

M-AUDIO

MICROTRACK 24/96

Professional 2-Channel Mobile Digital Recorder



USER GUIDE

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1 - Introduction

Congratulations on your purchase of the M-Audio MicroTrack 24/96. The MicroTrack 24/96 is a portable recorder that can record stereo audio signals directly to CompactFlash media in either WAV or MP3 format. The MicroTrack 24/96 has an internal rechargeable battery. There are connections for 1/8" electret microphones, as well as professional 1/4" TRS inputs for dynamic and condenser microphones. The MicroTrack 24/96 will supply 5V for electret mics and phantom power for condenser mics. You can also connect your MicroTrack 24/96 to a computer via the USB connection. This connection will allow audio files to be transferred to and from the computer as well as providing power to recharge the MicroTrack 24/96 battery. While the MicroTrack 24/96 is simple to use, we still suggest that you read through this entire manual to familiarize yourself with all the functions contained within this portable unit.

What's in the Box

You should have received the following items in your MicroTrack 24/96 box:

- MicroTrack 24/96 unit
- USB cable
- Stereo "T" microphone
- Earbuds
- Protective bag
- USB power supply
- CompactFlash card
- Printed Quick Start Guide
- CD-ROM containing this User Manual and Audacity editing software

Product Features

- Records stereo WAV and MP3 files
- 16- or 24-bit recording and playback
- Supports common sample rates from 44.1kHz to 96kHz
- Built-in rechargeable battery*
- Back-lit LCD display
- 2 x 1/4" TRS mic/line inputs with phantom power
- 1 x 1/8" stereo electret mic input with 5V power
- 1 x 1/8" headphone output
- 2 x RCA line outputs
- 1 x S/PDIF input
- 1 x USB connector
- Uses CompactFlash or Microdrives of any size (64MB minimum)

** Battery life is dependent on the usage scenario. For example, a stereo recording from two condenser mics with phantom power switched on will deplete the battery quicker than just listening to audio playback.*

Minimum System Requirements

PC:

- Windows 2000 (SP4) or Windows XP (SP1)
- Available USB port

Mac:

- Mac OS X 10.2.8, Mac OS X 10.3.7, or Mac OS X 10.4
- Available USB port

Manual Conventions

There are a few conventions used in this manual to differentiate buttons, actions, and displays from one another. Names of buttons on the MicroTrack 24/96 are shown in brackets, such as [MENU]. Actions performed by the user are shown in italics, such as *press in and hold the [NAV] wheel*. Finally, text shown on the LCD screen of the MicroTrack 24/96 is shown in quotes, such as "Battery Charged."

2 - Installation Procedure

No Drivers Required

The MicroTrack 24/96 is a self-contained portable recorder that is ready to use right out of the box. Furthermore, the MicroTrack 24/96 is class-compliant, meaning that you do not need to install any special drivers when connecting the MicroTrack 24/96 to your computer.

Charging the Battery with the USB Power Supply

Before you begin using your new recorder, it is essential that you fully charge the MicroTrack 24/96 battery. **Failure to fully charge the battery before first use can limit the capacity of the battery, lowering the total recording time of the MicroTrack 24/96.** Connect the MicroTrack 24/96 to the USB power supply using the included USB cable to begin charging the MicroTrack 24/96. When done, "Charging Complete" will be displayed on the MicroTrack 24/96 screen.

You will have to recharge the battery from time to time as you use the device. There is a battery meter icon in the upper-right corner of the MicroTrack 24/96's playback screen that shows the estimated battery power remaining. When the battery power is nearly depleted, "MicroTrack 24/96 battery very low" will be shown on the LCD display. When this message appears, you should recharge the MicroTrack 24/96 immediately. If you continue to run the MicroTrack 24/96 on battery, the unit will eventually turn off. You will then have to recharge the battery before the MicroTrack 24/96 can be turned on again.

If you recharge the battery before the unit becomes inoperable, the charge time will be approximately 2.5 hours. If you drain the battery to a point where the MicroTrack 24/96 will no longer turn on, a full charge can take approximately 6.5 hours.

Formatting the Recording Media

The MicroTrack 24/96 records directly to CompactFlash cards or MicroDrives. In both cases, these mediums must be formatted before they can be used. The MicroTrack 24/96 can format the media with the following procedure:

NOTE: *Formatting a CompactFlash card or MicroDrive will erase all of its data. Thus, formatting can be used as a method for deleting the entire contents of a card or drive.*

1. Insert your media, either a CompactFlash card or Microdrive, into the MicroTrack 24/96. This can be done with the MicroTrack 24/96 on or off.
2. Make sure the MicroTrack 24/96 is on, then press the [MENU] button to enter the MicroTrack 24/96 Settings menu.
3. Press down on the [NAV] wheel until "System" is selected and press in on the [NAV] wheel.
4. Press down on the [NAV] wheel until "Format Media" is selected, then press in on the [NAV] wheel.
5. The screen will show "Format Media?" Press in on the [NAV] wheel to continue.
6. The screen will now read "Are you sure?" Press in on the [NAV] wheel to begin formatting.
7. When the process is finished, "Media Formatted" will be shown on the display.

3 - Hardware Controls and Indicators

Front



1. **Power Button:** This button turns the MicroTrack 24/96 on and off.
2. **LCD Display:** Shows the current status of the MicroTrack 24/96.
3. **Clip Indicators:** Will light when an input signal exceeds the headroom of the MicroTrack 24/96.
4. **Input Levels Adjust:** These control the individual record levels of the MicroTrack 24/96's left and right inputs.
5. **Signal Indicators:** Will light when a signal is detected at the associated input.
6. **Delete Button:** Will delete files.
7. **Output Level Adjust:** Controls the output volume of the MicroTrack 24/96.
8. **Record Button:** Used to start and stop recording.

