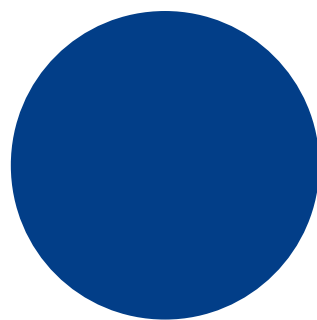
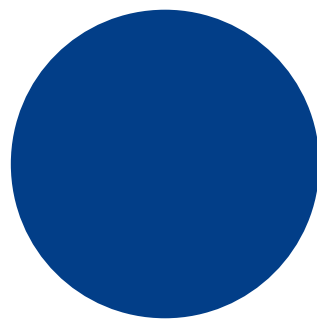


::Bones

Milestone 212

Manual

www.bones.ch





Congratulations on purchasing Milestone 212.

We would like to welcome you in the Milestone family.

With Milestone 212 you have purchased a smart book reader, which opens you the world of digital talking books. Milestone 212 focuses on simplicity so that everyone who loves books is able to handle it. Milestone's uncomplicated handling guarantees you fun from the very beginning.

The eye-catching Milestone 212 is covered by a trendy ruby red casing. It has the format of a credit card and consequently guarantees an excellent portability. Very portable is as well the memory medium used by Milestone 212. Your books are stored on exchangeable SD memory cards. The huge capacity of such cards enables you to store all your favorite books on one card.

Make Milestone 212 your daily companion and your own little library is with you, wherever you go.

We wish you a good start with Milestone 212 and a lot of fun!

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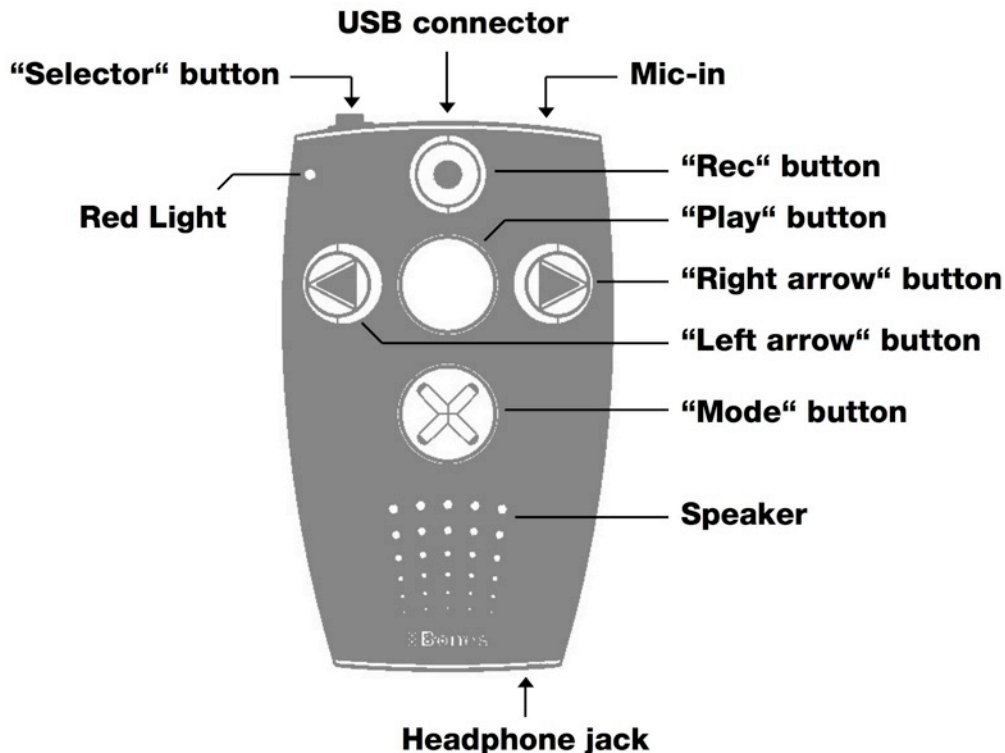
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1. Milestone 212 layout

This chapter explains Milestone's push buttons, connectors and other tactile parts.

1.1. Layout description



1.1.1. The operating surface

Hold your Milestone in front of you with the buttons facing up. You will find five buttons on its surface - a big circular button in the center surrounded by four buttons arranged in a cross shape. The round recessed button in the middle is the only one with a smooth surface devoid of tactile markers. This is the "Play" button. Directly below the "Play" button you will find the "Mode" button. This button is marked with a tactile X. Above the "Play" button is the "Rec" button. This button is marked with a tactile circle. To the left of the central "Play" button is the "Left arrow" button. You can recognize it by the tactile arrow oriented toward the left. To the right of the "Play" button is the "Right arrow" button, marked with a tactile arrow pointing toward the right. The buttons described in this section are used like a directional pad in the operation of the device.

