www.Somanuals.com. All Manuals Search And Download.

#1.2. Installing HDD

Compatible HDD

It is recommended to use the following HDD models with the MD3200M. If a non-recommended HDD is used, WEBGATE Inc. will not guarantee the warranty.

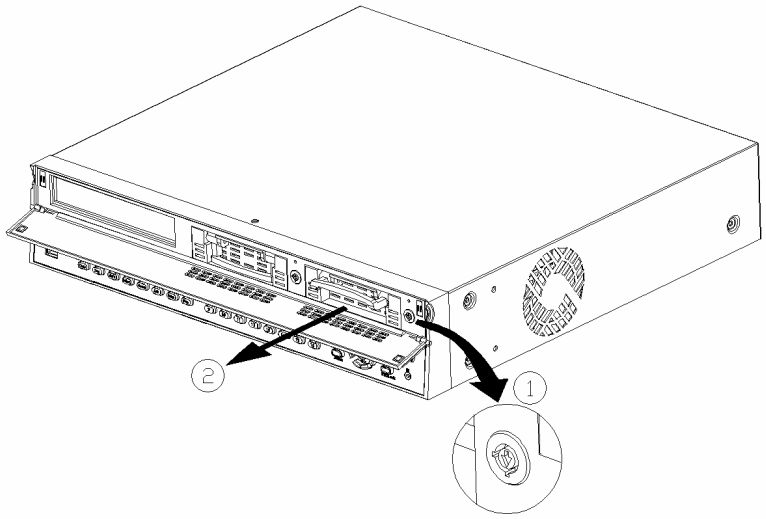
Installation and extension of internal HDD-RACK HDD

In case of installation/adding or exchange HDD, follow the procedure as followings

(1) Cut off the power to eDVR.

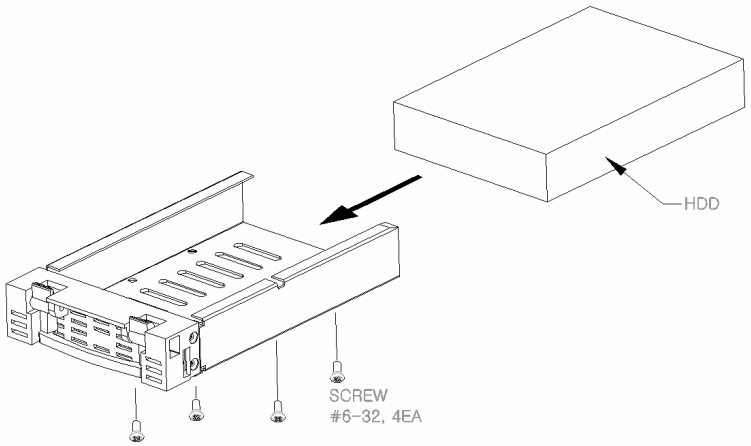
(2) Release the Locking system using HDD-RACK KEY

(3) Lift up the hand at front 90 degrees and pull Bracket to remove.



(4) Fix HDD into HDD BRACKET using Screws included.

.



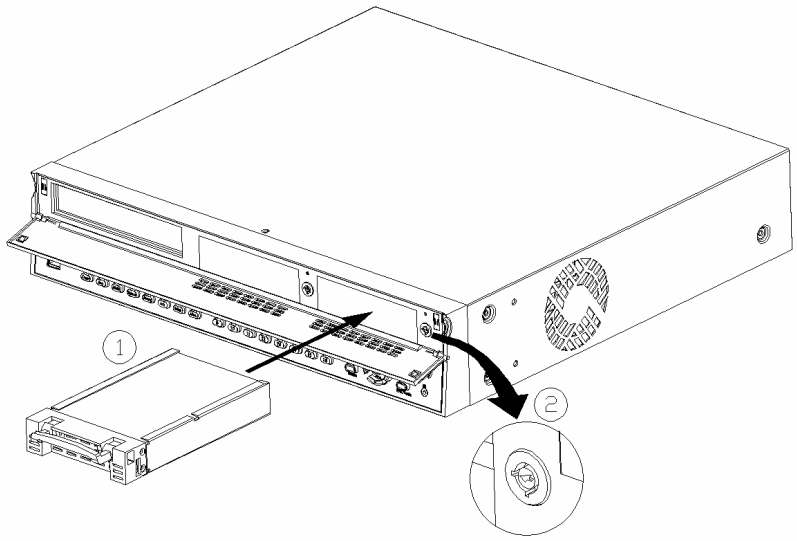
Download from Www.Somanuals.com. All Manuals Search And Download.