Top



- 9. **Stereo Mic Input Jack:** This 1/8" stereo mini-jack is used for connecting a mono or stereo electret microphone.
- 10. **Mic/Line Input Jacks:** These 1/4" TRS jacks accept microphone and line-level signals.
- 11. **Headphone Jack:** Connect a pair of headphones with an 1/8" plug for monitoring the MicroTrack 24/96.

Bottom



- 12. **RCA Outputs:** Line-level outputs from the MicroTrack 24/96.
- 13. **S/PDIF Input:** Allows a S/PDIF format digital signal to be recorded by the MicroTrack 24/96.
- 14. **USB Input:** Connect the MicroTrack 24/96 to a host computer with this input. Will also charge the MicroTrack 24/96 battery when connected.

Left

15. **Menu Button:** Will access the MicroTrack 24/96 menu and enter Loop Playback mode.
16. **Hold Switch:** When active, all buttons on the MicroTrack 24/96 will be disabled. If you attempt to operate the MicroTrack 24/96 while the Hold switch is on, "HOLD switch on" will be shown on the LCD display.
17. **L/M/H Switch:** Sets the operating mode of the 1/4" TRS and 1/8" inputs. Use the 'L' position for line-level devices. The 'M' position should be used when recording from microphones. The 'H' position uses a higher gain stage on the 1/4" TRS inputs, which can help when recording quiet signals or using microphones with low output levels. The 'H' position does not boost the input gain of the 1/8" input.
18. **Phantom Power Switch:** Switches on the phantom power for the 1/4" TRS inputs. When active, a "phantom power" icon will be shown on the LCD display. Phantom power should only be used with condenser microphones.



19. **Nav Wheel:** This is a multi-function control that is dependent on the current playback state of the MicroTrack 24/96. The control can be moved up or down, and you can also press in on the control to activate certain functions.
20. **Memory Slot:** Insert CompactFlash cards or Microdrives here.
21. **Eject Button:** Press this button to remove the CompactFlash card and/or Microdrive. This button folds flat into the housing of the MicroTrack 24/96 to prevent it from breaking or being pressed accidentally.

Settings Menu

Pressing the [MENU] button will display a list of options (the Settings menu) on the MicroTrack 24/96's display, shown below. You can then push up and down on the [NAV] wheel to move through the selections (the selected menu item will be shown in **bold print**). Pressing in on the [NAV] wheel will activate the current selection or enter a sub-menu. The [MENU] button is used to exit a sub-menu.

When first entering the Settings menu, you will be presented with the following options, each explained in detail in the following sections:

1. **Files:** Will present a list of all the files and folders contained in memory. You can choose a file to play or delete from this list.
2. **Recording:** Used to set the recording parameters for the MicroTrack 24/96.
3. **Back Light:** Contains timing options for the backlight.
4. **System:** Provides access to advanced features and settings of the MicroTrack 24/96.

Files Menu

This menu displays a list of all the folders and files contained on the current CompactFlash card or Microdrive.

- Press up and down on the [NAV] wheel to move the selection up and down through this list.
- To open a folder, select it and press in on the [NAV] wheel.
- To exit a folder, press the [MENU] button.
- To play a file, select it and press in on the [NAV] wheel.
- To delete a file, select it and press the [DEL] button.

Recording Menu

This menu lets you determine the recording format for subsequent audio recordings; changing these settings will have no effect on any of the files currently stored in memory. This menu will show a list of parameters with their values after them. To change the values, first select the parameter by pressing up or down on the [NAV] wheel then press in on the [NAV] wheel to select the parameter. Once selected, pressing up or down on the [NAV] wheel will change the value of the parameter. Once the desired value is shown, press in on the [NAV] wheel to confirm your selection and return to the previous menu. The options in this menu are as follows:

1. **Input Source:** This is where you select which input of the MicroTrack 24/96 to use for recording.
 - 1/8"Chooses the 1/8" mic input as the recording source.
 - TRS-1/4 inch Chooses the 1/4" TRS jacks as the recording source. You will also need to use the [L/M/H] switch to set the operating mode for these inputs.
 - S/PDIFSelects the S/PDIF digital input as the recording source. When S/PDIF is selected, the [LEVELS] buttons will have no effect.
2. **Input Monitoring:** Input Monitoring is the ability to listen to the incoming audio signals before and/or while recording is in progress. This can be extremely helpful when recording digital sources since there's often no other way to hear the digital signal you're trying to record. It will also help you hear if your recording is distorting. When Input Monitoring is active, the currently selected input will be heard at the headphone and RCA outputs. Playback signals will override input monitoring.
3. **27dB TRS Input Boost:** When this option is set to on, incoming signals will be boosted 27dB before being recorded. This is helpful when recording quiet sound sources or when using mics with low output levels.
4. **Encoder:**
 - WAV.Chooses WAV as the recording format. This format is uncompressed and will yield the highest quality recordings. Be aware that the files created in this format can be quite large.
 - MP3.Selects MP3 as the recording format. This format compresses the audio data to yield smaller file sizes. Unlike WAV format, MP3 files are not identical representations of the original signal. They have had portions of the audio signal removed in an effort to keep file sizes to a minimum.
5. **Sample Rate:** The options available in this menu will depend on the Encoder selected above. Keep in mind that file sizes will increase as the sample rate is increased.
 - 44.1 / 48 / 88.2 / 96 These will be the available sample rates when WAV is selected as the encoder. 44.1kHz is the rate for CDs. 96kHz will yield the highest frequency response, but also the largest file size.
 - 44.1 / 48These will be the available sample rates when MP3 has been selected as the Encoder. 44.1kHz is the rate used for CDs.
6. **Bit Depth:** Like Sample Rate, the options shown in this menu will depend on the Encoder selected above. Keep in mind that file sizes will increase as this setting is increased.
 - 16 / 24When WAV is selected as the encoder, this menu will allow you to set the bit-depth of your recording. 16-bit is the CD standard. 24-bit will yield increased dynamic range and increased file size.
 - 96 / 128 / 160 / 192 /
 - 224 / 320When MP3 is selected as the encoder, this value will determine the bit-rate of the file. 320kbps will yield the best sounding file, but it will also be the largest.
7. **Channels:**
 - Stereo.The Stereo option will cause the MicroTrack 24/96 to record both the left and right inputs into discrete channels. This is the default setting for the MicroTrack 24/96.
 - MonoThe Mono option will cause the MicroTrack 24/96 to only record one channel of audio instead of two.
8. **Record Time Available:** This is not an adjustable parameter as it merely shows the space available on the media in the MicroTrack 24/96. This information is provided here to help you make a choice of which recording parameters to use. If you see that you're getting low on memory space, you can choose to use MP3 encoding instead of WAV to yield smaller recordings.

Back Light Menu

This menu sets the automatic shutoff time for the MicroTrack 24/96's back light. When set to "always off," the back light will never turn on. When "always on" is selected, the back light will be on whenever the MicroTrack 24/96 is powered on. The other three settings available on this menu determine the amount of time the back light will stay on after the last control is pressed on the MicroTrack 24/96. For example, if "5 seconds" is selected, the back light will turn on any time a button is pressed on the MicroTrack 24/96. The back light will then turn off five seconds after the last button is pressed.

Using the back light will have an effect on the battery life of the MicroTrack 24/96. Using the back light often will drain the battery quickly. Therefore, we recommend only using the back light when necessary in order to yield maximum battery life.

System Menu

1. **Connect to PC:** Switches the MicroTrack 24/96 into host mode so that files on the CompactFlash media can be accessed by a computer.
2. **Format Media:** Used for formatting (erasing) the inserted CompactFlash media.
3. **Link L+R:** Locks the levels of the left and right inputs together.
4. **Playback EQ:** Allows you to select one of the preset EQ curves for file playback.
5. **Scrub Audio:** Allows you to hear audio as you rewind and fast-forward through a file during playback.
6. **Verify Delete:** Turns the Delete confirmation on and off.
7. **Auto Off:** Displays options for conserving power.
8. **Language:** Lets you select a language for the MicroTrack 24/96 display.
9. **Factory Defaults:** Resets the MicroTrack 24/96 to its factory settings.
10. **Firmware Update:** Provides a method for updating the operating system within the MicroTrack 24/96 as new updates are released.
11. **Version:** Shows the current OS version.
12. **Contrast:** Allows adjustment of the display contrast for easy viewing.
13. **Setup Time & Date:** This allows you to set the proper time and date on the device.

■ **Connect to PC Menu**

This menu option is used to connect your MicroTrack 24/96 to your computer when the USB cable is already attached.

1. Selecting this menu option will present you with a screen that says "press NAV key to connect to pc via usb."
2. In order to connect, press in on the [NAV] wheel.
3. When the connection between the MicroTrack 24/96 and your computer is made, the MicroTrack will enter host mode so that files on the media can be accessed by the computer. While in host mode, "M-Audio" will be shown on the screen along with a USB symbol and the MicroTrack 24/96 will not be able to record or play back files.
4. To exit host mode, press the [DEL] key.

■ **Format Media Menu**

This menu allows you to format the inserted CompactFlash or Microdrive media. It is necessary to format your media before you can begin recording. Be aware that formatting a medium will erase any data it contains. Because of this, formatting can be used as a quick way to delete all files on the media.

1. When you first enter this menu option, the screen will read "Format media?"
2. Press in on the [NAV] wheel to continue.
3. You'll then see a message that says "Are you sure?" This is your last chance to cancel the process if you do not want to format (press [MENU] to exit). Otherwise, press in on the [NAV] wheel to start formatting.
4. During the formatting process, "Formatting" will be shown on the MicroTrack 24/96 display. Larger media will take longer to format than smaller media.
5. "Media formatted" will be shown once the formatting process is finished.

■ **Link L+R Menu**

This is a simple on/off menu selection. When this option is set to on, the recording levels of inputs L and R will be matched. If you use the [LEVEL] buttons to adjust the record level of one of the inputs, the other input will automatically be matched to the same level. This is especially useful when making stereo recordings as this setting will preserve the stereo image. When this option is turned off, the input levels of the channels will become independent again.

■ **Playback EQ Menu**

This menu provides access to the six EQ curves built into the MicroTrack 24/96. These curves affect playback only—all recordings are made without EQ. To activate an EQ preset, use the [NAV] wheel to select the curve, then press in to activate it. The EQ has the following settings:

1. **Normal:** This defeats the EQ and provides flat playback response.
2. **Bass Boost:** Increases the low frequencies during playback.
3. **Bass Reducer:** Decreases the low frequencies during playback.
4. **Treble Boost:** Increases the high frequencies during playback.
5. **Treble Reducer:** Decreases the high frequencies during playback.
6. **Treble and Bass Boost:** Increases both the low and high frequencies during playback.

