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# **MPEG-4 DVR OSD Menu Setup Guide**

Version 1.7

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## Menu System Overview

The detailed functions and settings of **MPEG-4 DVR** series can be set using the hierarchical OSD menu. This chapter particularizes the items and options in the OSD menu.

To enter the Main Menu, press MENU and then enter Administrator or User password. The default passwords are shown in the following table. The same default passwords are used for entering the remote viewing software **DVRRemote**.

Administrator Password	User Password
1 2 3 4	4 3 2 1

It is strongly suggested to change the passwords to prevent unauthorized access to the unit. After entering the correct password, the Main Menu is displayed.

Main Menu
1. System Setup
2. Monitor Setup
3. Camera Setup
4. Record Setup
5. Sequence Setup
6. Event Setup
7. Database Setup
8. Configuration
9. Video Export
10. Text Setup
11. Shutdown

### < Key Usage >

The key usage differs under the OSD Setup Menu and in the Virtual keyboard, which can be seen while setting some items, such as Unit Name and IP Address, in the OSD Setup Menu.

#### ■ **Key Usage in OSD Menu**

Below introduce some keys used frequently to set up the unit via the OSD Setup Menu.

**<Direction Key>**

In the OSD menu, Direction keys are used to move the cursor to previous or next fields. UP / DOWN are used to change the value in the selected field.

**<ENTER>**

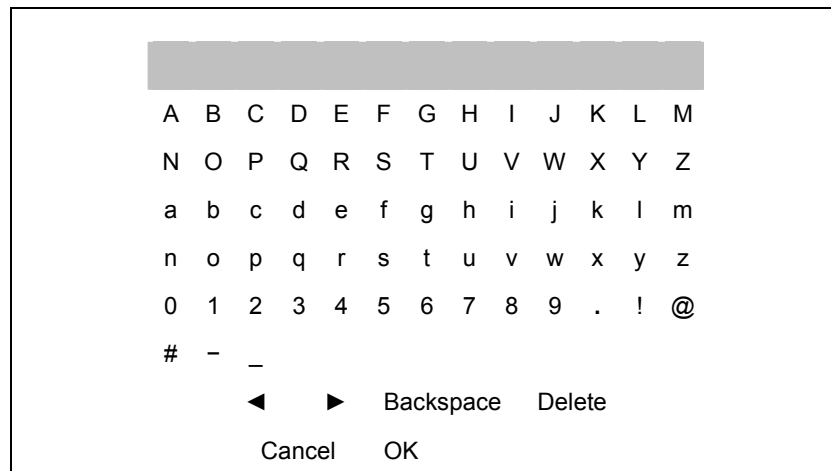
In OSD menu or selection interface, press the key to make selection or save settings.

**<ESC>**

Press to cancel or exit from certain OSD menu without saving any changes.

**■ *Key Usage in Virtual Keyboard***

A virtual keyboard shows when edit the settings, such as camera title, e-mail address, etc. The virtual keyboard displays as follows.

**<To input characters>**

Move the cursor by pressing Direction keys and press ENTER to select characters.

**<To move the cursor in title entry>**

Press MODE and LEFT / RIGHT simultaneously to move the cursor to left / right in the title entry.

**<To delete previous character>**

Select <Backspace> and press ENTER, or press MODE and UP simultaneously.

