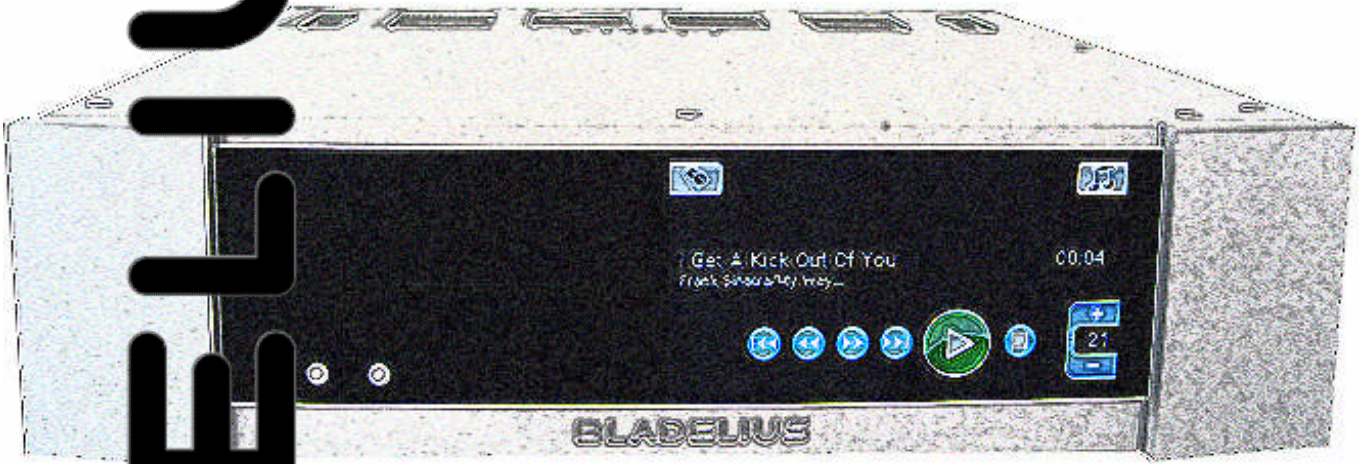


# BLADELIUS

## USER MANUAL



## EMBLA SILENT REPLAY SYSTEM

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This symbol is intended to alert you to the presence of uninsulated, dangerous voltage within the unit's case that may be sufficient magnitude to constitute a risk of electric shock.



This symbol is intended to alert you to the presence of important operating and maintenance instructions in the literature accompanying this unit.



To prevent fire or shock hazard, do not expose this unit to rain or moisture.



To avoid electrical shock, do not open the unit's case, there are no serviceable parts inside.



Refer all servicing to qualified personnel only.



Do not dispose this product with communal waste. Please adhere to local regulations regarding disposal of electronic equipment. If you are uncertain, please contact your dealer.



Marking by the "CE" symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community.

The information contained in the manual is subject to change without notice. The most current version of this manual will be posted on our web site at <http://www.bladelius.com>.

**Introduction**

Thank you for purchasing the BLADELIUS EMBLA silent replay system.

Your EMBLA is a state-of-the-art unit, and has been assembled by highly skilled BLADELIUS craftsmen to provide you with many years of listening pleasure. Our unit's esteem arises from the way we handle music-signals. BLADELIUS develop products for people who wish absolutely natural and enjoyable music reproduction.

**Burn-in**

Due to the extremely short signal paths designed and built into this piece of equipment, a significant "burn-in" period is required before the unit will reach its maximum sonic potential.

We recommend the unit be left on (or in standby mode) at all times, especially during the first 5-6 weeks of operation, in order to speed the "burn-in" process.

For best results, the EMBLA should be left on or in the standby mode at all times. The unit should not be switched off by removing the power cord unless the unit will not be used for a significant period of time (during vacations, etc.).

**Design**

Reduction is the principle for the shaping of all BLADELIUS components. The unobtrusive design harmonizes with almost every environment and does not compete with your personal sphere. The form refers to the tonal ability of the product line, whose composure and strength manifests a well-balanced equilibrium.

**Balanced signals**

Balanced signal transmission means that two signal lines are used which carry the same signal with opposite phase. On the receiving side, the signals are mixed. Since any noise interference that has arisen during transmission will be present in both lines with identical phase, such noise is cancelled out, leaving only the pure original signal.

Balanced connection therefore keeps the signal transfer free from any kind of interference.

## Unpacking

When you have received your EMBLA, you should make sure that the shipping box is in its original state. If however that should not be the case, please contact your dealer. Please unpack your unit carefully; there are several parts that can be damaged. We suggest that you to keep your box and its interior. Save your plastic bag, inserts, and carton. You may need these later for transporting the EMBLA or for shipment in the event it ever requires factory service.

Record the serial number (on rear panel) here for future reference: \_\_\_\_\_

Record the MAC address (on rear panel) here for future reference: \_\_\_\_\_

Please make sure that your shipping box contains the following:

- 1 pc BLADELIUS EMBLA
- 1 pc BLADELIUS MJÖLNER (remote control)
- 1 pc Power cord
- 1 pc User manual

## Placement

The EMBLA functions best when placed on a flat, stable surface. Never place the EMBLA near heat sources such as radiators, stoves, fireplaces or other heat-producing appliances. Avoid placing the EMBLA where it will be subjected to direct sunlight or extremely low temperature. Avoid placing the EMBLA near strong electromagnetic fields, such as large power amplifiers. Placement of the unit near these fields can lead to problems with hum.

## Cleaning

To clean the unit, use only a soft tissue (Kleenex type). Never apply abrasive cleaners to the outer surfaces of the unit.

