

TerraTec



High Quality Audio Decoder

Manual (English)

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CE Declaration of conformity

This product is in conformity with prevailing EU guidelines. A valuation of conformity has been carried out, as stipulated in EU guidelines.

Company: **TerraTec Electronic GmbH · Herrenpfad 38 · D-41334 Nettetal · Germany**

Product: **MP3-CD-Player m3po**

According to Low-Voltage Guideline 73/23/EU The following norm has been observed:

EN 60 065: 1993

According to Electromagnetic Sociability Guideline 89/336/EU, the following norms have been observed:

EN 55 013: 1990 · EN 55 020-1: 1995

(incorporating EN 55 013: 1991 + 1995)

The company holds the following documentation available on request:

- Manual
- Testing documents
- Other technical documentation

Nettetal, 26.04.2000



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Box contents.

First, you might want to check the contents of your box. In doing so, you should come across the following items:

- The Player,
- a remote control unit with batteries,
- a power chord,
- a cinch-chord,
- one MP3 demo CD,
- screws for installing the optional hard disk,
- this manual,
- a menu overview
- and finally, a registration card.

SETUP, MAINTENANCE AND SAFETY DIRECTIONS.

- The player needs to be placed on a level and dry surface to avoid fire, damage, or electrical shocks.
- Keep it away from radiators and hi-fi equipment. This will avoid excessive heat building up. In particular, do not place any devices with no feet and nothing containing liquids like bottles or plant pots on your m3po.
- When connecting to an AC outlet, ensure that the correct voltage is supplied to the m3po.
- If you don't use the m3po for a longer period of time, you disconnect it. To avoid short circuits, never pull on the cable, pull on the plug instead. You should also disconnect the m3po during thunderstorms.
- If you open the case to install a hard disk, you must disconnect it first! In addition, please follow the instructions in this manual to the letter.
- If the player is exposed to strong temperature fluctuations, leave it for about one hour **without** connecting it, as condensation could have built up inside the case, which could compromise its functionality.

Important: the m3po incorporates a class 1 laser product which operates with invisible, potentially hazardous laser beams.



- Clean the m3po-Player with a dry or slightly damp, non-fuzzy cloth. Chemical cleaning products may damage the surface and should not be used.

Tip! After installing the hard disk, check the case for any small animals or rodents (Mice, moths, etc.).



The battery.

Inside the case, we have installed the following battery type:

Description:	CR2032
Type:	Lithium
Primary:	Yes
Quantity:	1
Weight:	3g

Install new batteries only after consulting our technicians and make sure you insert it correctly ('+' facing upwards).

Never subject the battery to fire or high temperature. It could leak or even explode. When disposing of the battery, please do so in an appropriate manner.

The power supply.

The power supply runs on 40W with a voltage of 110 to 230 Volt at 50 to 60 Hertz. The unit is fused internally at 250 V/3,15A. Do not attempt to change the fuse yourself, instead consult our technicians).

Summary: Simply apply 'common sense' when using the m3po. Deliberate damage is not covered by our warranty. Thank you.

WELCOME.

Great that you have chosen TerraTec's new m3po. This player belongs to a new era of Hi-fi components. You have probably used a CD Player before and most of the basic functions will be familiar to you. TerraTec's m3po, however, takes this concept one step further and incorporates the possibilities of modern Computer and Internet possibilities into a desirable and typical piece of Hi-fi kit.

In this manual, we would like to introduce you to this device as informatively and entertainingly as possible. Again, most of the basic functions will already be familiar to you. The in-depth concept of the m3po and its true capabilities, however, will be described by us in this manual. In addition, you will hear about some of the Internet's possibilities, as well as tips and tricks of how to archive your music in the MP3 format.

We hope you enjoy this manual

... Your TerraTec Team!

Quick guide to the manual.

In order to make this manual as efficient as possible, we have highlighted certain contents in different ways.

A short summary of several paragraphs or explicitly important passages will be framed.



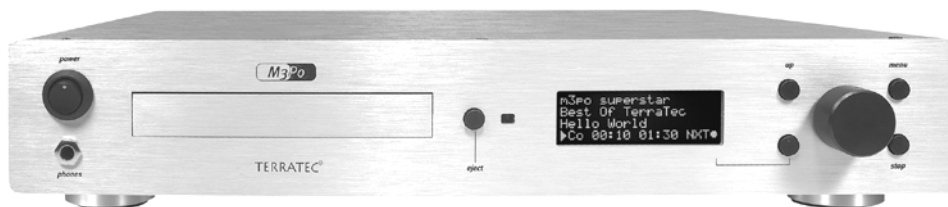
- Display messages on the m3po-Player, are printed in a different font.
- Filenames, which appear in the display of your m3po-Player are printed in a different font.
- Internet Links are printed in a different font.
- " ;-)" indicates a joke. Haha.

UNPACK AND GO! THE QUICK-START TOUR.

Here we have a quick-guide for experienced users, who have used a CD Player in the past. As the SELECT Wheel has a multitude of functions, we presume a certain standard setting for this tour (page 28).



Having unpacked and connected your m3po, the player is ready to go. Power and cinch-chords are to be connected in the usual way. If you want to continue to use your existing CD Player, you may use any input but the phone socket to connect the m3po.



Switch on the m3po-Player and take a look at the display. The machine takes a few seconds to search for internal drives (more on this later).

The message "No CD in drive" will appear. Press EJECT and insert a CD (for the purpose of this tour, please use the supplied demo CD) in the usual way with the label facing upwards. Close the drawer by pressing EJECT for the second time. At this point it should be mentioned, that if your m3po has already a hard disk installed, it will display the main path of the internal HD. However, this should not stop you from pressing EJECT for the second time.

The machine will display "Scanning for files" and the m3po starts searching for MP3 files. Turn the SELECT Wheel clockwise until you find "Welcome m3po".

Press SELECT, that's all. The m3po now plays the chosen title.

What's next?

While m3po does its duty, we'll take a look at what else we can find on the CD. Press SELECT and keep turning – you will find three different symbols in the display window:

- Note – The note indicates a MP3 title. Press SELECT and you can start playing that title at once (or, in "DJ Mode", pre-select that title. More on this later).
- Table – the small table (horizontal lines) represents the playlist. The playlist is a pre-selected sequence of titles you wish the m3po to play. More on this on page 44.
- Arrow – the arrow pointing downwards indicates a file (or directory) in which you can find titles, playlists or more files.

Chose the file "www.callasong.de" and then another file (you won't find any titles or playlists here), which you think might be interesting. You do this exactly the same way as before: simply chose and select.

Now you will see a number of titles in the display (unless, of course you have accidentally chosen the "Intro" file ... there you will find only one title). Play any one of the songs by pressing SELECT. "Welcome m3po" will stop and the new song commences. Pretty quick, no?

Bottom right of the display will show NXT. This abbreviation stands for "next" and indicates the next title. Now press the display button (soft button, bottom left to the wheel). The next title will now be played. This button always carries out, whatever function is displayed on the bottom right-hand corner.

Stopping playback requires your pushing one button: the STOP button. Surprised? Hope not.

Finally, we climb the ladder back up to the top level of the CD. To do so, press UP twice. If everything has worked, then you will be presented with the same data as when you first inserted the CD.

Now you can explore the m3po on your own, The general functions should be clear by now. More detailed information, however, is what this manual is all about. And it starts overleaf.

Enjoy.

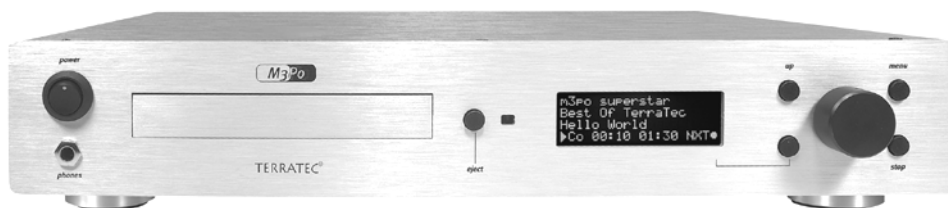
SETUP AND CONNECTION.

This chapter is dedicated to the m3po-Players necessary preparations prior to operating it.