Below this arrangement of buttons you can feel the speaker and in the top left corner of the device there is a red operator light located.

1.1.2. The top side

The top side contains the sixth and last push button. It is a small round button at the top left corner of the device. This is the "Selector" button. To the right of the "Selector" button is a longish opening - this is the USB connector. In addition to transferring data from a computer, you can use the USB connector to charge your device's battery. At the right edge of the top side you will find a small round connector. It is for external microphones.

1.1.3. The bottom side

The bottom side only contains the headphone connector.

1.1.4. The right side

On the right side of the device, you will find the SD memory card slot.

1.2. Using the interfaces

The following descriptions focus on physical connection possibilities with Milestone 212.

1.2.1. Battery charging

Connect the provided charger to a power outlet. Connect the other end of the charger cable to Milestone's mini-USB connector, located in the middle of the top side. A deep beep indicates a correct connection, and the LED light on the operator surface begins to blink every three seconds. Maximum charging time is 3 hours. Please be aware that a connection to a computer via a USB cable also recharges the battery as long as the computer remains on. You can find out the power level remaining in your battery through "Information Service". Please see the relevant section below for details.

Milestone 212 is equipped with a powerful rechargeable lithium polymer battery. Maximum playback duration is over 15 hours. Maximize playback time by listening to music and books over headphones at medium volume and using standard reading speed. Please be aware that using the integrated speaker requires more energy and thus reduces playback time. The same applies to high reading rates, high volume and reading of text files.

1.2.2. Headphones

If you do not want to listen to Milestone 212 over the built-in speaker, simply plug in any headphones to the standard 3.5 mm headphone input, located on the right bottom side of the Milestone. The sound will then switch from the speaker to the headphones.

1.2.3. USB connection to the computer

Use the provided USB cable to connect Milestone 212 to a computer. Plug the smaller end of the cable into the mini-USB connector, which is located in the center of the top side of your Milestone 212. The bigger end connects to a standard USB connector on your computer. Activation of the connection is signaled with the spoken message "Connection activated" on your Milestone. Now you can transfer files such as books, music files, voice messages, text files and more. More information please find under "Connection to a computer". The USB 2.0 Hi-Speed port allows you quick transfer times, even for large data files. As an added benefit, your Milestone's battery is being charged through an active USB connection.

Attention: Please note that Milestone's keyboard is locked while in USB connection mode.

1.2.4. External microphones

There is a 3.5 mm jack on the right-hand side of the front edge. It can be used to connect external microphones. More information on external microphones can be found under "Voice recorder".

1.2.5. SD memory card

Milestone 212 uses SD and SDHC memory cards to store books and other files. SD stands for “Secure Digital”, which denotes a world-wide standard for memory cards. These memory cards are available in different memory capacities up to 32 GB. We recommend SD cards from SanDisk, Kingston, Transcend and Toshiba for trouble-free usage. You can insert an SD memory cards into the longish slot on the right side of Milestone 212. To insert the card press until it locks in. Please do not use excessive force. To remove the card, gently push on the card and it will pop out of the SD-slot.

Attention: If you have problems with inserting the SD memory card make sure the card is adjusted correctly. The card has a ribbed side. This is where the contacts are. In addition one corner is notched. When inserting the card make sure the ribbed side is in front and the notched corner is facing down and towards you.

2. Global functions

This chapter covers the general operation of the Milestone 212. The following shortcuts and therewith activated functions do work in all applications, “Books”, “Voice Recorder” and “Audio”.

2.1. On / Off (sleep mode)

Milestone 212 has no physical on / off switch. Press “Play” to start the Milestone 212. After ten minutes of inactivity, the device will automatically go into sleep mode to conserve battery life. The device will reactivate upon pressing the middle “Play” button. After reactivation the device returns to the last active application and position.

Hint: If your Milestone does not wake up by pressing the “Play” button, there are three possibilities to check: The keyboard is locked, the sound volume is on the lowest level or the battery is empty.

2.2. Keyboard lock

To lock the keyboard, push the “Mode” button first, keep it pressed while pressing the “Rec” button quickly, and finally let go of the “Mode” button again. When the keyboard is locked you will hear the message “Keyboard locked”. All key presses will be ignored, except the shortcut that unlocks the keyboard. Therefore simply press the same combination of buttons again. The device will acknowledge this with the message “Keyboard active”.

