

Digital Entertainer Model EVA700 User Manual



NETGEAR

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FCC Statement

Declaration of Conformity

We NETGEAR,
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declare under our sole responsibility that the product(s)

EVA700 (*Model Designation*)

Digital Entertainer (*Product Name*)

complies with Part 15 of FCC Rules.

Declaration of Conformity

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or locate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Placement and Range Guidelines

Indoors, computers can connect over 802.11 wireless networks at a maximum range of several hundred feet for 802.11b/g devices. However, the operating distance or range of your wireless connection can vary significantly, based on the physical placement of the wireless access point.

For best results, identify a location for your wireless access point according to these guidelines:

- Away from potential sources of interference, such as PCs, large metal surfaces, microwaves, and 2.4 GHz cordless phones.
- In an elevated location such as a high shelf that is near the center of the wireless coverage area for all mobile devices.

Failure to follow these guidelines can result in significant performance degradation or inability to wirelessly connect to the wireless access point.

RF Exposure Warning for North America, and Australia

WARNING! To meet FCC and other national safety guidelines for RF exposure, the antennas for this device (see below) must be installed to ensure a minimum separation distance of 20cm (7.9 in.) from persons. Further, the antennas shall not be colocated with other antenna or radio transmitter.

We declare that the product is limited in CH1~CH11 by specified firmware controlled in the USA.

Industry Canada Compliance Statement

This Class B Digital apparatus meets all the requirements of the Canadian Interference Causing Equipment Regulations ICES 003.

Cet appareil numérique de classe B respecte les exigences du règlement du Canada sur le matériel brouilleur NMB-003.

IC statement

Operation is subject to the following two conditions:

- 1) This device may not cause interference and
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Règlement d'Industry Canada

Les conditions de fonctionnement sont sujettes à deux conditions:

- 1) Ce périphérique ne doit pas causer d'interférence et.
- 2) Ce périphérique doit accepter toute interférence, y compris les interférences pouvant perturber le bon fonctionnement de ce périphérique.

Certificate of the Manufacturer/Importer

It is hereby certified that the NETGEAR Digital Entertainer EVA700 has been suppressed in accordance with the conditions set out in the BMPT-AmtsblVfg 243/1991 and Vfg 46/1992. The operation of some equipment (for example, test transmitters) in accordance with the regulations may, however, be subject to certain restrictions. Please refer to the notes in the operating instructions.

Federal Office for Telecommunications Approvals has been notified of the placing of this equipment on the market and has been granted the right to test the series for compliance with the regulations.

Voluntary Control Council for Interference (VCCI) Statement

This equipment is in the second category (information equipment to be used in a residential area or an adjacent area thereto) and conforms to the standards set by the Voluntary Control Council for Interference by Data Processing Equipment and Electronic Office Machines aimed at preventing radio interference in such residential areas.

When used near a radio or TV receiver, it may become the cause of radio interference. Read instructions for correct handling.

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9. Should you have any questions relating to this Agreement, or if you desire to contact NETGEAR for any reason, please call 1-888-NETGEAR.

Customer Support

Refer to the Support Information Card that shipped with your NETGEAR Digital Entertainer EVA700.

World Wide Web

NETGEAR maintains a World Wide Web home page that you can access at the universal resource locator (URL)

<http://www.netgear.com>. A direct connection to the Internet and a Web browser such as Internet Explorer or Netscape are required.

Product and Publication Details

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About This Manual

The *Digital Entertainer Model EVA700 User Manual* describes how to install, configure, and troubleshoot the NETGEAR® digital entertainer. The information in this manual is intended for readers with basic to intermediate computer and Internet skills.

Conventions, Formats, and Scope

The conventions, formats, and scope of this manual are described in the following sections.

- **Typographical conventions.** This manual uses the following typographical conventions.

<i>Italics</i>	Emphasis, books, CDs, URL names
Bold	User input
Monospace	Screen text, file and server names, extensions, commands, IP addresses

- **Formats.** This manual uses the following formats to highlight special messages.

	Note: This format is used to highlight information of importance or special interest.
---	--

	Tip: This format is used to highlight a procedure that will save time or resources.
---	--

	Warning: Ignoring this type of note may result in a malfunction or damage to the equipment.
---	--



Danger: This is a safety warning. Failure to take heed of this notice may result in personal injury or death.

- **Scope.** This manual is written for the digital entertainer according to these specifications.

Product version	NETGEAR Digital Entertainer EVA700
Manual publication date	April 2006

Product updates are available on the NETGEAR website at <http://kbserver.netgear.com/products/EVA700.asp>.

How to Print the PDF of This Manual

A printed manual ships with this product. This manual is also provided in PDF format on the NETGEAR CD. You can print a chapter, or the full manual, according to your needs. Your computer must have the free Adobe Acrobat Reader installed in order to view and print PDF files. The Acrobat Reader is available on the Adobe website at <http://www.adobe.com>.

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 - Click the PDF of This Chapter link at the top right of any page in the chapter that you want to print. The PDF version of the chapter you were viewing opens in a browser window.
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 - Click the Complete PDF Manual link at the top left of any page in the manual. The PDF version of the manual opens in a browser window.

