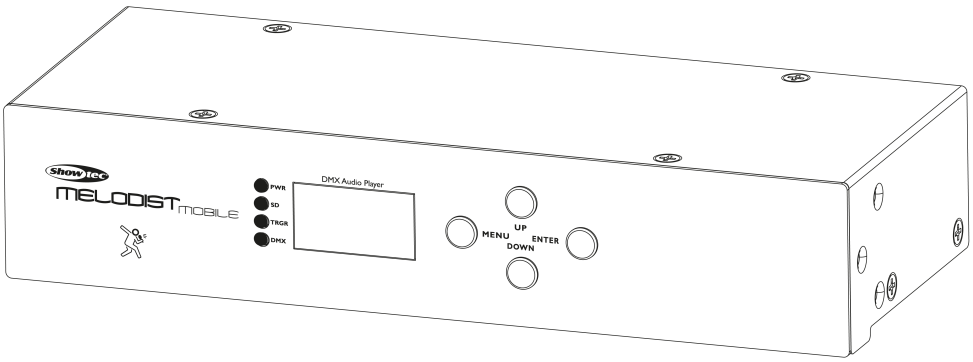
USER MANUAL

ENGLISH

V1.0



Melodist Mobile

Product code: 50422

Half 19 inch

Preface

Thank you for purchasing this Showtec product.

The purpose of this user manual is to provide instructions for the correct and safe use of this product.

Keep the user manual for future reference as it is an integral part of the product. The user manual shall be stored at an easily accessible location.

This user manual contains information concerning:

- Safety instructions
- Intended and non-intended use of the device
- Installation and operation of the device
- Maintenance procedures
- Troubleshooting
- Transport, storage and disposal of the device

Non-observance of the instructions in this user manual may result in serious injuries and damage of property.

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Highlite International B.V. – Vestastraat 2 – 6468 EX Kerkrade – the Netherlands

Table of contents

1. Introduction **4**
1.1. Before Using the Product 4
1.2. Intended Use 4
1.3. Product Lifespan 4
1.4. Text Conventions 4
1.5. Symbols and Signal Words 5
1.6. Symbols on the Information Label 5

2. Safety **6**
2.1. Warnings and Safety Instructions 6
2.2. Requirements for the User 7

3. Description of the Device **8**
3.1. Front View 8
3.2. Back View 8
3.3. Product Specifications 9
3.4. Dimensions 9

4. Installation **10**
4.1. Safety Instructions for Installation 10
4.2. Installation Site Requirements 10
4.3. Rack Mounting 10
4.3.1. Stand-alone 10
4.3.2. Side-by-side 11
4.4. Connecting to Power Supply 11

5. Setup **12**
5.1. Warnings and Precautions 12
5.2. Setup Example 12
5.2.1. Connecting External Trigger Devices 13
5.3. SD Card 14
5.4. DMX Connection 15
5.4.1. DMX-512 Protocol 15
5.4.2. DMX Cables 15
5.4.3. DMX Linking 16
5.4.4. DMX Addressing 16

6. Operation **17**
6.1. Safety Instructions for Operation 17
6.2. Control Modes 17
6.2.1. Trigger Mode 17
6.2.2. Player Mode 17
6.3. Control Panel 18
6.4. LED statuses 18
6.5. Start-up 18
6.6. Menu Overview 19
6.7. Main Menu Options 19
6.7.1. DMX Address 19
6.7.2. DMX Mode 20
6.7.3. Trigger inputs 20
6.7.4. Display 20
6.8. DMX Channels 21

7. Troubleshooting **24**

8. Maintenance **25**
8.1. Preventive Maintenance 25
8.1.1. Basic Cleaning Instructions 25
8.2. Corrective Maintenance 25

9. Deinstallation, transportation and storage **26**

10. Disposal **26**

11. Approval **26**

1. Introduction

1.1. Before Using the Product

Important
Read and follow the instructions in this user manual before installing, operating or servicing this product.