<Note>

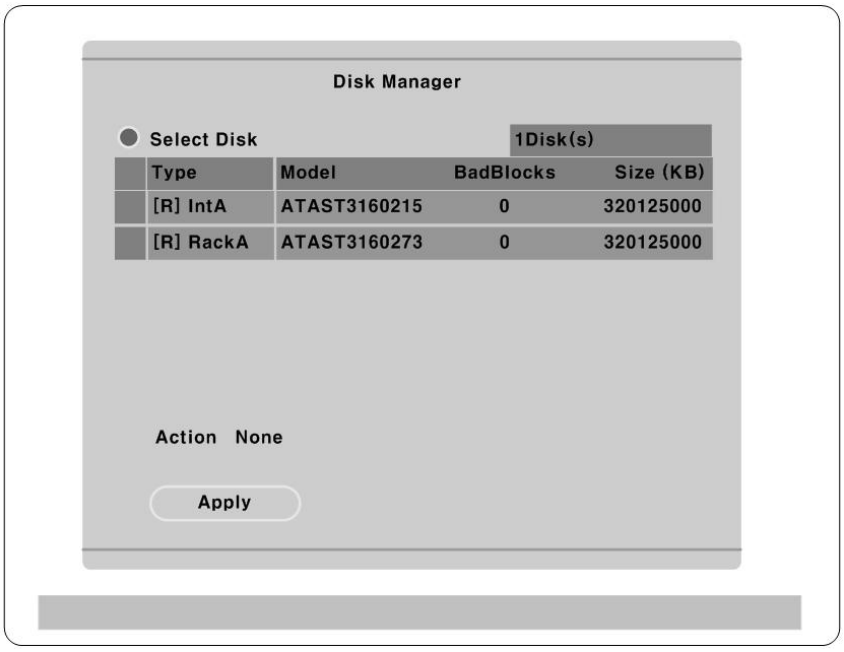
When assemble HDD, the base of HDD should be HDD below.

(5) After insertion of BRAKET that HDD installed to RACK, take the handle down to fix.

(6) Rock HDD-RACK using KEY to complete installation



When installing one primary disk



Download from Www.Somanuals.com. All Manuals Search And Download.

(1) When power is supplied to MD3200M, “Disk Manager” runs automatically after rebooting. If not, run it manually in “Menu→Utility→Disk Manager”.
(2) There is a HDD that is indicated as “[F] IntA”. Select it.
(3) Select “Action” as “Add”, configure a size of alarm partition, and press “Apply” button. Then [F] is changed to [R].
(4) Press the [EXIT] button to shut down “Disk Manager”. (If recording schedule is set, MD3200M will start recording.)

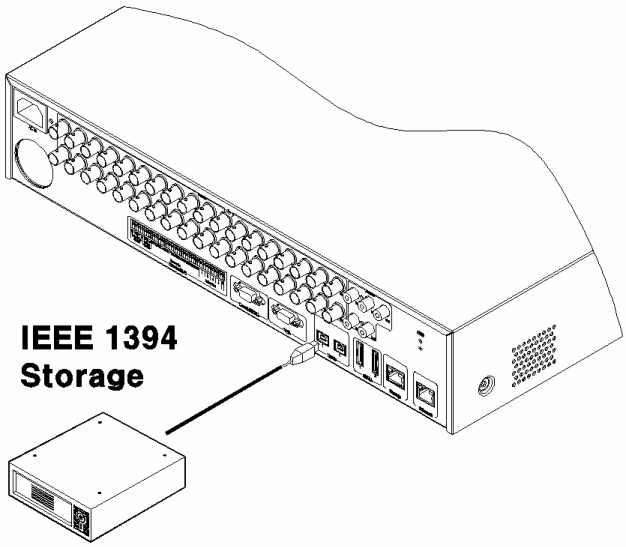
Expending External HDD (When using internal HDD as primary disk)

MD3200M use IEEE1394, eSATA, NVS04 as external storage device interface, and has two ports (Front: 1port , Rear: 1port) of IEEE1394, eSATA, NVS04. MD3200M supports upto 8TB storage.