- Click the print icon in the upper left of the window.



Tip: If your printer supports printing two pages on a single sheet of paper, you can save paper and toner by selecting this feature.

Chapter 1

Installing Your Digital Entertainer

This chapter describes how to install the NETGEAR Digital Entertainer EVA700. For information about product features, see the NETGEAR website at <http://www.netgear.com>.

Package Contents

The product package should contain the following items:

- NETGEAR Digital Entertainer EVA700.
- Remote control (2AA batteries included).
- Power cable, localized to country of sale.
- Category 5 (CAT5) Ethernet cable.
- Composite Video cable and Audio cable.
- NETGEAR CD, including:
 - Media server software.
 - This manual.
 - The Installation Guide.
 - Application Notes and other helpful information.
- Warranty and Support Information card.

If any of the parts are incorrect, missing, or damaged, contact your NETGEAR dealer. Keep the carton, including the original packing materials, in case you need to return the digital entertainer for repair.

Front Panel

The front panel of the digital entertainer has an LED that shows when it is turned on. It also has a USB port and a jack to connect headphones.



Figure 1-1

Rear Panel

The rear panel of the digital entertainer is shown in the following illustration:

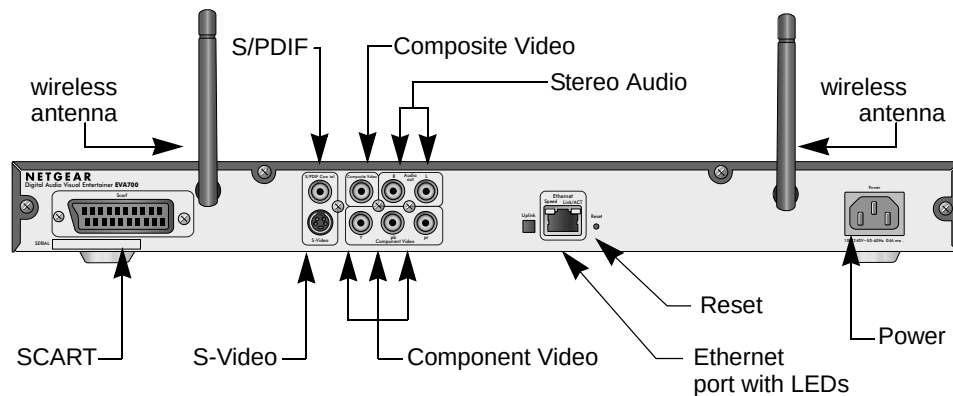


Figure 1-2

The table below describes the connections on the rear panel when viewed from left to right.

Table 1-1. Rear Panel Connectors

Connector	Description
Wireless antennas	The digital entertainer includes two wireless antennas.
SCART	This cable is widely used in Europe and Australia. Though this cable is not included in the package, the digital entertainer is compatible with this cable.
S/PDIF (Sony/Philips Digital Interface) port	This cable does not ship with the product, and you will need to change the digital entertainer settings in order to use it.
Composite Video and Stereo Audio	The composite video is included, and is compatible with most televisions in the United States.
S-Video	The audio cable is included, and is compatible with most televisions in the United States.
Component video ports	This cable is not included, but the digital entertainer is compatible with it.
Ethernet port	10/100 Mbps Ethernet port for connecting the digital entertainer to a wired local area network (LAN).
Reset button	This button resets the digital entertainer.
Power	The digital entertainer includes an internal power supply and universal power adapter.

Remote Control

Use the remote control to navigate menus, and to select and to watch videos, listen to music, or view photos on your television. The table below describes the remote control buttons.

Table 1-1.Remote Control buttons

Button	Description
Power Icon	Power
Navigation	Play/Pause
	Stop
	Rewind
	Previous
	Fast forward
	Next
OK	Select/Play
Home Icon	home menu
i	Display media information
Vol +/-	Increase or decrease volume
Page +/-	Scroll up or down
arrow	Mute
Music	Music menu
Video	Video (Movies) menu
Pics	Picture menu
Menu	Menu for settings
0-9	Numeric entry, presets and search
Caps Lock	toggle Caps Log on or off
TV Mode	Switch output mode (such as NTSC or PAL)
Repeat	Repeat a track or the entire media selection
Zoom	Changes zoom setting for video

Installation

The installation instructions vary depending on whether you have a Windows XP computer or a Viiv computer. Install the digital entertainer in the following order:

1. Connect the digital entertainer.
See “Connecting the Media Player” on page 1-5.

2. Use the NETGEAR CD to install the software.
 - For Windows XP computers, see “Installing Software with a Windows XP Computer” on page 1-7.
 - For Intel Viiv computers, see “Installing Software with a Viiv Computer” on page 1-9.
3. Set up the digital entertainer.
 - For Windows XP computers, see “Setting up the Media Player” on page 1-8.
 - For Intel Viiv computers, see

Connecting the Media Player

Before installation, make sure that your Ethernet network is up and running.

