



neuros™

MPEG-4 Recorder
Manual



Preface

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Conventions

The following conventions are used throughout this manual.

	NOTICE <i>Text set off in this manner indicates key information that you should pay attention to.</i>
	CAUTION <i>Text set off in this manner indicates that failure to follow these directions could result in damage to equipment or loss of information.</i>
	WARNING <i>Text set off in this manner indicates that failure to follow these directions could result in bodily harm or loss of life.</i>

Safety Information

Please read the following safety instructions and keep the user manual for later reference.

- Use only the power adapter supplied with the product.
- Do not place the product near any source of heat or expose it to direct sunshine.
- Do not attempt to connect any computer accessory or electronic product without instruction from qualified service personnel. It may result in risk of electric shock.
- Do not expose the product to moisture. Never spill any liquid on the product.
- Do not place the Neuros MPEG-4 Recorder where the temperature is less than -10°C (14°F) or greater than 60°C (140°F).

Routine care

Wipe the Neuros MPEG-4 Recorder with a soft cloth. Do not use abrasive powders or solvents, such as benzene or thinners. When you leave the Neuros MPEG-4 Recorder unused for a long time, unplug the AC adapter from the outlet.

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Chapter 1: Overview

The Neuros MPEG-4 Recorder

- Mini Video Recorder is an MPEG-4 recorder and player that enables anyone to make home movies. Record your favorite TV shows, personal home video, or videos (VHS, VCD, DVD, Hi8, or DV) onto

a flash memory card 1" MicroDrive or SD card. Play your prerecorded full-motion, full-color videos on a PC, TV, or Pocket PC based PDA.

In addition, the Neuros MPEG-4 Recorder is a super high fidelity MP3 player. The Neuros MPEG-4 Recorder's elegant design makes it look great on your desk and easy to use.



1.1 Features

- **Image Browser** - View digital images on your television with the built-in Image Browser.
- **Video Recorder** - Record video from your video camera, VCR or DVD player. Videos are stored in the Advanced Systems Format (ASF). ASF movie files can also be played with Windows Media Player 7 or above. Windows Media Player is included free with Microsoft Windows.
- **Video Player** - The video player is MPEG-4 compatible and will also play AVI and ASF files.
- **Music Player** - The audio player is MP3 compatible.
- **USB Card Reader** - The Neuros MPEG-4 Recorder simultaneously supports Compact Flash (CF) and Secure Digital (SD) cards. Each card appears as a separate removable disk in Windows Explorer.
- **Compact and Portable Design** - The Neuros MPEG-4 Recorder is small enough to fit in your pocket.
- **Flexible** - The Neuros MPEG-4 Recorder can be used with a PC, Stereo System, Television, VCR, DVD player or Video Camera.

1.2 System Requirements

Ensure that the following requirements are met:

- USB 2.0 interface on your PC
- Microsoft Windows XP, 2000, ME, or 98 (drivers are required for Windows ME and 98)
- Compact Flash (CF) or Secure Digital (SD) card (one or more)
- Audio video system with RCA compatible input and output

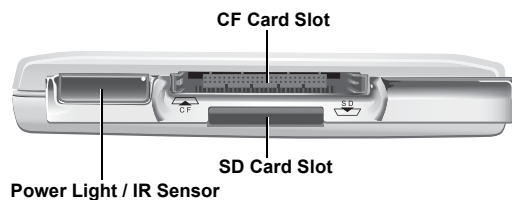
1.3 Unpacking

Contact your supplier if any of the following items are damaged or missing.

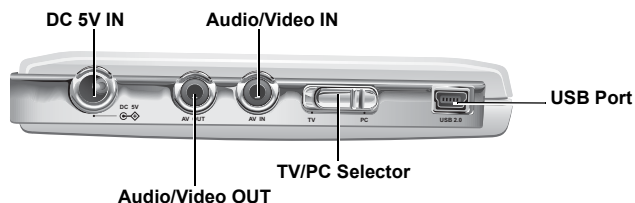
- Neuros MPEG-4 Recorder
- Remote Control with Battery
- RCA to Mini-plug Cables (x2)
- USB Cable
- AC Power Adapter
- User Manual
- CD-ROM

1.4 The Neuros MPEG-4 Recorder

1.4.1 Front View

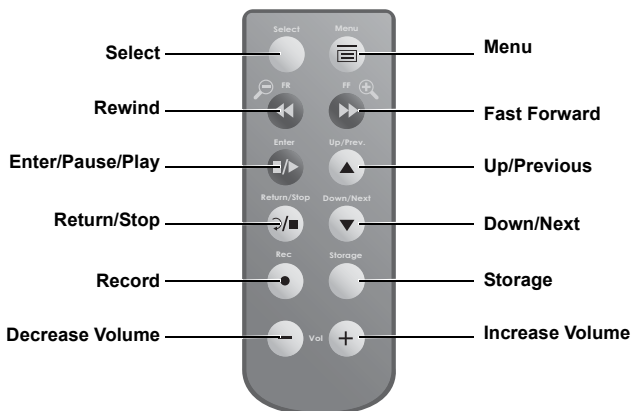


1.4.2 Rear View

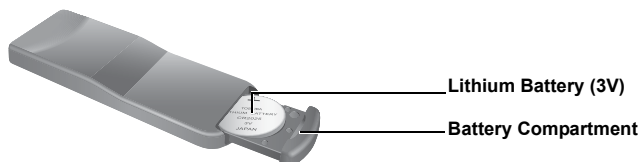


1.5 The Remote Control

1.5.1 Top View



1.5.2 Bottom View



Chapter 2: Getting Started

This chapter covers how to connect your Neuros MPEG-4 Recorder to other equipment and view media files for the first time.

2.1 Making Connections

Read this chapter to learn how to:

- Connect the power to your Neuros MPEG-4 Recorder
- Connect your Neuros MPEG-4 Recorder to a television
- Connect your Neuros MPEG-4 Recorder to a DVD, VCR or camcorder
- Insert or remove a memory card
- Connect your Neuros MPEG-4 Recorder to a computer

2.1.1 Connecting the Power

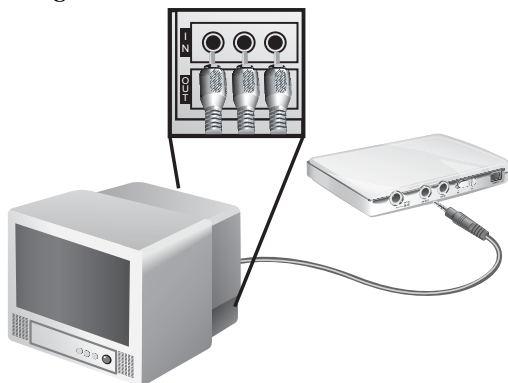


1. Insert the connector (A) of the supplied DC power adapter into the **DC 5V** connector on the Neuros MPEG-4 Recorder.
2. Insert the power adapter (B) into a wall socket.