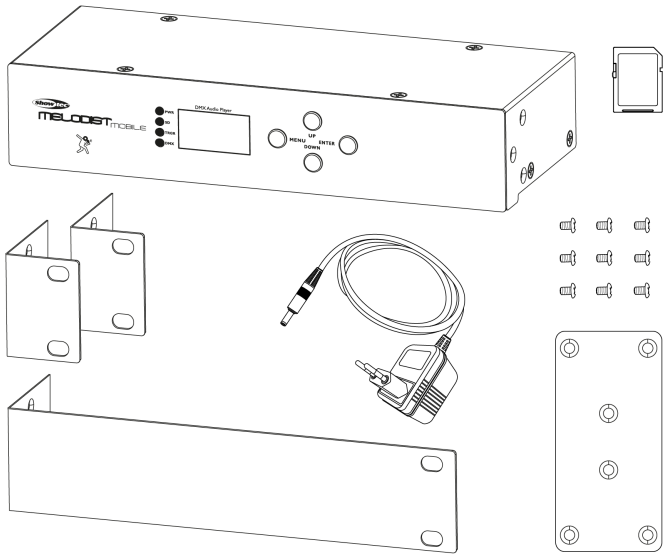
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

After unpacking, check the contents of the box. If any parts are missing or damaged, contact your Highlite International dealer.

Your shipment includes:

- Showtec Melodist Mobile
- AC power adapter with 4 interchangeable AC plugs (Europe, UK, US/JP, AUS/NZ)
- 1 x long rack mounting plate
- 2 x short rack mounting plate
- 1 x bottom connection plate
- 9 x connection plate screw
- User manual

Figure 1



1.2. Intended Use

This device is intended for professional use as a DMX controllable WAV media player. It can be installed only indoors. This device is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

1.3. Product Lifespan

This device is not designed for permanent operation.

Disconnect the device from the electrical power supply when the device is not in operation. This will reduce the wear and will improve the lifespan of the device.

1.4. Text Conventions

Throughout the user manual the following text conventions are used:

- Buttons: All buttons are in bold lettering, for example "Press the **UP/DOWN** buttons"
- References: References to parts of the device are in bold lettering, for example: "turn the **adjustment handle (05)**". References to chapters are hyperlinked
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.5. Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.



DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.



Attention Indicates important information for the correct operation and use of the product.



Important Read and observe the instructions in this document.

1.6. Symbols on the Information Label

This product is provided with an information label. The information label is located on the side of the device.

The information label contains the following symbols:



This device is designed for indoor use.



This device shall not be treated as household waste.



Read and follow the instructions in the user manual before installing, operating or servicing the device.



This device falls under IEC protection class III.

2. Safety



Important
Read and follow the instructions in this user manual before installing, operating or servicing this product.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

2.1. Warnings and Safety Instructions



DANGER
Danger for children

For adult use only. The device must be installed beyond the reach of children.

- Do not leave any parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within the reach of children. Packaging material is a potential source of danger for children.



Attention
Power supply

- Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.
- Make sure that the cross-sectional area of the extension cords and power cables is sufficient for the required power consumption of the device.



Attention
General safety

- Do not shake the device. Avoid brute force when installing or operating the device.
- If the device is dropped or struck, disconnect the device from the electrical power supply immediately.
- If the device is exposed to extreme temperature variations (e.g. after transportation), do not switch it on immediately. Let the device reach room temperature before switching it on, otherwise it may be damaged by the formed condensation.
- If the device fails to work properly, discontinue use immediately.



Attention
For professional use only
This device must be used only for the purposes it is designed for.

This device is designed to be used as a DMX controllable WAV media player. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not suitable for households.
- This device does not contain user-serviceable parts. Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.



Attention
Before each use, examine the device visually for any defects.

Make sure that:

- There are no deformations on housings, fixings and installation points.
- The power cables are not damaged and do not show any material fatigue.



Attention
Do not expose the device to conditions that exceed the rated IP class conditions.