1. Go to the digital entertainer, and determine which type of cable your television uses:
 - **Video cable and Audio cable:** These two cables are included, and are compatible with most televisions in the U.S.
 - **SCART:** This cable is often used in Europe and Australia, and is not included in the package. However, if you have a SCART cable the digital entertainer recognizes it, and you can continue to use these instructions.
 - **S-Video, or Component Video:** These cables are not included in the package, and you will need to change the digital entertainer settings in order to use them.

2. For composite video, connect the supplied video cable and audio cable to the Composite Video and Stereo Audio ports on the back of the digital entertainer.

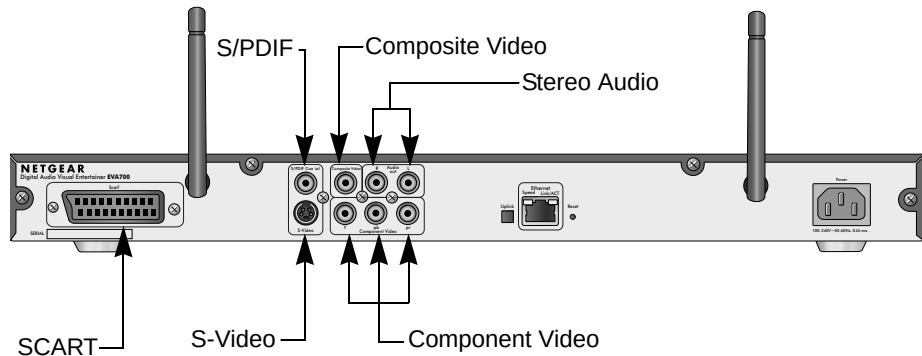


Figure 1-3

For SCART you must provide your own cable. Connect it to the SCART port on the back of the digital entertainer.

3. Connect the other end of the cables to the corresponding ports on your television. The figure below shows a sample home network with the digital entertainer.

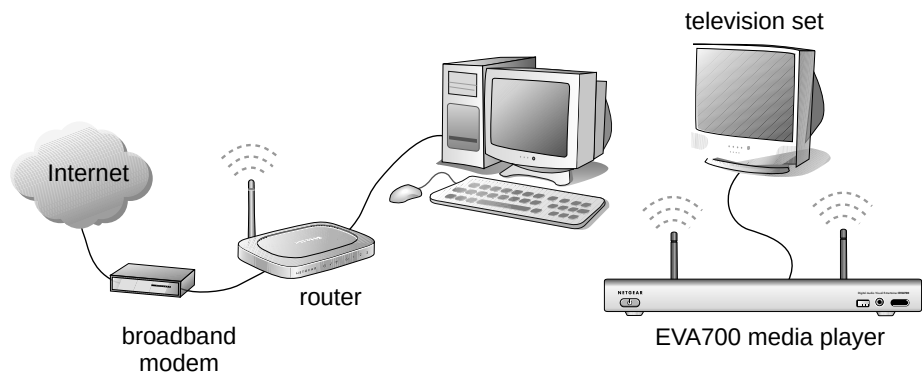


Figure 1-4

4. Connect the digital entertainer to the router with an Ethernet cable.
5. If you use digital audio equipment, such as a digital audio tape unit, connect the S/PDIF cable to the digital entertainer and to your audio equipment.

6. Install the two AA batteries into the remote control that shipped with the product.
7. Turn on the television.
8. Connect the digital entertainer power cord and plug it into an outlet.
The LED on the front of the digital entertainer lights up to show that it is powered on.
9. The first time that the digital entertainer is powered on you will be asked if your computer and router or access point use Intel Viiv technology. Select no.
The television displays a message showing the IP address for the router where the digital entertainer is connected.

Installing Software with a Windows XP Computer

After you connect the digital entertainer, install the software on your computer, and then set up the digital entertainer to work with your network and media library.

Follow these steps to install the Media Server software on a Windows XP computer.

1. Go to a computer that is on the network and log in as needed.
2. Insert the NETGEAR CD into the CD drive on the computer. The main page loads.

need screen shot of CD main page

Figure 1-5

3. Select Install Software and click Next.
4. Follow the wizard steps to install the software.
5. When prompted, click Next to install Windows Media Connect.



Figure 1-6

6. Follow the wizard steps, and click Finish when you are done.
7. Make sure that Folder Sharing in Windows Media Connect is selected.

Setting up the Media Player

The digital entertainer must be set up to work with your network and with Windows Media Connect. If you have a wireless network then you will need to know the SSID (also called the network name), and wireless security settings, if used.

Follow these steps:

1. Turn on the digital entertainer and turn on the television.
A message on the television screen asks if you want to use Viiv network setup.
2. Select no.
3. Use the remote control to select the onscreen option to allow the digital entertainer to use Windows Media Connect.
4. Use the remote control to select the desired media.

For help with troubleshooting see “Connecting to the Media Player” on page 4-2 and “IP Address” on page 4-4.

Installing Software with a Viiv Computer

After you connect the digital entertainer, follow these steps to install Media Server software onto a Viiv computer.