<Note>

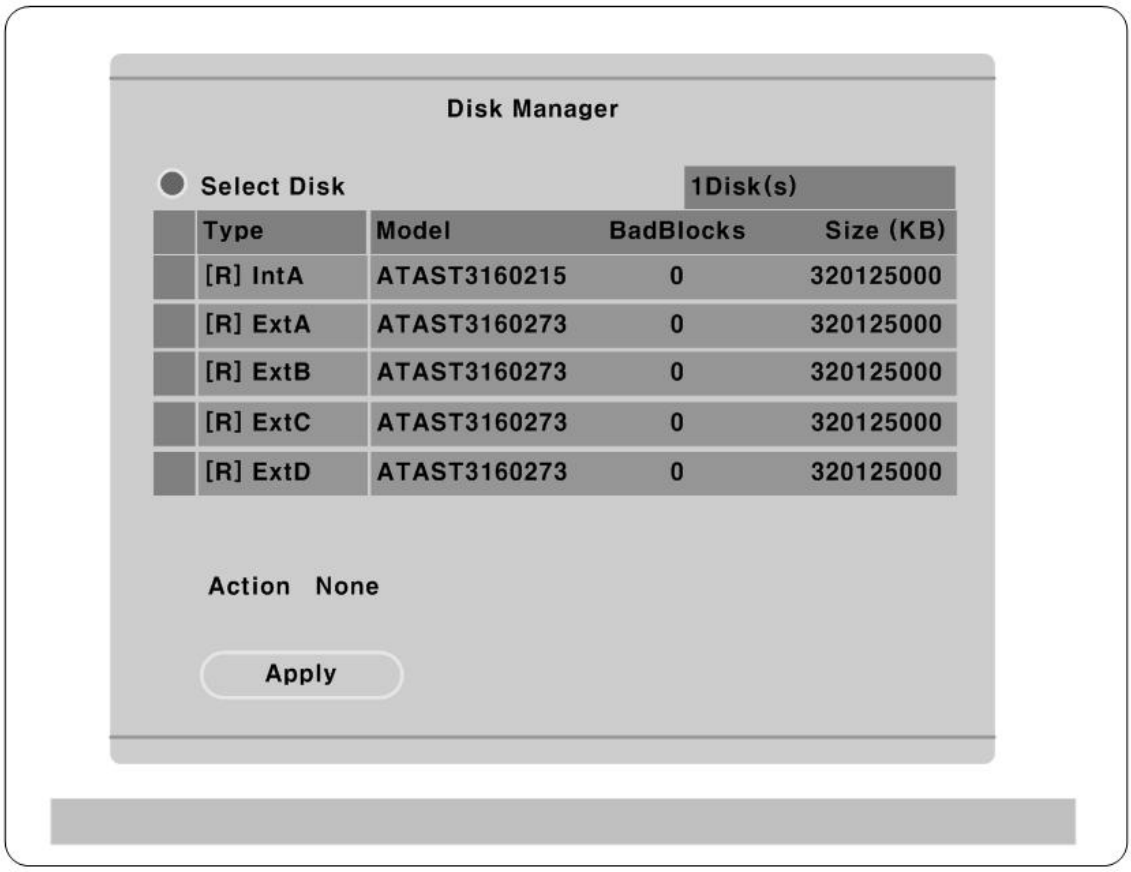
1. Some IEEE1394, eSATA ports may not be recognized by the MD3200M. Before purchasing, consult the local WEBGATE distributor.
2. External storage should use external power.
3. For connection and setup of IEEE1394, eSATA, NVS04, please refer to the manual of related device.