**<To delete current character>**

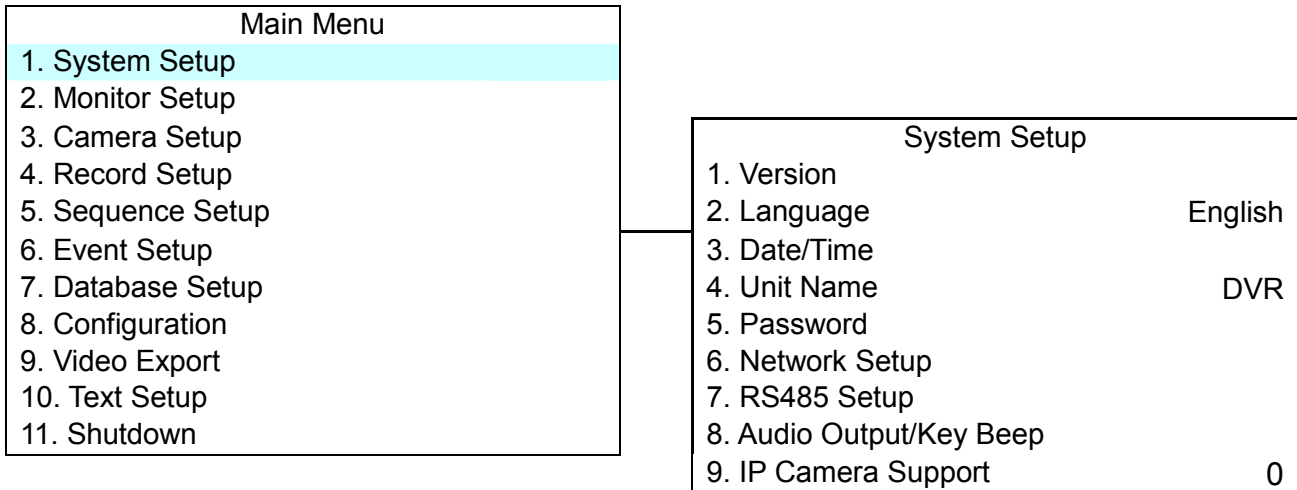
Select <Delete> and press ENTER, or press MODE and DOWN simultaneously.

**<To exit the virtual keyboard>**

Select <OK> and press ENTER to save the settings and exit, or press ESC to exit without saving changes

## System Setup

Select <System Setup> from the Main Menu and press ENTER to enter the System Setup menu.



The items in the System Setup menu are described in the following sections.

### < Version >

The Version menu allows user to view system information such as hardware and software version. From the System Setup menu, select <Version> and press ENTER. The following menu is displayed. The first three items, including <Model Name>, <Hardware> and <Software>, are for read only, which CANNOT be changed.

Version	
Model Name	****
Hardware	C3-A1-A8
Software	XXXX-XXXX-XXXX-XXXX
Software Upgrade via Local Device	
Software Upgrade via Internet	

The items in this menu are described in the following subsections.

#### ■ **Model Name**

This item shows the model name of the unit.

#### ■ **Hardware Version**

The item identifies the hardware version for this unit.

## ■ **Software Version**

The item identifies the software version installed on this unit.

## ■ **Software Upgrade via Local Device**

This item is used for updating the **MPEG-4 DVR** series software by local device. The menu is displayed as follows.

Software Upgrade via Local Device	
Upgrade Version xxxx-xxxx-xxxx-xxxx	Select NO

Connect an USB drive contains upgrade software to the unit; the available upgrade files will be listed in the menu. To update the system, select a file and use UP / DOWN keys to choose <YES>. Press ENTER to confirm the selection and start the upgrade process. The **MPEG-4 DVR** series unit uploads the software, updates the system files, and reboots automatically.

The upgrade may take several minutes to save the changes in the memory of the system. After reboot the unit, please check the software version again.



**NOTE:** No power interruption is allowed during the software update. Ensure that no power interruption can occur until the unit is completely rebooted.



**NOTE:** Do not remove the external USB ThumbDrive<sup>®</sup> / CD-ROM before the unit has completely shut down (hard drive and fan are off). Removing the external USB ThumbDrive<sup>®</sup> / CD-ROM before shut down can cause the system to update improperly.

## ■ **Software Upgrade via Internet**

The item is used to upgrade the unit's software via the internet. Select one of the listed software versions and choose <YES>. The **MPEG-4 DVR** series uploads the software, updates the system files, and reboots automatically.

## < Language >

The Language item allows user to select the language for the OSD menu and screen messages. Language selection takes effect immediately when the selection is done. Press UP / DOWN to select from listed languages and press ENTER to confirm.

## < Date / Time >

Users can set the current date, time and other OSD parameters in this menu. The Administrator's privileges are required for entering the submenu. In System Setup menu, select <Date/Time> and press ENTER; the Date/Time menu displays as follows.

Date/Time	
1. Date	2005/02/21
2. Time	PM10:39:26
3. Time Zone	OFF
4. Date/Time Display	1 Row
5. Date Display Mode	Y/M/D
6. Time Display Mode	24 HR
7. Date/Time Order	Date First
8. Daylight Saving Time Setup	
9. Network Time Protocol Setup	



**NOTE:** The reset date / time setting applies to record new video, the date and time of previously recorded video will not be changed.