- Carefully remove the m3po-Player from its packaging and place it on a dry and level surface – ideally on a hi-fi rack.
- Connect the supplied cinch-cable to the AUDIO OUT socket of the m3po-Player and the other end to a vacant input on your hi-fi amplifier. You can use the CD, TAPE or AUX socket. The PHONO socket is a definite nono, as this operates on a different input sensitivity. You also need to consider the color coding of the plugs: Red goes to the right input, white (or black) to the left.

If necessary, consult your amplifiers manual on alternative connecting options.

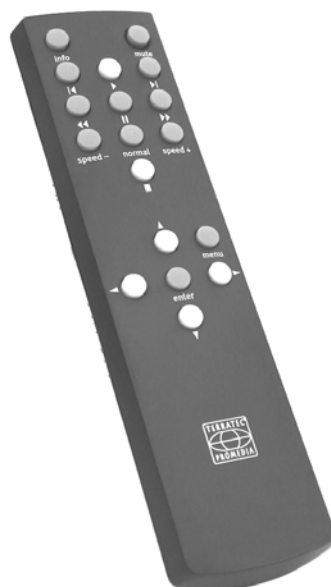


What else can I connect the m3po to?

Your m3po can also be connected to a pair of active speakers (with integrated pre-amps). Even the connection to the line in of a compatible computer soundcard is a possibility, but not really ingenious (the m3po has not been designed with this application in mind).

Remember: The m3po-Player cannot be digitally connected to other devices.

- Plug the power chord into a power outlet.
- Insert the supplied batteries into the remote control unit.



You will also find a headphone socket. This is located under the POWER button on the front panel. The volume can be adjusted in the m3po menu "Volume (Phones)". (page 30).

Your m3po is now ready. Following is a description of the various functions and how to access them. You could follow the tour at the beginning of this manual (page 9) if you have not done this already and if you are already familiar with the basic functions of the player.

The m3po can be integrated into a 19" rack module, the optional "rackit!". You can order it over the Internet.



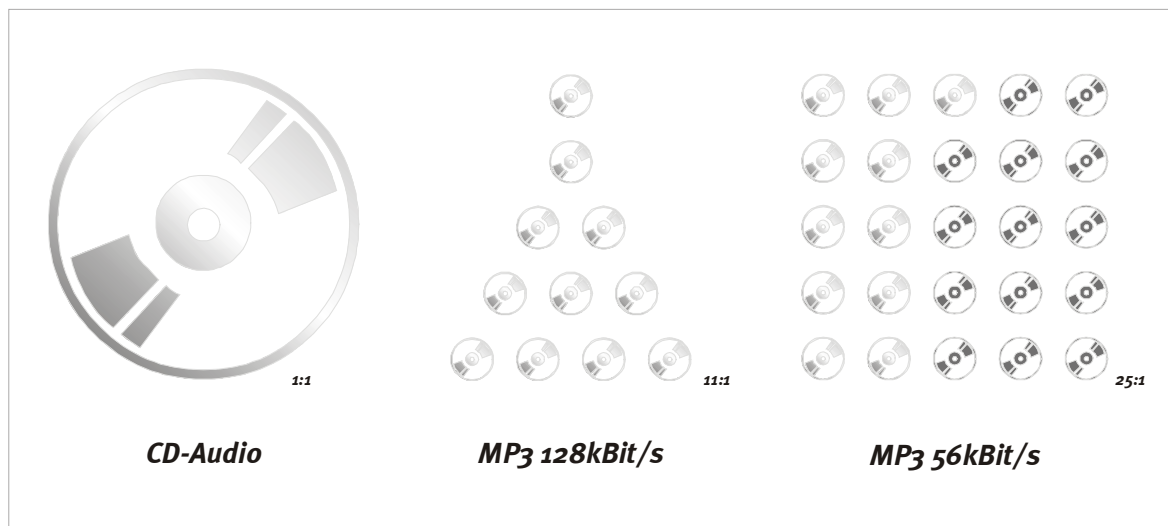
WHAT IS THE M3PO AND WHAT CAN IT DO?

Your new m3po-Player is very similar to a standard CD player. However, there are a number of differences, as the m3po is fundamentally more versatile and more powerful. Don't worry, this does not make it any more complicated.

The m3po is capable of playing standard (Audio) CDs. The operation is akin to a CD player: Insert CD, chose title, press PLAY. In addition to this, it can read and play MP3 data. These can be located on a CD-ROM, or an optional hard disk. The m3po cannot record.

Why MP3?

MP3 is currently the most common format for music on the Internet. Its main advantage is the small size of its audio files, as described in the following example: If you record a standard audio CD on your home PC, then this will use about 650 Megabyte (MB) of hard disk space. Converting this into MP3 files, you are presented with only 1/11 of its original size, roughly 60MB. If the files contain nothing but speech (i.e. language courses), the size of the file can be reduced to 1/25 of its original size, without losing too much of its sound quality. This is quite useful, as you can see:



You will find more information on MP3 in the chapter "Useful information on MP3" on page 46.



You can burn your MP3 files onto CD-R in your computer and it is exactly this feature which distinguishes the m3po from other MP3 players: The CD is much more efficient and cheaper than conventional MP3 players, which use flash ROM chips to store data.

Housekeeping.

Back to your player: Your new m3po plays audio and data Ds. As the CD-R stores eleven times more music than conventional audio CDs, you will need to find a way to keep everything in order and not get lost in this audio jungle. If you own a PC, then you will know the file structure on your hard disk: Programs are located in files, documents, like letters etc in other places. So it makes sense to apply the same approach to filing your MP3-files (classical, Hardcore Gabba or Zappa).



Files which are located on a CD-ROM, will be displayed as such: a small arrow in the display indicates these files. And here we have the main difference between the m3po and a CD player: You 'move' through the directory and chose the titles by name and not by number – for this you only need to use the wheel and the 'UP' (back) button.

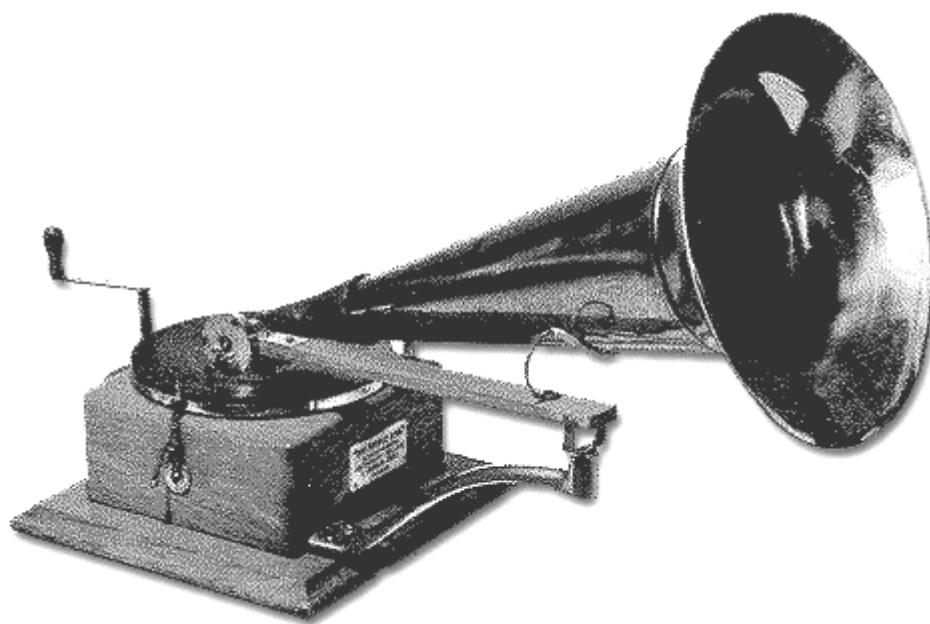
Anything else?

Yes, the m3po can do even more. It can search for titles, it allows you to compile your own playlists, display information about any title (data rates or ID tags), pre-select titles while a different one is playing and vary the playback speed without – like a record player* – changing the pitch. All these functions can be accessed via the display and controlled with the buttons on the front panel or the remote control unit.