Connect IEEE1394 interface cable as follows.



Download from Www.Somanuals.com. All Manuals Search And Download.

When using Disk Farm



The following description is when MD3200M has internal primary disk and 3 sets of IEEE1394 HDD.

(1) When external HDD farm is connected to IEEE1394 port, "Disk Manager" runs automatically. If not, run it manually in "Menu→Utility→Disk Manager".

(2) Select a second HDD of [F] Ext. Press the "Apply" button after selecting action as "Add". Then [F] is changed to [R].

<Note>

If connecting the device that is used in MD3200M, type will be indicated as [V].

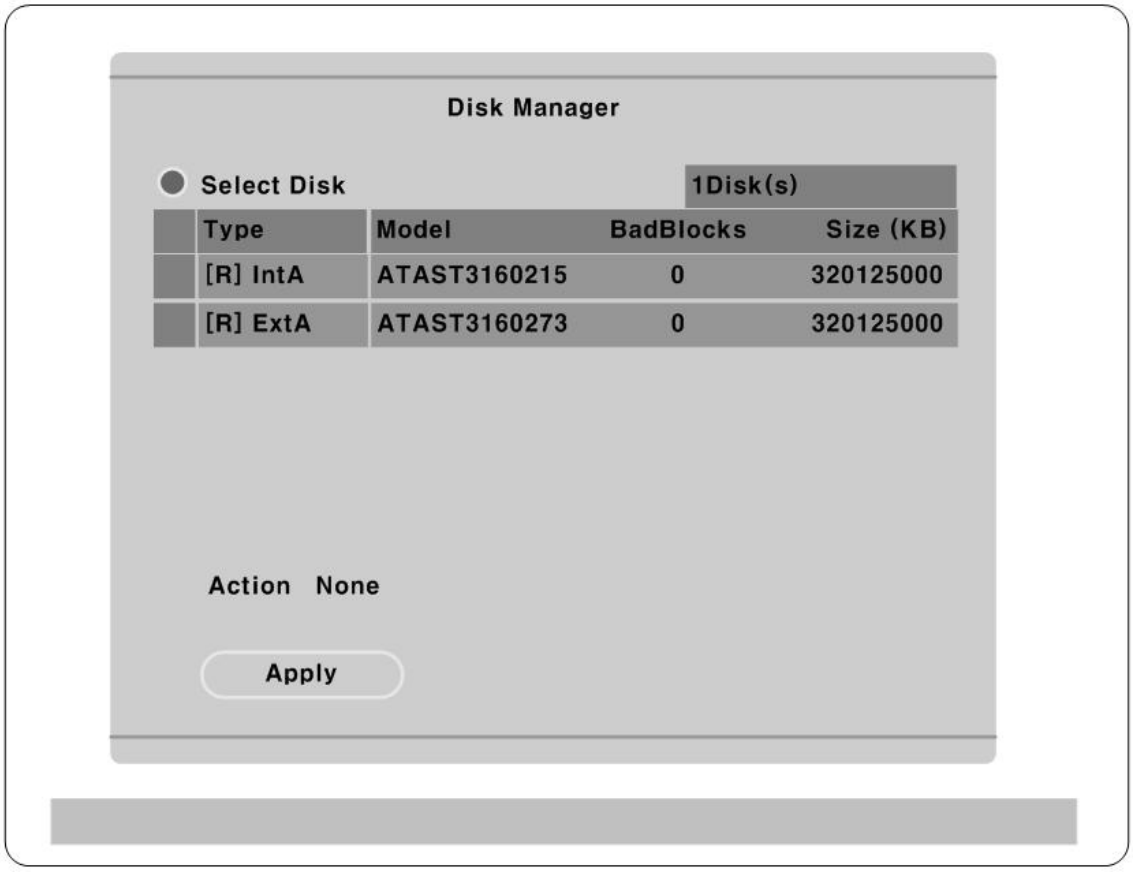
(3) Select a third HDD of [F] Ext. Press the "Apply" button after selecting action as "Add". Then [F] is changed to [R].