NOTICE *When connecting the Neuros MPEG-4 Recorder to a personal computer or notebook computer, it is not necessary to connect the power adapter.*

2.1.2 Connecting to a Television

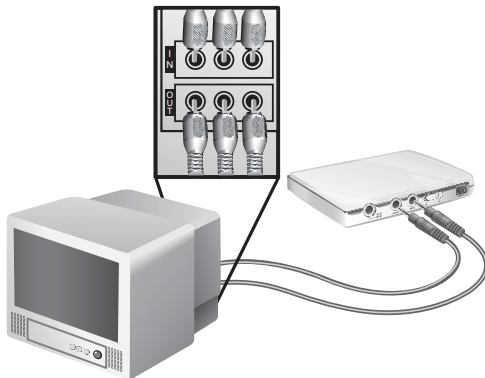


The Neuros MPEG-4 Recorder supports NTSC and PAL standards. See **Section 3.2.1, “TV Out” on page 20** for a detailed explanation of the PAL and NTSC standards.

To connect the Neuros MPEG-4 Recorder to a television to view still images or video:

1. Connect the power adapter to the **DC 5V** socket on the Neuros MPEG-4 Recorder.
2. Connect the AV cable to the **AV OUT** socket on the Neuros MPEG-4 Recorder.
3. Connect the corresponding Video (Yellow) connector of the AV cable into the video input on your television.
4. Connect the Audio Right (Red), and Audio Left (White) connectors to the corresponding inputs on your stereo system.
5. Set the **TV/PC** switch to **TV**.

2.1.3 Connecting to a Television for Recording using TV itself



To connect the Neuros MPEG-4 Recorder to a television for recording:

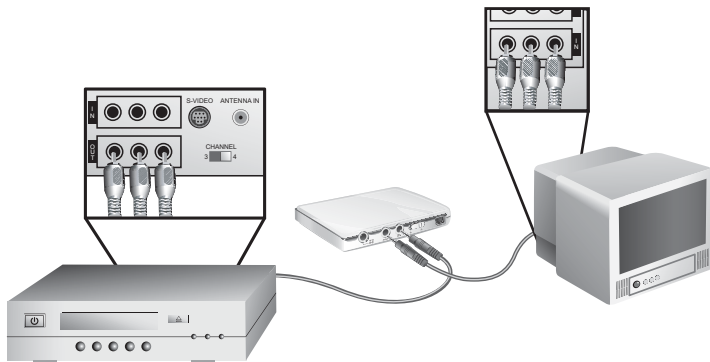
1. Connect the Neuros MPEG-4 Recorder to a television as described in **Section 2.1.2, “Connecting to a Television” on page 6**
2. Connect a second AV cable from the AV IN socket on the Neuros MPEG-4 Recorder.
3. Connect the corresponding Video (Yellow), Audio Right (Red) and Audio Left (White) connectors, on the other end of the AV cable, to the AV OUTs of your television.



NOTICE *This requires your television to have a set of AV OUTs.*

Please refer Section 3.7 “Using the Neuros MPEG-4 Recorder to record TV programs using TV itself” on page 44

2.1.4 Connecting to a DVD, VCR or Camcorder



To connect the Neuros MPEG-4 Recorder to record video from a VCR, DVD or camcorder:

1. Connect the power as described in **Section 2.1.1, “Connecting the Power”** on page 5.
2. Insert the AV cable to the **AV IN** socket of the Neuros MPEG-4 Recorder.
3. Insert the corresponding Video (Yellow), Audio Right (Red), and Audio Left (White) connectors at the other end of the AV cable, to the video and audio outputs on your DVD, VCR or camcorder equipment.
4. Set the **TV/PC** switch to **TV**.

Connecting to a camcorder:



Connecting to a camcorder allows you to record movies directly to your Neuros MPEG-4 Recorder.

2.1.5 Connecting to a Computer



1. Insert a Compact Flash (CF) card or Secure Digital (SD) card into the Neuros MPEG-4 Recorder.
2. Insert the small end of the USB cable into the Neuros MPEG-4 Recorder USB 2.0 port.
3. Insert the large end of the USB cable into the USB 2.0 port on your computer.
4. Set the **TV/PC** switch to **PC**.



NOTICE *When connecting the Neuros MPEG-4 Recorder to a computer or notebook computer, it is not necessary to connect the power adapter.*

When the Neuros MPEG-4 Recorder is connected to a PC or notebook PC, each memory card inserted into the device appears as a *removable disk* in Windows Explorer. Files stored on the Neuros MPEG-4 Recorder can be accessed in the same way as files on any other available disk.

2.1.6 Inserting and Removing a Compact Flash (CF) Card



To insert a CF card:

1. Position the Compact Flash Card so that the pin-hole connections are facing the Neuros MPEG-4 Recorder. Place the card label side up.
2. Slide the card gently into the CF card slot and press it firmly into place.

To remove a CF card:

To remove a CF card, gently pull the card out of the slot.

2.1.7 Inserting and Removing a Secure Digital (SD) Card



To insert an SD card:

1. Position the Secure Digital Card so that the angled corner is on the right and facing the Neuros MPEG-4 Recorder. Place the card label side up.
2. Slide the card gently into the Secure Digital card slot until it clicks.

To remove an SD card:

1. Lightly press on the card until it clicks.
2. Release the card and it will spring out.
3. Gently pull the card straight out of the slot.

2.2 Viewing Media Files

This section describes how to play videos, audio files and view still pictures on a television.

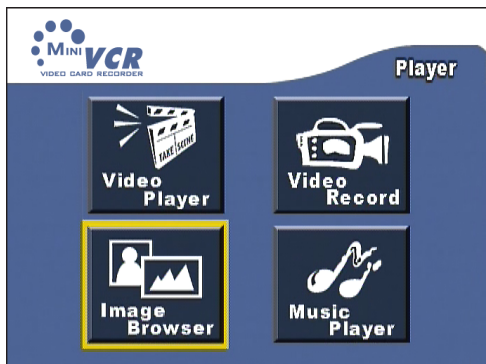
2.2.1 Viewing still pictures

1. Make sure that your Neuros MPEG-4 Recorder is connected to a television and/or audio system and is powered up as described in **Section 2.1, “Making Connections” on page 5.**
2. Switch the Neuros MPEG-4 Recorder **PC/TV** switch to **TV.**



Splash Screen

A splash screen will be displayed for about 10 seconds. When the splash screen has disappeared, the **Player** menu will appear.



Player Menu

- Use the ▲, ▼, ◀, and ▶ buttons on the remote control to highlight the **Image Browser** icon and use the ⏏ button to confirm your selection. The **Image Browser** will be displayed.

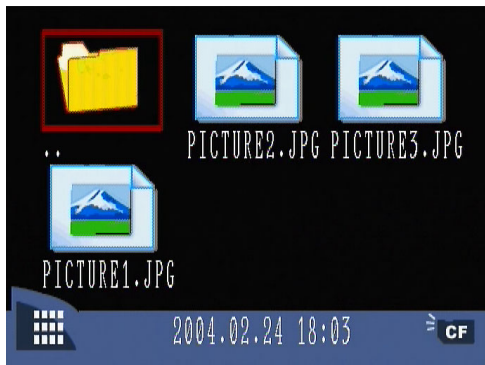


Image Browser

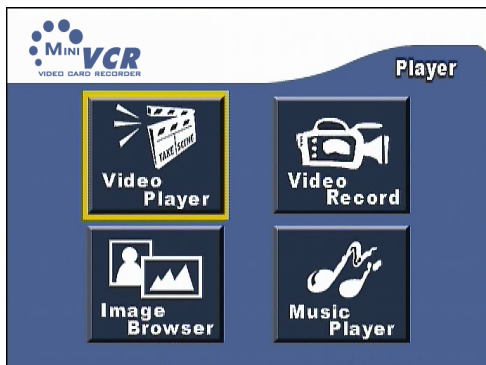
The Image Browser will display thumbnails of all the displayable images and any subdirectories that exist.