2.3. Volume control

There are 16 volume levels on the Milestone 212. To increase the volume by one level, hold down the “Mode” button and then in addition press the “Right arrow” button. To decrease the volume by one level press “Left arrow” while holding down the “Mode” button. If you want to change by more than one level, simply keep the “Mode” button pressed and hit the arrow button once for each volume level.

If you change volume during playback you just hear the volume increasing or decreasing. If the volume is changed during paused mode, Milestone 212 announces “Volume up” or “Volume down”. Reaching the maximum and minimum levels is indicated by a beep.

2.4. Reading rate control

To increase reading rate by one level (10%), hold down the “Selector” button and then in addition press the “Right arrow”. To decrease the reading rate use the “Selector” button with the “Left arrow”. Adjustment of reading rate is only possible while playback of a file. The range of reading rates extends from 50% (half speed) to 200% (double speed). A deep, short beep signalizes the original speed level. Further speed selections can be made in the menu.

2.5. Select application

The “Selector” button, on the Milestone 212 will cycle through the available applications. The applications are announced by name after the “Selector” button is pressed.

2.6. Information Service

Keep the “Mode” button pressed for 1.5 seconds to start the Information Service. To stop it press “Selector” once or wait until all information have been announced.

2.6.1. Information Service in Books

If you are located in Books you receive the following information:

- Position in the current book
- Name of the book
- Battery status
- Memory status
- Software version
- Serial number of your Milestone 212.

2.6.2. Information Service in Voice recorder

If you are located in Voice recorder you receive the following information:

- Name and storage position of the current voice record
- Battery Status
- Memory Status
- Announcement of backup option
- Software version
- Serial number of your Milestone 212.

2.6.3. Information Service in Audio

If you are located in Audio you receive the following information:

- Name and storage position of the current file
- Battery Status
- Memory Status
- Software version
- Serial number of your Milestone 212.

2.7. Shortcut overview of global functions

Function	Operation	Acoustic feedback
Activate Milestone	“Play”	Starting sound and application
Select application	“Selector”	Application
Increase volume	“Mode” + “Right arrow”	“Volume up” (in paused mode)
Decrease volume	“Mode” + “Left arrow”	“Volume down” (in paused mode)
Change reading rate (during playback)	“Selector” + “Right” or “Left arrow”	-
Lock or unlock the keyboard	“Mode” + “Rec”	“Keyboard locked” or “Keyboard active”
Start Information Service	“Mode” for 1.5 seconds	Information Service starts
Stop Information Service	“Selector”	Information Service stops

2.8. Connection to a computer

Before you can listen to a book or music you have to load it on Milestone’s SD memory card. Connect Milestone 212 to your PC with the provided USB cable, as described under “USB connection to the computer” in this manual. If an SD card is plugged into Milestone it appears as an additional drive on your PC. On this drive you can store your books, music et cetera. When you have finished the transfer, disconnect the SD memory card drive properly from your computer, as you would do with a USB stick.

Hint: With the Milestone CD Drive you can easily transfer music or data CDs directly to Milestone without the need of a computer.

2.8.1. Copying a book to the SD memory card

To make a book available in the application “Books” you have to copy it to the SD memory card plugged into your Milestone 212. Please store each book in a separate folder on the SD memory card. This helps you to organize your books properly because a book often contains up to hundreds or even thousands of files. You can store the folder with your book wherever you want on the SD memory card. Of course you can use sub-folders.

2.8.2. Copying Audio content to the SD memory card

In the application “Audio” you can listen to your music and read text files. Therefore you have to copy music or text files to the SD memory card. You can copy the files to the root directory of the SD memory card or if required, store the files in folders or even in subfolders. Audio plays music files in the format MP3, AAC, WMA , WAV, M4A, MP4, M4V and text files in TXT and DOC. These files you can copy directly to the SD memory card. However, a commercial music album on a CD has to be converted into one of the aforementioned formats before you can play it with Milestone 212. When you insert a CD into your computer, the music files on that CD are in a format that the Milestone is unable to play directly. Use software such as CDex, Windows Media Player or iTunes to extract the files into a format that the Milestone can work with. Or use the Milestone CD Drive. It copies and converts music CDs directly to Milestone without the need of a computer.

Hint: A folder you can compare with a drawer and subfolders are like drawers in a drawer. You can use the folders to store and organize your data. With your computer you can

create and name folders on your SD memory card. Milestone 212 reads the name of folders. That helps you navigating through your folder structure.

2.8.3. Deleting files and folders via computer

The Milestone 212 offers ways to erase files, but often it is quicker to delete files and folders via a computer connection. Use standard operating system functions to delete files and folders from the Milestone, as it will behave just like any other computer drive. When you have finished transferring data, disconnect Milestone 212 properly from your computer.