**NOTE:** To avoid record database corruption, after changing Date/Time setting, clear the database is recommended.

### ■ **Date / Time Setting**

Select <Date> or <Time> and press ENTER for adjusting the settings. LEFT / RIGHT keys are used to move the cursor to previous or next field, ENTER is for selecting, and UP / DOWN are used to change the value in the selected field.

### ■ **Time Zone**

Select <Time Zone> to enter the time zone. To find out your local time zone, please visit [www.greenwichmeantime.com](http://www.greenwichmeantime.com)



**NOTE:** The <Time Zone> must be set to your local time zone or the <Network Time Protocol Setup> will not be accessible.

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## ■ ***Date / Time Display***

Users are allowed to choose to set the date / time OSD displays in 1 or 2 rows. Use the UP / DOWN keys to change the setting. The default is to display the date / time OSD in one row.

## ■ ***Date Display Mode***

This function allows user to set the OSD display type of the date / time. There are three options to select from: <Y/M/D>, <M/D/Y> or <D/M/Y>. “Y” represents “Year”, “M” represents “Month” and “D” represents “Day”.

Use UP / DOWN keys to change the setting. The default setting is <Y/M/D> in both NTSC / PAL formats.

## ■ ***Time Display Mode***

User can choose to set the time format to <12 hour> or <24 hour>. Use the UP / DOWN keys to change the format. The default setting is <24 hour>.

## ■ ***Date/Time Order***

The item is used to set the order of Date/Time display to <Date First> or <Time First>. Select this item and press ENTER, then use UP / DOWN keys to change the setting.

## ■ ***Daylight Saving Time***

The item is for people who live in certain regions to observe Daylight Saving Time. Select <ON> to enable, or <OFF> to disable the function.

If the function is disabled, the DST Start / End time and DST Bias will be grayed out and cannot be accessed. If this function is enabled, the date/time information will be shown on the screen with a DST icon when playing back recorded video or searching video in the event list. “S” indicates summer time and “W” indicates wintertime.

## ■ Network Time Protocol Setup

After entering the time zone, the <Network Time Protocol Setup> option will appear. Select the <Network Time Protocol Setup> to set the time server. The default time server is time.nist.gov, but the user can change it to other time servers when desired. A list of IP addresses of the time servers is listed below.

129.6.15.28	129.6.15.29	132.163.4.101
132.163.4.102	132.163.4.103	128.138.140.44
192.43.244.18	131.107.1.10	69.25.96.13
206.246.118.250	208.184.49.9	64.125.78.85
207.200.81.113	64.236.96.53	68.216.79.113

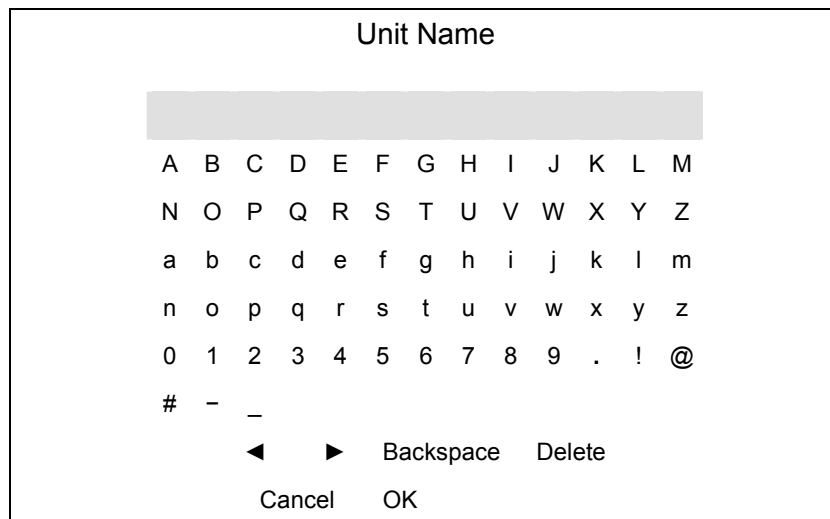
After the time server is set, select <Manually Time Sync> to sync the time. The time sync can also be updated periodically. Select <Automatically Time Sync>, and choose a desired time gap to sync the time.

## < Unit Name >

Users are allowed to assign a name, up to 11 characters, to the **MPEG-4 DVR** series unit.

Follow the steps to edit the unit name.

- Select <Unit Name> from System Setup menu and press ENTER. A virtual keyboard displays.