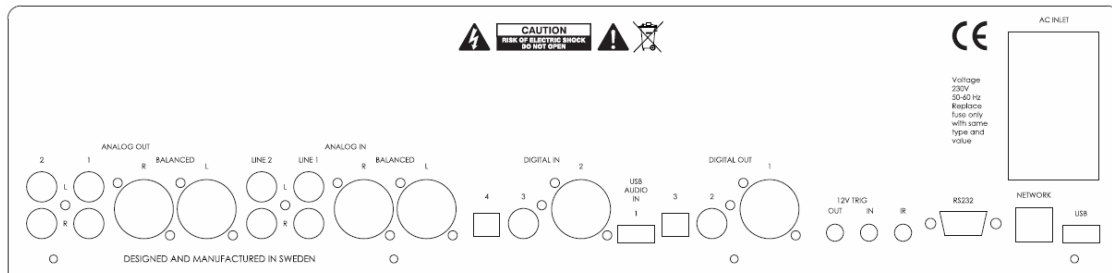


### Note!

At no time should liquid cleaners be applied directly to the EMBLA, as direct application of liquids may result in damage to electronic components within the unit.

## Getting started

### Back panel connections



**AC INLET**  
Mains power switch  
IEC Connector  
Fuse holder

#### Analog Output

2. Left & Right Ch. Low level output  
1. Left & Right Ch. Normal level output  
R, L: Balanced output

#### Analog input

2. Left & Right Ch analog input  
1. Left & Right Ch analog input  
R, L: Balanced input

#### Digital input

4. TosLink Optical  
3. S/PDIF Coaxial  
2. AES/EBU Coaxial  
1. USB

#### Digital Output

3. TosLink Optical  
2. S/PDIF Coaxial  
1. AES/EBU Coaxial

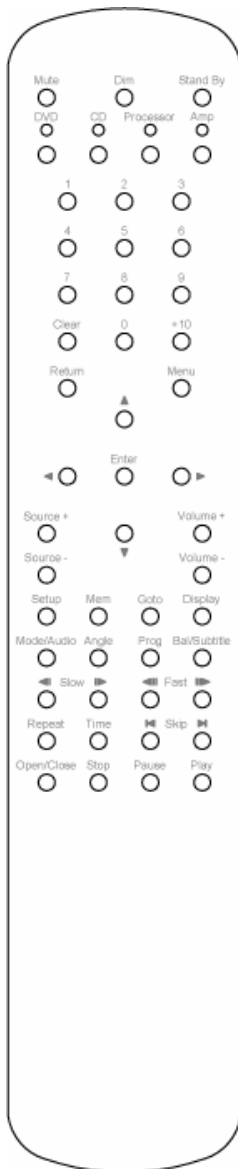
#### Communication connectors

12 Volt trigger output  
12 Volt trigger input  
IR input for external IR receiver  
RS232 Software and control port  
RJ45 Network port  
USB data port

**Note!** The USB device connected to the USB data port must be in FAT format to be recognized by Embla.

## How to use the remote control

The “CD”-button must have been pressed before any operations can be carried out. Blank description means that the button has no function for Embla.

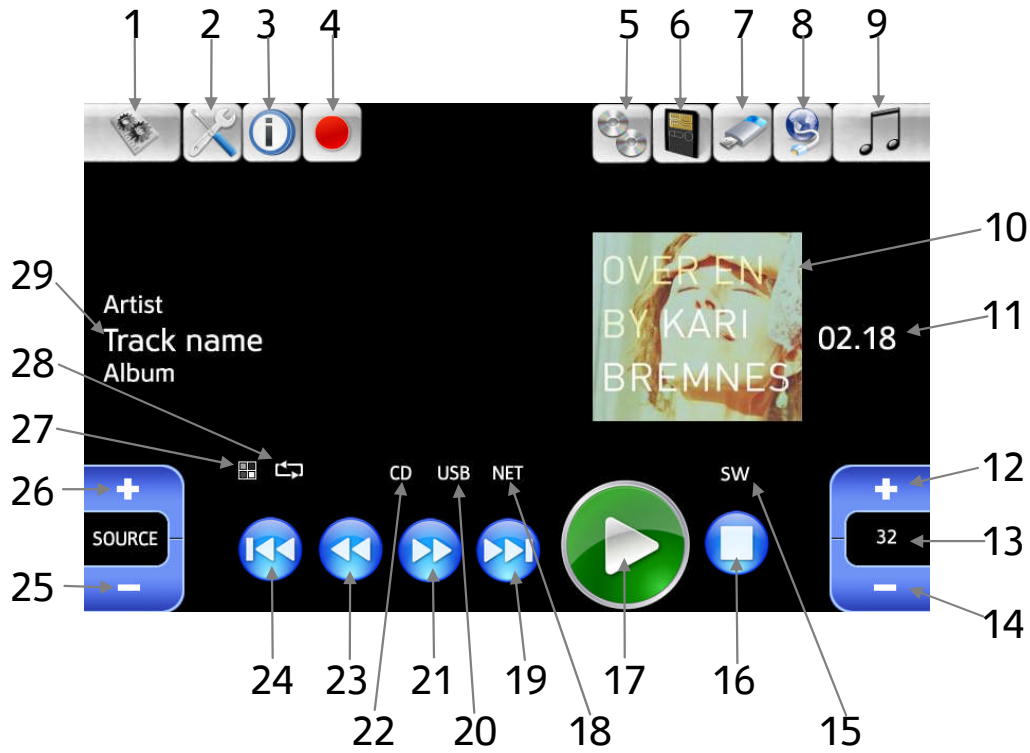


Button	Description
Mute	Mutes the sound
Dim	Dims the front panel. Four steps- three different levels and off.
Stand By	Switches the player on and off
DVD	Activates DVD specific control buttons
CD	Activates CD specific control buttons
Processor	Activates Processor specific control buttons
Amp	Activates Amp specific control buttons
Numerical Buttons	Select playback track number
Clear	Used for delete tracks, albums or artists.
Return	Exits the menu
Menu	Direct access to “Audio playback” menu.
Navigation	Moves the cursor on the screen
Enter	Selects a marked item
Source +/-	Changes source input
Volume +/-	Controls volume
Setup	Direct access to “Setup” menu.
Mem	Used for copying tracks, albums or artists from internal memory to a connected USB device.
Goto	
Display	
Mode/Audio	
Angle	Hold button for Random mode (only if remote control is in DVD-mode).
Prog	
Bal/Subtitle	
< Slow >	
< Fast >	Fast motion back and forward
Repeat	Activates repeat play (track or album)
Time	Direct access to “Information” display.
< Skip >	Skips between different tracks
Open/Close	Controls the drawer
Stop	Stops a playing disc
Pause	Pauses a playing disc
Play	Plays the disc in the drawer