This device is IP20 rated. IP (Ingress Protection) 20 class provides protection against solid objects greater than 12 mm, such as fingers, and no protection against harmful ingress of water.

2.2. Requirements for the User

This product may be used by ordinary persons. Maintenance may be carried out by ordinary persons. Installation and service shall be carried out only by instructed or skilled persons. Contact your Highlite International dealer for more information.

Instructed persons have been instructed and trained by a skilled person, or are supervised by a skilled person, for specific tasks and work activities associated with the installation, service and maintenance of this product, so that they can identify risks and take precautions to avoid them.

Skilled persons have training or experience, which enables them to recognize risks and avoid hazards associated with the installation, service and maintenance of this product.

Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

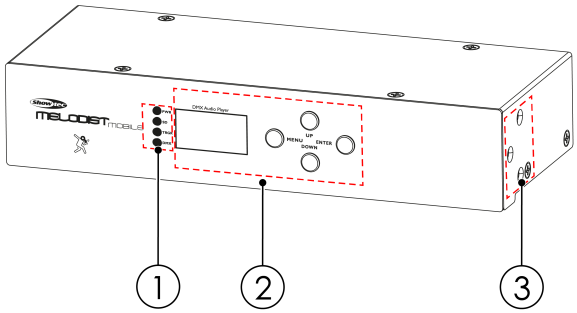
3. Description of the Device

The Showtec Melodist Mobile is a DMX controllable WAV media player in a half 19" metal housing. It plays stereo WAV files from a micro SD card via two balanced XLR outputs.Four status LEDs indicate the status of the player and control signals.

The Melodist Mobile has a trigger mode and a player mode. In trigger mode, the device plays up to 10 WAV files simultaneously, via 10 channels of DMX. If no DMX signal is present, the 6 terminal inputs can be used as triggers to start the first 6 audio files. In player mode, it plays 1 audio file at a time. In this mode the terminal input allows control of start/stop/pause, track select, folder select, play mode and volume. There are 4 play modes available: single continuous, single shot, continuous loop and continuous random.

3.1. Front View

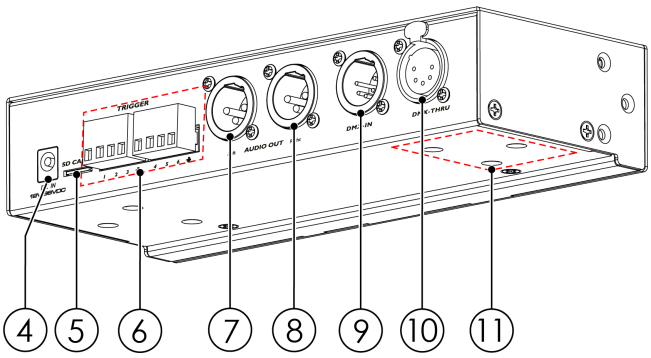
Figure 2



01) 4 x status LED indicators
02) Control panel: OLED display and control buttons
03) 2 x mounting holes for rack mounting plate

3.2. Back View

Figure 3



04) Low voltage DC connector
05) SD card slot
06) 2 x 4-pin GPIO Phoenix terminal connector IN for triggers
07) 3-pin XLR balanced connector OUT (Left)
08) 3-pin XLR balanced connector OUT (Right)
09) 5-pin DMX XLR connector IN
10) 5-pin DMX XLR connector THRU
11) 2 x mounting holes for bottom connection plate

3.3. Product Specifications

Model:	Melodist Mobile

Control and programming:	
Control mode	DMX / GPIO
DMX channels	5 / 11
Protocols	DMX
Display	OLED