(4) Select a fourth HDD of [F] Ext. Press the "Apply" button after selecting action as "Add". Then [F] is changed to [R].

(5) Press the [EXIT] button to shut down "Disk Manager".

Download from Www.Somanuals.com. All Manuals Search And Download.

When using RAID



The following description is when MD3200M has internal primary disk and 1 set of IEEE1394 RAID.

<Note RAID>

Even though several HDDs are connected to RAID, MD3200M will recognize them as only one HDD. For connection and setup of RAID, please refer to the manual of related device.

(1) When external HDD RAID is connected to IEEE1394 port, "Disk Manager" runs automatically. If not, run it manually in "Menu→Utility→Disk Manager".

(2) Select a second HDD of [F] Ext and configure a size of alarm partition. Press the "Apply" button after selecting action as "Add". Then [F] is changed to [R].

<Note>

If connecting the device that is used in MD3200M, type will be indicated as [V].

(3) Press the [EXIT] button to shut down "Disk Manager".

Download from Www.Somanuals.com. All Manuals Search And Download.

Replacing HDD

Checking HDD

MD3200M file system (VFS2) sensors bad sector automatically, and the sensored bad sector is not used.

The following means when HDD is broken or has some problem in connection.

(1) When playback is stopped or MD3200M is rebooted in specific playback range or image searching per event is impossible.

(2) When recording is stopped and “Disk Manager” shows HDD type as [X].

When disk is broken

In case of not reading or writing a disk comes from physical error or occuring a bad sector at the beginning of a disk, it is decided as a disk error.

In case of being other disk inside eDVR or able to storage a data, it is recorded at the next disk.

Simultaneously, it notifies bad disk marked as [X] to a user popping up eDVR disk manager.

Keeping Data

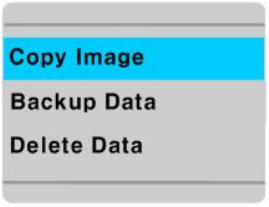
To keep the stored data by the fixed time or semi permanently, you should back up or reserve as HDD itself.

Backup

(1) Connect backup HDD to IEEE1394 port.

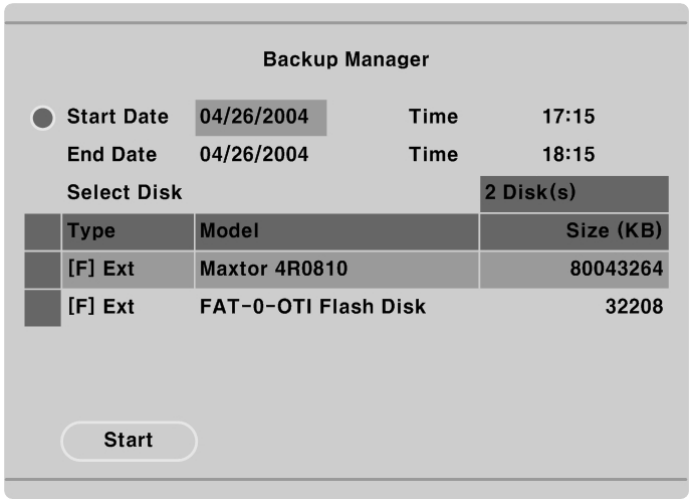
(2) Go to playback mode with pressing the [Playback] button.

(3) Press the [SELECT] button and then [MENU] button.



(4) Run “Backup Manager” with selecting the “Backup Data” menu.

Download from Www.Somanuals.com. All Manuals Search And Download.



(5) Set backup range and press the “Start” button after selecting backup HDD.

<Note>

1. Backup HDD should be formatted as FAT32 type.
2. Backup data can be replayed with specific S/W in PC such as Control Center Lite-D or MiniPlayer.
3. Backup data is made as “*.re4” file and recognized as CD-R 700MB / DVD-R 4G per each file.
4. Support CD-R backup and should be over CD-R 700MB / DVD-R 4G media.
5. In course of backup, “Auto Delete” function doesn’t run. If HDD is full, recording may be stopped instantly.
6. For more detailed information of Control Center Lite-D’s backup, please refer to the “eDVR User’s Guide”.