1. Power on your computer and log in as needed.
2. Insert the NETGEAR CD into the CD drive on the computer.
3. If you are prompted to update your computer to Viiv version 1.5, click yes and follow the onscreen instructions.

The Setup screen appears.



Figure 1-7

4. Select yes to install the software, and click next.

The main Settings screen appears.



Figure 1-8

Adding the Media Player to the Viiv Network

The media player must be added to the Viiv network.

1. Turn on the digital entertainer and the television.
2. Aim the remote control at the media player.

The television screen shows a message asking if you want to use Viiv network setup.

3. Use the remote control to select yes.
4. Go to the Viiv computer, select add a device, and then click start.

The screen asks how the device is added to the network.

5. Select connecting it to the router with an Ethernet network cable and then click next.

The software goes through a five-step process, and then shows a new device found message.

6. Click next, and when prompted to select a device type, choose media player.
7. Follow the wizard steps until you get to the device added to network screen. Click Finish.

The Viiv computer displays the update screen so that you can set up your media library.

Setting up a Media Library

To set up a media library, use the update screen shown below:



Figure 1-9

1. Choose Standard Update or Custom Update, depending on where you store your media files.
2. When prompted, choose add all media servers automatically, and then click finish.

The main Settings screen appears.

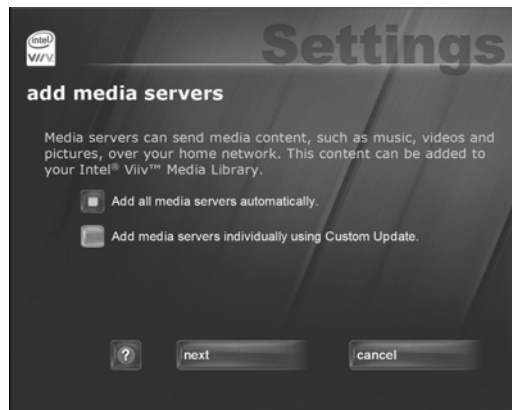


Figure 1-10

3. Go to the digital entertainer, and use the remote control to select and play your media.



Note: For more information about working with Viiv, see the Intel help and documentation.

Chapter 2

Videos, Pictures, and Music

Media Files and Formats

To play media, the digital entertainer must be connected to the network, and the media server software must be running. The media files can be stored on any computer on the network, or on a CD in the computer's CD drive. The media player locates the media in your library folders.

Table 2-2. Compatible Video and Audio Formats

Compatible File Formats	
Video Formats	• MPEG-1 VCD format (1.15 Mbps CBR) • SD and HD MPEG-2 up to 15 Mbps (using MPEG Audio, AC3, DTS audio formats) • SD and HD MPEG-4 (OpenDivX3, 4, 5.11, XviD) • SD and HD WMV9 (using WMA audio codec) • AVI audio codec: MP3, AC3, PCM, WMA, Ogg • MOV: 3ivX + MP3, 3ivX + PCM (3ivX converted from supported MPEG-4 video codec using Dr. DivX II for MAC OS) • MP4: MP4V + MP4A (AAC) (only support non-hinted MP4) • Subtitle (MicroDVD, SubRip, Sub Station Alpha, Sami)
Audio Formats	• MPEG-1 Layer 1 (MP1) • MPEG-1 Layer 2 (MP2) • MPEG-1 Layer 3 (MP3) • Ogg Vorbis (OGG) • AC3 5.1 (AC3) • Microsoft PCM Wave (WAV) • Advanced Audio Coding (AAC, ADIF, ADTS) • Apple MPEG4 AAC Audio (M4A) • Microsoft Windows Media Audio version 1 and version 2 (WMA) • Microsoft Windows Media Audio Professional (WMA Pro)

The media server software is installed from the NETGEAR CD as described in Chapter 1, "Installing Your Digital Entertainer".

Watching Videos

The digital entertainer finds the media files on your computer's hard disk, on other computers, external hard drives, or other storage devices on the network.

To watch a video, follow the steps below.

1. Turn on the television and the digital entertainer.
2. Aim the remote control at the media player and select Video Clips from the main menu displayed on the television.
3. On the Video Clip menu are the following options:
 - **Actor.** Display video clips by actor.
 - **All Video.** Display all video clips.
 - **Folder.** Display folders with video files in them.
 - **Genre.** Display video clips by genre.
4. Select the video that you want to watch.
 - You can use the Zoom button on the remote control to zoom in or out when watching a video.
 - To display information about the video, push **i** on the remote control. This option is only available when a movie is listed or playing.

Viewing Photos

The digital entertainer finds the media files on your computer's hard disk, on other computers, external hard drives, or other storage devices on the network.

Use the **Pics** button on the remote control, or select Photos Albums from the main menu.

The Photo Albums menu shows the following selections:

NEED TO DOCUMENT

- **play all:** Show all the digital photographs in alphabetical order, by file name. Select the desired photographs to view.
- **search:** Locate a specific file.