- Use Direction keys to move the cursor to the wanted character.
- Press ENTER to add the character to the entry field (up to 11 characters).
- When done, move the cursor to <OK> and press ENTER to save the settings and exit.

## < Password >

The Password menu allows administrator to change the password settings for accessing the unit. Select <Password> in System Setup menu and press ENTER; the menu displays as follows.

Password	
1. Admin1 Password	
2. User1 Password	
3. Admin2 Password	
4. User2 Password	
5. Admin3 Password	
6. User3 Password	
7. Enable Password	Yes
9. Load Factory Password	None

### ■ **Setup Admin / User Password**

Only the administrator is allowed to change the user and administrator passwords to any 4~8 digit number. Use the UP / DOWN Direction keys to select the desired account and press ENTER, the following menu is displayed.

Admin Password
_____
Press Channel Keys To Enter Password (4-8 Digits) Press ◀ To Delete

Use CHANNEL keys to input the new password and confirm the new password. After setting the new password, press ENTER to save the settings and exit.

### ■ **Enable Password**

The item is used to determine if the password is required for accessing the OSD menu. Select <YES> to demand entering password when accessing the OSD menu; if not, select <NO>.

### ■ **Load Factory Password**

This item allows the administrator to reload the factory password in case that the administrator cannot remember the password. There are four options to select from: <Admin> (reload the Admin password only), <User> (reload the User password only), <Both> (reload the Admin and User passwords) and <None>. The factory password is 1234 for administrator and 4321 for user.

## < Network Setup >

The Network Setup menu allows the administrator to configure the network by specifying the network related settings, such as IP address and Netmask, etc.

See your network administrator and/or network service provider for more specific information.

From the System Setup menu, select <Network Setup> and press ENTER. The following menu displays.

Network Setup	
1. LAN Select	LAN
2. LAN Setup	
3. Wireless Network Setup	
4. Dial-in Setup	
5. Dial-out Setup	
6. Dial Port Selection	None
7. Trigger Port	80
8. Email Address	
9. SMTP Setup	
10. DDNS Setup	

Items in this menu are described in the following sections.

### ■ **LAN Select**

PPPoE stands for Point-to-Point Protocol over Ethernet, which is a specification for connecting the users on an Ethernet to the Internet through a common broadband medium.

This item allows you to select your service type between <LAN>, <PPPoE> or <None>; if you are using an intranet for communication, please select <LAN>, if you are using a broadband medium, such as DSL Line or cable modem, please select <PPPoE>.

If <None> is selected, then there is no need to set further LAN/PPPoE setting, therefore, the second item <LAN Setup> will not be accessible.

## ■ LAN Setup

The network related settings in the LAN Setup menu should be associated with the network service type. If you select <LAN> for <LAN Select>, then 6<sup>th</sup> to 8<sup>th</sup> item will not be available.

Select <LAN Setup> in Network Setup menu and press ENTER for setting the parameters; the menu displays as follows.

LAN Setup		
1. DHCP		OFF
2. IP		192.168.1.150
3. Netmask		255.255.255.0
4. Gateway		192.168.1.1
5. DNS		0.0.0.0
6. PPPoE Account		
7. PPPoE Password		
8. PPPoE Max Idle		35min
9. Connect At Booting		YES
10. Network Restart		NO

### - DHCP

This item allows user to obtain a dynamic IP address from DHCP (Dynamic Host Configuration Protocol) server during the unit boots up. When using DHCP, the settings are dynamic and they will change every time you power up and power off the unit, depending on your network's setup.

If the item is enabled (ON), a dynamic IP will be assigned to **MPEG-4 DVR** series unit. In this case, user does not need to configure a static IP and the Ethernet settings including IP address, Netmask, Gateway, and DNS settings will be read only. The default setting is <ON>.

If you are using permanent addressing, set DHCP to <OFF> for setting the IP Address, Netmask, Gateway, and DNS. See your network system administrators or IT personnel for appropriate values for these settings.

### - IP

The item is used to configure the IP (Internet Protocol) address of the unit. The IP address is the identifier for your computer or device on a TCP/IP LAN or WAN. Please note that to set a static IP address, DHCP must be set to <OFF>.

- **Netmask**

A netmask is a 32-bit mask used to divide an IP address into subnets and specify the networks available hosts. Its value is defined by your network administrator. It takes the form as `***.***.***.***`, for example, `255.255.255.255`.