Following is a description of all the buttons, and functions "hidden behind the display". You could follow the tour at the beginning of this manual (page 9) if you have not done this already.

** For the ones too young to remember: A record is a spinning disc made from black vinyl, which by the end of the 20th century were only used by 'DJs' ... ;-)*

If you would like to find out more about this cultural heritage, have a look at the following website:



<http://fabdp.fh-potsdam.de/lehre/studpro/steffen/record/head/head.htm>

Please note, that this site has been constructed independently of us and we are not responsible for its contents. Thank you.

USING THE M3PO.

The m3po-Player can be operated easily and intuitively via its front panel or its remote control unit. Apart from the display, the most important element is the SELECT wheel, which doubles up as a button. The UP button takes you to a higher level within the operating menu, MENU calls up the menu and its various settings and STOP will not be explained at all. You might take offence ;-). The same applies to the EJECT and POWER buttons.

THE LC DISPLAY.

The Display on the m3po is like a communication port to the player. Here you find all the information to operate the unit, as well as information on the chosen titles (ID Tags). The display shows file names and folders, which are located on the CD (you can find more information on folders in "What is the m3po and what can it do?" on page 13).

While navigating around the CD or hard disk or while a title is being played, The display will indicate the current playback mode. The "Play mode" and "Repeat & Shuffle" mode can be combined freely. The abbreviations stand for the following:

1. Letter ...	for play mode	2. Letter ...	for Shuffle&Repeat
A_	All titles	_N	Normal
F_	All titles in one folder	_R	Repeat
O_	Only 1 title playing	_S	Shuffle
P_	Playing playlist		
I_	Introsan		
D_	DJ*		

For example: "AN" stands for playback of all titles in sequence. "PS" stands for playback of the playlist in shuffle mode, or random play.

* The "DJ Mode" is always the normal mode. Repeat and shuffle are of course pointless in this mode.

You will find three different symbols in the display window:

- Note – The note indicates an MP3 title. Press SELECT and you can start playing that title at once (or, in "DJ Mode", pre-select that title. More in this later).
- Table – the small table (horizontal lines) represents the playlist. The playlist to program a sequence of titles you want the m3po to play. More on this on page 44.
- Arrow – the arrow pointing downwards indicates a file (or index) in which you can find titles, playlists or more files.

Finally, the display window opens up the functions of the menu, which can be called up by pressing MENU. All menu functions are described in detail on page 19.

THE SELECT WHEEL / ENTER BUTTON.

The SELECT wheel is the main navigation tool of the m3po. Dialing clockwise takes you deeper into the menu, counterclockwise takes you back up. Pressing the wheel, will carry out that function, enters a submenu, changes folders or plays a pre-selected title. In the latter case the display changes its mode and now shows the ID Tags, if available. To carry on navigating, you will need to press the wheel again.

THE UP BUTTON.

Once you have navigated into a folder (for example `Bach` in the `classical` folder), you can move up by one level by pressing the UP button. For example: Press once to return to `classical`, twice to go back to the start. If you press the UP button again, you will go back to choosing CD or hard disk, provided there is one installed.

THE DISPLAY BUTTON (SOFT BUTTON).

Under the wheel to the left, you will find the display button, whose functions depend on the settings on the m3po. Usually, the display will present you with whatever function the button is currently offering. This could be choosing the next title (NXT), the escape function (ESC).

Abbreviation	Function
ADD	Add title to your playlist ("My Playlist").
BCK	Back to "Edit Playlist".
DEL	Delete pre-selected songs in the DJ mode.
Enter	Enter (or confirm entry, e.g. define a folder name).
Enter Password	Enter password to unlock "Party Lock".
ESC	Escape (quit menu or operation of a function).
NXT	Next (play next title).
OPT	Other options for "Edit Playlist".
Search	Starting search or continuing search.
XXX%	Displaying change of speed in % (operated using the wheel). The function of the soft buttons corresponds to NXT.

THE MENU BUTTON.

m3po offers a multitude of menu settings. You gain access to the menu by pressing the MENU button. If you don't carry out any functions at this point for a few seconds, the display switches back to displaying the song title. All menu functions will be described in detail in the chapter "The menu functions" on page 19.

THE STOP BUTTON.

All right: Pressing STOP will stop the playback of the current title. The STOP button is just that – a PAUSE function is only available via the remote control unit.

THE EJECT BUTTON.

Just like conventional CD players, this will open and close the CD tray. After a short time, the drawer closes automatically in order not to catch any unnecessary dust or to double up as a can holder. By the way, the unauthorized opening of the drawer can be prevented using the Party Lock function (page 29).

Emergency Exit.

If the CD is damaged and the m3po "hangs", switch the player off. Hold down the EJECT button and switch the player back on. The drawer opens and you can take out the CD.

Tip: This function is also available in "Party Lock" (page 29).



POWER.

Switches the machine off and on. Using the "AutoPlay" function in the More menu can start playback immediately after switching on (or after a power cut). More information on page 28.

THE MENU FUNCTIONS.

Pressing the MENU button will open all the menu functions. Following is detailed information on the in-depth functions of the m3po.

Please remember, that some functions will only be displayed, if there is an optional hard disk installed.

PLAY MODE.

In play mode, you determine, which titles are to be played. An Introsan is also possible. The following options are available:

All songs	Plays all songs in sequence.
All in folder	Plays all songs in one folder.
One song only	Plays only one song.
My Playlist	Plays the playlist in sequence once.
Introsan	Like "All Songs", but plays only the first few seconds of each song. The introsan time can be determined in the MORE menu (page 28).
DJ	Like "All Songs" but you can select one or more titles, which are to be played at the end of the current song using the wheel. More information on this is coming up.

Pressing `..back` takes you back to the main menu.

DJ Mode.

The DJ Mode is, as you may have guessed, one of THE party tools of the m3po. In DJ mode, you can pre-select titles, which will then be played in the sequence you selected them, basically, it is a mini-playlist (up to 10 titles), i.e. in case you need to go and get some more drinks, or are involved in a chit-chat you wish would never end.

The operation is quick and easy:

- Switch play mode to DJ and the wheel to SELECT (important, as you need to choose the titles).
- Choose a title using the wheel. If no song is playing at that time, this song (the (first song) will be played immediately.
- Every other title you select, will be listed for playback and marked with a "+". Playback of the selected song starts automatically after the current one.

-
- The display shows in the bottom line, how many songs are still outstanding. For every added title, you will see a horizontal bar exactly between the two timing points. For more than 5 titles, 3 dots will be shown.
 - Spending some time at the bar, won't be a problem now – don't forget to engage the Party Lock (see page 29). ;-)

The DJ mode also allows you to skip to the next title when pressing the soft button NXT. Turning the wheel (i.e. to add another title to the list), reveals another function, DEL (delete), where all following titles will be deleted and the current one will not be interrupted.

Tip: To go straight to the playback display, press MENU twice.



Mixing playback modes.

As you have seen in the chapter "Using the m3po", the play mode and the repeat&shuffle mode can be combined freely. This makes it possible to repeat songs from only one folder, or to play songs from one playlist in shuffle mode. To keep you up-to-date, which mode is currently in operation, the display will show a simple combination of letters, which will tell you what is going on. You can read more on "The LC Display" on page 16.

REPEAT & SHUFFLE.

In this menu, you determine how to play your songs:

Normal	Plays the selected songs in sequence.
Repeat	Repeats all selected songs.
Shuffle	Plays all selected songs in random sequence.

Mixing playback modes.

As you have seen in the chapter "Using the m3po", the play mode and the repeat&shuffle mode can be combined freely. This makes it possible to repeat songs from only one folder, or to play songs from one playlist in shuffle mode. To keep you up-to-date, which mode is currently in operation, the display will show a simple combination of letters, which will tell you what is going on. You can read more on "The LC Display" on page 16.

WHEEL MODE.

The SELECT wheel cannot only be used for navigational purposes. While a song is playing, you can operate the following functions just by using the wheel:

Skip	Turn right: The next song starts playing. Turn left: The previous song starts playing. Press: Switches to select mode. Note: When changing titles during playback, a short click or pop may be audible. This is normal.
Search	Turn right: Fast Forward. Turn left: Rewind. Press: Switches to select mode. Note: MP3 files cannot be wound back further than the beginning.
Select	Turn right: Display the next song title. Turn left: Displays the previous song title. Press: The selected title will be played.
Speed	Turn right: Increases playback speed in %. Turn left: Decreases playback speed in %. Press: Reset the playback speed to 100%. Note: Switching to speed mode may cause a short click or pop. This is normal.