- **Slideshow:** View all photographs in a selected folder. The media player automatically displays one photo after the other. To adjust the length of time each picture is shown for a Slideshow, see “Advanced” on page 3-3.

Playing Music

The digital entertainer finds the media files on your computer’s hard disk, on other computers, external hard drives, or other storage devices on the network.

Some audio files may be stored without information in some fields, such as album or genre. If this is the case, these tracks are listed in a category called “Unknown”. For Internet Radio selections, see “Playing Music from the Internet” on page 2-4.

To play music, follow the steps below:



Tip: The **Repeat** button on the remote control lets you repeat a selection.

1. Go to the Music Jukebox menu.

You can use the Music button on the remote control to go to the Music Jukebox menu, or select Music from the main menu displayed on your television.

2. From the Music menu, choose one of the following selections:

- **Album.** Display albums in alphabetical order. You can play an entire album, or a specific song in the album.
- **All Music.** Display all music files in alphabetical order.
- **Artist.** Display music files by artist in alphabetical order.
- **Folders.** Display the folders containing music files that the media player located.
- **Genre.** Display music files by genre. The genres that are listed depend on the media files that are on your media server or Internet music server. Some formats, such as MP3 include genre. If a music file does not contain a genre, it is listed as Unknown.
- **Playlist.** Display music playlists.

3. Select the music that you want to play.

Playing Music from the Internet

You can use the digital entertainer to play Internet radio stations such as vTuner.

To play an Internet Radio station:

1. From the main menu, select Server Selection.
2. Select Live Internet Radio.
3. Select the Internet radio station that you want.
4. Scroll and select the tracks that you want to play.

Chapter 3

Media Library and Digital Entertainer Settings

This chapter describes how to adjust settings for your media library and the digital entertainer.

- For Windows XP computers, use Windows Media Connect software to manage the media library. See “Windows Media Connect Software” on page 3-1.
- For Intel Viiv computers, use Intel Viiv software to manage the media library. See “Viiv Computer Settings” on page 3-2.
- For the digital entertainer, use the digital entertainer setup menu. See “Media Player Setup Menu” on page 3-3.

Windows Media Connect Software

For Windows XP computers, the NETGEAR CD installs Windows Media Connect software. You can use it to manage your media library in two ways:

- Allow the media player to have access to your media files.
- Specify which folders contain media files that you want the digital entertainer to use.

You must add the digital entertainer and also use folder sharing in Windows Media Connect in order for the digital entertainer to have access to these files.

After installation you can start Windows Media Connect the same way as other Windows software. From Windows click Start, click All Programs, and then click Windows Media Connect.

To start sharing media files with the digital entertainer, follow these steps:

1. From Windows Media Connect, click Sharing, and then click Add.
2. Click Browse to select a folder, or type the path to the folder in the Folder box.

By default, Windows Media Connect is set to share the folders My Music and My Pictures. If there is a My Video folder it is also shared.



Note: To stop sharing for a folder, remove it from the list of shared folders.

3. Select “Make this content available to all devices.”

For information about the Windows Media Connect Devices and Settings features, see the Windows Media Connect online help.

Viiv Computer Settings

If your computer uses Intel Viiv software, you can use it to manage network tasks and your media library. The Viiv Settings screen is shown below:

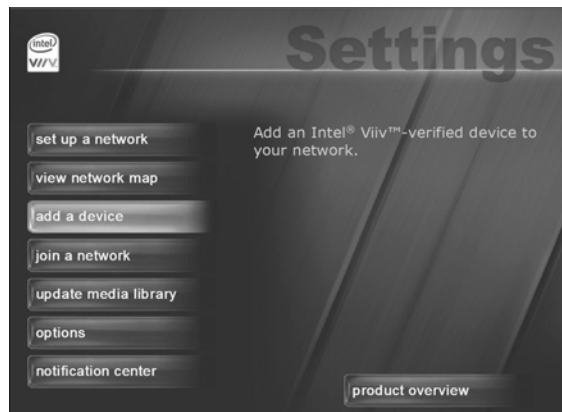


Figure 3-1

Adding a Device

On the Viiv computer, click add a device on the Settings screen.

Updating the Media Library

On the Viiv computer, click update media library on the Settings screen.

Media Player Setup Menu

The NETGEAR Digital Entertainer EVA700 has a Setup menu that can be displayed on the television screen. You can use this menu to go to the following screens:

- **Advanced.** View or change advanced settings.
- **IP Config.** View or change the IP configuration.
- **WIFI.** View or change the wireless network settings.
- **Firmware.** View the firmware level, and check for updates.

To view or change these settings, follow the steps below:

1. Use the remote control to go to the main menu on the television screen.
2. Press Menu on the remote control. The Setup button on your television screen is automatically selected.
3. Choose the menu that you want to display.

Advanced

The Advanced menu allows you to view and change the following settings:

- **Screen Saver.** The number of minutes without activity before the screen saver comes on.
- **System Language.** The language setting for the media player screen displays.
- **Encoding Language.**
- **Subtitle Language.** Some video files have subtitle tracks in different languages. This selects which one is used by default.
- **Slide Show Timer.** The number of seconds that each picture is displayed.
- **Repeat Mode.** The default setting is Repeat Off.