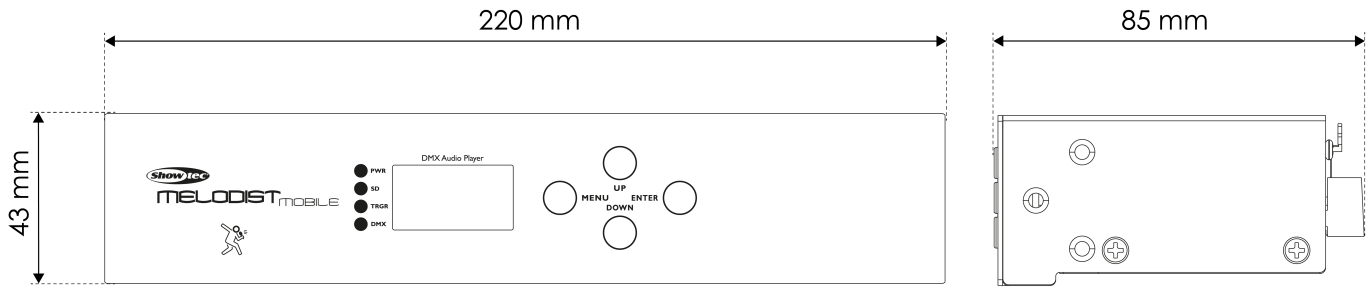
Electrical specifications and connections:	
Power supply	12–36 V DC
Power consumption	6 W
Power connector IN	Low voltage DC plug
DMX connector	XLR 5P IN/OUT
DMX connector IN	XLR 5P
DMX connector OUT	XLR 5P

Mechanical specifications:	
Length	85 mm
Width	220 mm
Height	43 mm
Weight	0,77 kg
Rack units	1 U
IP rating	IP20 (indoor use only)
Housing	Metal
Color	Black

Thermal specifications:	
Maximum ambient temperature	40 °C
Minimum ambient temperature	0 °C
Minimum operating temperature	0 °C

3.4. Dimensions

Figure 4



4. Installation

4.1. Safety Instructions for Installation

Attention
Make sure that there is enough space for ventilation around the device.

- Do not block the ventilation openings. Without proper heat dissipation and air circulation, the internal components may overheat. This can result in product damage.
- Do not install near equipment that produces heat, for example amplifiers.

4.2. Installation Site Requirements

- The device can be used only indoors.
- The minimum distance to other objects must be bigger than 0,5 m.
- The maximum ambient temperature t_a = 40 °C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40 °C.

4.3. Rack Mounting

The device can be mounted in a standard 19-inch rack. The device requires 1 rack unit (RU) of space.

Make sure that the rack is sufficiently secured to prevent it from becoming unstable or falling over.

To mount the device in a two-post rack, follow the steps below:

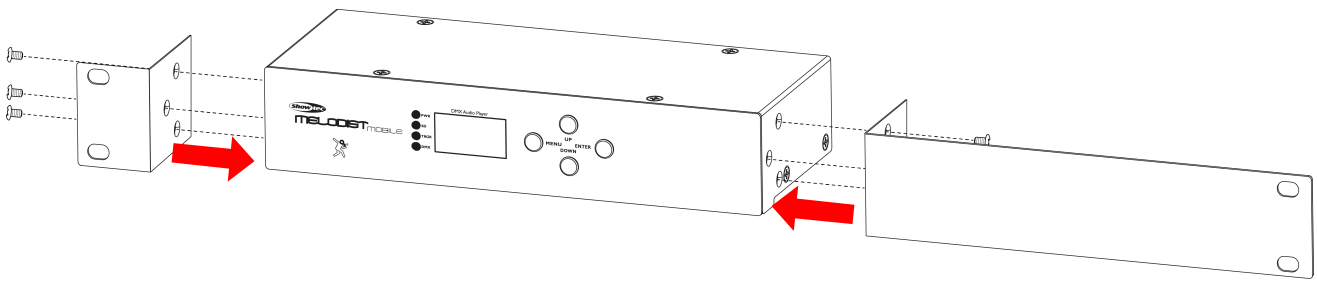
01) Install the mounting plates for stand-alone mounting (see 4.3.1. Stand-alone) or side-by-side placement with a 2nd device (see 4.3.2. Side-by-side).
02) Insert 4 cage nuts in the openings on the rack posts where you want to mount the device.
03) Position the device in front of the rack posts so that the 4 mounting openings on the flanges of the rack mounting plates face the openings on the rack posts with cage nuts.
04) Use a screwdriver to mount the device to the rack posts with 4 screws.