Pressing `..back` takes you back to the main menu.

PLAYLISTS.

The m3po offers numerous options for compiling, saving and playing of playlists. Playlists are pre-selected songs, which are played automatically by the m3po. The playlist mode allows you to access all editing functions for playlists.

Call up "Playlist.. " in the menu and you will be presented with the following options:

Edit Playlist	Displays all titles in the current playlist. You can scroll using the SELECT wheel. Pressing the wheel selects every entry. Whether no, or several titles have been chosen, the soft button now offers access to the options menu (OPT), which will be described later.
Start Playlist	Plays the playlist.
Clear Playlist	Deletes the currently selected playlist.
Save my Playlist	Saves the current playlist as M3U playlist to the hard disk. This message will only appear, if there is a hard disk installed.
Add to my Playlist	Switches to the playback window and adds to the playlist.
Playlists on CD	Lists all playlists found on CD and HD.

Options menu (even if no tracks are present)	
Add entry	Switches to the playback window and adds a title to the playlist by pressing the soft button (ADD) to the current playlist. The wheel functions exactly like in the select mode: turn to choose the song, then press to play it.
Load Playlist	Switches to select mode, but only displays playlists. Pressing the wheel loads the contents of the current playlist into the Edit Playlist Menu.

Options Menu (no or one title marked)	
Play entry	Plays the chosen song and switches to playback mode. Pressing the soft button (BCK) takes you back to the ' Edit Playlist ' menu.
Add entry	Switches to the playback window and adds a title to the playlist by pressing the soft button (ADD) to the current playlist. The wheel functions exactly like in the select mode: turn to choose the song, then press to play it.
Delete entry	Deletes title from the playlist.
Move entry	Turning the wheel, this moves a title up or down within the playlist. Pressing the wheel slots the song into its new position.
New Playlist	Deletes all titles from the playlist without asking for your confirmation.
Load Playlist	Switches to select mode, but only displays playlists. Pressing the wheel loads the contents of the current playlist into the Edit Playlist menu.
Save Playlist	Allows naming your playlist and saves the edited playlist.

Options Menu (more than one title marked)	
Unmark entries	Unmarks entries.
Delete entries	Deletes all marked entries without asking for your confirmation.
Save entries as	Allows input of file name or playlist and saves the marked titles as a new playlist.

Pressing `..back` will take you back to the main menu.

Note: Any unsaved playlists will be lost when switching off the m3po. Please make sure you save your entries first.



As mentioned before, you can save your own playlists to the hard disk, provided there is one installed. Adding a filename and saving the pre-determined folder works like this:

- Turning the wheel changes the symbols, pressing it enters the symbol and switches to the next symbol. If you have made a mistake, you can always delete the previous symbol by pressing the STOP button.
- "UP" works like the SHIFT button on your computer keyboard. It lets you switch to capital letters.
- When you are finished, you can enter the name by pressing the soft button (Enter).
- Pressing the wheel saves the playlist (in the .M3U format, see page 44) to the folder, which you have chosen in the `Select Destination` menu function in the `HDD Functions` -menu. If you have not chosen a specific folder, the playlist will be saved in the main root of your hard disk. Pressing the soft button (ESC) cancels the operation.

You can find further information on playlists in the chapter "Playlists" on page 44.

HD FUNCTIONS.

If you have installed a hard disk (HD) in your machine, then you also have access to all functions for organizing your hard disk. More information on installing the hard disk is available on page 34.

Make Directory	Creates a new folder – in the current folder.
Remove File/Dir	Deletes the selected file (song or playlist) or the selected folder from the hard disk.
Select Destination	Here you choose the hard disk destination of your songs or playlists.
Free space on HDD	Indicates how much available disk space you have.
Format HDD	Formats the hard disk. Necessary immediately after installing it.

Pressing `..back` takes you back to the main menu.

Using `Make Directory` allows you to create new folders on the hard disk yourself in order to copy songs into it.

- Turning the wheel changes the symbols, pressing it enters the symbol and switches to the next symbol. If you have made a mistake, you can always delete the previous symbol by pressing the `STOP` button.
- `'UP'` works like the `SHIFT` button on your computer keyboard. It lets you switch to capital letters.
- When you have finished, you can enter the name by pressing the soft button (`Enter`).
- Entering symbols using exclusively the remote control is also possible. You can read all about it on page 32.

The `Select Destination` function will assist you with everything that has anything to do with creating folders and saving them to your hard disk. First you need to select an existing folder, or the main root and select the function by turning the `SELECT` wheel. The chosen folder will appear in the display. Now you can save or copy into this folder `.MP3` files or playlists.

SEARCH FILE.

This is a search function. Using the wheel, you can enter a file name (or part of).

- Turning the wheel changes the symbols, pressing it enters the symbol and switches to the next symbol. If you have made a mistake, you can always delete the previous symbol by pressing the STOP button.
- When you have finished, you can enter the name by pressing the soft button (Enter).
- The search engine will then browse the hard disk and the CD. Please note, that only .MP3 file names can be found– searching for ID tags or playlists would simply take too long.
- Searching using exclusively the remote control is also possible. You can read all about it on page 32.

Note: You can use this function during playback of another title. However, this may take a little longer. This is perfectly normal.



SOUND.

This menu allows simple adjustments to the sound of .MP3 files. You have bass and treble controls. Note: these adjustments only work for .MP3 files, the sound of audio CDs cannot be adjusted and will not be affected.

Pressing . .back takes you back to the main menu.

THE MORE MENU.

Here you have various different functions. They are in detail:

Sleep timer..	The sleep timer stops playback automatically after a certain period of time (10-120 minutes) and switches the CD transport and the HDD to a near silent standby mode. In order to prevent the machine from switching off while using it (i.e. to enter a playlist), pressing any button will add one minute to the timer.
AutoPlay..	Starts playback automatically when switching on. You can choose between First Song – plays the first song on the CD or HDD Shuffle Song – Randomly chooses a song from the CD or HDD
Party Lock..	Protects the m3po from unauthorized access. Lock CD Eject – prevents opening the CD drawer. Lock HD – prevents writing onto the HDD. Lock CD & HD – prevents opening the CD drawer and writing onto the HDD. Lock complete – disables all access to the m3po. Unlock complete – enables all access to the m3po. Set Password – lets you choose a password. You can read more on the Party Lock later.
Split mode..	Allows for a better display of very long file names or ID tags. You can read more on scrolling later.
Sort HD Directories	Organizes songs, playlists and folders in alphabetical order. Depending on the number of entries, this may take a little while.
Create HD index	Creates an index of all titles for faster access.
IDE Speed	Determines the speed of your IDE Interface (for CD and HDD) and, as such, the speed of copy and read operations. You can choose between the following: Slow – Slow data transfer. Most secure mode Normal – secure mode Fast – fast data transfer. Depending on the medium, this mode might produce errors.
Endless Select	Searching through a folder using the SELECT wheel switches back to the first one. So there is no need for endless scrolling.
Show ID Tags	Switches display of ID tags on and off (see page 45).
Introsan Time	Changes the intro time (s. Page 20 ff.).
Reset m3po	Resets all settings in all menus back to standard settings.
Scrolling	Switches the scrolling feature for titles with very long file (or folder, see page 29) names on and off. (Scrolling: 2s pause, from right to left, 2s pause and back).
Time and Date	Displays date, time and the machine's serial number.
Set Time and Date	Set date and time.
MPEG Info	Displays resolution and Bit rate of the current .MP3 file being played.
About m3po	Displays manufacturer's info about the m3po.

Pressing . .back takes you back to the main menu.

Party Lock.

The Party Lock function protects the m3po from unauthorized access, for example, when you are busy enjoying your own party as discussed above, there are several access restriction functions available. The only way to override this is to enter a password chosen by yourself.

To set a password, dial to "Set Password".