■ **Scrub Audio Menu**

This is an on/off setting that allows you to hear audio as you rewind and fast-forward through an audio file. When set to on, you will be able to hear bits of the file as you seek. When off, the MicroTrack 24/96 will be silent while seeking.

■ **Verify Delete Menu**

This is a simple on/off menu preference that enables or disables the delete confirmation message. When this feature is on, you will be asked to confirm a file delete any time you press the [DEL] key. This helps prevent accidental erasure of files you wish to keep. When this feature is off, files will be deleted as soon as the [DEL] button is pressed.

■ **Auto Off Menu**

This menu sets the automatic shutoff time for the MicroTrack 24/96. Options range from “Never” to “60 minutes.” With “Never” selected, the MicroTrack 24/96 will only turn off if you press the Power button. Any other value will cause the MicroTrack 24/96 to turn off after the specified time of non-use. Please note: The MicroTrack 24/96 will ignore this setting while in Record, Paused Record, or Playback modes to ensure that recording and playback aren’t suddenly interrupted during use.

■ **Language Menu**

This menu allows you to select the language to be used on the MicroTrack 24/96 display. At the time of this writing, the options are English and Spanish.

■ **Factory Defaults Menu**

Entering this menu option will allow you to reset all of the MicroTrack 24/96’s internal settings to the original factory defaults. When you enter this menu, you will be presented with a confirmation message stating “Return all setting to factory defaults? Press the NAV wheel to confirm.” Press in on the [NAV] wheel to restore the defaults. If you want to cancel this operation, press [MENU] to exit.

■ **Firmware Update Menu**

From time to time, M-Audio may release updates to the operating system for the MicroTrack 24/96. These updates must be loaded into the MicroTrack 24/96 firmware before you can use them. The Update Firmware menu is used to initiate this process. Directions for updating the firmware will be included with the update files you download from the M-Audio website ([HYPERLINK “http://www.m-audio.com”](http://www.m-audio.com) www.m-audio.com).

■ **Version Menu**

Entering this menu will show the current operating system version. There are no adjustable settings in this menu option.

■ **Contrast Menu**

This setting adjusts the contrast of the MicroTrack 24/96 display. Simply press up or down on the [NAV] wheel to adjust this value. Higher values will result in a darker display. Press in on the [NAV] wheel when finished.

■ **Setup Time & Date**

These settings are used to adjust the time and date on the device. Use the [NAV] wheel to make adjustments. Use the [MENU] key to exit.

4 - Operating Instructions

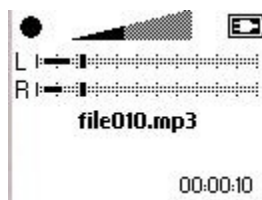
The MicroTrack 24/96 is an easy to use, portable audio recorder. Its emphasis is on creating high-quality recordings that can be transferred easily to a computer. As such, the steps for operating the MicroTrack 24/96 are few and simple to understand.

In essence, the MicroTrack 24/96 has two functions: Recording audio files and playing audio files. Because a file needs to be recorded before it can be played back, we will explain the recording process first, followed by playback and file management functions.

Recording

To begin recording a new audio file, you'll need to connect an audio source to the MicroTrack 24/96, select the proper input source, select your file format, sample rate and bit depth, adjust your recording levels, then initiate the recording. The MicroTrack 24/96 will automatically assign a name to the file in the format "FILExxx.eee" where xxx is a number from 001 to 999 and eee is either "wav" or "mp3." The procedure is outlined below:

1. Connect an audio source to the MicroTrack 24/96. This can be any one of the following:
 - A mono or stereo electret microphone connected to the 1/8" input.
 - One or two professional microphones to the 1/4" TRS inputs. As most professional microphones have XLR connectors, you'll need to use XLR-to-TRS cables to make your connections. Set the [L/M/H] switch to the M, or microphone, position. If you are using a condenser microphone, switch the [phantom power] switch to on.
 - A mono or stereo line-level source to the 1/4" TRS inputs. The [L/M/H] switch should be moved to the L position.
 - A digital source connected to the S/PDIF input.
2. Select the INPUT SOURCE of the MicroTrack 24/96. Use the [MENU] key and [NAV] wheel to select "Settings" > "Recording" > "Input Source." Select the proper input and press the [NAV] wheel in again to make your selection.
3. Select the ENCODER of the MicroTrack 24/96. Use the menu key and [NAV] wheel to select "Settings" > "Recording" > "Encoder." Select MP3 or WAV and press the [NAV] wheel in again to make your selection.
4. Select the SAMPLE RATE of the MicroTrack 24/96. Use the Menu key and [NAV] wheel to select "Settings" > "Recording" > "Sample Rate." Select the appropriate sample rate and press the [NAV] wheel in again to make your selection.
5. Select the BIT RATE of the MicroTrack 24/96. Use the menu key and [NAV] wheel to select "Settings" > "Recording" > "Bit Rate." Select the appropriate bitrate and press the [NAV] wheel in again to make your selection.
6. Enable INPUT MONITORING. This will allow you to see the level of you incoming signal on the MicroTrack 24/96's on-screen meters and hear the input signal when you start to record. This option is enabled by default, but you can manually adjust it by using the [MENU] key and the [NAV] wheel to select "Settings" > "Recording" > "Input Monitoring." Select "On" and press in on the [NAV] wheel to activate.
7. Use the [LEVELS] buttons to adjust the recording levels. Start by pressing the [REC] button. Next, play the loudest sound that you wish to record into the MicroTrack 24/96. For example, if you're recording your band, play the loudest section of the song to set levels. While the sound is being fed into the MicroTrack 24/96, you will see the meters register the audio levels on the LCD. For best quality, you'll want to set the record level as high as possible without clipping (the red indicators on the MicroTrack 24/96 will light if the input clips). Clipping is when the input signal is too loud for the MicroTrack 24/96, thus exceeding the headroom of the recorder. To adjust the recording levels, use the [LEVELS] buttons to increase or decrease the recording levels (shown by triangular markers on the meters). If "Link L+R" is active in the Advanced menu, using one of the [LEVELS] buttons will cause both the left and right channels to be adjusted simultaneously.
8. Once the recording levels and parameters are set, press the [REC] button again to stop the recording. Press the [DEL] button to delete the bit of audio you have just recorded. Press the [REC] button again to start recording your new file.