4.3.1. Stand-alone

To mount the device on its own in 1 rack unit, follow the steps below:

01) Use 3 screws to install 1 short rack mounting plate to the **mounting holes for rack mounting plate (03)** on either side of the device.
02) Use 3 screws to install 1 long rack mounting plate to the **mounting holes for rack mounting plate (03)** on the other side of the device.
03) Mount the device in a rack (see 4.3. Rack Mounting).

Figure 5

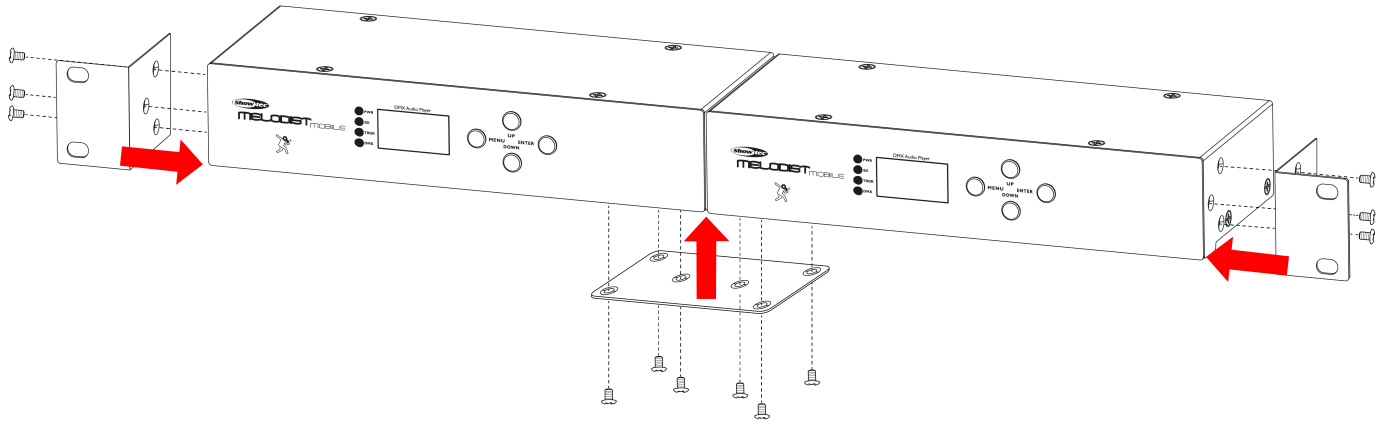


4.3.2. Side-by-side

To mount the device side-by-side with a 2nd device in 1 rack unit, follow the steps below:

01) Use 6 screws to install the bottom connection plate to the **mounting holes for bottom connection plate (11)** of the 2 devices.
02) Use 6 screws to install the 2 short rack mounting plates to the **mounting holes for rack mounting plate (03)** on both sides of the 2 devices.
03) Mount the 2 devices in a rack (see 4.3. Rack Mounting).

Figure 6



4.4. Connecting to Power Supply

Attention
Incorrect handling of the AC power adapter may result in hazardous situations.

This device is delivered with an AC power adapter. Incorrect handling of the AC power adapter may result in hazardous situations.

- Make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the AC power adapter.
- Connect the device to the socket-outlet with the delivered AC power adapter. Use only the AC power adapter delivered with the device.
- Make sure that the socket-outlet is easily accessible.
- Disconnect the AC power adapter from the socket-outlet when the device is not in use.

5. Setup

5.1. Warnings and Precautions

Attention
Connect all data cables before supplying power.
Disconnect power supply before connecting or disconnecting data cables.

5.2. Setup Example

The Melodist Mobile can be controlled with a DMX signal (see 6.2. Control Modes on page 17) through the **5-pin DMX XLR connector IN (09)**. Alternatively, external trigger devices can be used through the **4-pin GPIO Phoenix terminal connector IN for triggers (06)**.