- Use the ▲, ▼, ◀, and ▶ buttons on the remote control to highlight an image or a subdirectory. Use the ⏏ button to confirm your selection. If an image is selected it will be displayed. If a subdirectory is selected, its contents will be displayed.
- To return to a parent directory, select the previous directory icon, “..”, as shown above and press the ⏏ button on the remote control to confirm your selection.

2.2.2 Viewing Videos

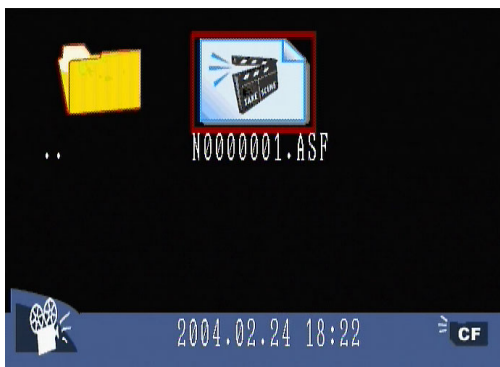
- Make sure that your Neuros MPEG-4 Recorder is connected to a television and/or stereo system and is powered up as described in **Section 2.1, “Making Connections” on page 5.**
- Switch the Neuros MPEG-4 Recorder **PC/TV** switch to **TV**.

A splash screen will be displayed for about 10 seconds as shown in **Section 2.2.1, “Viewing still pictures” on page 12.** When the splash screen has disappeared, the **Player** menu will appear.



Player Menu

- Use the , , and buttons on the remote control to highlight the **Video Player** icon and use the button to confirm your selection. The **Video Player** will be displayed.



Video Player

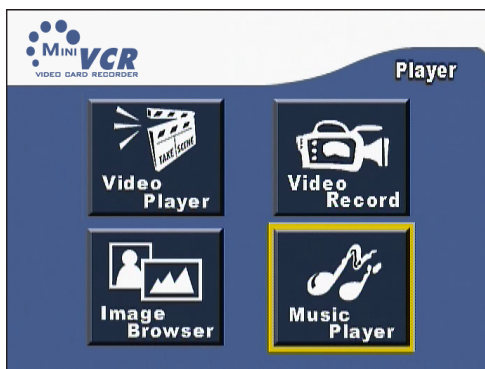
- Use the , , , and buttons on the remote control to highlight a video to play or a subdirectory. Use the button to confirm your selection. If a video file is selected it will play. If a subdirectory is selected, its contents will be displayed.

5. Use the , , , and  buttons on the remote control to fast forward, rewind, stop, play or pause the video.
6. To return to a parent directory, highlight the **..** directory icon and press the  button on the remote control to confirm your selection.

2.2.3 Listening to Audio Files

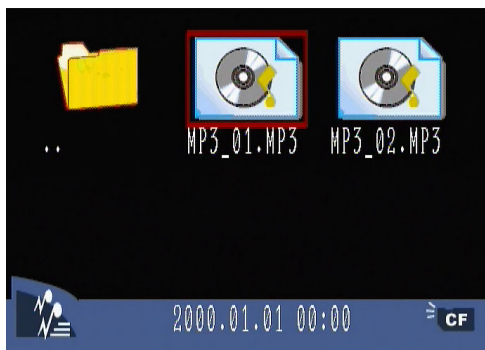
1. Make sure that your Neuros MPEG-4 Recorder is connected to a television and/or stereo system and is powered up as described in **Section 2.1, “Making Connections” on page 5.**
2. Switch the Neuros MPEG-4 Recorder **PC/TV** switch to **TV**.

A splash screen will be displayed for about 10 seconds as shown in **Section 2.2.1, “Viewing still pictures” on page 12.** When the splash screen has disappeared, the **Player** menu will appear.



Player Menu

3. Use the , , , and  buttons on the remote control to highlight the **Music Player** icon and use the  button to confirm your selection. The **Music Player** will be displayed.



Music Player

4. Use the , , , and  buttons on the remote control to highlight an audio file to play or a subdirectory. Use the  button to confirm your selection. If an audio file is selected, it will play. If a subdirectory is selected, its contents will be displayed.
5. Use the , , , and  buttons on the remote control to fast forward, rewind, stop, play or pause the audio playback.
6. To return to a parent directory, highlight the .. directory icon and press the  button on the remote control to confirm your selection.

Chapter 3: Using the Neuros MPEG-4 Recorder

The Neuros MPEG-4 Recorder On Screen Interface provides a convenient way to create, manage, and view your image, audio, and video files. Read this chapter for more details.

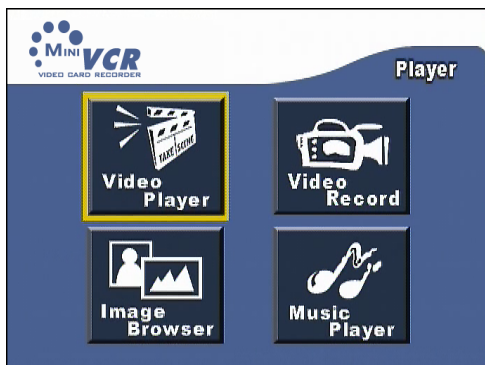
3.1 Accessing the On Screen Interface

1. Make sure that your Neuros MPEG-4 Recorder is connected to a television and/or stereo system and is powered up as described in **Section 2.1, “Making Connections” on page 5.**
2. Switch your TV to receive Video input.
3. Set the **TV/PC** switch to **TV**.



Splash Screen

A splash screen will be displayed for about 10 seconds. When the splash screen has disappeared, the **Player** menu will appear.



Player Menu

4. Use ◀, ▶, ▲, and ▼ buttons on the remote control to move the yellow cursor to one of the four options: **Video Player**, **Video Record**, **Image Browser**, or **Music Player**.
5. To confirm your selection, press ⏻.

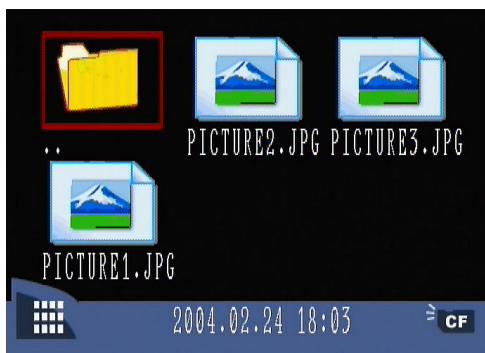


Image Browser

If **Video Player**, **Image Browser**, or **Music Player** is chosen from the **Player** menu, you will be presented with a display representing the file system on the currently selected media (CF/SD). Only the files that can be played or displayed will be visible along with subdirectories.

6. Use the  and  buttons on the remote control to move the red cursor around the page.
7. Use the  and  buttons to move through pages or full screens of files.
8. Press  to display or play the selected file.
9. Press  when a directory is selected to display the contents of that directory.
10. Select the previous directory icon, “..”, and press  to return to a parent directory.
11. Press  to exit the directory view and return to the **Player** menu.

3.1.1 Selecting files

Sometimes you may want to select multiple files, for example when copying a large number of files from one memory card to another.