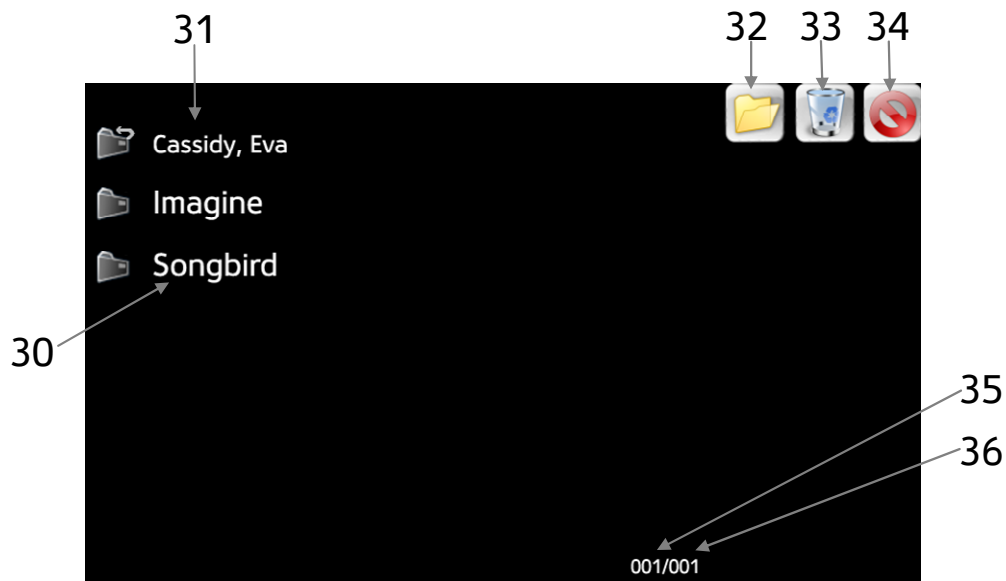


## User interface overview

### Playback display



### Browsing tracks



## Display element description

Number	Description
1	Setup menu button
2	Settings menu button
3	Information button
4	Backup button
5	CD playback button
6	Internal memory playback button
7	USB playback button
8	Network playback button
9	Audio playback menu button
10	Album Art of current playback album
11	Elapsed playback time
12	Increase master volume
13	Current master volume / mute indicator / master volume bypass indicator
14	Decrease master volume
15	Indicator of new software available for download
16	Stop button
17	Play / pause button
18	Network present indicator
19	Skip track forward
20	USB device present indicator
21	Fast forward
22	CD present indicator
23	Fast reverse
24	Skip track backward
25	Change playback source previous
26	Change playback source next
27	Random playback indicator
28	Repeat playback indicator
29	Name of current artist, track and album
30	Name of an album for the selected artist.
31	Name of the selected artist.
32	Button for copy a selected artist, album or track to USB memory device.
33	Button for delete of selected artist, album or track.
34	Button for closing the menu and return to playback display.
35	Page number of current display.
36	Total number of pages for the current selection or sub menu.

## How to navigate on the screen in Embla

Use the arrows up/down/left/right, enter and return on the remote control to navigate between the different buttons, or press the buttons directly using the touchscreen.

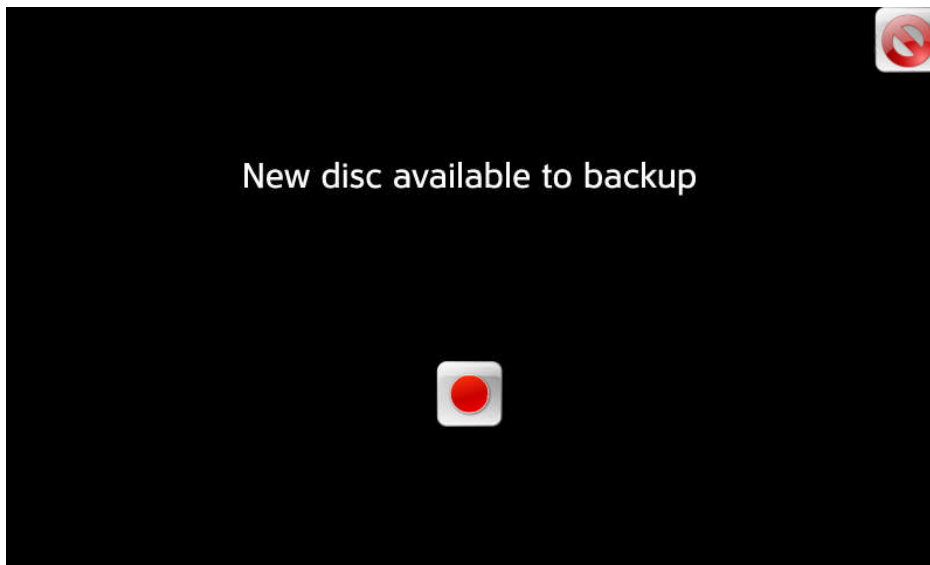
The buttons on the left upper corner are used for setup, information and backup of CD. Some setup attributes are not open for change during audio playback.

The buttons on the right upper corner are used for playback operation. They are only accessible when they are in use. For instance, you can only use the USB playback button if a USB memory stick is connected to Embla.