Download from Www.Somanuals.com. All Manuals Search And Download.

Caution in using HDD

For handling or guaranteeing HDD, WEBGATE follows HDD guaranty condition. WEBGATE doesn't bear the responsibility about data loss by user's mistake in operating.

<Note>

Attention for the system without HDD installed

In case of system without HDD, HDD only can only be installed in R-HDD(Removable Hard disk rack).

For the internal installation of HDD additionally, For the details, please contact to local distributor.

<Note>

It supports only DVD backup. CD backup will be supported later.

For the details, please contact to local distributor.

<Note>

Attention for the system HDD-Rack

It is essentially required to use locking the RACK KEY after HDD rack installation.

It is not allowed to add HDD in Disk Manager without locking the RACK KEY.

HDD in HDD Rack could be removed or installed without power off eDVR.

It is available to use correspondent HDD in Disk Manager after installing HDD-RACK and locking the HDD-RACK during eDVR operation.

Download from Www.Somanuals.com. All Manuals Search And Download.

#2. Using CD-ROM

Components of CD- ROM disc

Installation Guide	: eDVR MD3200M Installation Guide
User's Guide	: eDVR MD3200M User's Guide
	: Control Center Lite-D User's Guide
Control Center Lite-D	(Control Center lite-D Remote Management Program)
Acrobat Reader	: Version 7.0

Preparation

To read manual of CD-ROM disc, Adobe Acrobat 7.0 should be installed in client's PC.

<Note>

If Adobe Acrobat Reader is not installed within client's PC, use the Acrobat Reader program of CD-ROM.

Reading manual of CD-ROM

Follow the steps to read User's Guide.

(1) Insert the supplied CD-ROM into CD-ROM drive of PC.

(2) Open the User's Guide with PDF file.

Download from Www.Somanuals.com. All Manuals Search And Download.

#3. How to recognize manufacturing date

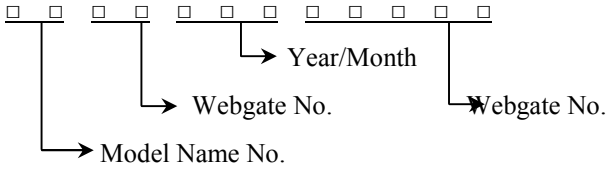
The manufacturing date by Webgate can be recognized by S/N(Serial Number) attached at the each product.

S/N : Serial Number

Management number for each Webgate product to combine twelve alphabet character and digit including model name, manufacturing year/month/week

You can see serial number by looking at the bottom of product attached label and system info of Configuration Tool.

Serial Number Format



(1) 1~2 digits : Identify Model name of product

(2) 3~8, 8~12 digits : Webgate internal number

(3) 5~6 digits : Manufacturing year

(4) 7 digits: Manufacturing month

Please see the below table for manufacturing month.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2	3	4	5	6	7	8	9	A	B	C

The example of verifying manufacturing date using serial number

The below S/N can be verified as following as:

『 D60507B22051 』

(1) “D6” means “MD3200M” product

(2) “07B” means that it was manufactured on November of 2007

Download from Www.Somanuals.com. All Manuals Search And Download.

#4. Specification

General

CPU	32bit RISC Processor
Flash memory	32MB
Main memory	256MB
OS	Embedded LINUX
Video channel	32Ch. analog video inputs via BNC connector
	NTSC or PAL video format are supported (Auto detect)
Storage device	Int.: 4 HDD bays including 2 hot swap-bay
	Ext: 2 IEEE 1394b (FireWire) connection ports*
	2 eSATA connection ports
	1 Network Storage port (RJ45)*
	Supports Disk management tool for all disks.
	Total manageable capacity: 8 TB
Intelligent file system	Data-loss protection against power failure