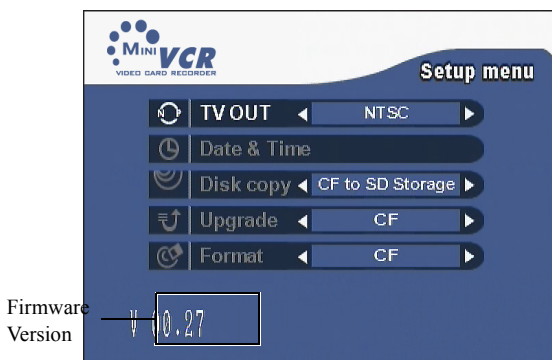
Pressing the **Select** button  on the remote control will mark the current file with a pink border indicating that the file is part of a multiple selection. Pressing the **Select** button  again will deselect it.

3.1.2 Changing the storage media

Pressing the **Storage** button  on the remote control while in **Image Browser**, **Video Player** or **Music Player** will toggle the active memory card between SD and CF. If one card is not available, you will see the message “Device doesn’t exist!” in place of a directory. If the media is available, but contains no files or directories, you will see the message “No Related File!” in place of a directory.

3.2 Main Player Setup Menu

Press the **Menu** button  on the remote control while the **Player** menu is displayed to display the Setup menu. You can also press the **Menu** button  from the splash screen.



Setup menu

Use the  and  buttons on the remote control to navigate around the Setup Menu. Use the  and  buttons to toggle the selection and the  button to confirm a selection. Press the  button to return to the **Player** menu.

The current version of firmware for the Neuros MPEG-4 Recorder is displayed in the lower left corner of the Setup Menu. New versions of firmware may become available and this information will help you to determine when to update the Neuros MPEG-4 Recorder.

3.2.1 TV Out

Use the **TV Out** menu item to toggle the Neuros MPEG-4 Recorder between NTSC and PAL television standards.

NTSC (National TV Standards Committee) is a color TV standard developed in the U.S.A. An NTSC signal consists of 30 interlaced frames per second with 525 lines per frame. NTSC is used in Canada, the U.S.A, Japan, South Korea, Taiwan and several Central and South American countries.

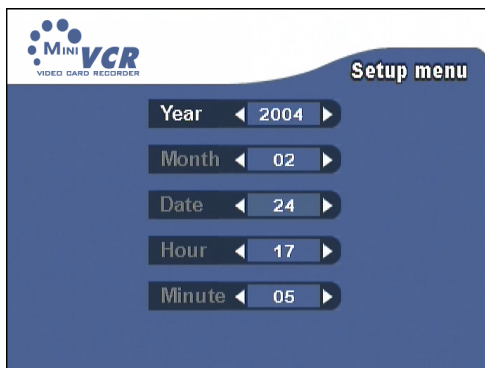
PAL (Phase Alternating Line) is a color TV standard that was developed in Germany. A PAL picture consists of 25 interlaced frames per second with 625 lines per frame. PAL is used throughout Europe and China, and in some African, South American and Middle Eastern countries.

To switch between PAL and NTSC:

1. Enter the Setup menu as described above.
2. Use the  and  buttons to highlight the **TV Out** option.
3. Use the  and  buttons to toggle the selection between NTSC and PAL.
4. Press the  button to confirm your selection.

3.2.2 Date and Time

1. Enter the Setup menu as described above.
2. Use the  and  buttons to highlight the **Date & Time** option and press  to confirm your selection. The Date & Time menu is displayed.



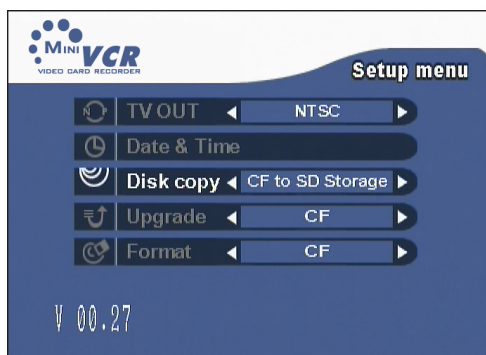
Date & Time

- Use the ▲ and ▼ buttons to navigate to each option in the **Date & Time** menu, and use the ◀ and ▶ buttons to toggle the selection.
- Press the ⏏ button to confirm the selection or the ⏮ button to return to the **Setup Menu** without saving any changes.

3.2.3 Disk Copy

Use **Disk Copy** to move the entire contents of one memory card to a folder on the other memory card. You can copy from CF to SD or from SD to CF.

- Enter the Setup menu as described above.
- Use the ▲ and ▼ buttons to highlight the **Disk Copy** option.
- Use the ◀ and ▶ buttons to toggle between **SD to CF Storage** and **CF to SD Storage** options.



Disk Copy

- Press the ⏏ button to confirm the selection.
- A *wait* screen is displayed while the operation is carried out.

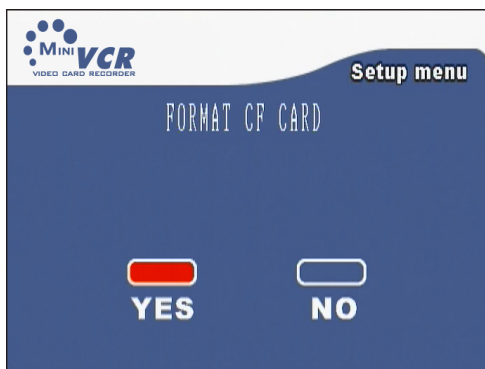
3.2.4 Upgrade

See the section “**Upgrading the Firmware**” in the **Appendix** for details on how to use the upgrade option.

3.2.5 Format

Use **Format** to format the memory card in either the CF or SD card slot. Formatting will delete all information on the card. Once formatted, the data can not be recovered. Make sure all data is backed up before formatting.

1. Enter the Setup menu as described above.
2. Use the  and  buttons to highlight the **Format** option.
3. Use the  and  buttons to toggle between **SD** and **CF**. Make sure that you choose the right memory card to format. Choosing the wrong card will result in the wrong memory card being formatted and therefore a possible loss of data.
4. Press the  button to confirm the selection.
5. Use  and  to toggle between **Yes** and **No** to confirm that you want to format the card.



Format CF Card

6. Press  to confirm your choice. A *wait* screen is displayed while the operation is carried out.

3.3 Playing Videos

Your Neuros MPEG-4 Recorder can play full motion video on your television. Video files must be ASF or AVI type.

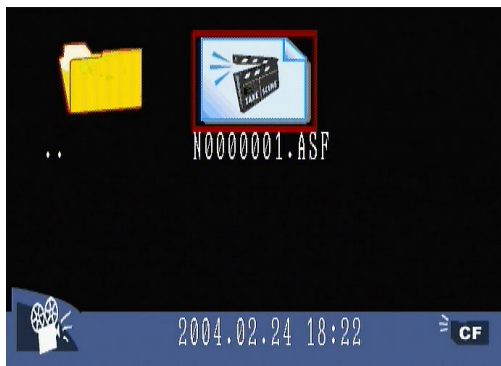


NOTICE

ASF: ASF files are created by your Neuros MPEG-4 Recorder when you record video from a camcorder or other device.

AVI: AVI files are MPEG4 SP (simple profile) format, with resolution of up to 320 x 240 pixels. Audio on AVI files is MP3.