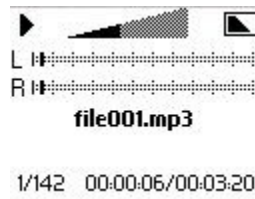
The circle in the upper-left corner of the screen shows that the MicroTrack 24/96 is recording. The numbers in the lower-right corner show the length of the current recording followed by the recording time remaining on the media with the current recording settings.

9. While a file is recording, you can:
 - make adjustments to the record levels if necessary using the [LEVELS] buttons.
 - pause the recording by pushing in on the [NAV] wheel once. To resume recording, push in on the [NAV] wheel again.
 - stop the recording by pressing the [REC] button again.
 - delete the file being recorded by pressing the [DEL] button.
10. Once the recording is stopped, the MicroTrack 24/96 will finish writing the file to memory.

Playback

Now that a file has been recorded, you can play it back to check the recording.

1. Connect the outputs of the MicroTrack 24/96 so you can hear the playback. You can use any combination of the following:
2. Plug a pair of headphones into the 1/8" jack on the MicroTrack 24/96.
3. Connect the RCA outputs to an amplifier or mixer.
4. Press the [MENU] button to enter the Settings menu. The first option, Files, will be selected.
5. Press in on the [NAV] wheel to enter the Files menu. This menu will show all the audio files currently stored on the media. If you've only recorded the one file so far, it will already be selected for playback.
6. Press in on the [NAV] wheel to begin playback of the current file.



The triangle in the upper-left corner of the screen shows that the MicroTrack 24/96 is playing a file. The file being played is "file001.mp3." The numbers in the lower-left corner show that this is file 1 of 142 files on the media. The lower-right corner shows the current play time and the current file length.

7. While an audio file is playing, you can:
 - adjust the volume using the [VOLUME] button.
 - pause playback by pressing in on the [NAV] wheel. Press in again to resume playback.
 - play at half-speed by pressing in and holding the [NAV] wheel for over two seconds. Press in and hold the [NAV] wheel again to resume playback at original speed.
 - fast-forward through the file by pressing and holding up on the [NAV] wheel.
 - rewind the file by pressing and holding down on the [NAV] wheel.
 - skip ahead to the next file by pressing up on the [NAV] wheel.
 - return to the beginning of the file by pressing down on the [NAV] wheel. If you are within the first three seconds of a file, pressing down will skip back to the previous file.
 - delete the file by pressing the [DEL] button.
 - immediately begin recording a new file by pressing the [REC] Button.
 - loop playback of the file using the procedure explained below.

Loop Playback

The MicroTrack 24/96 will allow you to loop a section of an audio file. This can be useful when practicing parts or studying dictation. The method for looping a file requires setting a start and end point, and is accomplished as follows:

1. To engage Loop Playback, press and hold the [MENU] button for over 2 seconds while the file is playing. A Loop Playback icon will be displayed on the LCD.
2. Press the [MENU] button once when you reach the start point of the loop.
3. Press the [MENU] button a second time when you reach the end point of your loop. The section will begin to loop immediately.
4. Pressing the [MENU] button a third time will clear the start and end points, and exit Loop Playback mode. The Loop Playback icon will be removed from the LCD.

While using the Loop Playback mode, you will not be able to skip to other files using the up and down action of the [NAV] wheel. You will only be able to fast-forward or rewind the current file by holding the [NAV] wheel in your desired direction.

5 - Using the MicroTrack 24/96 with a Computer

The MicroTrack 24/96 will interact with a computer for two purposes. First, the MicroTrack 24/96 will charge its battery with power it receives from the computer. Second, the contents of the MicroTrack 24/96's CompactFlash card or Microdrive can be transferred to the computer. Additionally, files can be uploaded to the MicroTrack 24/96 for use later.

Charging the MicroTrack 24/96 from the Computer

To charge the battery of the MicroTrack 24/96 from your computer, connect the MicroTrack 24/96 to your computer using the supplied USB cable. Depending on the manufacturer of your computer, your computer may need to be powered on to provide power to the USB port. Other computers will supply power even if the main power is off. While charging, "Charging" or battery filling icon will be shown on the display. Once the battery is fully charged, "Charging Complete" or battery full icon will be displayed on screen.

Transferring Audio Files

Once you've made some recordings, you'll want to transfer them to your computer so you can use them.

1. Turn the MicroTrack 24/96 off.
2. Connect the MicroTrack 24/96 to your computer using the supplied USB cable. The MicroTrack 24/96 will automatically turn on and will enter host mode.
3. Once communication is established, a new hard drive will be present on your computer. Mac users will see this new hard drive as an icon on their desktop. PC user will find the new hard drive under "My Computer".