* under development

Image compression and Recording

Technology		MPEG-4, JPEG(Remote monitoring only)
Image quality level		5 Level (Q1 ~ Q5)
Recording speed		Max. 480ips(NTSC) / 400ips(PAL) @ D1 Resolution
monitor	**(Playback speed)**	Total 60ips(NTSC)/50ips(PAL)
	(Performance)	1/4/9/16ch
		1x, 2x, 4x, 8x, 16x, 32x, 64x (Forward/Reverse playback)
Resolution		CIF : 352 x 240 / 352 x 288
		Half D1 : 704 x 240 / 704 x 288
		D1 : 704 x 480 / 704 x 576
Motion Detection Grid		22x15(NTSC)/22x18(PAL)
Playback search		Instant Playback by time and event
		Step-forward, Step-reverse playback
Alarm trigger		Motion detection, Sensor input or Text input
Alarm log record		Log search
		Log monitoring via OSD & Network
Pre/Post alarm		Pre : 0~5 seconds
		Post : 0~60 seconds

Download from Www.Somanuals.com. All Manuals Search And Download.

Schedule recording	Daily : Day / Night / Four-segment time frame Weekly : Weekdays / Weekends, Exception days Conditions : Normal / Event
Text Data recording	POS/ATM transaction information archived along with corresponding video data
Manual recording	Manual(Emergency) record triggered by font key

Audio Recording & Playback

Recording level	-7~8 (16 step) recording level
Monitoring	Support remote monitoring and two way audio

Network

Program	Control Center Lite-D (Bundle) Support Control Center series CMS S/W and WESP SDK
Protocol	TCP/IP, ARP, ICMP, DHCP, PPPoE
Connection 1	10/100Mbps Ethernet (RJ-45)
Connection 2	10/100/1000 Gigabit Ethernet for storage expension
S/W upgrade	Firmware upgrade via Network and USB
Simultaneous users	Monitoring : Max. 5 users Playback : Max. 2 users
Security	Password (User or Administrator authentication)

Monitor Output

Monitor 1	Max. 960 field/sec 1ch, 4ch, 9ch, 16ch , Auto & User Defined Sequence 1 CVBS and 1 VGA output True color OSD
Monitor 2~4	Max. 960 field/sec 1ch, 4ch, 9ch, 16ch , Auto & User Defined Sequence 1 CVBS output True color OSD
Alarm Pup-up	Triggered by recording event
Digital zoom	2x (Live mode)

Environment

Operation temperature	5 ~ 45℃

Download from Www.Somanuals.com. All Manuals Search And Download.

Storage temperature	-10 ~ 55℃
Operation humidity	30~80%, free of condensation
Storage humidity	93% below, free of condensation

Data Backup/Expansion/Copy

Data backup	External HDD(via 1394b or eSATA)
	Internal CD-R/DVD-R
Backup reminder	5~ 95% alarm
AVI Copy	External USB memory disk(USB 1.1 compatible) on USB port

Input/Output

Video Output	4 CVBS main monitor
	1 VGA
Audio	4 Input : Line-in, 1 Vpp
	1 Output : Line-out, 1Vpp
Buzzer	Software-controlled 1 internal buzzer
Digital output	Software-controlled 4 relay outputs(Max 125VAC/60VDC)
Digital output schedule	Daily : Day / Night / Four-segment time frame
	Weekly : Weekdays / Weekends
	Conditions : MD, Sensor, Text inputs
Sensor input	Software-controlled 16 sensor inputs (Support dry contact)
Serial port	RS232(2),RS485(2)

PTZ control

Control method (local)	Front panel button & IR remote controller
Control method (remote)	On-the-screen PTZ control on PC
	Return home position support
Preset mode	16 points preset per channel
	16 auxiliary function