- Turning the wheel changes the symbols, pressing it enters the symbol and switches to the next symbol. If you have made a mistake, you can always delete the previous symbol by pressing the STOP button.
- Once you have finished, you can set the password by the soft button (Enter) and confirm it using the SELECT wheel.

The password can only be changed, when all functions of the m3po have been unlocked. **Important: Never forget the password! Once your m3po is locked, it stays locked – even after turning off the power and switching it back on.** However, if it does happen, (i.e. after severe amnesia) you will need to contact our technical support team. Please have your serial number and the average of your street number;-) ready, whenever you contact us.

INFO: The Emergency Exit (page 19) is still available, when party-locked.



Split mode.

Sometimes, your song names and / or folder names can be very long. To list those lucidly, the m3po offers a split mode. This will trigger an automatic shift in the display line, when certain common symbols appear in the name. These are:

- `-(dash)
- ` - ` (space, dash, space)
- ` _ ` (underline)
- ` --- ` (space, triple dash, space)
- `((closed bracket)
- `[` (closed corner brackets)

Finally, you can set the shift point to 20 symbols per line (>20 Chars). If the scrolling function has been activated, the names will be displayed without the shift break

Scrolling will not be activated, if this function has been turned off in the MORE menu.

MUTE.

The Mute function mutes the m3po. The chosen titles are still being played back inaudibly, though. (One could also refer to it as "being played virtually" ;-)).

VOLUME (PHONES).

Here you can adjust the volume of the headphones. Please note, that a value of higher than 10 causes distortion in many songs. This volume control does not affect the main output stage.

Pressing `. . back` takes you back to the playback window.

Note: All settings – except for the settings in the playlist you change in all the menus, are kept after switching the player off. This means, you won't need to re-activate the DJ mode, if you like to use it regularly.

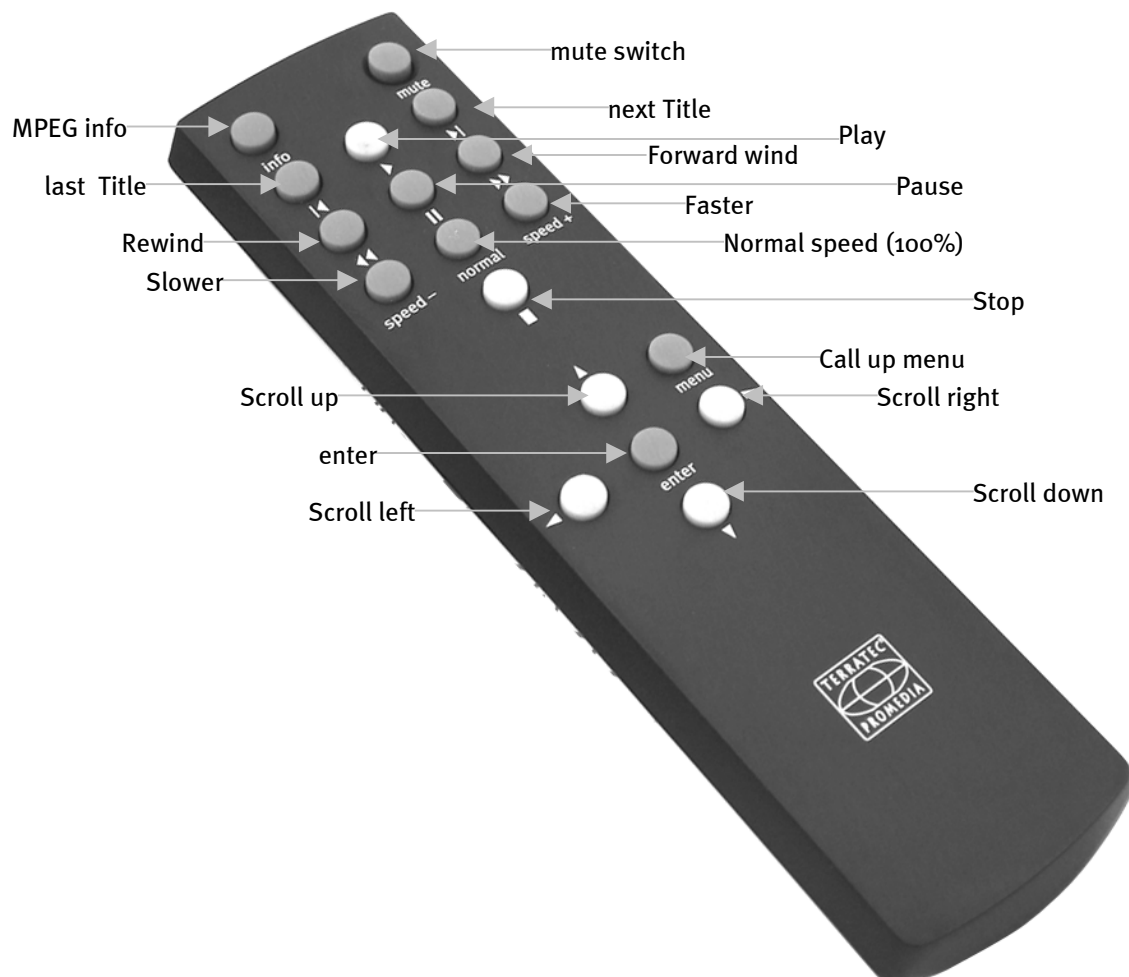


You can reset the m3po completely using the `Reset m3po`-feature in the `More`-menu.

THE REMOTE CONTROL.

Many important functions of the m3po can be accessed via its remote control. Please ensure that the space between the remote control and the machine is not obstructed. Infrared rays are light rays, which, according to today's scientific knowledge, do not pass through solid bodies. ;-)

The following graphic describes the functions in detail.



Symbol entry using the remote control.

The entry of symbols for the search function or for creating new folders is also possible – if a little bit tricky. This is how you do it:

- Select a symbol using the `arrow left` and `arrow right` buttons.
- The `arrow up` button switches between normal letters and capital letters. This function is only available for creating new folders. The search function (`Search`) does not require this function.
- `Enter` enters a symbol and moves cursor to the next position.
- The `arrow down` deletes a symbol and goes back to the previous one.
- Once you have finished, confirm the name by pressing `Play (!)`.
- When creating a new folder, you will be required to confirm for a second time by pressing `Play` again. Every other button cancels the operation. The second confirmation will not be required when operating the `SEARCH` function.

Decimal codes.

Friends of alternative remote controls will be looking for the decimal codes in order to program their own remote controls. For handheld devices utilizing Palm OS and IR interface can download the necessary software:

PalmRemote:

<http://hp.vector.co.jp/authors/VA005810/remocon/premocce.htm>

OmniRemote:

<http://www.pacificneotek.com>

Please note that these websites have been compiled independently from us and that we cannot accept responsibility for their contents. Thank you.

dec code	element	signature	Function
112	Info	info	Show MP3 Info on display
111	Mute	mute	Mutes the complete playback volume (headphones, lineout, CD and MP3 playback)
82	Previous	symbol	Skip to previous track
113	Play	symbol	Start playback of track(s)
83	Next	symbol	Skip to next track
97	Rewind	symbol	Search in playing track (rewind)
79	Pause	symbol	Pause playback
106	Forward	symbol	Search in playing track (forward)
80	Speed -	Speed -	decreases playback speed of MP3 Playback
86	Speed normal	normal	resets the speed of MP3 Playback to 100%
107	Speed +	Speed +	increases playback speed of MP3 Playback
108	Stop	symbol	Stop playback
109	Up	symbol	same function like ,up' button, see (2.)
110	Menu	menu	same function like ,menu' button, see (2.)
81	Left	symbol	same function like turning the wheel left, see (1.)
85	Enter	enter	same function like ,enter' button, see (2.)
70	Right	symbol	same function like turning the wheel left, see (1.)
87	Down	down	down for navigation in menu, or enter in related wheel mode

FITTING A HARD DISK.

The m3po can be equipped with an optionally available hard disk. The installation process is relatively simple, PC buffs will probably have already skipped this page. Please pay extra attention to the safety precautions.

Important: Disconnect the machine from the mains outlet and your hi-fi before opening the case!



Quick-guide for PC buffs.