Attention: If you erase files on your Milestone 212 via a Mac computer, empty the trash bin afterwards. Otherwise the files are not really removed, only their links are deleted.

3. Books

The application “Books” reads intelligent talking books, for example in DAISY format. The main difference between intelligent and regular audio books is the ability to navigate to chapters, pages and further sectors of the intelligent book. So, this allows you to move around inside a book with a variety of different navigation options. The following formats are possible to use with the application “Books”:

Book type	Description
DAISY 2.02. (text and audio)	DAISY stands for Digital Accessible Information System. It is a format for digital talking books with extensive navigation. The 2.02 version is the most common type of audio DAISY books. More information about DAISY can be found at www.daisy.org .
DAISY 3.0. (text and audio, version 2002 & 2005)	DAISY stands for Digital Accessible Information System. It is a format for digital talking books with extensive navigation. The version 3 is the newest standard. More information about DAISY can be found at www.daisy.org .
EPUB 2.0.1 unprotected. (text books)	EPUB or Electronic PUblication is an open standard for text based e-books by the International Digital Publishing Forum (IDPF). E.g: Google EPUB books. Please not that only unprotected EPUB is played by Milestone.
Audible Library. AA & AAX	Audible.com is a popular internet provider of spoken audio entertainment, information, and educational programming. More information as well as books and subscription plans can be found at www.audible.com .
NLS Library. Encrypted DAISY 3.0 audio	NLS stands for National Library Service and is a big provider of talking books in the USA.
Bookshare Library. DAISY 3.0 text	Bookshare is a provider of accessible talking books in the USA.

3.1. Starting and pausing a book

Make sure you are in the application “Books”. Press the “Play” button to start the reading of a book. A ticking sound signalizes that searching process started. Milestone 212 looks for books on the SD memory card. It starts the first book it can find. To pause the playback of the book press “Play” again. To select between all available books please have a look under “Selecting a book”.

Attention: Please be aware that DAISY 3.0 and EPUB books require to initialize a book. Milestone does this process in parallel. So you can immediately start reading the book with limited navigation options. The full range of options is added after a short time.

3.2. Navigating in a book

Instead of having to listen to a book linearly from beginning to end you have multiple navigation options, though they differ slightly depending on the precise formatting of the book. You can use “Rec” and “Mode” to check what kind of navigation options are available. Press “Rec” to go up in the list and “Mode” to go down in the list.

Let us assume you go to the option “Phrase jump”. Now you can use the arrow buttons to navigate phrase by phrase. If you press the “Left arrow” you jump back to the start of the current phrase. If you press it twice you jump at the start of the previous phrase et cetera. If you use the “Right arrow” you jump to the next phrase. If you press it twice you jump forward 2 phrases. So in every option you can use the arrow buttons to navigate or make a selection.

Again, please keep in mind that, which navigation options are available depends on the format of the book and on how accurately it has been marked up by its producers. Here is a list of all available navigation options:

Navigation option	Description
Phrase jump	Jump to next or previous phrase by using the arrow buttons. A phrase is the smallest navigation possibility and for example may correspond to a sentence. The exact definition depends how the book was published.
Time jump	Jump 2 minutes of reading in the desired direction by using the arrow buttons.
Beginning or end of book	Jump to the beginning or to the end of the book by using the arrow buttons.
Bookmarks	Select previously inserted bookmarks by using the arrow buttons.
Bookshelf	Scroll between all available books by pressing the right or the left arrow button. Press “Play” to start a book.
Activate sleep timer	Activate sleep timer by pressing the “Right arrow” button. By pressing the “Left arrow” button sleep timer is deactivated. With sleep timer Milestone 212 will pause playback at the desired time. Afterwards it will wait for 10 minutes. If there is no further input it will turn off automatically. The reading position is saved.
Set time for sleep timer	Select how long Milestone 212 remains active before sleep timer stops playback. Use the arrow buttons to adjust the duration.