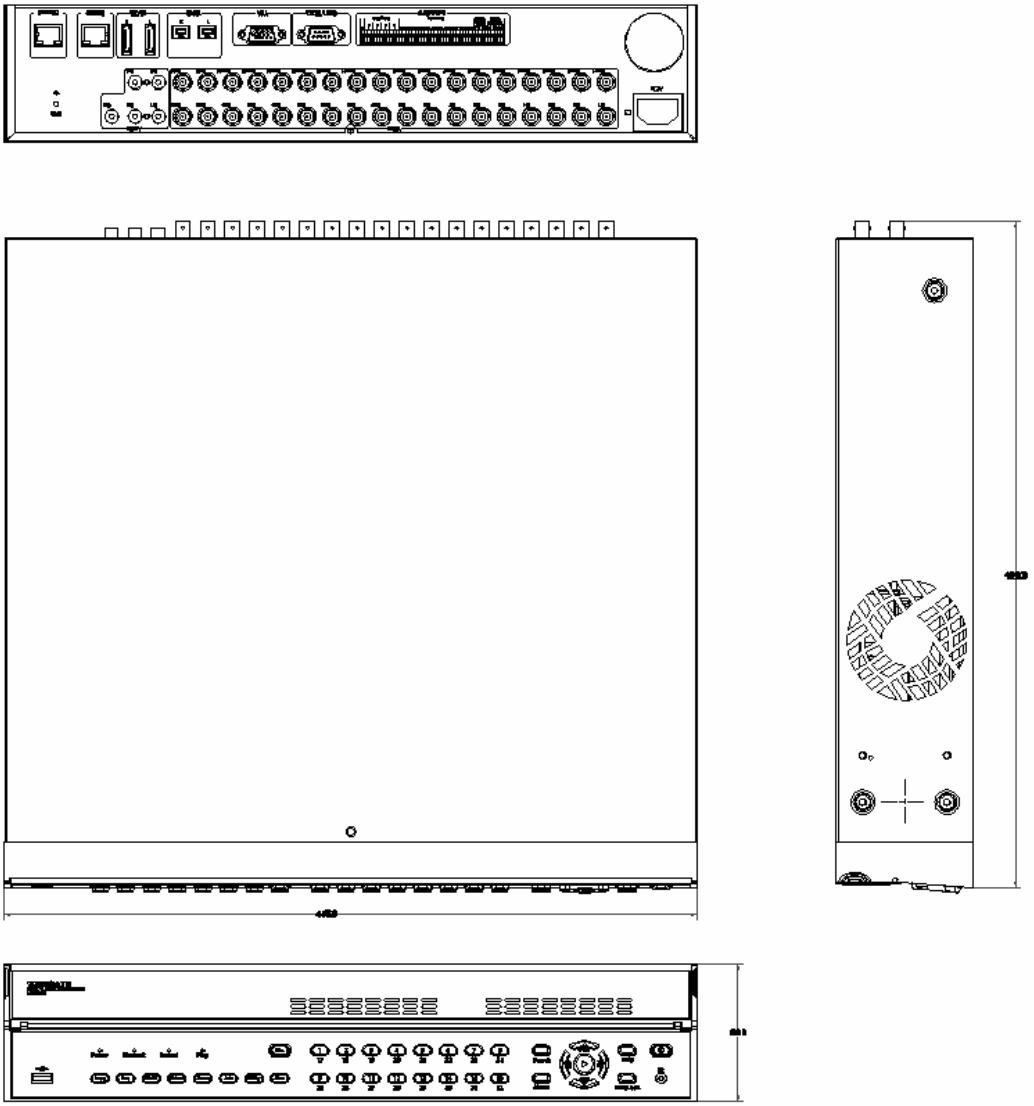
Electricity

Power (applied adaptor)	AC free volt (100~240VAC)
Power consumption	Max. 85W
	Typical 60W

Download from Www.Somanuals.com. All Manuals Search And Download.

Mechanical

Dimension (W x D x H)	430.0 x 362.0 x 88.0 mm
Weight	5.5 kg (with one HDD)



Download from Www.Somanuals.com. All Manuals Search And Download.

PelikanCam

555 West Lambert Road, Suite A

Brea, CA 92821

Tel : (714) 672-0333

Fax : (714) 672-0360

sales@pelikancam.com

www.pelikancam.com

The contents of this manual can be modified in accordance with Firmware or Software upgrade. In the interest of continually improving products, approval & outlook can be modified without prior notice

Download from Www.Somanuals.com. All Manuals Search And Download.

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com