This item allows user to enter the value of the Netmask for the unit. Please note that to configure the item, DHCP must be set to `<OFF>`.

- **Gateway**

Gateway is a node on a network that serves as an entrance to another network.

Users are allowed to specify the IP address of the gateway or router associated with this unit. To configure this item, DHCP must be set to `<OFF>`.

- **DNS**

DNS is the abbreviation for “Domain Name System”, which is an Internet service that translates domain names into IP addresses. Because domain names are easier to remember.

The item allows user to specify the IP address of the Domain Name System associated with the unit. To configure this item, DHCP must be set to `<OFF>`.

If the network server is unavailable when using DHCP, the unit searches for the network server and boots up more slowly. This network search continues until it times out.

- **PPPoE Account**

The item allows user to setup the PPPoE login username.



**NOTE:** For accessing the PPPoE settings, select `<PPPoE>` as the Network Type in Network Setup menu.

To setup the login username, follow the steps:

- Select <PPPoE Account> from LAN Setup menu and press ENTER. A virtual keyboard displays.

PPPoE Account

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
0	1	2	3	4	5	6	7	8	9	.	!	@
#	-	_										

◀
▶
Backspace
Delete

Cancel
OK

- Use Direction keys to move the cursor to the wanted character.
- Press ENTER to add the character to the username entry field.
- When done, move the cursor to <OK> and press ENTER to save the settings and exit.

#### - **PPPoE Password**

The item allows user to setup the PPPoE password. Follow these steps to setup the login password.

- Select <PPPoE Password> from LAN Setup menu and press ENTER. A virtual keyboard displays.
- Use Direction keys to select character.
- Press ENTER to add the selected character to the password entry field.
- When done, move the cursor to <OK> and press ENTER to save the settings and exit.

#### - **PPPoE Max Idle**

The item indicates the time that the modem connection remains active if there is no acknowledgement from the remote PC. You can select the idle time from 0 to 600 minutes. The default is 35 minutes.

**- Connect At Booting**

The unit is allowed to connect to the internet automatically when powered up. Select <YES> to connect at booting, otherwise select <NO>.

**- Network Restart**

Network restart is required after changing network settings. Select <YES> to restart the network connection.

**■ Wireless Network Setup**

A wireless network consists of a number of computers, which are equipped with wireless networking interface card, respectively. Each of these computers can communicate directly with all of the other wireless enabled computers.

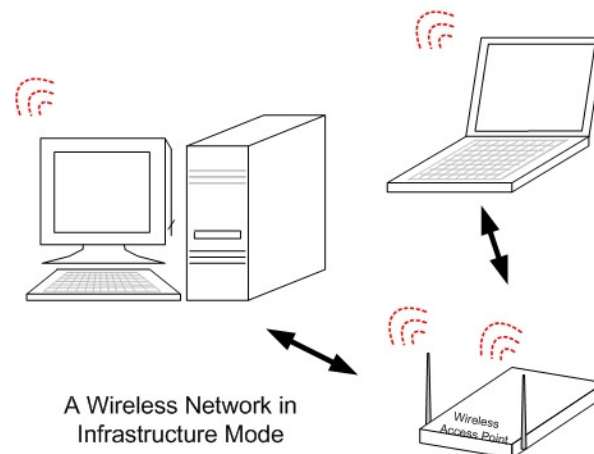
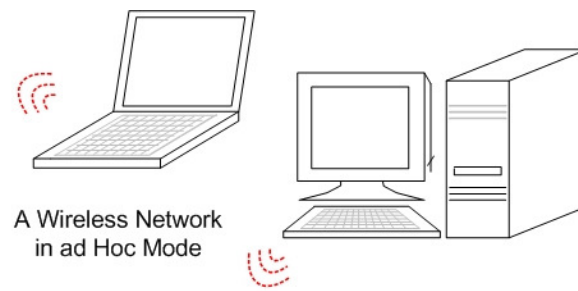
Select <Wireless Network Setup>, which is under <Network Setup> Menu, and press ENTER, the menu displays as below.

Wireless Network Setup	
1. Operating Mode	Infrastructure
2. Choose A Wireless Network	
3. Network Name (ESSID)	DynaCo...
4. Network Authentication	Shared
5. Data Encryption	Disable
6. Data Encryption Level	64bits
7. Key Index	1
8. Enter Network Key	xxxxxxxxxx
9. Network Setting	
10. Connect	No

**- Operating Mode**

Devices in a wireless network are set up to either communicate indirectly through a central place -- an Access Point (AP); or directly, one to the other. The first is called "Infrastructure Mode" and the other is called "Ad Hoc Mode" (it's also called peer-to-peer).