Navigation option	Description
Pages jump	Jump to the next or previous page by pressing the arrow buttons. To enter a desired page directly push and hold “Selector” and then enter the page number using the “Left arrow”, “Play” and “Right arrow” buttons. With each push on “Left arrow” you select between the three-digit figures: 100, 200, 300 et cetera., with “Play” you select the two-digit figures 10 to 90 and with “Right arrow” you select between the single-digit figures from 1 to 9. If you wanted to go to page 223 for instance, press the “Selector” button and hold it down, press “Left arrow” twice, press “Play” twice and press “Right arrow” 3 times (223). Release “Selector” button to start reading the desired page.
First level (Chapter)	Jump to the next or previous main chapter by pressing the arrow buttons. For example from chapter 1 to chapter 2.
Second level	Jump to the next or previous sub-chapter by pressing the arrow buttons. For example from chapter 1.2 to chapter 1.3.
Third level	Jump to the next or previous third level sub-chapter with the arrow buttons. For example from chapter 1.2.1 to chapter 1.2.2.
Fourth level	Jump to the next or previous fourth level sub-chapter by pressing the arrow buttons. For example from chapter 1.2.1.1 to chapter 1.2.1.2.
Footnotes	Jump to the next or previous footnote with the arrow buttons.
Marginalia	Jump to the next or previous marginal note by using the arrow buttons. Marginalia are text parts in frames or separate columns.
Producer notes	Jump to next or previous producer note by using the arrow buttons.

3.3. Selecting a book

In case you have several books saved on your SD memory card you can rotate between these books with the navigation option “Bookshelf”.

Press “Rec” or “Mode” until you hear “Bookshelf”. With the arrow buttons you can select a book now. All books of the supported formats are listed. Press “Play” to start the desired book. Please be aware that after this selection the device changes automatically to the option “Phrase jump”.

3.4. Creating and erasing a bookmark

Press “Rec” for 2 seconds to set a bookmark. Milestone 212 announces “Bookmark set” and the number of the bookmark. You can create a bookmark both during playback as well as in paused mode. Bookmarks are saved directly into the book. The advantage of this, is that bookmarks are always unambiguously assigned to a book, even when working with several books on several memory cards. You may insert up to 120 bookmarks per book. To navigate from one bookmark to another press the “Rec” or “Mode” button until you find the navigation option “Bookmarks”. Now you can use the arrow buttons to jump between the bookmark numbers you have created.

Bookmarks are activated in the order of their appearance in the book, not in the chronological order they were inserted. This has the advantage that when selecting bookmarks you move through the book in the reading direction.
To erase a selected bookmark pause the playback. Push and hold “Mode” and then in addition press “Play”.

3.5. Shortcut overview of Books

Function	Operation	Acoustic feedback
Playback or Pause	“Play”	-
Go to next part	“Right arrow”	-
Go to previous part	“Left arrow”	-
Insert bookmark	“Rec” for 2 seconds	“Bookmark set”
Erase bookmark	“Mode” + “Play”	“Bookmark erased”
Erase all bookmarks	“Mode” + “Play” + “Rec”	“All bookmarks erased”
Go to the next higher navigation option	“Rec”	Name of the navigation option
Go to the next deeper navigation option	“Mode”	Name of the navigation option

4. Voice recorder

The application “Voice recorder” allows you to record voice messages. You can use it to create shopping and to-do lists, audio interviews, record addresses and phone numbers et cetera. The integrated microphone is optimized for voice recording and filters bothering background noises. Records are saved as MP3 file with a quality of 64 kbps.

4.1. Recording a short voice message

To record a short voice message, push “Rec” and hold it while speaking. A short click signalizes that the recording has started. To stop recording simply release “Rec” again. For best results, speak at normal volume and hold the device at a distance of approximately 10 cm (4 inches) from your mouth. The integrated microphone is located in the upper left corner near the small red light.

4.2. Recording a continuous voice message

As an alternative to having to keep the “Rec” button pressed, you can start a continuous recording. Push and hold the “Rec” button and then in addition press “Play” after you hear the short click. Milestone 212 will acknowledge the start of the continuous recording with the sound sequence “low pitched-high pitched”. To terminate the continuous recording, press the “Rec” button again. The device will acknowledge the end of the continuous recording with the opposite sound sequence “high pitched-low pitched”.
If you wish to pause the recording for a moment, you can use the “Play” button. Press “Play” again to continue the recording.

4.3. Listening to a recorded voice message

To listen to a voice message press “Play” after recording. If you have several messages use the arrow button to select the desired voice message.

Hint: You have the possibility to jump to the last or the first file. Therefore push and hold “Right arrow” and in addition press “Play” to reach the last file or push an hold “Left arrow” and in addition “Play” to jump to the first file.

4.4. Deleting voice messages

Milestone 212 enables you to delete voice messages directly without a connection to the computer.

- Delete one voice message:
Play the voice message you would like to delete. While the message is playing, hold down the “Mode” button and briefly press “Play”. The message will be erased when you let go of the buttons. A message may be erased as well after the replay has stopped.
- Delete all voice messages in one direction:
Pause the playback. By pressing the triple-button combination “Mode”, “Play” and “Right arrow” or “Mode”, “Play” and “Left arrow” Milestone will erase all voice messages in the corresponding direction, including the file the cursor is on when you push the buttons. The triple-button combination needs to be pressed for two seconds. A long beep signalizes the start of erasing. The erasing sound signalizes the end of erasing.