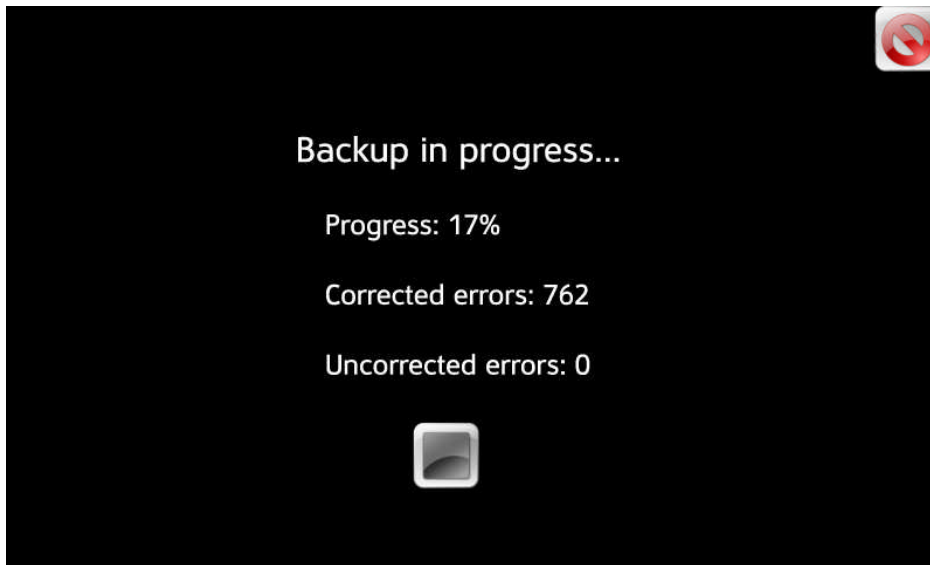
## Basic operation

### Backup a CD to internal memory

Place a disc in the Embla drive. The system should prompt you that a new disk is available for backup.

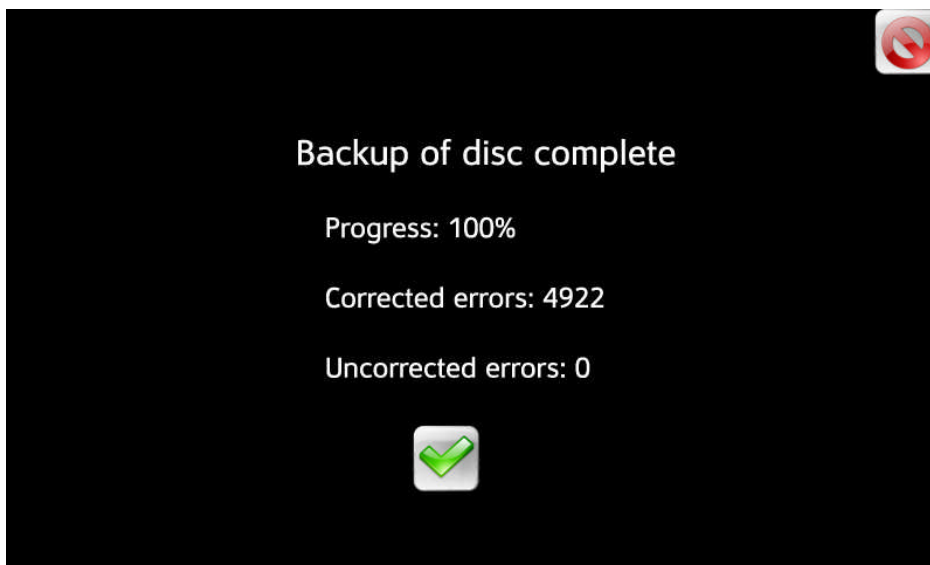


This prompt is only shown if the setting "Backup query at CD insertion" is set to "On". If you have this setting set to "Off" the backup prompt is never displayed. Press the "Enter" button on the remote control or the record button on the touchscreen to start the backup.



Progress	shows in %
Corrected errors	Shows how many errors it has corrected. If all errors are corrected you have a bit perfect copy.
Uncorrected errors	Shows how many uncorrected errors it has encountered. If any uncorrected errors are detected then it will not be a bit perfect copy.

It can take a while to backup a disc depending on its condition. When done, it should state the numbers of corrected and uncorrected errors.



You can also start a backup of a CD from the menu by selecting the “Backup” button under the setup menu.

### **Backup a CD to USB memory device**

If you want CD's to backup to USB memory device you should change the setting “Backup destination” to “USB”.

**Note! The USB device must be in FAT format!**

### **Change input level**

Select the input that you want to change.

Press “Time” button on the remote control, or select the “Information” button in the setup menu on the display. Use volume+ and volume- buttons to change the input level.

### **Change source**

Use the source+ button on the remote control or the touchscreen to change to next input.

Use the source- button on the remote control or the touchscreen to change to previous input.

### **Change volume**

Use the volume+ button on the remote control or the touchscreen to increase the volume.

Use the volume- button on the remote control or the touchscreen to decrease the volume.

It is only possible to change volume if “Bypass master volume” in “Audio settings” is set to “Off”.

### **Copy music from the internal memory to an external USB device**

Press “Mem” button on the remote control, or the folder button on the touchscreen. The system informs you to select the item you want to copy. Place the cursor on the artist, album or track you want to copy and press enter, or select directly with the touchscreen. The item is copied.

**Note! The USB device must be in FAT format!**

## Delete music from the internal memory

Press “Clear” button on the remote control, or the waste paper basket button on the touchscreen. The system informs you to select the item you want to delete. Place the cursor on the artist, album or track you want to delete and press enter, or select directly with the touchscreen. The item is deleted.

## Display currently played album

Press the “Return” button on the remote control to display the track list of the album being played.

## Display information about the currently played track

Press “Time” button on the remote control, or select the “Information” button in the setup menu on the display, to display information about the track being played.

## Leave the menu

Press the “Return” button on the remote control, or step backwards in the menu system with the left arrow button until you leave the menu, or select the close button on the touchscreen.

## Play a CD

Place a disc in the Embla drive. The system might prompt you that a new disk is available for backup. Press return on the remote control to cancel the prompt. If you want to have this prompt removed, you can set it up under settings in the menu. Select the “CD playback” button in the “Audio playback menu” toolbar. Press play, and the disc will start to play.

## Play and pause playback of music

Use the “Play” button on the remote control or touchscreen to start or to continue playback.

Use the “Pause” button on the remote control or touchscreen to pause playback.

## Play fast forward and fast reverse

Use the fast forward button on the remote control or touchscreen to search fast forward.