1. Connect your Neuros MPEG-4 Recorder to your TV and/or stereo and enter the **Player** menu as described in **Section 3.1, “Accessing the On Screen Interface” on page 17.**
2. Use the ▲ and ▼ buttons to highlight the **Video Player** option and use the ⏏ button to confirm your choice. The **Video Player** will be displayed.
3. Use the ▲ and ▼ buttons to highlight the file that you wish to play or a subdirectory.



Video Player

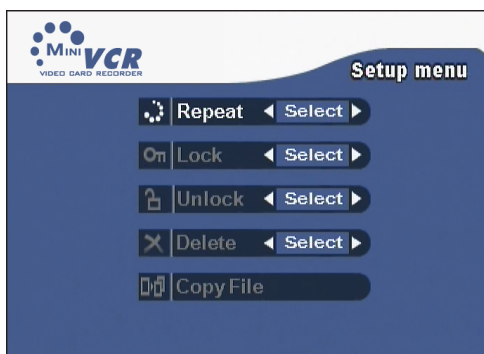
4. Use the ⏏ button to confirm your selection. If a video file is selected, it will be played. If a directory is selected, it's contents will be displayed.

While a video is playing, the following functions are available:

- ⏸ Pause
- ⏮ and ⏭ Rewind and Fast Forward
- ⏮ and ⏭ Play previous or next file in directory
- ⏩ and ⏪ Volume control
- ⏮ Return to parent directory

3.3.1 Video Player Setup Menu

The **Setup Menu** for the **Video Player** provides standard functions such as repeat play, lock, unlock, delete, and copy video files.



Video Setup Menu

1. Enter the **Video Setup** menu using the  button on the remote control from the **Video Player**.
2. Use the  and  buttons to highlight the required option.
3. Use the  and  buttons to toggle settings for each option.
4. Use the  button to confirm your selection.
5. Use the  button to return to the directory view.

3.3.2 Repeat

Use the **Repeat** function to repeat play all video files or a selection. See **Section 3.1.1, “Selecting files” on page 19** for details on how to

select files. You can also play a random selection with the **shuffle** option.

1. Enter the **Video Setup** menu as described above.
2. Use the  and  buttons to highlight the **Repeat** option.
3. Use the  and  buttons to toggle between **All**, **Select** and options.
4. Use the  button to confirm your choice

3.3.3 Lock and Unlock

The **Lock** function is used to protect files from accidental deletion. The **Unlock** function is used to remove this protection.

1. Enter the **Video Setup** menu as described above.
2. Use the  and  buttons to highlight the **Lock** or **Unlock** option.
3. Use the  and  buttons to toggle between **All** and **Select** settings.

Choosing the **All** setting locks or unlocks all video files. Using the **Select** option will lock or unlock just those files you have selected. See **Section 3.1.1, “Selecting files” on page 19** for details on how to select files.

4. Use the  button to confirm your choice.

3.3.4 Delete

The Delete option allows you to delete all files or just selected files from the Video Player. When files have been deleted they cannot be recovered.

1. Enter the **Video Setup** menu as described above.
2. Use the  and  buttons to highlight the **Delete** option.
3. Use the  and  buttons to toggle between **All** and **Select** options.

Choosing the **All** option deletes all video files. Using the **Select** option deletes just those files you have selected. See **Section 3.1.1, “Selecting files” on page 19** for details on how to select files.

4. Use the  button to confirm your selection.

3.3.5 Copy File

Use the **Copy File** option to copy video files to either the CF or SD card. This option is used to copy either all files or a predefined selection.

1. Enter the **Video Setup** menu as described above.
2. Use the  and  buttons to highlight the **Copy File** option. Use the  button to confirm your choice and enter the **Copy File** submenu.
3. In the **Copy File** submenu, use the  and  buttons to highlight the **Copy** option.
4. Use the  and  buttons to toggle between **All** and **Select** options.

Use the **All** option to copy all video files and use the **Select** option to copy a predefined selection of files. See **Section 3.1.1, “Selecting files” on page 19** for details on how to select files.

5. Use the  button to confirm your choice.
6. Use the  and  buttons to highlight the **Copy to** option.
7. Use the  and  buttons to toggle between **CF** and **SD** options.
8. Use the  button to confirm your choice.

The selected files will be copied to the chosen destination.

3.3.6 Using the Neuros MPEG-4 Recorder to Play MPEG-4 Video

The Neuros MPEG-4 Recorder can be used to play MPEG-4 format video. MPEG-4 files can be placed on either SD card or CF card. See **Section 3.8, “Using the Neuros MPEG-4 Recorder as a Card Reader” on page 46**. The MPEG-4 file can then be played as described in **Section 3.3, “Playing Videos” on page 24**.

3.4 Using the Neuros MPEG-4 Recorder to Display Images

The Neuros MPEG-4 Recorder can display images, such as those captured with a digital camera, on your television.

1. Connect your Neuros MPEG-4 Recorder to your TV and/or stereo and enter the **Player** menu as described in **Section 3.1, “Accessing the On Screen Interface” on page 17.**
2. Use the  and  buttons to highlight the **Image Browser** option and use the  button to confirm your choice. A list of displayable files and subdirectories will be displayed.

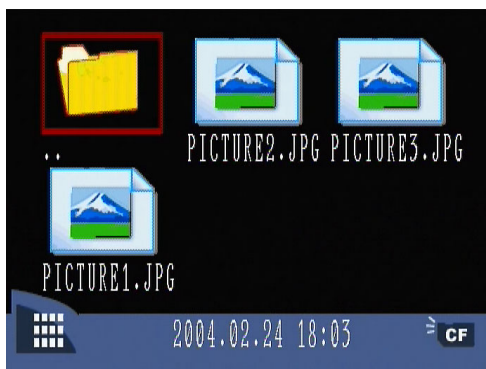


Image Browser

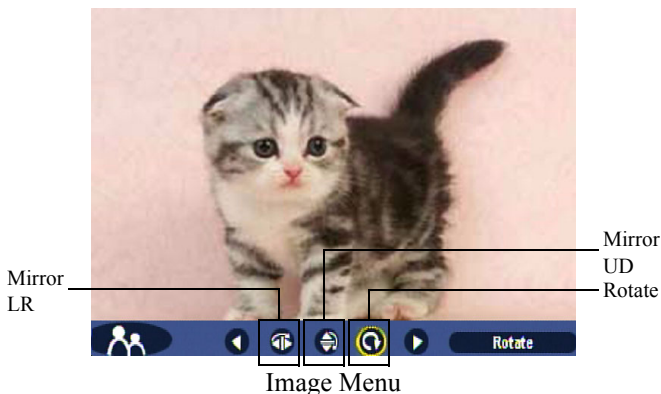
3. Use the  and  buttons to highlight the image you want to display and use the  button to confirm your choice.

While a file is being viewed, the following functions are available using buttons on the remote control:

-  and  Zoom out and Zoom In
-  and  Display the previous or next file in directory
-  Return to directory

3.4.1 Special Effects

Pressing the  button on the remote control while an image is on screen, displays the **Image** menu along the bottom of the display.



When the **Image** menu is displayed, the following functions are available using buttons on the remote control:

-  Scroll backwards through **Image** menu
-  Scroll forwards through **Image** menu
-  Choose the currently selected item on the **Image** menu
-  Close the **Image** menu

The Image menu enables you to modify your images and provides the following features:

File: Displays the **File Setup** menu. See **Section 3.4.2, “Image Browser Setup Menu” on page 30**, for details on how to use the functions in this submenu.