4.5. The 5 recording folders

Milestone 212 provides 5 folders on the internal memory wherein you can record your voice messages. By default Milestone 212 stores the recordings in folder “M1”.

4.5.1. Changing between the folders

To change the folder push an hold “Selector”, then in addition press one of the 5 front buttons. When releasing the buttons you jump inside the dedicated folder. So each front button is directly linked to one folder. For example the button combination “Selector” and “Mode” leads to folder M5 and “Selector” and “Right arrow” leads to folder M4.

4.5.2. Voice labeling of folders

Push and hold “Rec” and after a click hold down “Mode” as well. Milestone says “folder”, afterwards speak the new voice label. The recording will be ended when you release both buttons and you will hear the sound sequence “high pitched-low pitched”. Please note that very short recordings are rejected. The new voice label is announced the next time you reach this folder. A recorded folder name can be overwritten at any time by recording a new one.

Hint: You can delete recorded folder names directly on Milestone 212. Erasing of a file is usually done by selecting a file and using the combination “Mode” and “Play”. The hidden folder name file can not be selected the usual way. Please re-record the folder name first to activate the corresponding file and afterwards press the erase combination “Mode” and “Play”.

4.6. External microphones

There is a 3.5 mm jack on the right-hand side of the front edge. It can be used to connect external microphones. The microphone is powered by Milestone 212 and does not need an own amplifier. With a connected microphone Milestone 212 switches automatically from the integrated to the external microphone. Recordings are saved as MP3 files with a quality of 128 kbps. The handling stays the same as with the integrated microphone.

4.7. Copying your records to the SD card

Copying all your voice messages from the internal memory of Milestone 212 to the inserted SD memory card is possible in the Information Service. Push and hold "Mode" for 1.5 seconds until Milestone starts speaking. Press the "Right arrow" when you hear the announcement "For a backup copy of your internal memory on the SD card please press right arrow now".

4.8. Shortcut overview of Voice recorder

Function	Operation	Acoustic feedback
Short recording	"Rec" (push and hold)	"Click"
Start continuous recording	"Rec" + "Play"	Sound sequence "low pitched-high pitched"
Pause or continue a continuous recording	"Play" (during continuous recording)	Short beep
End continuous recording	"Rec"	Sound sequence "high pitched-low pitched"
Playback or pause a record	"Play"	-
Playback next record	"Right arrow"	-
Playback previous record	"Left arrow"	-
Jump to last record	"Right arrow" + "Play"	-
Jump to first record	"Left arrow" + "Play"	-
Erase current record	"Mode" + "Play"	Erasing signal
Erase all records in one direction	"Mode" + "Play" + "Right arrow" or "Left arrow"	Beep for start of erasing and erasing sound for the end
Choose between folder 1 to 5	"Selector" + a front button	Folder name
Voice labeling of current folder	"Rec" + "Mode" (push and hold)	Start of record with "Folder". End of record with "high pitched-low pitched"

5. Audio

The application “Audio” enables you to listen to music or text files. Make sure it is the active application by using the “Selector” button until you hear the word “Audio”.

Audio plays the following formats:

Format	Description
MP3	Most popular compressed digital audio file.
AAC	Compressed digital audio file from Apple’s iTunes.
WMA	Windows Media Audio: Compressed digital audio file used by Windows Media Player.
WAV	Uncompressed digital audio file, quite large in size, up to 10 times larger than a corresponding MP3 file.
MP4	Standard video and audio container: Played by Milestone if using AAC audio stream. Please note that such a file needs initialization time.
M4A	Compressed digital audio format from Apple’s iTunes. E.g. music and pod-casts. (Apple Lossless is not supported)
M4V	Digital video format from Apple’s iTunes. Milestone plays the audio stream of the video. Please note that such a file needs initialization time.
TXT	Plain text file stored in your language specific code-page: 1250, 1251, 1252, 1253, 1254 or 1256). Unicode files are not supported.
DOC	Standard Microsoft Office Word document. (DOCX is not supported)

Attention: Please be aware that Daisy books do not appear in the Audio application.

5.1. Navigation in Audio

5.1.1. Navigation without folders

The navigation is very simple if you store your files in the root directory of the SD memory card without using folders. Just press “Left arrow” to go to the previous file and “Right arrow” to go to the next file. The files are sorted alphabetically.