To transfer files from the MicroTrack 24/96, simply drag them from the MicroTrack 24/96 to the desired destination on your computer. Your computer will then begin copying the files. To send files back to the MicroTrack 24/96, simply drag the files back into the MicroTrack 24/96 window. You can also create and delete file folders, rename files, and move them to new locations when connected to the computer. These features allow you to organize your collection of recordings with ease.

Portable Data Drive

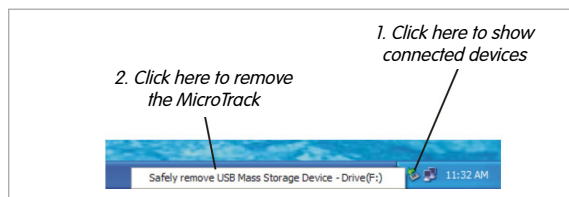
While the MicroTrack 24/96 can only play and record WAV and MP3 files, you can store any file you wish on the MicroTrack 24/96's CompactFlash card or Microdrive. This allows you to use the MicroTrack 24/96 as a portable memory card or hard drive. Any unsupported files in memory will be hidden from the Files menu when using the MicroTrack 24/96, but they will still be there when the MicroTrack 24/96 is reconnected to a computer.

Disconnecting the MicroTrack 24/96 from Your Computer

When you are finished transferring files to and from your computer, you will need to "unmount" the MicroTrack 24/96 from your computer before it can be released from host mode. The procedure for unmounting the MicroTrack 24/96 in each operating system is detailed below.

Disconnecting from Windows XP

To disconnect the MicroTrack 24/96 from Windows XP, click on the "Safely Remove Hardware" icon located in the System Tray.

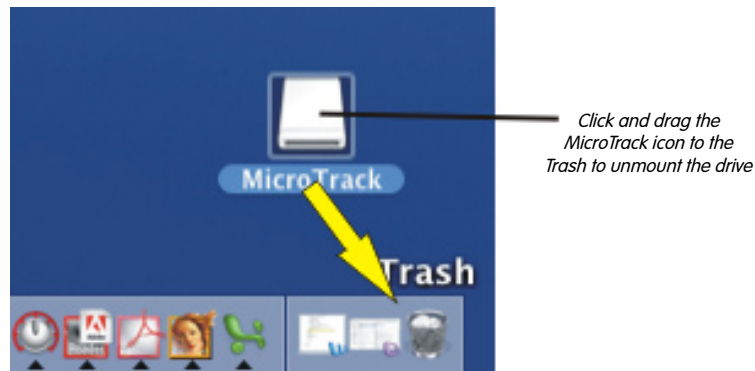


A list of connected devices will be shown. The MicroTrack 24/96 will be listed as a "USB Mass Storage Device." Click this device and Windows will attempt to unmount the MicroTrack 24/96. Windows will only be able to unmount the MicroTrack 24/96 if there are no programs trying to use files contained on the MicroTrack 24/96's CompactFlash media. If Windows says that it cannot remove the MicroTrack 24/96, quit your running programs and try again.

Once the MicroTrack 24/96 has been unmounted, you can press its [DEL] key to exit host mode and return to normal operation.

Disconnecting from Mac OS X

To disconnect the MicroTrack 24/96 from Mac OS X, simply drag the MicroTrack 24/96 icon on your desktop to the trash can. The MicroTrack 24/96 icon will disappear once the unit has been successfully unmounted.



Once the MicroTrack 24/96 has been unmounted, you can press its [DEL] key to exit host mode and return to normal operation.

Swapping CompactFlash Media

If you wish to change out the CompactFlash card or MicroDrive while the MicroTrack 24/96 is connected to the computer, you will have to disconnect the MicroTrack 24/96 using the procedure above before changing out the media. Once you've changed the media, you can reconnect the MicroTrack 24/96 to the computer.

6 - Contact

If you have any questions, comments or suggestions about this or any M-Audio product, we invite you to contact us by using the following information:

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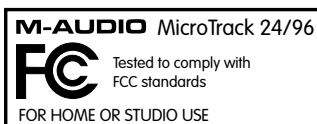
7 - Warranty Terms and Registration

Warranty Terms

M-Audio warrants products to be free from defects in materials and workmanship, under normal use and provided that the product is owned by the original, registered user. Visit www.m-audio.com/warranty for terms and limitations applying to your specific product.

Warranty Registration

Thank you for registering your new M-Audio product. Doing so immediately both entitles you to full warranty coverage and helps M-Audio develop and manufacture the finest quality products available. Register online at www.m-audio.com/register to receive FREE product updates and for the chance to win FREE M-Audio gear