Scroll: Allows scrolling of a zoomed image. Use  and  to scroll left and right. Use  and  to scroll up and down. Press  to turn off the scrolling feature.

Mirror LR: Creates a vertically-mirrored image.

Mirror UD: Creates a horizontally-mirrored image.

Rotate: Rotates the image 90 degrees clockwise.

Invert: Inverts the colors of the image. This effect is similar to creating a photo negative of the image.

Grayscale: Renders the image with no color information. This effect is similar to a black and white photograph.

Mono: Renders the image using only black or white. This feature is useful for adding an artistic touch to simple images.

Edge: Enhances the edges of the image. This feature is useful for enhancing the detail of an image.

Exposure: Adjusts the image to a more natural exposure.

Spectrum: Displays a spectrum analysis of the image. Press  again to dismiss the analysis and return to a full screen display of the image.

3.4.2 Image Browser Setup Menu

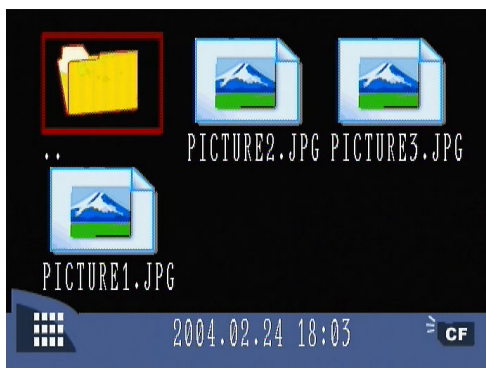


Image Browser

The Setup Menu for the **Image Browser** provides functions including slide, lock, unlock, delete, DPOF and copy selected or all images in a directory.

1. Enter the **Image Browser Setup** menu using the  button on the remote control from the **Image Browser**.
2. Use the  and  buttons to highlight the required option.

3. Use the  and  buttons to toggle options for each selection.
4. Use the  button to confirm your setup choice.
5. Use the  button to return to the directory view.

3.4.3 Slide

Use the **slide** function to start a slide show of all still images or a predefined selection. See **Section 3.1.1, “Selecting files” on page 19** for details on how to select files.

1. Enter the **Image Browser Setup** menu using the  button on the remote control from the **Image Browser**.
2. Use the  and  buttons to highlight the **Slide** option.
3. Use the  and  buttons to toggle between **Select** and **All** options.
4. Use the  button to confirm your setup choice.

A slide show of the selected still images is displayed.

3.4.4 Lock and Unlock.

The **Lock** function is used to protect files from accidental deletion. The **Unlock** function is used to remove this protection.

1. Enter the **Image Browser Setup** menu using the  button on the remote control from the **Image Browser**.
2. Enter the **Image Browser Setup** menu as described above.
3. Use the  and  buttons to highlight the **Lock** or **Unlock** option.
4. Use the  and  buttons to toggle between **All** and **Select** option.

Choosing the **All option** locks or unlocks all still image files. Using the **Select** option will lock or unlock just those files you have selected. See **Section 3.1.1, “Selecting files” on page 19** for details on how to select files.

5. Use the  button to confirm your choice.

3.4.5 Delete

The Delete option is used to delete all files or just selected files from the Image Browser. When files have been deleted they can not be recovered.

1. Enter the **Image Browser Setup** menu using the  button on the remote control from the **Image Browser**.
2. Enter the **Image Browser Setup** menu as described above.
3. Use the  and  buttons to highlight the **Delete** option.
4. Use the  and  buttons to toggle between **All** and **Select** options.

Choosing the All option deletes all still image files. Using the **Select** option deletes just those files you have selected. See **Section 3.1.1, “Selecting files” on page 19** for details on how to select files.

5. Use the  button to confirm your choice.

3.4.6 Copy File

Use the **Copy File** option to copy still image files to either the CF or SD card. This option is used to copy either all files or a predefined selection.

1. Enter the **Image Browser Setup** menu using the  button on the remote control from the **Image Browser**.
2. Use the  and  buttons to highlight the **Copy File** option to enter the **Copy File** submenu.
3. In the **Copy File** submenu, use the  and  buttons to highlight the **Copy** option.
4. Use the  and  buttons to toggle between **All** and **Select** options.

Use the **All** option to copy all video files and use the **Select** option to copy a predefined selection of files. See **Section 3.1.1, “Selecting files” on page 19** for details on how to select files.

5. Use the  button to confirm your choice.

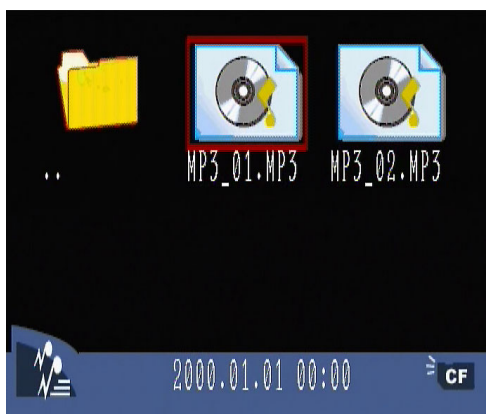
6. Use the  and  buttons to highlight the **Copy to** option.
7. Use the  and  buttons to toggle between **CF** and **SD** options.
8. Use the  button to confirm your choice.

The selected files will be copied to the chosen destination.

3.5 Using the Neuros MPEG-4 Recorder to Play Audio

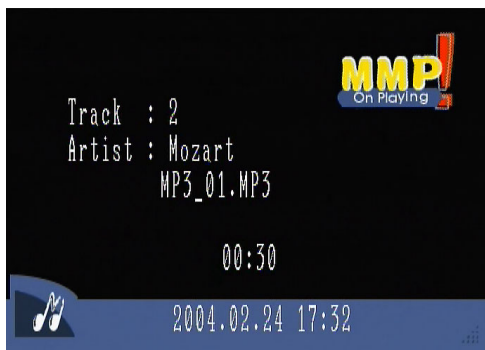
The Neuros MPEG-4 Recorder can playback audio MP3 files. The Neuros MPEG-4 Recorder is used to play MP3 audio files through headphones or a stereo system.

1. Connect your Neuros MPEG-4 Recorder to your TV and/or stereo and enter the **Player** menu as described in **Section 3.1, “Accessing the On Screen Interface” on page 17.**
2. Use the ▲ and ▼ buttons to highlight the **Music Player** option and use the ⏮ button to confirm your choice. A list of playable files and subdirectories will be displayed.
3. Use the ▲ and ▼ buttons to highlight the file that you wish to play or subdirectory.



Music Player

4. Use the ⏮ button to play the selected file.



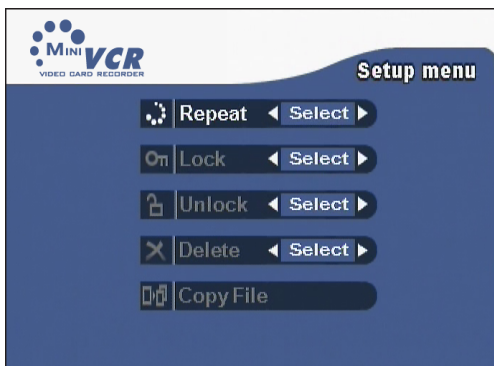
MP3

When playing an MP3 audio file, the following functions are available from the remote control.