5.1.2. Navigation with folders

If you store your files in folders you need to use the vertical axis as well. You have to imagine the 4 press-buttons around “Play” as a directional pad.

With the arrow buttons you jump from one folder or file to the other. Use “Mode” to go one level lower and consequently enter the folder. Use “Rec” to go up again and leave the folder.

Example: Let us assume you want to listen to your favorite Elvis Presley song.

You have a folder “Music” and a folder “Text” on your SD memory card. In the folder “Music” you find two subfolders, “Oldies” and “Country”. Among others, you stored your favorite Elvis song in the subfolder “Oldies”.

Use the arrow buttons to move between the folders “Music” and “Text” in the root directory. Select “Music” and press “Mode” to enter the folder and consequently go one level lower.

Milestone 212 jumps to the first file or subfolder within “Music”. In our case it finds the folder “Country”. Press “Right arrow” to jump to the folder “Oldies”. Enter it with the “Mode” button. Milestone 212 opens the first music track. The files are sorted alphabetically. Finally, press “Right arrow” until you reach the track of Elvis Presley. If you want to go up again to the highest folder level, the root directory of the SD memory card, press “Rec” twice.

Hint: When you have a folder with a large amount of files, you have the possibility to jump to the last or the first file within this folder. Therefore push and hold “Right arrow” and in addition press “Play” to reach the last file or push and hold “Left arrow” and in addition “Play” to jump to the first file.

5.1.2.1. Voice labeling of folders

Instead of reading the name of a folder with Milestone’s text to speech function, you can create a custom voice label for that folder on Milestone 212. To start recording a folder name enter the appropriate folder with “Mode”. Push and hold “Rec” and after a click hold down “Mode” as well. Milestone says “folder”, afterwards speak the new voice label. The recording will be ended when you release both buttons and you will hear the sound sequence “high pitched-low pitched”. Please note that very short recordings are rejected. The new voice label is announced the next time you reach this folder. A recorded folder name can be overwritten at any time by recording a new one.

Hint: Please be aware that you can delete recorded folder names with Milestone 212. Erasing of a file is usually done by selecting a file and using the combination “Mode” and “Play”. The hidden folder name file can not be selected the usual way. Please re-record the folder name first to activate the corresponding file and afterwards press the erase combination “Mode” and “Play”. In addition you can remove folder names on the SD card via computer. Therefore delete the file “FOLDER.NAM” within the desired folder.

5.2. Playing music files

Select a music file. Therefore navigate to a file as described under “Navigation in Audio”. Music files automatically start playing if you select them. Press “Play” in the middle of the keyboard to pause the music file. If you press “Play” again playback will continue. With the arrow buttons you can jump from one file to another. If you keep the arrow buttons pressed you can fast forward and rewind. Keep the “Right arrow” pressed and Milestone will fast-forward after about one second of holding the button pressed. The speed of scrolling increases the longer you are pressing the button. When you keep pressing “Left arrow” Milestone will rewind with the same behavior. As soon as you stop holding the arrow buttons normal playback continues.

5.3. Playing text files

When you select a text file, you hear the name of the file. By pushing “Play” you start the reading of the file. Opening a DOC file for the first time may take some seconds to convert the file. A ticking sound signalizes that process.

Text file playback is similar to music playback. You can jump to the next and previous file with the arrow buttons and use pause function with “Play”. If you push and hold an arrow button during playback you can also kind of fast forward or rewind the text file. You can hear clicks in periodic time intervals. With each click you jump one step in the file. How big such a step is, you can select by pressing “Rec” or “Mode” during playback. You can choose between “Screen” (which is around 25 lines), “Paragraph” or “Sentence”.

5.4. Deleting a file or folder

Milestone 212 allows you to erase files and folders directly without a connection to the computer. This can be done in one of the following 3 ways:

- Delete one file:
Play the file you would like to erase. While the message is playing, hold down the “Mode” button and briefly press “Play”. The file will be erased when you let go of the buttons. A message may be erased as well after the replay has stopped.
- Delete files in one direction:
Pause the playback. Pressing the triple-button combination “Mode”, “Play” and “Right arrow” or “Mode”, “Play” and “Left arrow” will erase all files in the corresponding direction, including the file the cursor is on when you push the buttons. The triple-button combination needs to be pressed for two seconds. A long beep signalizes the start of erasing. The erasing sound signalizes the end of erasing.
- Delete a folder:
Select the folder you would like to erase. While holding down “Mode”, press the “Play” button for a first time. After 3 seconds confirm erasing by pressing “Play” again. Finally, let go of the “Mode” button. Please note that deleting an extensive folder may take a couple of seconds. This process is signaled by a ticking sound before the final erase sound appears.