To change advanced settings follow these instructions.

1. Press Menu on the remote control. The Setup button on your television screen is automatically selected.
2. Select Advanced to go to the Advanced menu.
3. Use the remote control to change the settings.
4. Select one of the buttons displayed at the bottom of the television screen:
 - **Save.** Saves the changes that you made.
 - **Cancel.** Discards the changes that you made.
 - **Restore Factory Settings.** This returns the digital entertainer to its default factory settings, including network settings.



Warning: If you restore factory settings, then you will need to set up the digital entertainer again to run on your network and to access media files.

IP Config

The digital entertainer is set by default to get its IP Address via DHCP. With this setting, the DHCP server on your network assigns the IP Address to the media player, which is a client.

If your network does not use DHCP, you must set up the digital entertainer with a Static IP Address in the range of addresses on your network.

To view or change the IP Configuration, follow these steps:

1. Press Menu on the remote control.

The Setup button displayed on the television screen is automatically selected.
2. At the top of the screen, select IP Config.
3. Push OK on the remote control to adjust the following settings:
 - **Wired MAC.** The MAC address for the wired network (LAN).
 - **Wireless MAC.** The MAC address for the wireless network (if present).
 - **IP Address.**
 - **Subnet Mask.**
 - **Primary DNS.**
 - **Secondary DNS.**
 - **Default Gateway.** The default gateway address for the network.

At the bottom of the television display there are three buttons: Save, Cancel, and Switch to Manual. You can use Switch to Manual to specify the IP address.

Switch to Manual (Static IP Address)

If your network does not use DHCP, then you must set the IP Address for the media player to be in the correct subnet range for your network.

Follow the instructions below if you want to manually set the IP address (use a static IP address).

1. On the bottom of the IP Config screen, select Switch to Manual.
The Switch to Manual button at the bottom of the screen changes to Switch to Automatic.
2. Use the number buttons on the remote control to enter the IP Address. Use the OK button to save each number and move to the next field.
3. After the IP address is set, enter the subnet mask.
4. Select the onscreen Save button to save your settings.
5. When prompted, press OK on the remote control to reboot the media player.

IP Addresses and Network Connections

The digital entertainer is set from the factory to get its IP Address from a DHCP server. If your network does not use DHCP, you must set up the digital entertainer with a static IP address in the range of addresses on your network.

- If the digital entertainer is set to use DHCP and fails to obtain an IP Address from the server, it will resort to an auto IP address in the range of 169.254.x.x. You can use a static IP address if there is a problem connecting the digital entertainer to the server.
- If the network connection fails, the digital entertainer will time out. Reboot the unit. For more information, see “Physical Connectivity” on page 4-3.

WiFi Setup

The WIFI Setup screen shows the wireless settings for the network that you selected for the digital entertainer to use. To view or change the WIFI setup, follow the steps below.

1. Press Menu on the remote control.

2. Use the remote control to select WIFI at the top of your television screen.

The screen shows Now Using: Wireless network. The drop-down list shows the network currently in use.

3. Use the onscreen Select button to display all available networks, and to choose the one that you want.

The screen shows the following information about the current network:

- **SSID:** The Network Name (SSID).



Note: If your network does not broadcast the Network Name (SSID) then you must enter the SSID manually with the remote control so that the digital entertainer can connect to it.

- **Connection.** Infrastructure or Ad-hoc mode. Infrastructure is the default setting, which works with a router.
 - **Security.** The default is None. WEP 64-bit/WEP 128-bit can also be entered if your network uses it.
 - **Passphrase.** You can enter a passphrase, or use the Generate button to create one.
 - **Key.** For wireless networks with WEP, a security key is used.
4. Select Save to save your settings, or Cancel to discard your changes.

Wireless Networks



Warning: For video streaming, a wired connection between the computer and the digital entertainer is recommended. A wireless connection can work well if you want to play music or view photos.

If you are planning to use digital entertainer with a wireless network, check the location where you plan to install it for sources of interference. For best results, find a location free of the following common sources of interference:

- Large metal surfaces
- Microwave ovens

- Aquariums or large fish tanks
- 2.4 GHz Cordless phones

In general, 802.11g wireless equipment can communicate through walls. However, if the walls are made of concrete, or have metal, or metal mesh, the 802.11g effective range will decrease if such materials are between the media player and the wireless router or access point.

Changing the Wireless Network Configuration

For wireless networks you must configure the digital entertainer for the wireless network, and also configure it to work with your media library. You will need to know the network settings such as the SSID (network name). If your network uses wireless security, then you need to know any passwords, passphrases, or keys that are required for access.

Follow these steps:

1. Turn on the digital entertainer and turn on the television.
2. Aim the remote control at the digital entertainer and push Menu.

The Setup menu appears on the television screen.

3. Select WiFi at the top of the screen.

By default the Now Using field shows Wired network.

The digital entertainer shows all available wireless networks in your area in the Available field.