-  Pause
-  and  Fast Rewind and Fast Forward
-  and  Play previous and play next file in directory
-  and  Volume control
-  Return to directory

3.5.1 Music Player Setup Menu

The Setup Menu for the **Music Player** provides functions including repeat play, lock, unlock, delete, and copy selected or all audio files.



Music Player Setup Menu

1. Enter the **Music Player Setup** menu using the  button on the remote control from the **Music Player**.
2. Use the  and  buttons to highlight the required option.
3. Use the  and  buttons to toggle options for each selection.
4. Use the  button to confirm your setup choice.
5. Use the  button to return to the directory view.

3.5.2 Repeat

Use the **Repeat** function to repeat play all audio files or a selection. See **Section 3.1, “Accessing the On Screen Interface” on page 17** for details on how to select files. You can also play a random selection with the **shuffle** option.

1. Enter the **Music Player Setup** menu using the  button on the remote control from the **Music Player**.
2. Use the  and  buttons to highlight the **Repeat** option.
3. Use the  and  buttons to toggle between **All**, **Select** and options.
4. Use the  button to confirm your choice

3.5.3 Lock and Unlock

The **Lock** function is used to protect files from accidental deletion. The **Unlock** function is used to remove this protection.

1. Enter the **Music Player Setup** menu using the  button on the remote control from the **Music Player**.
2. Use the  and  buttons to highlight the **Lock** or **Unlock** option.
3. Use the  and  buttons to toggle between **All** and **Select** options.

Choosing the **All** option will lock or unlock all audio files. Using the **Select** option will lock or unlock just those files you have selected. See **Section 3.1.1, “Selecting files” on page 19** for details on how to select files.

4. Use the  button to confirm your choice.

3.5.4 Delete

The Delete option is used to delete all files or just selected files from the Music Player. When files have been deleted they can not be recovered.

1. Enter the **Music Player Setup** menu using the  button on the remote control from the **Music Player**.
2. Use the  and  buttons to highlight the **Delete** option.
3. Use the  and  buttons to toggle between **All** and **Select** options.

Choosing the **All** option deletes all audio files. Using the **Select** option deletes just those files you have selected. See **Section 3.1.1, “Selecting files” on page 19** for details on how to select files.

4. Use the  button to confirm your choice.

3.5.5 Copy File

Use the **Copy File** option to copy video files to either the CF or SD card. This option is used to copy either all files or a predefined selection.

1. Enter the **Music Player Setup** menu using the  button on the remote control from the **Music Player**.
2. Use the  and  buttons to highlight the **Copy File** option to enter the **Copy File** submenu.
3. In the **Copy File** submenu, use the  and  buttons to highlight the **Copy** option.
4. Use the  and  buttons to toggle between **All** and **Select** options.

Use the **All** option to copy all video files and use the **Select** option to copy a predefined selection of files. See **Section 3.1.1, “Selecting files” on page 19** for details on how to select files.

5. Use the  button to confirm your choice.
6. Use the  and  buttons to highlight the **Copy to** option.
7. Use the  and  buttons to toggle between **CF** and **SD** options.
8. Use the  button to confirm your choice.

The selected files will be copied to the chosen destination.

3.6 Using the Neuros MPEG-4 Recorder to Record Video

Your Neuros MPEG-4 Recorder can record full screen video to either an SD card or a CF card.



NOTICE *When you record a movie, a folder called movie is created on your Neuros MPEG-4 Recorder. Recorded movies are automatically stored in this folder. If files other than recorded movies are put in this folder, they will not be accessible.*

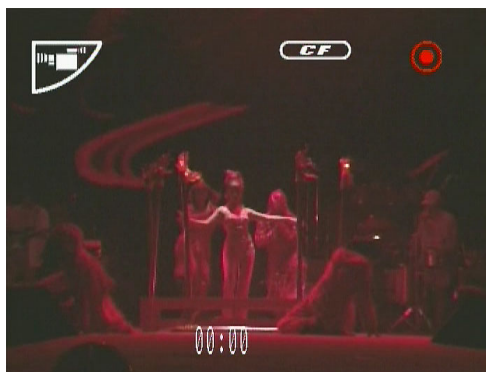
1. Connect the Neuros MPEG-4 Recorder to your TV and/or stereo and enter the **Player** menu as described in **Section 3.1, “Accessing the On Screen Interface”** on page 17.
2. You will also need to connect a video input to your Neuros MPEG-4 Recorder using the **AV IN** socket. This could be a video camera, VCR or DVD player. See **Section 2.1, “Making Connections”** on page 5 for details on how to do this.
3. From the **Player** Menu, use the ▲ and ▼ buttons to highlight the **Video Record** option and use the ⏏ button to confirm your selection.

The Neuros MPEG-4 Recorder will check memory availability before recording. If there is insufficient memory available, a “Device full” message will be displayed in the bottom left corner.



Recording From Video Camera or VCR.

You can view the video input before starting to record.



Video Record Monitor

4. Adjust the volume using the ▲ and ▼ buttons before recording.
5. Use the ● button on the remote control to begin recording. The red icon appears on the top right corner of TV.
6. Use the ● or ⏏ buttons to stop recording. The red icon disappears automatically.

3.6.1 Video Record Setup

The **Video Record Setup** menu allows you to set the quality of your recorded video and the Auto Record duration.



Video Record Setup Menu.

1. Enter the **Video Record Setup** menu using the  button on the remote control from the **Video Recorder**.
2. Use the  and  buttons to highlight the required option.
3. Use the  and  buttons to toggle options for each selection.
4. Use the  button to confirm your setup choice.
5. Use the  button to return to the directory view.

3.6.2 *Quality*

The **Economic** quality setting will use the least amount of memory but the quality of the recording will be low. The **Fine** setting will use more memory but provide a better quality recording. The **Superfine** setting provides the best quality video but uses up a lot of memory. The **Normal** setting provides a balance between quality and memory usage that will be adequate most of the time.

Recording times

Card Size	Duration, Superfine Quality (1536 bit rate)	Duration, fine quality (1152 bit rate)	Duration, normal quality (576 bit rate)	Duration, economic quality (384 bit rate)
64 MB	5 min 41 sec	7 min 35 sec	15 min 10 sec	22 min 45 sec
128 MB	11 min 22 sec	15 min 10 sec	30 min 20 sec	45 min 30 sec
256 MB	22 min 44 sec	30 min 20 sec	60 min 40 sec	91 min
512 MB	45 min 32 sec	59 min 36 sec	118 min 32 sec	177 min 48s
1 GB	90 min 56 sec	121 min 20 sec	242 min 40 sec	364 min

1. Use the  and  buttons to highlight the **Quality** option.
2. Use the  and  buttons to toggle between **Normal**, **Economic**, **Superfine** and **Fine** options.
3. Use the  button to confirm your choice.
4. Press the  button to return to the Player menu.

3.6.3 Auto Record

The **Auto record** function allows you to set the Neuros MPEG-4 Recorder to record unattended for a preset length of time.

1. Use the  and  buttons to highlight the **Auto Record** option.
2. Use the  and  buttons to toggle between OFF, 30 min, 1 hr, 2 hr, or 4hr.
3. Use the  button to confirm your choice.