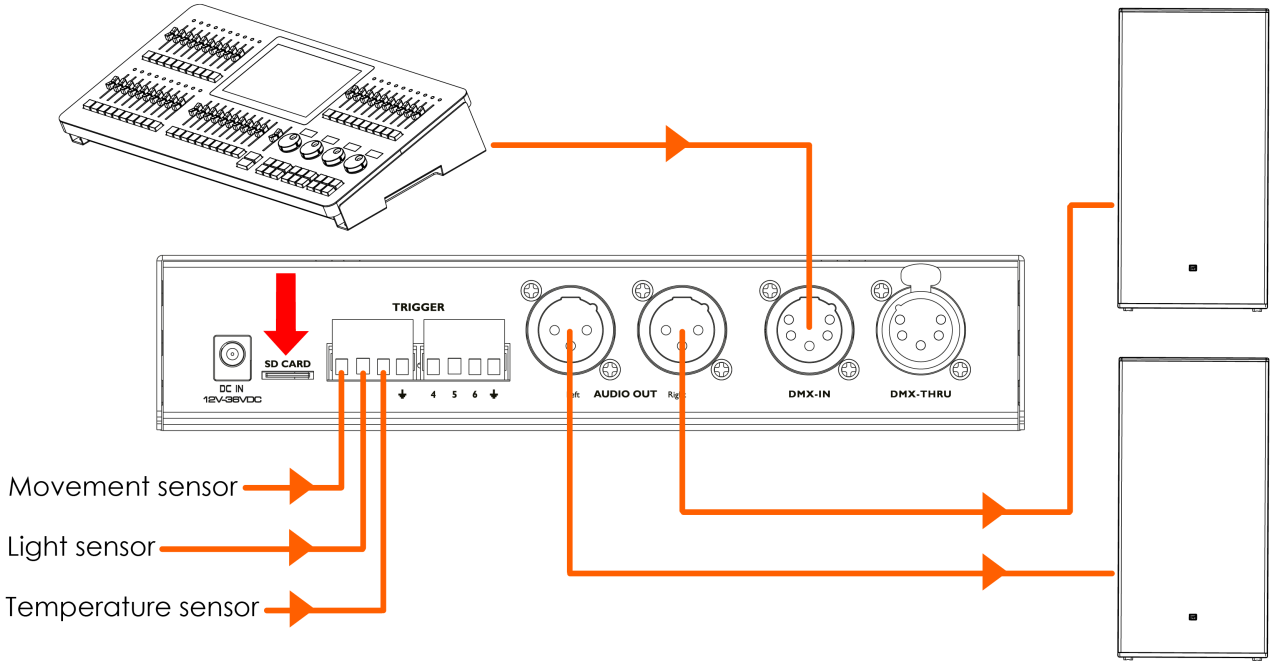
Note:

If there is a DMX signal, it overrules trigger inputs 1 through 6.

To set up the Melodist Mobile, follow the steps below:

01) Connect a DMX controller to the **5-pin DMX XLR connector IN (09)**.
02) Connect the external trigger devices to the **4-pin GPIO Phoenix terminal connector IN for triggers (06)** (see 5.2.1. Connecting External Trigger Devices).
03) Insert an SD card (see 5.3. SD Card on page 14) with WAV files into the **SD card slot (05)**.
04) Connect speakers to the **3-pin XLR balanced connector OUT (Left) (07)** and the **3-pin XLR balanced connector OUT (Right) (08)**.