5.5. Shortcut overview of Audio

Function	Operation	Acoustic feedback
Playback or Pause	“Play”	-
Go to next file or folder	“Right arrow”	-
Go to previous file or folder	“Left arrow”	-
Fast forward	“Right arrow” (push and hold)	-
Rewind	“Left arrow” (push and hold)	-
Jump to last file	“Right arrow” + “Play”	-
Jump to first file	“Left arrow” + “Play”	-
Erase current file	“Mode” + “Play”	Erasing signal
Erase all files in one direction	“Mode” + “Play” + “Right arrow” or “Left arrow”	Beep for start of erasing and erasing sound for the end
Erase current folder	“Mode” + “Play”, + “Play” again after 3 seconds	Erasing sound
Voice labeling of current folder	“Rec” + “Mode” (push and hold)	Start of record with “Folder”. End of record with “high pitched-low pitched”

6. Further information

6.1. Technical data

- External memory: Depends on the SD card, maximum is 32 GB.
- Internal memory for voice records: 1 GB (0.74 GB / 25 hours available for recording).
- Bit rate during recording over built-in microphone: 64 kbps.
- Bit rate during recording over external microphone: 128 kbps.
- Sampling rate during recordings: 44.1 kHz.
- Sample resolution during recording: 16 bit.
- Bit rate for playback: 8 kbps to 320 kbps, or VBR (Virtual Bit Rate).
- USB 2.0 Hi-Speed connection.
- Memory card slot MMC, SD and SDHC, maximum card size 32 GB.
- Headphone jack: Standard 3.5 mm.
- External Microphone jack: 3.5 mm .
- Body made of impact-resistant plastic.
- Measurements: 85 x 54 x 14 mm (3.35" x 2.13" x 0.55").
- Weight: 49 grams (1.7 ounces).
- Built-in rechargeable lithium polymer battery.
- Maximum run time: Over 15 hours (depends strongly on type of usage).
- Maximum charging: 3 hours.

6.2. Protecting your Milestone

Please protect Milestone 212 from mechanical overload, humidity and from contact with water. All parts of the guarantee are voided by inappropriate use or opening of the device.

6.3. Troubleshooting - nothing works anymore

First of all relax and please do not beat poor Milestone 212. Not before you have tested the following steps:

Step 1:

Is the device charged? Connect your Milestone 212 to a power outlet and ensure that the charger is powered. Recharge the built-in battery for at least half an hour. Afterwards press "Play" at least half a second. If Milestone 212 does not speak go to step 2.

Step 2:

Is the keyboard locked? While keeping the "Mode" button pressed, press the "Rec" button briefly and listen for the response of the device:

- You hear the message "Keyboard active": Keyboard was locked and is now unlocked.
- You hear the message "Keyboard locked": Keyboard has now just been locked. Press the same combination of buttons once more to unlock the keyboard. The device will play the message "Keyboard active".
- If you hear nothing go to step 3.

Step 3:

If you do not hear anything, the device is not functioning properly. Please press and hold all front buttons except "Play". This restarts the device. If it is still not working you can try to reinstall the software as described in the following chapter or you contact your dealer.

6.4. Service and support

6.4.1. General information

Service and support is provided through your dealer, where you bought your Milestone. Your dealer knows the device well and will be able to assist you with general product questions, usage questions or repair cases. In addition you can visit www.bones.ch for information about Milestone.

6.4.2. Software updates

Bones Inc. aims to improve Milestone 212 constantly. New firmwares allow to update the software on Milestone 212 and solve problems or add new functions.

If you would like to do such an update with the newest firmware, you have two options.

Either you go to your dealer, where you bought the device. He will update your Milestone 212 if the software is out-of-date. Or you can do it by your own over the internet. Therefore please follow the few steps below.

- Check which firmware is on your M212: Keep pressed the “Mode” button for 1.5 seconds and Information Service starts. Besides other information you get the number of the current software.
- Check which is the newest available firmware: Open your internet and go to www.bones.ch. Under “Support” select your product “Milestone 212”. There you find the newest firmware, for example 3.49. If this is higher than the one on Milestone 212, please download the file to your your desktop.
- Copy the newest firmware to M212’s SD memory card: To do this, please connect Milestone 212 to your computer. If you do not know how, please go to “USB connection to the computer” in this manual. Copy the firmware into the root directory of the plugged in SD card and log off your M212 properly from the computer as you would do with a memory stick. You will hear the announcement “Software update in progress. Please wait”.

In case the update does not start automatically take the SD memory card out of Milestone and insert it again.