Use the fast reverse button on the remote control or touchscreen to search fast backward.

## Play music from an external digital source

There are four external digital inputs to play music from; balanced input (AES/EBU), unbalanced input (Coax), optical input (toslink) and USB input (computer). Select between the inputs by pressing the source+ or source- buttons.

## Play music from an external USB mass storage device

Playing from a USB memory device works the same way as from the internal memory. You access the track list through the USB memory playback button on the display.

## Play music from the internal memory

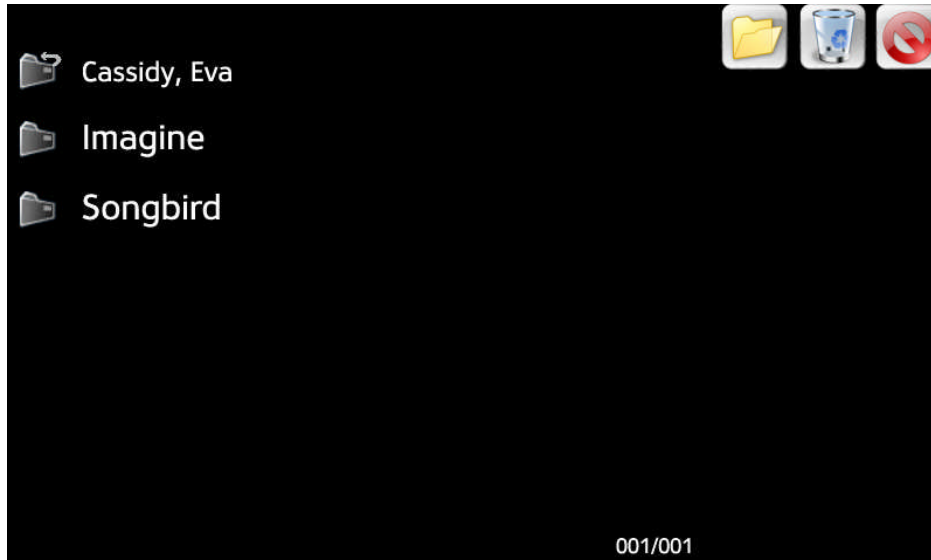
This will only work if you have made any backups of CD albums. When you want to enter the music library, select the Audio playback menu button in the upper right corner of the display, and then Internal memory playback button. Navigate through artists and albums with the arrow-buttons on the remote control, or use the touchscreen.

### Browse artists





### Browse albums



### Browse tracks



Press enter to start the track of your choice, or select the track using the touchscreen.

## Remove prompt for backup of inserted CD

Change the setting “Backup query at CD insertion” in the “CD backup settings” menu to “No”.

## Skip tracks forward and backward

Use the skip forward button to skip track and start playback of the next track. Use the skip backward button to start playback from the beginning of the track, or skip to the previous track.

## Stop playback of music

Use the “Stop” button to stop playback.

## Update Embla software

1. Set the setting “Enable software updates”, in the menu “System settings” page two, to “On”.
2. Put in the CD with the new software into Embla.
3. Restart Embla (put Embla in and out of standby).
4. Wait for Embla to update itself.
5. The update process is finished when the CD is out and the normal playback display is shown.

## Use random playback mode

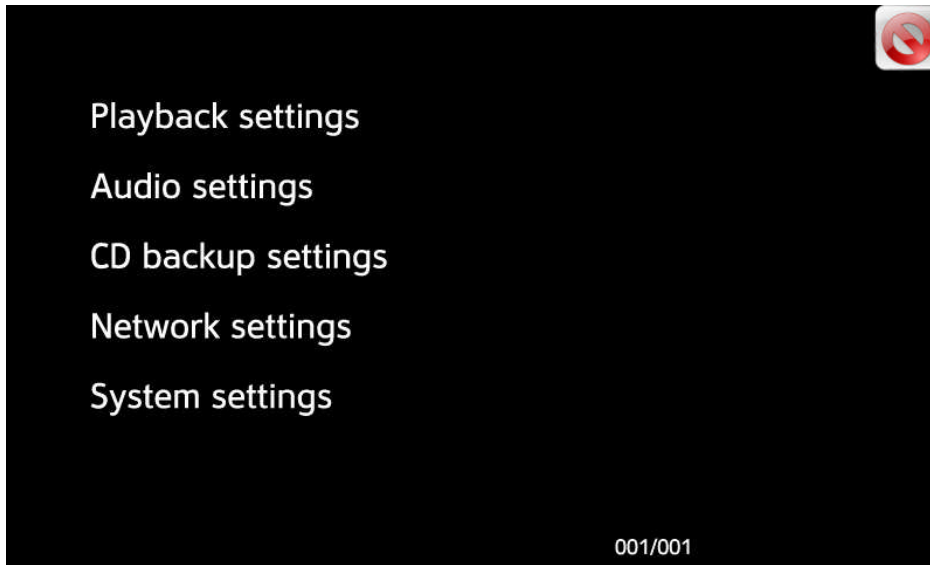
Press and hold the “Angle” button on the remote control to toggle random mode between “All” and “Off”, or change the setting “Random” in the “Playback settings” menu.