8 - Appendix

Recording Time vs. Media Chart

MPR Media Recording Times

Media Capacity (MB)	MP3 Recording Time in Seconds						MP3 bit rate
	96000	128000	160000	192000	224000	320000	
64	5592	4194	3355	2796	2397	1678	
128	11185	8389	6711	5592	4793	3355	
256	22370	16777	13422	11185	9587	6711	
512	44739	33554	26844	22370	19174	13422	
1024	89478	67109	53687	44739	38348	26844	
2048	178957	134218	107374	89478	76696	53687	
4096	357914	268435	214748	178957	153392	107374	
6144	536871	402653	322123	268435	230088	161061	
8192	715828	536871	429497	357914	306783	214748	
MP3 Recording Time in [Days]:H:M:S							
64	[0]:1:33:12	[0]:1:9:54	[0]:0:55:55	[0]:0:46:36	[0]:0:39:57	[0]:0:27:58	
128	[0]:3:6:25	[0]:2:19:49	[0]:1:51:51	[0]:1:33:12	[0]:1:19:53	[0]:0:55:55	
256	[0]:6:12:50	[0]:4:39:37	[0]:3:43:42	[0]:3:6:25	[0]:2:39:47	[0]:1:51:51	
512	[0]:12:25:39	[0]:9:19:14	[0]:7:27:24	[0]:6:12:50	[0]:5:19:34	[0]:3:43:42	
1024	[1]:0:51:18	[0]:18:38:29	[0]:14:54:47	[0]:12:25:39	[0]:10:39:8	[0]:7:27:24	
2048	[2]:1:42:37	[1]:13:16:58	[1]:5:49:34	[1]:0:51:18	[0]:21:18:16	[0]:14:54:47	
4096	[4]:3:25:14	[3]:2:33:55	[2]:11:39:8	[2]:1:42:37	[1]:18:36:32	[1]:5:49:34	
6144	[6]:5:7:51	[4]:15:50:53	[3]:17:28:43	[3]:2:33:55	[2]:15:54:48	[1]:20:44:21	
8192	[8]:6:50:28	[6]:5:7:51	[4]:23:18:17	[4]:3:25:14	[3]:13:13:3	[2]:11:39:8	

Media Capacity (MB)	WAV Recording Time in Seconds							
	16 44100	16 48000	16 88200	16 96000	24 44100	24 48000	24 88200	24 96000
64	380	350	190	175	254	233	127	117
128	761	699	380	350	507	466	254	233
256	1522	1398	761	699	1014	932	507	466
512	3043	2796	1522	1398	2029	1864	1014	932
1024	6087	5592	3043	2796	4058	3728	2029	1864
2048	12174	11185	6087	5592	8116	7457	4058	3728
4096	24348	22370	12174	11185	16232	14913	8116	7457
6144	36522	33554	18261	16777	24348	22370	12174	11185
8192	48696	44739	24348	22370	32464	29826	16232	14913
WAV Recording Time in H:M:S								
64	0:6:20	0:5:50	0:3:10	0:2:55	0:4:14	0:3:53	0:2:7	0:1:57
128	0:12:41	0:11:39	0:6:20	0:5:50	0:8:27	0:7:46	0:4:14	0:3:53
256	0:25:22	0:23:18	0:12:41	0:11:39	0:16:54	0:15:32	0:8:27	0:7:46
512	0:50:43	0:46:36	0:25:22	0:23:18	0:33:49	0:31:4	0:16:54	0:15:32
1024	1:41:27	1:33:12	0:50:43	0:46:36	1:7:38	1:2:8	0:33:49	0:31:4
2048	3:22:54	3:6:25	1:41:27	1:33:12	2:15:16	2:4:17	1:7:38	1:2:8
4096	6:45:48	6:12:50	3:22:54	3:6:25	4:30:32	4:8:33	2:15:16	2:4:17
6144	10:8:42	9:19:14	5:4:21	4:39:37	6:45:48	6:12:50	3:22:54	3:6:25
8192	13:31:36	12:25:39	6:45:48	6:12:50	9:1:4	8:17:6	4:30:32	4:8:33

Media Capacity (MB)	MP3 Recording Time in Seconds						MP3 bit rate
	96000	128000	160000	192000	224000	320000	
64	5592	4194	3355	2796	2397	1678	
128	11185	8389	6711	5592	4793	3355	
256	22370	16777	13422	11185	9587	6711	
512	44739	33554	26844	22370	19174	13422	
1024	89478	67109	53687	44739	38348	26844	
2048	178957	134218	107374	89478	76696	53687	
4096	357914	268435	214748	178957	153392	107374	
6144	536871	402653	322123	268435	230088	161061	
8192	715828	536871	429497	357914	306783	214748	
MP3 Recording Time in [Days]:H:M:S							
64	[0]:1:33:12	[0]:1:9:54	[0]:0:55:55	[0]:0:46:36	[0]:0:39:57	[0]:0:27:58	
128	[0]:3:6:25	[0]:2:19:49	[0]:1:51:51	[0]:1:33:12	[0]:1:19:53	[0]:0:55:55	
256	[0]:6:12:50	[0]:4:39:37	[0]:3:43:42	[0]:3:6:25	[0]:2:39:47	[0]:1:51:51	
512	[0]:12:25:39	[0]:9:19:14	[0]:7:27:24	[0]:6:12:50	[0]:5:19:34	[0]:3:43:42	
1024	[1]:0:51:18	[0]:18:38:29	[0]:14:54:47	[0]:12:25:39	[0]:10:39:8	[0]:7:27:24	
2048	[2]:1:42:37	[1]:13:16:58	[1]:5:49:34	[1]:0:51:18	[0]:21:18:16	[0]:14:54:47	
4096	[4]:3:25:14	[3]:2:33:55	[2]:11:39:8	[2]:1:42:37	[1]:18:36:32	[1]:5:49:34	
6144	[6]:5:7:51	[4]:15:50:53	[3]:17:28:43	[3]:2:33:55	[2]:15:54:48	[1]:20:44:21	
8192	[8]:6:50:28	[6]:5:7:51	[4]:23:18:17	[4]:3:25:14	[3]:13:13:3	[2]:11:39:8	