Ad Hoc Mode does not require an Access Point, it's easier to set up, especially in a small or temporary network.



**NOTE:** You may select either mode for your wireless network, however, all devices communicating directly with each other must use the same mode.

### - Choose A Wireless Network

This function enables the unit to scan for any wireless network in the surrounding area and list them on the table, shown as below figure:

Choose A Wireless Network		
Mode	ESSID	ENCRYPT
Infrastructure	Wireless-ap	OFF
Infrastructure	zeroneoffice	OFF

Each wireless network is listed by operating mode, network name (ESSID) and the encrypt status. “Mode” tells the operating mode; “ESSID” tells the name of those finding wireless network; and “Encrypt” tells whether the transferring data has been encrypted.

Move the cursor over the wanted wireless network and press ENTER to select it. Once you select the wanted wireless network, some related items, such as <Operating Mode>, <Network Name> and <Data Encryption>, are already made for you.



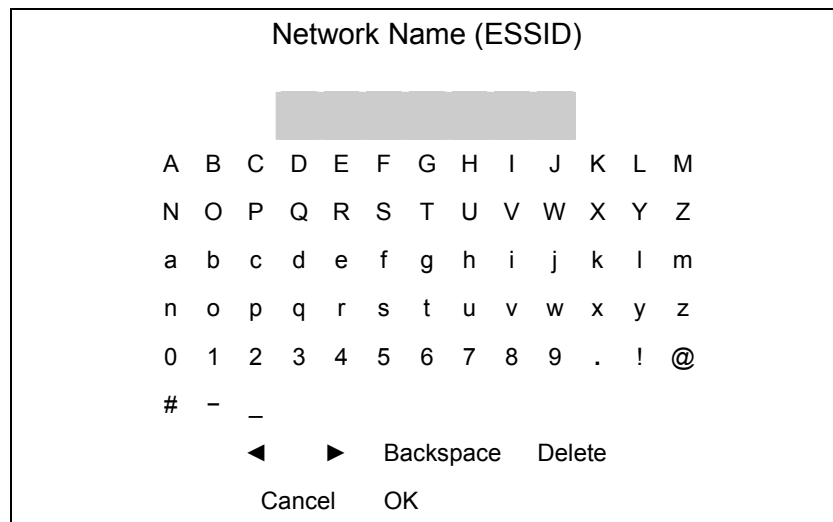
**NOTE:** A Wireless USB Adapter must be connected to the DVR before choosing a wireless network under this submenu.

**- Network Name (ESSID)**

This item is used for setting the name of a wireless network. The set name will be shared by every member of the wireless network. Note that the Network Name will be the continuous string excluding blank.

Follow these steps to set the name of a wireless network.

- In the <Wireless Network Setup> Menu, move the cursor to <Network Name (ESSID)> and press ENTER. A virtual keyboard with alphanumeric characters is displayed.



- Use Direction keys the <◀>, <▶>, <Backspace> or <Delete> to move the cursor in the title entry field.
- Use Direction keys to move the cursor through the virtual keyboard and press ENTER to add the selected character to the title entry field. Repeat the procedure till the Network Name has been established.
- When finished, move the cursor to <OK> and press ENTER to complete the setting; or, abort the setting by either ways: press ESC, or move the cursor to <Cancel> and press ENTER.

---

## - Network Authentication

For added security on the wireless network, when enabling Encryption, the Authentication type can also be selected.

If <Shared> Key is chosen, your Access Point will not be available on the wireless network except to those wireless clients that share the same WEP (short for Wired Equivalent Privacy) key.

If <Open> System is chosen, only those wireless clients with the same WEP key will be able to communicate on the wireless network, but the Access Point will be visible to all devices on the network.



**NOTE:** Wired Equivalent Privacy is a security protocol for WLANs defined in the 802.11b standard. WEP aims to provide security by encrypting data over radio waves so that it is protected as the data is transmitted from one end point to another.

## - Data Encryption

This function is used to translate the data into a secret code. Data encryption is the most effective way to achieve data security. To read an encrypted file, you must have access to a secret key or password that enables you to decrypt it.

Once you enable this function, you have to specify the secret key level (64 bits or 128 bits) and key index.