## Use repeated playback mode

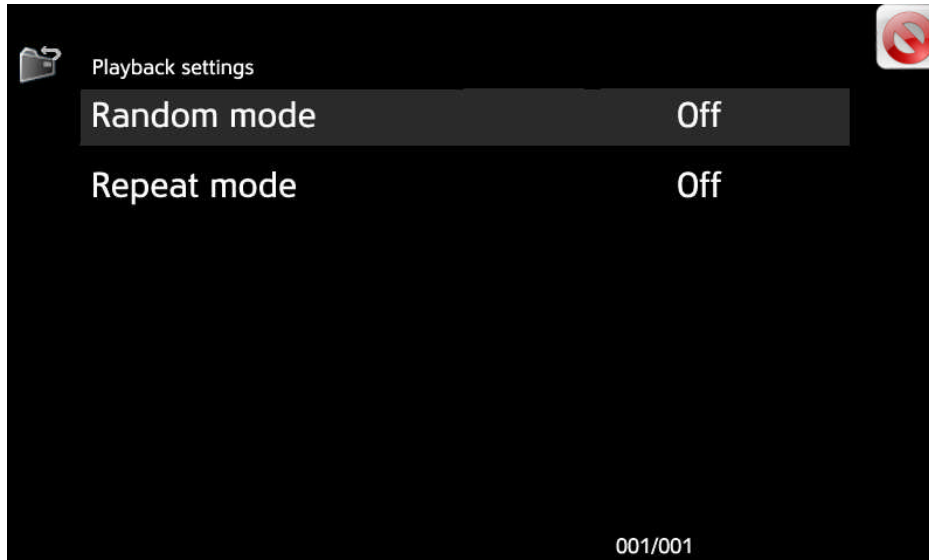
Press the “Repeat” button on the remote control to toggle repeat mode between “One” and “Off”, or change the setting “Repeat” in the “Playback settings” menu.

## Reference

Display this settings menu by selecting the “Settings menu” button from the “Setup menu” toolbar.



## Playback settings



### Random mode

Random mode is available for CD, internal memory and USB.

#### Options

Off *)	Random mode is disabled
All	Embla chooses randomly track between all tracks from the selected source.

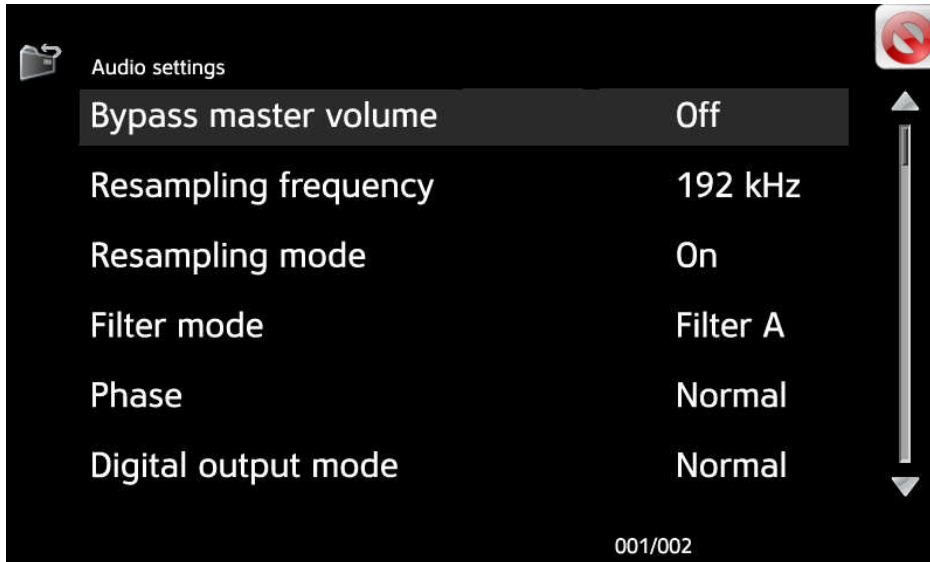
### Repeat mode

Repeat mode is available for CD, internal memory and USB.

#### Options

Off *)	Repeat mode is disabled.
One	Embla repeats playback of one track continuously.

## Audio Settings



### Bypass master volume

You can bypass the preamplifier/volume section in Embla by setting this to on (bypass).

**Caution: if you set it to “On” the level will be very high if connected to an amplifier.**

Use this setting when Embla is used together with a preamplifier or integrated amplifier.

#### Options

Off *)	Bypass volume control is disabled. Volume control is enabled.
On	Bypass volume control is enabled. Volume control is disabled.

**Note! This setting cannot be changed when playing or when an external source is selected. The system has to be in stop mode.**

### Resampling frequency

By resampling to a higher sampling frequency you move out of noise further away from the audio band.

#### Options

44 kHz	Resampling frequency is 44.1 kHz.
48 kHz	Resampling frequency is 48 kHz.
96 kHz	Resampling frequency is 96 kHz.
192 kHz *)	Resampling frequency is 192 kHz.
Opt	Default with Filter C. Optimized for analog like sound.

## Resampling mode

### Options



On *)	Resampling is active. Resampling filter is on.
Off	Resampling is disabled, <i>and audio bypasses the resampling filter.</i>

## Filter Mode

Filter B and Filter C is optional, and can be purchased separately at your local dealer.

### Options

Filter A *)	Dac and filter based on our reference player Bladelius Gondul M.
Filter B	Different DAC than A.
Filter C	Analog like digital filter for more analog like sound.

	
Pre-ringing is an artificial artifact caused by traditional digital filters. Humans can be sensitive to this problem as it doesn't occur in the real world. This is the characteristic of Filter A and Filter B.	Post-ringing is a normal occurrence in the natural world, for example the vibration of a drum after it is struck. This is the characteristic of Filter B2.

## Phase

Use this setting to correct some recordings that may be recorded out of phase, or compensate if system overall is out of phase.

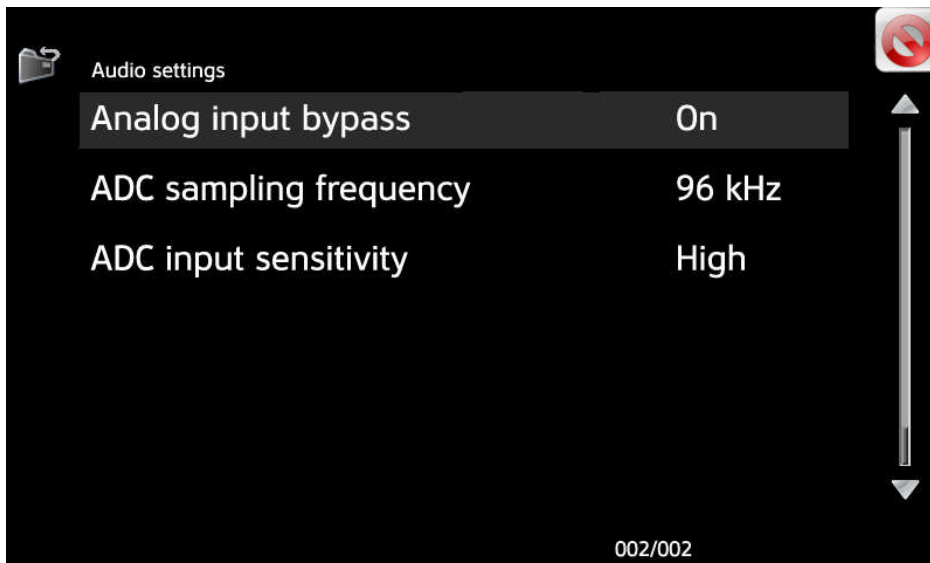
### Options

Normal *)	Normal phase.
Inverted	Phase changed 180°.