4. Select your wireless network.
5. If your network uses wireless security, enter the settings in the Security field, and if applicable in the Passphrase and Key fields.
6. Select Save to save your settings.
7. Select Reset Network Connection.

The digital entertainer tries to connect to your network.

Firmware

You can view the firmware version and check for updates, even if your computer is not running. The digital entertainer uses your network router to access the Internet. Follow the steps below to check for product updates.



Warning: Do not play media on the digital entertainer during the upgrade.

1. Press Menu on the remote control.
2. At the top of the Setup screen, select Firmware.
The firmware version and file system version are displayed.
3. You can use the following options:
 - **Check for firmware update.** The digital entertainer checks via the Internet to see if newer firmware is available. Scroll through the list and select the update that you want. The most recent update includes previous versions.
 - **Roll back firmware.** Change the firmware to an earlier version. The digital entertainer checks via the Internet and displays a list. Scroll through the list and select the firmware version that you want.
4. Select the onscreen OK button to reboot the digital entertainer

Restoring Factory Settings

Restoring the digital entertainer to its default factory settings will erase the network set up and media server selection.



Warning: If you restore factory settings, then you will need to set up the digital entertainer again to run on your network and to access media files.

To restore the factory settings to the digital entertainer, follow the steps below:

1. Press Menu on the remote control. The Setup button on your television screen is automatically selected.
2. Select Advanced.

3. On the Advanced menu screen, select Restore Factory Settings at the bottom of the screen.

Chapter 4

Troubleshooting

This chapter gives information about troubleshooting your digital entertainer.

No Television Display or Poor Display



Note: If the TV Mode that you are using is not the right one for your television, you may not be able to see the menus on the television. To fix this problem, push TV Mode on the remote control. You can cycle through each of the possible TV modes to find and select the correct one.

You can choose S-Video, SCART, Component Progressive, or Component Interlaced.

- **S-Video:** This cable is not included in the package. If your television uses S-Video, you must provide your own cable and set the Video Output to S-Video.
- **SCART:** This cable is often used in Europe and Australia, and is not included in the package. However, if you have a SCART cable the digital entertainer will recognize it.
- **Component Progressive and Component Interlaced:** The digital entertainer is set by default to work with component video cables. To use component progressive you must have a television that supports this technology.

Connecting to the Media Player

Here are some tips for correcting simple problems that may prevent you from connecting to the digital entertainer.

Problem	Recommended Action
The digital entertainer does not respond to the remote control.	Check the LED on the front panel of the digital entertainer to make sure the power is on. Make sure the television is turned on. The LED on the remote control should flash when you push a button. • If the LED does not flash, and the batteries are working, then the remote may be faulty. • If the LED does flash, reset the digital entertainer.
The digital entertainer does not find my network.	• For wireless networks, make sure that the Wireless Network Name (SSID) and security settings of the digital entertainer and media server match exactly. • Restart the media server software, then power cycle the media player.
The digital entertainer does not find the server.	• Make sure your computer is running the media server software. • If you do not use DHCP on your network, you must set the IP address of the digital entertainer in the range of addresses on your network. See <i>IP Address</i> on page 4-4.

Windows Media Connect Firewall Conflict

If you are using Windows Media Connect and the built-in Windows firewall, the firewall automatically opens the ports needed to communicate with the digital entertainer.

For other firewalls, you might need to open the following ports:

Protocol	Ports
Transmission Control Protocol (TCP)	2869, 10243
User Datagram Protocol (UDP)	1900, 10280, 10281, 10282, 10283, 10284

For security reasons it is better to open the ports only for your private and auto IP addresses. For more information, see the Microsoft website at <http://www.microsoft.com>.

Physical Connectivity

Ethernet Link

The digital entertainer uses Auto Uplink technology (also called Auto MDI/MDI-X). It automatically senses the polarity of the Ethernet connection. You can use either a standard or crossover Ethernet cable. The Ethernet port of your digital entertainer will automatically configure itself properly.

If connecting to your network using Ethernet, the link LED on the back of your digital entertainer and on your hub or router should both be on. If not, try the following:

- Make sure that the Ethernet cable connections are secure at the router and at the hub or workstation.
- Make sure that power is turned on to the connected hub or workstation.

Wireless Link

Please be aware that wireless data rate and throughput decreases as the distance increases between the Access Point (AP) and the digital entertainer. If you are unable to detect any wireless networks, try the following:

- Your wireless AP (access point) may be too far from the digital entertainer. It may be necessary to move either the AP or the digital entertainer so that they are closer together.
- If you are using a wireless connection between the AP (or wireless router) and the computer that serves the media content, you might also need to move the computer and the AP closer together.
- If your access point is configured to disable broadcast of SSID, the digital entertainer will not be able to detect it. You must manually configure your wireless settings as described in “*WiFi Setup*” on page 3-5.
- The digital entertainer cannot connect to the wireless network while it is connected to the Ethernet network. Disconnect your Ethernet cable.

For detailed information about wireless networks, see the link to this topic listed in *“Wireless Communications:” in Appendix B.*

IP Address

If the digital entertainer does not receive a valid IP address, try the following:

- Verify that a working DHCP server is on your network. PCs on the network should get IP addresses in the correct range.