- Use a normal (preferably quiet!) IDE drive, SCSI won't work.
- Size doesn't matter.
- The drive should be configured to SLAVE. AUTO or CABLE SELECT is not possible. Some hard disks, however, can cause problems when slaving to a CD drive. In this case, the hard disk must be set to MASTER and the internal CD-ROM to SLAVE.
- You can format it using your PC or the m3po. The format is FAT16/32-compatible.
- Have fun.

Which hard disk should I choose?

The m3po can accommodate standard 3,5" ATAPI IDE drives. There are currently no size restrictions, but at the time of writing this manual, we could only test drives of up to 35Gb.

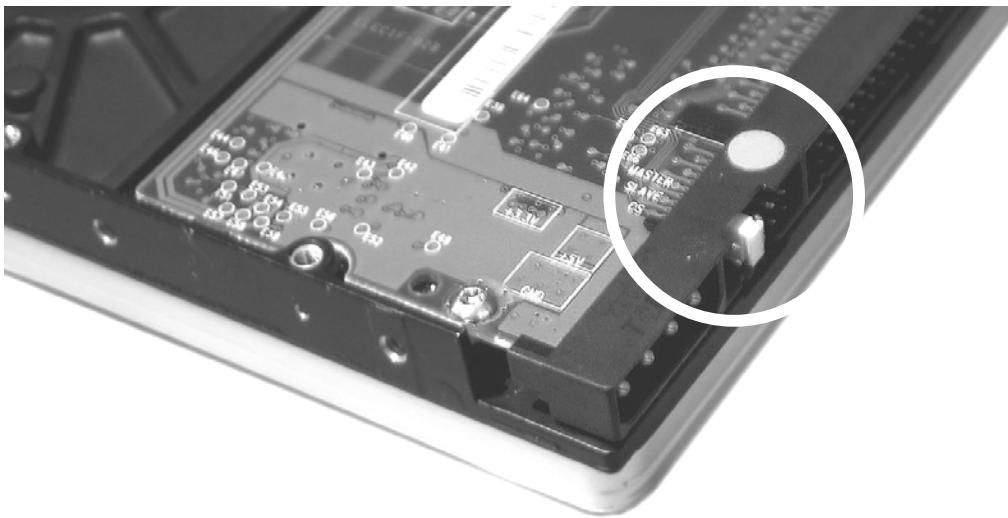
SCSI drives are not compatible with the m3po.

You should choose the quietest hard disk you can find. For research on this matter, you can consult computer magazines in addition to the manufacturer's information. Note: Investing in a proper and well-specified drive will pay off in the long-term.

STEP-BY-STEP.

- Touch the surface of the case and disconnect the unit from the mains outlet. This way, you prevent damage to the components due to your own static load.
- Open the lid with a crosshead screwdriver.
- Remove the hard disk from its packaging and take a closer look at its connections. A hard disk can be configured in two modes, MASTER (primary unit) and SLAVE (secondary unit). This is a legacy of its PC application, as a PC can run several hard disks. The m3po has already a CD drive installed (primary unit), and the hard disk should be configured accordingly:

The circle shows the jumper section of the hard disk. Next to it, you should find a little diagram depicting the SLAVE settings. Usually, only one jumper needs to be moved. That's all.



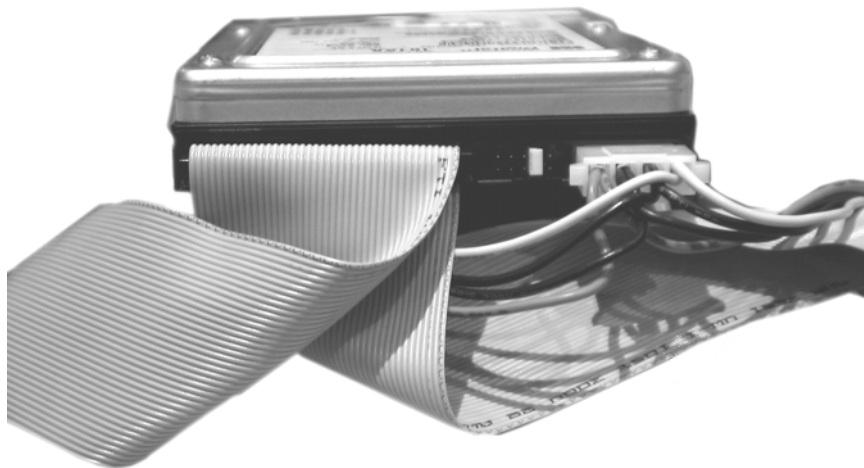
Set the hard disk to SLAVE or MASTER mode.

Note: Some hard disks, however, can cause problem when slaving to a CD drive. In this case, the hard disk must be set to MASTER and the internal CD-ROM to SLAVE. Use the same steps on the CD drive – move the plastic pin on the CD drive from MASTER to SLAVE.

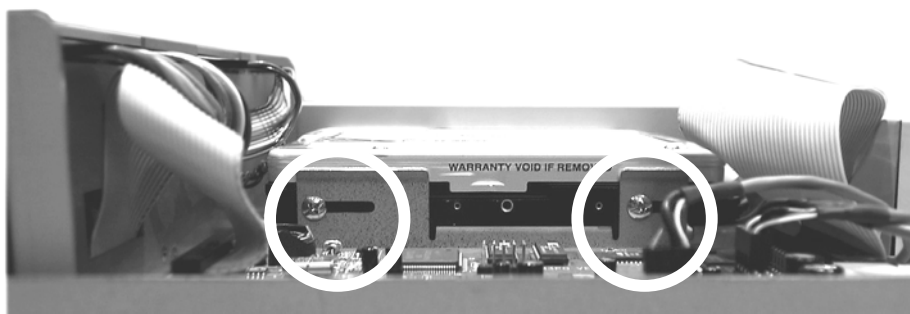
If you get stuck with our step-by-step guide, consult the hard disk's manual, or ask the vendor for help. Note for experienced users: The m3po does not support the AUTO-setting.



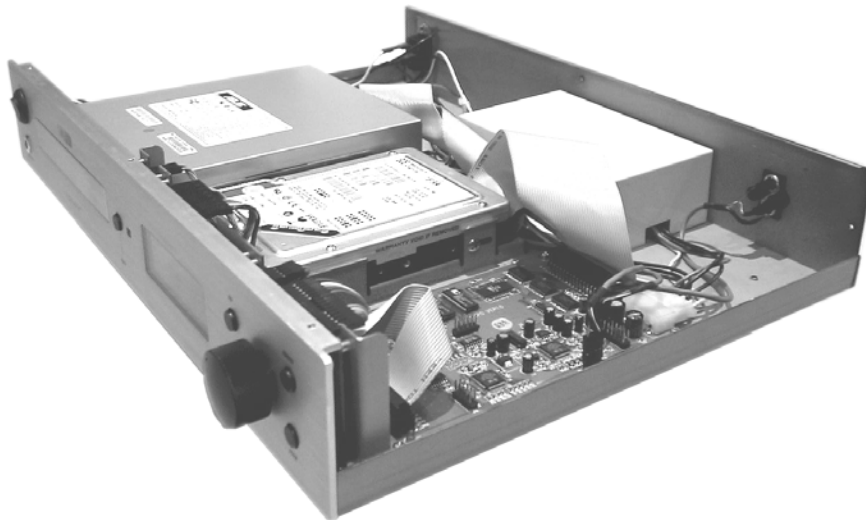
-
- Connect the ribbon cable to the hard disk. Important: The red lead of the cable must be connected to the side marked with "1". But usually, the layout of the plug prevents you from connecting it incorrectly.
 - Connect the multicolored cable to the hard disk. The yellow end of the cable must face the far end of the hard disk. But usually, the layout of the plug prevents you from connecting it incorrectly.



- Affix the hard disk to the fixing points using the screws supplied with your m3po.



Affix the hard disk with two screws.



A correctly installed hard disk.

- Close the case of your m3po. Make sure you do not leave anything inside, which doesn't belong there.
- Finally, reconnect the m3po to the mains outlet and switch it back on.
- Read the following page.

WHAT HAPPENS NEXT?