## Digital output mode

Select what you want going out on digital outputs.

<b>Options</b>	
Normal *)	The same sources as you are listening to are sent to the digital outputs.
Internal	Internal puts out from internal Flash or disc, even if you have selected a digital input as source. Use this if you want to loop something like room correction unit or similar.
Off	Digital outputs are disabled.



### Analog input bypass

Use this setting to select the path for the analog input. It should normally be set to On. The setting Off is for future use to enable digital processing.

#### Options

Off	Analog inputs are connected via ADC, digital processor and DAC to the preamplifier.
On *)	Analog inputs are directly connected to the preamplifier.

### ADC sampling frequency

Use this setting to select the sampling frequency for the analog input signal.

#### Options

96 kHz *)	Analog signal is sampled at 96kHz.
192 kHz	Analog signal is sampled at 192kHz.

### ADC input sensitivity

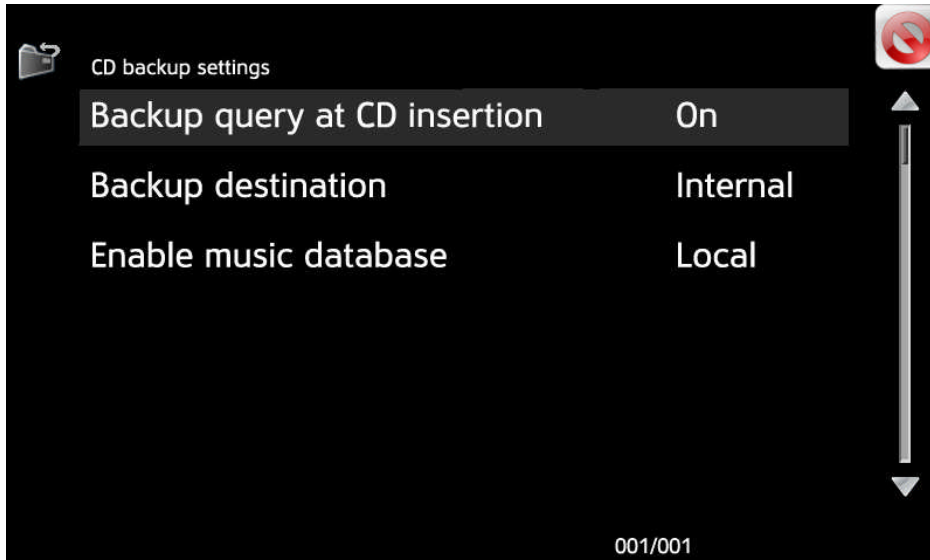
Use this setting to adjust the input level to the analog to digital converter (ADC). It should normally be set to Low.

#### Options

High	Use this setting if the analog output level seems to low.
Low *)	This setting should normally be used.



## CD backup settings



### Backup query as CD insertion

This setting controls if Embla should prompt for every inserted disc that it is available for backup.

Options	
Yes *)	Embla will prompt for backup on disc insertion.
No	Embla will not prompt for backup on disc insertion. Backup has to be started by selecting the "Backup" button from the "Setup menu".

### Backup destination

Use this setting to select where store the CD backup.

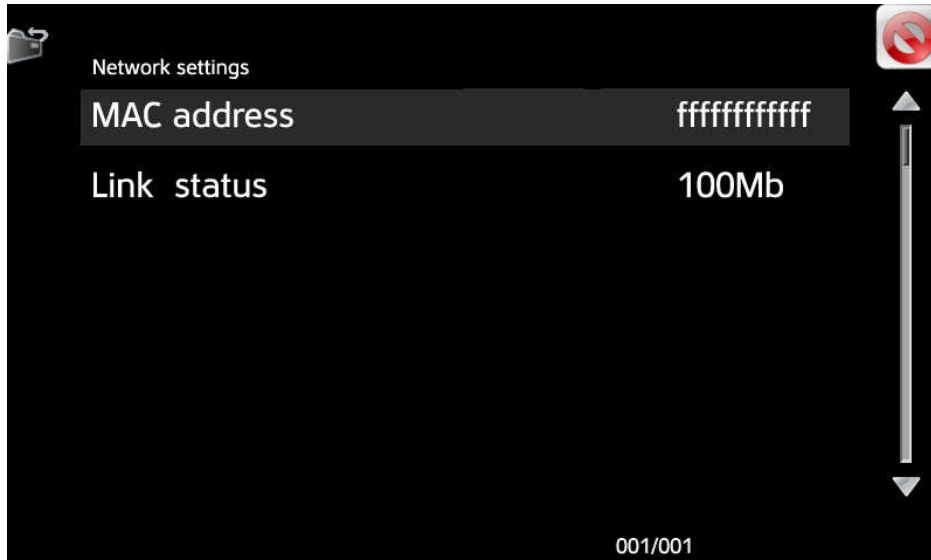
Options	
Internal *)	CD's will backup to the internal memory.
USB	CD's will backup to the USB device. <b>Note! The USB device must be in FAT format!</b>

### Enable music database

Use this setting to select which music database to use to lookup CD artist, album and trackname. If CD Text is available it has priority.