## - Data Encryption Level

This item allows you to select the data privacy algorithm you want, including 64 or 128 bits WEP type. If you select 64 or 128 bits WEP type, a set of WEP key will be generated. 128 bits WEP type provides higher secure level than 64 bits WEP type.

If <64bits> is chosen, then 10 hexadecimal digits can be entered for <Enter Network Key>; and 26 hexadecimal digits for <128bits>.



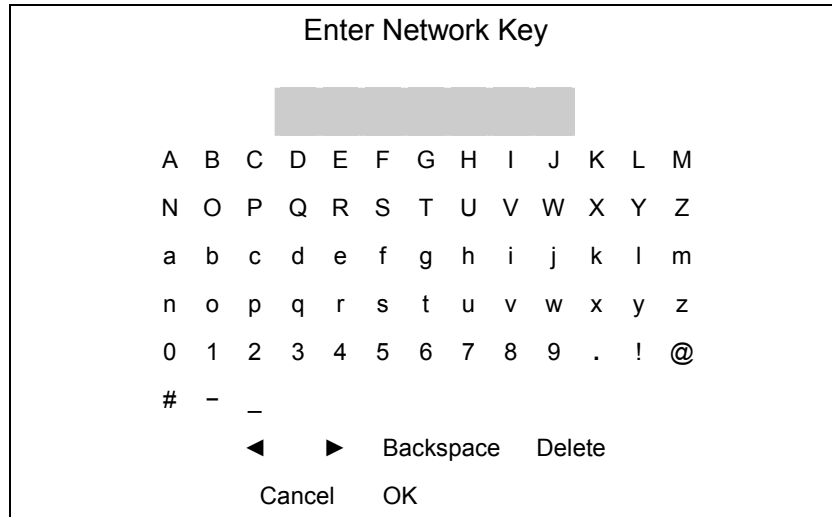
**NOTE:** A hexadecimal digit values in the range of 0~9, A~F and a~f. e.g. abcde12345.

**- Key Index**

Key index tells the location where the secret key is stored. You can select from 1 to 4. The option you select here should be corresponding to that of Wireless USB Adapter's.

**- Enter Network Key**

Entering for specifying a secret key for encryption. Select <Enter Network Key> and press ENTER, below virtual keyboard appears.



Following the setup procedures described in <Network Name (ESSID)>.



**NOTE:** If <64bits> is chosen as option for <Data Encryption Level>, then 10 hexadecimal digits can be entered; and 26 hexadecimal digits for <128bits>.

**- Network Setting**

Entering for setting the WLAN Network related settings, including <WLAN DHCP>, <WLAN IP>, <WLAN Netmask>, <WLAN Gateway> and <WLAN DNS>. Select this item and press ENTER, the sub-menu displays as below:

Network Setting		
1.	WLAN DHCP	OFF
2.	WLAN IP	192.168.70.100
3.	WLAN Netmask	255.255.255.0
4.	WLAN Gateway	0. 0. 0. 0
5.	WLAN DNS	0. 0. 0. 0

<WLAN DHCP> allows you to obtain a dynamic IP address from DHCP server. If you select <ON>, then the rest items will be assigned automatically; and if <OFF> is selected, you have to enter the rest items manually.



**NOTE:** The item <LAN Select>, which is under <Network Setup> menu, should be set to <WLAN>, otherwise, this submenu <Wireless Network Setup> cannot be accessed.

### - Connect

When settings above are done, move cursor to this item and select <YES> to activate a wireless network (if any has been detected), and <NO> to abort.

## ■ *Dial-in Setup*

The Dial-in function enables user to establish dial-up modem communication to and from **MPEG-4 DVR** series unit for the remote software use. User is allowed to connect only one modem to a **MPEG-4 DVR** series unit.

For more information on dial-up setting on PC, see [Appendix C: Dial-up Connections via Modem](#).



**NOTE:** The Dial-in Service is not available if no modem connects to the unit.

In Network Setup menu, select <Dial-in Setup> and press ENTER to enter the Dial-in menu. The menu displays as follows.

Dial-in Setup		
1. Dial-in Service		OFF
2. Dial-in Account		user
3. Dial-in Password		user
4. Server IP	192.168.0.1	
5. Client IP	192.168.0.2	
6. Dial-in Idle Time		0 Min
7. Dial-in Max Time		0 Min





















































































































































