Media Capacity (MB)	WAV Recording Time in Seconds						
	16 44100	16 48000	16 88200	16 96000	24 44100	24 48000	24 88200
64	380	350	190	175	254	233	127
128	761	699	380	350	507	466	254
256	1522	1398	761	699	1014	932	507
512	3043	2796	1522	1398	2029	1864	1014
1024	6087	5592	3043	2796	4058	3728	2029
2048	12174	11185	6087	5592	8116	7457	4058
4096	24348	22370	12174	11185	16232	14913	8116
6144	36522	33554	18261	16777	24348	22370	12174
8192	48696	44739	24348	22370	32464	29826	16232
WAV Recording Time in H:M:S							
64	0:6:20	0:5:50	0:3:10	0:2:55	0:4:14	0:3:53	0:2:7
128	0:12:41	0:11:39	0:6:20	0:5:50	0:8:27	0:7:46	0:4:14
256	0:25:22	0:23:18	0:12:41	0:11:39	0:16:54	0:15:32	0:8:27
512	0:50:43	0:46:36	0:25:22	0:23:18	0:33:49	0:31:4	0:16:54
1024	1:41:27	1:33:12	0:50:43	0:46:36	1:7:38	1:2:8	0:33:49
2048	3:22:54	3:6:25	1:41:27	1:33:12	2:15:16	2:4:17	1:7:38
4096	6:45:48	6:12:50	3:22:54	3:6:25	4:30:32	4:8:33	2:15:16
6144	10:8:42	9:19:14	5:4:21	4:39:37	6:45:48	6:12:50	3:22:54
8192	13:31:36	12:25:39	6:45:48	6:12:50	9:1:4	8:17:6	4:30:32

Media Capacity (MB)	MP3 Recording Time in Seconds						MP3 bit rate
	96000	128000	160000	192000	224000	320000	
64	5592	4194	3355	2796	2397	1678	
128	11185	8389	6711	5592	4793	3355	
256	22370	16777	13422	11185	9587	6711	
512	44739	33554	26844	22370	19174	13422	
1024	89478	67109	53687	44739	38348	26844	
2048	178957	134218	107374	89478	76696	53687	
4096	357914	268435	214748	178957	153392	107374	
6144	536871	402653	322123	268435	230088	161061	
8192	715828	536871	429497	357914	306783	214748	

MP3 Recording Time in [Days]:H:M:S						
64	[0]:1:33:12	[0]:1:9:54	[0]:0:55:55	[0]:0:46:36	[0]:0:39:57	[0]:0:27:58
128	[0]:3:6:25	[0]:2:19:49	[0]:1:51:51	[0]:1:33:12	[0]:1:19:53	[0]:0:55:55
256	[0]:6:12:50	[0]:4:39:37	[0]:3:43:42	[0]:3:6:25	[0]:2:39:47	[0]:1:51:51
512	[0]:12:25:39	[0]:9:19:14	[0]:7:27:24	[0]:6:12:50	[0]:5:19:34	[0]:3:43:42
1024	[1]:0:51:18	[0]:18:38:29	[0]:14:54:47	[0]:12:25:39	[0]:10:39:8	[0]:7:27:24
2048	[2]:1:42:37	[1]:13:16:58	[1]:5:49:34	[1]:0:51:18	[0]:21:18:16	[0]:14:54:47
4096	[4]:3:25:14	[3]:2:33:55	[2]:11:39:8	[2]:1:42:37	[1]:18:36:32	[1]:5:49:34
6144	[6]:5:7:51	[4]:15:50:53	[3]:17:28:43	[3]:2:33:55	[2]:15:54:48	[1]:20:44:21
8192	[8]:6:50:28	[6]:5:7:51	[4]:23:18:17	[4]:3:25:14	[3]:13:13:3	[2]:11:39:8

Media Capacity (MB)	WAV Recording Time in Seconds								bit-width sample rate
	16 44100	16 48000	16 88200	16 96000	24 44100	24 48000	24 88200	24 96000	
64	380	350	190	175	254	233	127	117	
128	761	699	380	350	507	466	254	233	
256	1522	1398	761	699	1014	932	507	466	
512	3043	2796	1522	1398	2029	1864	1014	932	
1024	6087	5592	3043	2796	4058	3728	2029	1864	
2048	12174	11185	6087	5592	8116	7457	4058	3728	
4096	24348	22370	12174	11185	16232	14913	8116	7457	
6144	36522	33554	18261	16777	24348	22370	12174	11185	
8192	48696	44739	24348	22370	32464	29826	16232	14913	

WAV Recording Time in H:M:S							
64	0:6:20	0:5:50	0:3:10	0:2:55	0:4:14	0:3:53	0:2:7
128	0:12:41	0:11:39	0:6:20	0:5:50	0:8:27	0:7:46	0:4:14
256	0:25:22	0:23:18	0:12:41	0:11:39	0:16:54	0:15:32	0:8:27
512	0:50:43	0:46:36	0:25:22	0:23:18	0:33:49	0:31:4	0:16:54
1024	1:41:27	1:33:12	0:50:43	0:46:36	1:7:38	1:2:8	0:33:49
2048	3:22:54	3:6:25	1:41:27	1:33:12	2:15:16	2:4:17	1:7:38
4096	6:45:48	6:12:50	3:22:54	3:6:25	4:30:32	4:8:33	2:15:16
6144	10:8:42	9:19:14	5:4:21	4:39:37	6:45:48	6:12:50	3:22:54
8192	13:31:36	12:25:39	6:45:48	6:12:50	9:1:4	8:17:6	4:30:32