To be able to use the hard disk, you need to prepare it for operation. In PC terms: You will need to format it.

After switching on, dial up the menu and go to `HDD Functions...`

Select `Format HDD` and confirm this. The hard disk will be formatted. Any data, which might have been stored on the HDD will be permanently erased.

After formatting the HDD, you can now access the hard disk as well as the CD drive. The hard disk appears on the main root directory together with the CD drive and can be accessed using the `SELECT` wheel and the `UP` button.

The `HDD Functions` menu described above contains several more functions. You can, for example create, or delete, folders and – most importantly – copy from CD to HDD. The `Free space on HDD` feature indicates the available disc space in Megabyte (MB). A common 128kBit/s–rate will accommodate about two weeks of non-stop music on a 20Gb hard disk.

Note: All HDD functions stop playback automatically.



Tip: The file system of a hard disk formatted inside the m3po is FAT32 compatible. This allows you to store .MP3 Data on your hard disk with compatible software (Windows and Linux; Macintosh with additional software) and access it in your m3po.

COPYING FILES.

Copying data from CD to HDD is simple. Choose the title in the usual way and press down the SELECT wheel for about two seconds. The file will then be copied to the hard disk's main root .

The same applies to copying complete folders. However, do not open the folder by pressing the wheel so that the folder's contents is displayed.

It is also possible to copy a file or a complete folder from CD into another folder on your HDD.

- Use the wheel to navigate as usual until you reach the folder, which you want to copy into. Do not open the folder (see above)
- Find the `Select Destination.` -function and confirm this by pressing the SELECT wheel.
- Select the title on the CD and press down the SELECT wheel for about two seconds. The track will now be copied to the destination of your choice.

It is not possible to copy a playlist, as the titles on the lists are not necessarily on the disc, and more importantly, in the same location. Has a playlist and all its titles been saved to one folder, then the entire folder and its playlists will be copied to HDD.

SOFTWARE UPDATES.

The functions of your m3po may conveniently be updated from time to time. As with many other hard and software products, upgrades are provided by TerraTec Electronic GmbH over the Internet – usually free of charge. Alternatively, we can send you the upgrade on CD-ROM subject to a minimal charge

Our web-address is: <http://www.m3po.net> .

INSTALLING UPDATES.

Upgrading the m3po is very simple thanks to an improved monitor function (version 2.0 and later). If you have downloaded the upgrade from the Internet, you will find the file

M3POOSxxx.EXE (where x stands for the version number), which can be run under Windows. After running the program, you will find a number of files with the .BIN extension. Copy these files to CD and ensure, that they are directly on the root directory, and not hidden away in folders! It is possible to burn other data onto the CD (i.e. more songs) and use the one CD for a multi-session.

Note for users of other operating systems (i.e. Linux): The .EXE file should show up in your zip files and can be unpacked manually

Depending on which m3po OS version you are updating from, just follow the steps:

Updating from version 1.xx .

- Insert the CD in the m3po.
- After the automatic scanning process, press the menu button and
- Select the MORE menu.
- Select "Update with CD.." .
- The display will now indicate, that it has found an update (Update was found). If you do not wish to update at this point, press the soft button (ESC). Otherwise...
- ... press down the wheel.
- After a few seconds, the message 'Update finished' will appear.
- Switch the m3po off and wait for about 2-3 seconds.
- Press down the STOP button when switching back on.
- After initialization, the new 'M3PO Advanced Monitor' will appear.
- Press the MENU button and
- select 'Update from CD'.
- The display will now indicate, that it has found an update (Update was found).
- Press down the wheel.
- After a few seconds, the message "Update finished" will appear.

The m3po will now resume normal operation. The update has been installed successfully.

Note: Menu settings will be lost after auto-reset (see page 28, ' The More Menu. ')

Updating from version 2.xx .

- Insert the CD in the m3po.
- Switch the m3po off and wait for about 2-3 seconds.
- Press down the STOP button when switching back on.
- After initialization, the new "M3PO Advanced Monitor" will appear.
- Press the MENU button and
- select "Update from CD".
- The display will now indicate, that it has found an update (Update was found). If you do not wish to update at this point, press the soft button (ESC). Otherwise...
- ... press down the wheel.
- After a few seconds, the message "Update finished" will appear.

The m3po will now resume normal operation. The update has been installed successfully.

Note: Menu settings will be lost after auto-reset (see page 28, 'The More Menu.')

Tip for the pro's: From version 2.0 and later, you can also upgrade from HD ('Update from HD').



Downgrading a new operating system to version 1.xx .

Just in case you still prefer the old operating system, you could perform a downgrade. For this purpose, the old files `M3PO.BIN` need to be renamed to `M3PO_MON.BIN`. Burn a CD with the file in the usual way and ...

- ...insert the CD in the m3po.
- Switch the m3po off and wait for about 2-3 seconds.
- Press down the STOP button when switching back on.
- After initialization, the new 'M3PO Advanced Monitor' will appear.
- Press the MENU button and
- select "Update from CD".
- The display will now indicate , that it has found an update (Update was found). If you do not wish to update (or downgrade) at this point, press the soft button (ESC). Otherwise...
- ... press down the wheel.
- After a few seconds, the message "Update finished" will appear.

The m3po will now resume normal operation. The update has been installed successfully.

Note: Menu settings will be lost after auto-reset (see page 28, "The More Menu.")

Updating "M3PO Advanced Monitor" from version 2.xx .

- Insert the CD in the m3po.
- Switch the m3po off and wait for about 2-3 seconds.
- Press down the STOP button when switching back on.
- After initialization, the new "M3PO Advanced Monitor" will appear.
- Press the MENU button and
- select "Update from CD".
- The display will now indicate , that it has found an update (Update was found). If you do not wish to update at this point, press the soft button (ESC). Otherwise...
- ... press down the wheel.
- After a few seconds, the message "Update finished" will appear.

The m3po will now resume normal operation. The update has been installed successfully.

Note: Menu settings will be lost after auto-reset (see page 28, "The More Menu.")

Caution: A power cut during the software installation process may cause damage to the operating system (EEPROM). Never perform a software update during thunderstorms or in areas with high fluctuations in the mains voltage.



PLAYLISTS.

The m3po offers great possibilities to compile, save and playback of playlists. Playlists consist of pre-programmed titles which are played back by the m3po. You can read more on this in the chapter "Menu functions" on page 19. If there is a hard disk installed in the m3po, these lists can be saved to disc and played back.

The playlists used by the m3po are .M3U compatible, which has been made a common standard by the Winamp Player. This allows you to compile playlists inside your PC and burn these to CD together with your .MP3 data.



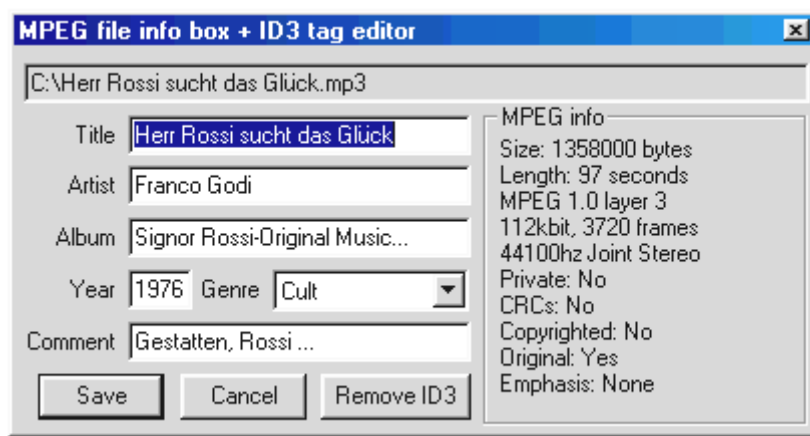
When copying playlists ...

When copying playlists from CD to HD, please note that it is not possible to copy a complete playlist, as the titles on the lists are not necessarily on the disc, and more importantly, in the same location. If a playlist and all its titles have been saved to one folder, then the entire folder and its playlists will be copied to HD.

You can read more on this subject on page 39.

WHAT ARE ID TAGS?