Options	
Local *)	Embla will use internal music database to lookup CD artist, album and track name. Use this setting if Embla is not connected to the internet.
Network	Embla will use online music database, with the latest updates, to lookup CD artist, album and track name. Use this setting if Embla is connected to the internet.
Off	CD's artist, album and track name will not be.

## Network settings



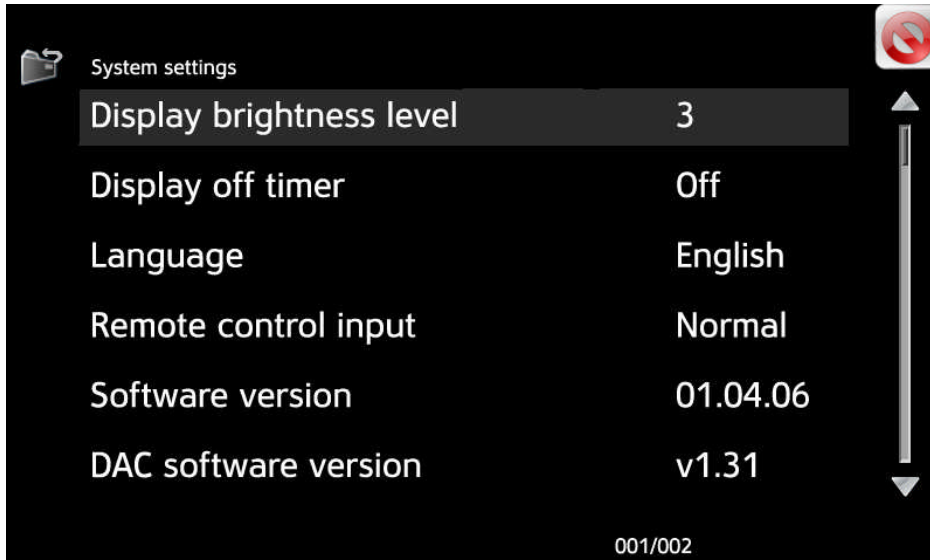
### MAC address

This is the unique MAC address of this Bladelius Embla's built in network adapter.

### Link status

This menu item displays the status of your network connection. Available values are Down, 10Mb and 100Mb.

## System settings



### Display brightness level

You can select the brightness level on the display.

Options	
1	Lowest intensity. Use in home theater.
2	
3 *)	Normal intensity.
4	
5	Highest intensity. Use in very light room, or in direct sunlight.
Off	Display is off. The display is automatically lit up when the remote control is used.

### Display off timer

When Display brightness level is set to “Off”, this setting sets the time the display will light up when a remote control command is being.

Options	
Off *)	The display is not lit up automatically.
3, 7, 30, 60	Number of seconds the display is lit up before it turns off again.

## Language

Select between languages on the display.

### Options

English *)	The user interface is in English.
English US	The user interface is in US English.
Swedish	The user interface is in Swedish.
Chinese	The user interface is in English. Support for CD information in Chinese is active.

## Remote control input

External is for when you connect an external IR-receiver control electronics to the IR-input on the rear panel.

### Options

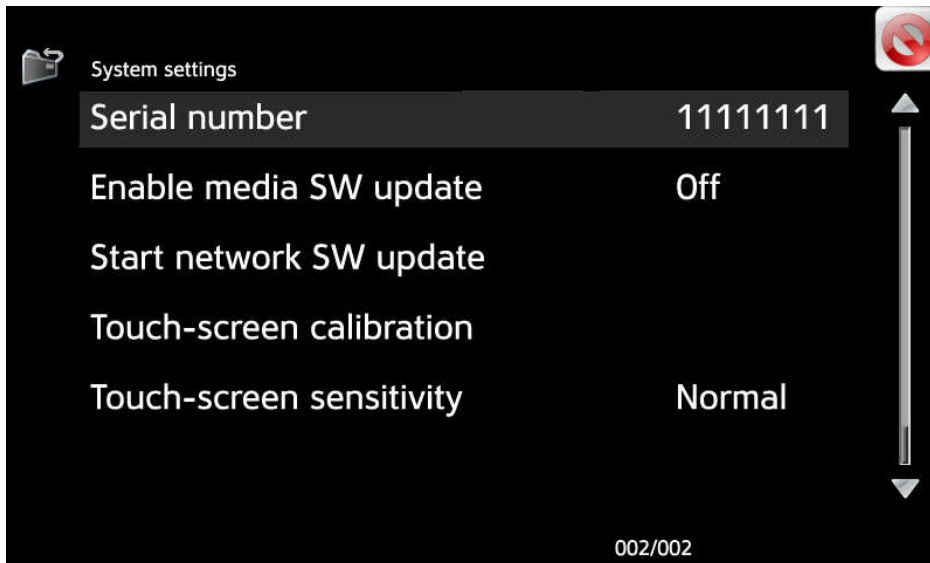
Normal *)	Use the built in remote control receiver.
Rear	Use an external remote control receiver connected to the back of Embla.

## Software version

This is the version of the primary software in Bladelius Embla.

## DAC software version

This is the version of the secondary software in Bladelius Embla.



### Serial number

This is the unique serial number of this Bladelius Embla.

### Enable media SW update

This setting must be “On” to be able to update the primary software in Bladelius Embla. Enable software updates should normally be off, except when you want to update the software with an updated disc from Bladelius Design Group.

#### Options

Off *)	Disable Embla from software updates.
On	Enable software updates.

### Start network SW update

Select this menu item to start downloading and updating the primary software in Bladelius Embla, if new software version is available. Do not power off during update unless instructed to do so. The update process could take several minutes depending on the network connection.

### Touch-screen calibration

You can calibrate the touch control to synchronize the position of the menus and buttons to the touch sensors, by tapping the prompted marks. The touch control is calibrated in the factory and is normally not needed to be recalibrated.

### Touch-screen sensitivity

Use this setting to adjust the touchscreen sensitivity. The touchscreen is affected by humidity, size of fingers etc.

Options	
Normal *)	Normal touchscreen sensitivity..
Low	Decreases the touchscreen sensitivity.
High	Increases the touchscreen sensitivity.

\*) This option is factory default.