When recording starts, the Neuros MPEG-4 Recorder will record for the preset length of time, or until it is stopped manually if the **Auto Record** setting is set to **OFF**.

3.6.4 Resolution

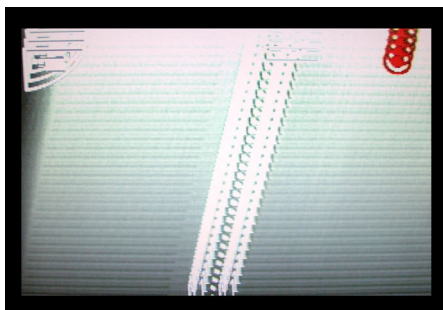
The **Resolution** function allows you to set two different screen sizes.

1. Use the  and  buttons to highlight the **Resolution** option.
2. Use the  and  buttons to toggle between SIF (352 X 240) (Standard Input Format) and QCIF (176 X 144) (Quarter Common Intermediate Format).
3. Use the  button to confirm your choice.

3.7 Using the Neuros MPEG-4 Recorder to record TV programs using TV itself

1. Connect the Neuros MPEG-4 Recorder to a television for recording TV programs as described in **Section 2.1.3, “Connecting to a Television for Recording using TV itself” on page 7.**
2. Enter the **Player** menu as described in **Section 3.1, “Accessing the On Screen Interface” on page 17.**
3. Use TV remote control to set “TV/VIDEO” options of TV to TV mode. The TV screen will switch the player menu to the broadcast TV program. Then, select a TV channel program you’d like to record.
4. Use TV remote control to set the “TV/VIDEO” options of TV to VIDEO mode. The TV screen will switch the broadcast TV program back to player menu again.
5. From the **Player** Menu, use the  and  buttons to highlight the **Video Record** option and use the  button to confirm your selection.

The TV screen can’t be displayed normally as shown in below two figures depending on different record resolution setting.



SIF Mode



QSIF Mode

6. Adjust the volume using the ▲ and ▼ buttons before recording.
7. Use the ● button on the remote control to begin recording. The red icon appears on the top right corner of TV.
8. Use TV remote control to set the “TV/VIDEO“ options of TV to TV mode, so that you can enjoy the broadcast TV program and record it simultaneously.
9. To stop recording, go back to video mode of TV by following step 4 in above. Then, use the ● or ○/■ buttons to stop recording and the RED icon disappears automatically.

3.8 Using the Neuros MPEG-4 Recorder as a Card Reader

The Neuros MPEG-4 Recorder can be used as a Compact Flash or Secure Digital card reader. Use the supplied USB cable to attach the Neuros MPEG-4 Recorder to a PC as described in **Section 2.1, “Making Connections” on page 5**. On a Windows 2000/XP PC, the Neuros MPEG-4 Recorder will add two removable drives to your computer, one for media in the CF slot and one for media in the SD slot.

You can browse and manipulate the contents of the media as you would with the contents of any other drive on your PC.

Appendix

Specifications

Photo Viewer	
Support Base-line	JPEG
Thumbnail picture display for EXIF file	
Rotation	90 degree x 4
Pan function to see the exact resolution of picture	
Digital Zoom	15 step from 1x to 2x
Slide show	Slide Selected files or All files
Image Processing	Horizontal Mirror Vertical Mirror Inverse Monochrome
Video Recording	
The video file format is ASF format	25 fps@ 352x240 pixel video resolutionVideo
Video Player	
MPEG4 decoding with G.726 audio. The video file format is ASF format	30 fps @ 352x240 pixel video resolution.
MPEG4(SP) with MP3	30 fps @ 320x240 pixel video resolution.

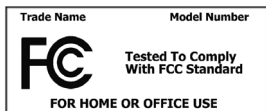
Audio Player	
MP3	32KHz, 44.1KHz, 48KHz
AAC	32KHz, 44.1KHz, 48KHzu (option)
Storage	
Storage interface:	Compact Flash card and SD.
File Copy	
CF to/from SD	Connect to USB pen driver or USB HDD
USB Pen Drive to CF or SD	Connect to USB pen driver or USB HDD
Others	
USB2.0 slave mode	Support mass storage class
Remote Control	12 keys
Audio/Video Input	
Audio/Video Output	
Power Adaptor DC Input	5Volt/1.5Amp
Dimension	
Dimensions	118mm x 87mm x 18mm (4.65" x 3.43" x 0.71")

Upgrading the Firmware

1. Copy “main.hex” to the CF card.
2. Press  to show the setup menu.
3. Use  and  to select “Upgrade” then press  to confirm your selection.
4. Select “Yes” to begin the firmware upgrade.

The upgrade will take about 4 minutes to complete and a message will be displayed to indicate that the process has been successful. Turn the Neuros MPEG-4 Recorder off, remove the power adapter and restart.

FCC Certification



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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

You are cautioned that any change or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate such equipment.

Troubleshooting

Symptom	Possible Cause	Possible Remedy
No video display.	Unit has no power.	Refer to Chapter 2 to ensure that unit is plugged in correctly. You should see a green LED on the front panel.
	TV/PC switch set to PC.	Switch to TV.
	Cable connecting AV OUT to video monitor is not properly configured.	Refer to Chapter 2 for how to properly attach video output cable.
Remote control not functioning.	Remote control sensor on Neuros MPEG-4 Recorder is obscured.	Ensure that a line of sight exists between the remote control and the sensor on the Neuros MPEG-4 Recorder
	Low battery power.	Replace battery in remote control.
Media not recognized by Neuros MPEG-4 Recorder	Media not inserted properly.	Refer to Chapter 2 for proper handling of Compact Flash and Secure Digital memory. Never force media into the Neuros MPEG-4 Recorder.

Warranty

Neuros Limited Warranty - Parts and Labor

Neuros Audio, LLC ("NA") warrants your Neuros MPEG-4 Recorder and accessories to be free from defects in material and workmanship within the following warranty period, starting from the date of sale to the original consumer purchaser.

1 Year - Parts and Labor

If this product should prove defective within the one year warranty period, NA will repair or replace the product (at its sole discretion) free of charge. Said product must be returned to NA at the consumer's expense and must include dated proof of purchase. NA warrants replacement products or parts provided under this warranty against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you.

This warranty does not apply to any Neuros digital audio computer and accessories that are used for commercial, rental, or industrial purposes, are damaged by accident, misuse, abuse, improper line voltage, water, lightning, or any acts of God. This warranty is void if product is altered, modified, or if any parts or service covered by this warranty are furnished by anyone other than NA or its Authorized Warranty Station. This warranty does not cover carrying cases, batteries, cosmetic parts, or any other accessories used in connection with the product or consequential damages due to a defect in the product.

ALL IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THIS WARRANTY. THIS IS THE COMPLETE WARRANTY BY NA AND NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS VALID AGAINST NA. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR AN EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

If your Neuros MPEG-4 Recorder or accessories should prove defective during the warranty period, contact NA, and on request NA will give you information on where to send your unit for warranty service. Your dated sales receipt or other proof of purchase will establish your eligibility for warranty service. NA will be responsible only for labor or parts, as applicable, rendered under this warranty and not the loss of any unit, or stored data or programs, delivered to NA or its Authorized Warranty Station.

This warranty gives you specific legal rights, and you may have other rights which may vary from jurisdiction to jurisdiction.

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