ID Tags are additional information contained within the .MP3 file. A small part in the header of the .MP3 file is reserved for the track name (which need not be identical to the file name), artist and album. In addition, you could store information on the year of release and music style. This data, however, is not displayed in the playback mode, but is available on pressing the info button on the remote control (or when accessing the "MPEG Info" function in the MORE menu).



ID Tag in Winamp Player.

The display of ID Tags can be disabled in the MORE menu. See page 28.

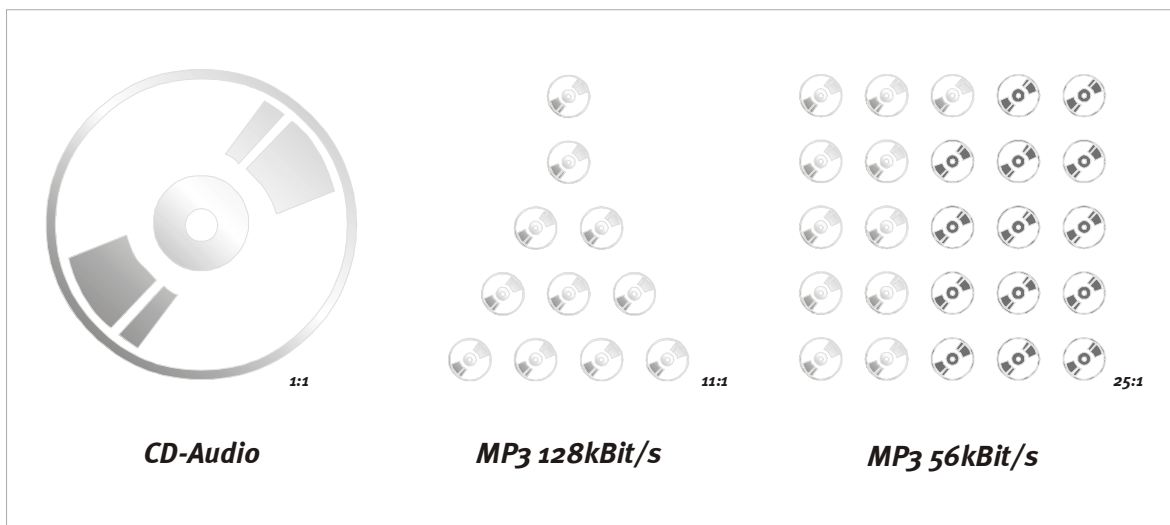
USEFUL INFORMATION ON MP3.

Here we have compiled some general information on MP3, its origin and software to convert your own music and, most important, what is allowed and what is not?

WHAT IS MP3?

MP3 is an abbreviation for MPEG Layer 3, which in turn contains another abbreviation: MPEG = Motion Picture Experts Group, which is governed by a group of competent experts from film production industry. MPEG is basically a storage format for audio and video data, which has been in constant development for years. The basics for today's popular third layer of the MPEG2.5 audio specification has been developed in the late eighties by the Fraunhofer Institut für integrierte Schaltungen (Fraunhofer IIS - Germany).

Its main advantage is the small size of its audio files, as described in the following example: If you record a standard audio CD on your home PC, then this will use about 650 Megabyte (MB) of hard disk space. Converting this into MP3 files, you are presented with only 1/11 of its original size, roughly 60MB. If the files contain nothing but speech (i.e. language courses), the size of the file can be reduced to 1/25 of its original size, without losing too much of its sound quality. This is quite useful, as you can see:



How come?

"Layer 3" is a clever combination of data compression and data reduction. This means that digital data is being compressed (The PC calls this 'packing', for example when converting to the .ZIP format). In the process, the data will be scanned for repeat data. To save space, this data will only be saved once and tagged with information, where it needs to re-appear. This can account for massive reduction in storage space and means that the data will be identical to the original, once 'unpacked' (i.e. decompressed).

In order to achieve a decrease of 1:11 or more, another process will be required - data reduction. You may have guessed by its name, that some data will actually be cancelled in this process. As the most important aspect is what you are left with, we will take a quick look at the actual process:

The applied data reduction is based on algorithms, which cancel out inaudible data. For example, the brain can hardly hear very quiet sounds, which occur immediately after (a few milliseconds) after a loud signal. If the sounds are outside the frequency spectrum of the human hearing, it becomes literally impossible.

Canceling this data in the recording process leads to another significant reduction in data. This data has now been permanently erased from the original file. This shouldn't be too much of a problem. Reducing data to one eleventh of its original size (128kBit/s) in this manner, does lead to an audible difference to CD, but the quality should not really be the issue here. .MP3 was never developed in competition to CD, but to offer an alternative option of storing your audio data. And .MP3 is a great alternative, which is a great benefit to the user.

Legal or not?

The issue of legality will be on many people's mind. What is legal and what is not?

There is a , possibly, quite legitimate objection from the music industry against the use of this technology: The Internet is being used to distribute copyright-protected art forms (music in this case). This cannot be questioned, as, given enough time, you can find loads of information on the Internet, which really doesn't belong there.

At this point, we would like to ask you to handle this issue responsibly, because it is not only the industry, which can be damaged from the Internet, but also the artists themselves, especially those ones, who have no alternative of marketing their product.

The private use of this technology with legally purchased material, has not been a problem so far – enough for us to develop and supply machines, which make the most of this new medium. So how do you use your player that no-one goes empty-handed? The best way, of course, is to have direct access to your vast amount of music on an HD. Therefore, you need to have purchased the music legally, usually on CD. You can save these CDs to HD, convert them to .MP3 files and use them in your m3po player – as you have always done with conventional CDs for private use. At this point, we would like to draw a comparison with copying to tape (for your car stereo), or minidisk – everything OK.

However, it is generally not allowed to copy complete CDs for public (non-private) use.

In connection with this, the Internet should not be branded a nest of illegal activities. The web is already the information source No. 1 and as a result, your first point of contact for purchasing .MP3 software, or simply for learning more about the .MP3 format. Also, more and more record labels appear in the web and offer hundreds of thousands of songs from newcomers, as well as more established artists like: Alanis Morissette, Tori Amos, David Bowie, Beastie Boys, Billy Idol, Peter Dinklage, Dionne Warwick, George Clinton, Die Toten Hosen – the list is exhaustive. And this is only the beginning of a new format, which had been dreamt of by many artists (and predicted by not so many...) for years.

How does it all work?

So how do you create an .MP3 file and how do you get it into your player? An important question, and we would like to answer it right here.

As described above, the .MP3 format differs greatly from the data you find on an audio CD. .MP3 files are data-reduced, which means that they are manipulated by computer software. This shrinking process is called encoding. This is very time-consuming, as the data is being scanned for repeat data, which can be filtered out. The encoding process itself can be done by yourself, given the right software – The only other thing you'll need is a fast PC or lots of time.

The most common practice these days is the reading of audio files and the subsequent encoding in the .MP3 format. First, the CD's content will be saved to disc. Providing you are using a high-quality CD drive, the copy will be identical to the original – even though minor errors can occur, they are usually inaudible .

Once the data is on HD, you can start the encoding process. Here you can usually choose the amount of data compression you want to apply to the data. This compression (next to data reduction) is measured in kilobits per second (kBit/s), for example 96kBit/s. The smaller the value, the smaller the size of the .MP3 file. But also the bigger the deterioration in sound quality. Music in stereo CD quality requires a value of no smaller than 112-128kBit/s. Speech (mono) is usually being compressed to a value of 32-56kBit/s . The following table will show you a few applications:

ity	kBit/s	Reduction
Telephone	8	96:1
Better than short wave radio	16	48:1
Good general quality	32	24:1
Radio quality (stereo)	56...64	26...24:1
Near CD quality (stereo)	96	16:1
CD quality (stereo)	112..160	14..8:1

The m3po processes bit rates of up to 320kBit per second.

The coded data can be burned to CD and played back by your m3po. As simple as that.

INTERNET LINKS.

The fastest way to find more information on .MP3 and music, is to search the Internet. The following addresses should offer you a starting point:

Provider	Description	http://
TerraTec	Your manufacturer.	www.terratec.net
TerraTec	The m3po Homepage.	www.m3po.net
Fraunhofer Institut	Where it all began.	www.iis.fhg.de/amm/ techinf/layer3/index.html

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