If the digital entertainer is set to use DHCP and fails to obtain an IP Address from the server, it will resort to an auto IP Address in the range of 169.254.x.x. You can use a Static IP Address if there is a problem connecting to the server.

- If you are using a wireless network, verify that the digital entertainer is associated with the correct SSID. The SSID that is being used can be displayed by following instructions in *“WiFi Setup” on page 3-5.*
- If you are using a wireless network, verify that the WEP settings on the digital entertainer match the settings on your access point. This must match the setting on your access point. For information about WEP, see the link listed in *“Wireless Communications:” on page B-1.*
- If the digital entertainer is set to use DHCP and fails to obtain an IP Address from the server, it will resort to an auto IP Address in the range of 169.254.x.x. You can use a static IP address if there is a problem connecting the digital entertainer to the server.
- If the network connection fails, the digital entertainer will time out. Reboot the unit.

Connecting to a Server

If the digital entertainer cannot find the correct server, try the following:

- Verify that the Media Server software was installed on your PC.

- Verify that the digital entertainer and the PC running the Media Server software are on the same subnet and that they can communicate with each other. In most cases, this means that the first three fields of the two IP address should be the same. Communication can be verified using the Windows Ping utility.

Using Ping

To use ping, follow the steps below:

1. From the Windows toolbar, click on the Start button and select Run.
2. In the field provided, type ping followed by the IP address of the EVA700. Displaying the IP address is described in *“IP Config” on page 3-4.*

ping 192.168.0.2

3. Click OK. You should see a message like this one:

pinging <IP address> with 32 bytes of data

If the path is working, you see this message:

reply from < IP address >: bytes=32 time=NN ms TTL=xxx

If the path is not working, you see this message:

request timed out

4. If you cannot ping the media player, then your network may not be working correctly.

Playing Media

If the digital entertainer cannot play media or music, try the following:

- Check to see if the file is protected. Windows Media Connect is required for Windows XP users to play protected files. See the Microsoft documentation for these products.
- Verify that the file is not corrupt by double-clicking it in the Media Files tab on the Media Server.

Appendix A

Default Settings and Technical Specifications

This appendix describes the default settings and technical specifications for the digital entertainer.

Default Settings

Technical Specifications

Network Protocol and Standards Compatibility

Data and Routing Protocols: TCP/IP, DHCP

Power Adapter

North America: 120V, 60 Hz, input
United Kingdom, Australia: 240V, 50 Hz, input
Europe: 230V, 50 Hz, input
Japan: 100V, 50/60 Hz, input
Maximum input current NA: 0.4A, UK, AU: 0.2A, EU: 0.2A, JP: 0.4A

Physical Specifications

Dimensions: (H x W x D): 38.1 x 431.8 x 254 mm (1.5 x 17 x 10 in.)
Weight: 2.0 kg (4.4 lbs)

Environmental Specifications

Operating temperature: 0° to 40° C (32° to 104° F)
Operating humidity: 90% maximum relative humidity, noncondensing

Electromagnetic Emissions

Meets requirements of: FCC Part 15 Class B

VCCI Class B

EN 55 022 (CISPR 22), Class B

C-Tick N10947

Interface Specifications

LAN: 10BASE-T or 100BASE-Tx, RJ-45

WLAN: 802.11b/g compatible (DAVE700)
802.11b/g compatible with RangeMax technology
(DAVEPN700)

Wireless

Radio Data Rates 1, 2, 5.5, 6, 9, 12, 18, 24, 36, 48, and 54 Mbps
Auto Rate Sensing

Frequency 2.4-2.5Ghz

Data Encoding: 802.11b: Direct Sequence Spread Spectrum (DSSS)
802.11g: Orthogonal Frequency Division Multiplexing
(OFDM)

Maximum Computers Per
Wireless Network: Limited by the amount of wireless network traffic
generated by each node. Typically 30-70 nodes.

Operating Frequency Ranges: 2.412~2.462 GHz (US) 2.457~2.462 GHz (Spain)
2.412~2.484 GHz (Japan) 2.457~2.472 GHz (France)
2.412~2.472 GHz (Europe ETSI)

802.11 Security: 40-bit (also called 64-bit) and 128-bit WEP and WPA-
PSK¹

1. WPA-PSK may not be supported in the original product release.

Appendix B

Related Documents

This appendix provides links to reference documents you can use to gain a more complete understanding of the technologies used in your NETGEAR product.

Document	Link
Internet Networking and TCP/IP Addressing:	http://documentation.netgear.com/reference/enu/tcpip/index.htm
Wireless Communications:	http://documentation.netgear.com/reference/enu/wireless/index.htm
Preparing a Computer for Network Access:	http://documentation.netgear.com/reference/enu/wsdhcp/index.htm
Virtual Private Networking (VPN):	http://documentation.netgear.com/reference/enu/vpn/index.htm
Glossary:	http://documentation.netgear.com/reference/enu/glossary/index.htm

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