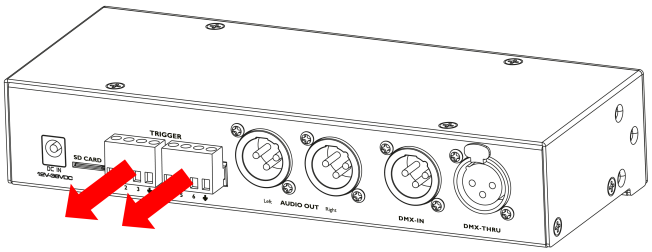
Figure 7



5.2.1. Connecting External Trigger Devices

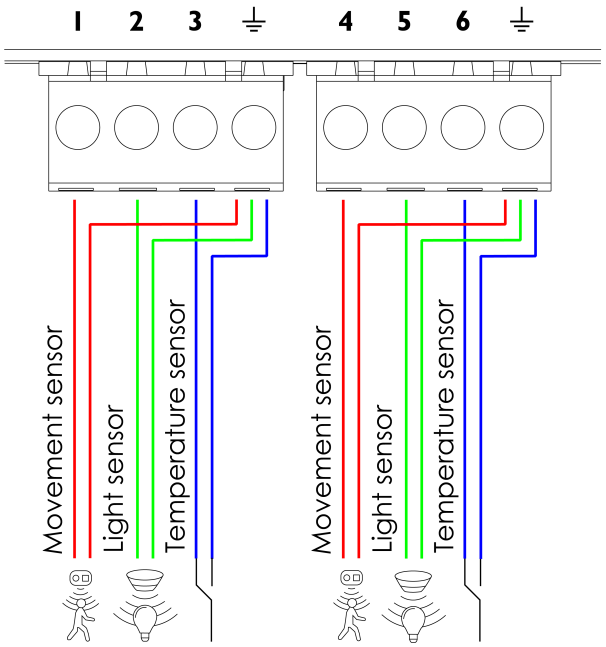
01) Remove the **4-pin GPIO Phoenix terminal connector IN for triggers (06)**.

Figure 8



02) Connect the external trigger devices (movement sensors, temperature sensors, light sensors, etc.) to the device's **4-pin GPIO Phoenix terminal connector IN for triggers (06)**.

Figure 9



5.3. SD Card

The Melodist Mobile only works with the included Kingston 8GB Industrial SD card (see 1.1. Before Using the Product on page 4) or similar industrial SD cards. The reaction time of other types of micro-SD cards is too slow.

Note:

It is important that the right structure and naming conventions are used for the folders and file names. Additionally, the format of the audio files must be 44,1 kHz, 16-bit stereo WAV. For more information on using the device, see Operation (see 6. Operation on page 17).

The folder structure must be as follows:

Level 1	Level 2	Level 3	Notes
Root folder	PLAY1	Maximum 64 WAV files	The play folders in the root folder must be renamed PLAY1, PLAY2, etc. Each PLAY folder can hold a maximum of 64 WAV files
	PLAY2	Maximum 64 WAV files	
	PLAY3	Maximum 64 WAV files	
	PLAY4	Maximum 64 WAV files	
	PLAY5	Maximum 64 WAV files	
	PLAY6	Maximum 64 WAV files	
	T01.wav		The WAV files in the root folder must be renamed T01, T02, etc.
	T02.wav		
	T03.wav		
	T04.wav		
	T05.wav		
	T06.wav		
	T07.wav		
	T08.wav		
	T09.wav		
	T10.wav		

5.4. DMX Connection

5.4.1. DMX-512 Protocol

You need a DMX serial data link to run light shows of one or more devices using a DMX-512 controller.

The Melodist Mobile has 5-pin DMX signal IN and OUT connectors.

The pin assignment is as follows: pin 1 (ground), pin 2 (-), pin 3 (+).

Devices on a serial data link must be daisy-chained in a single line. The number of devices that you can control on one data link is limited by the combined number of the DMX channels of the connected devices and the 512 channels available in one DMX universe.

To comply with the TIA-485 standard, no more than 32 devices should be connected on one data link. In order to connect more than 32 devices on one data link, you must use a DMX optically isolated splitter/booster, otherwise this may result in deterioration of the DMX signal.

Note:

- Maximum recommended DMX data link distance: 300 m
- Maximum recommended number of devices on a DMX data link: 32 devices

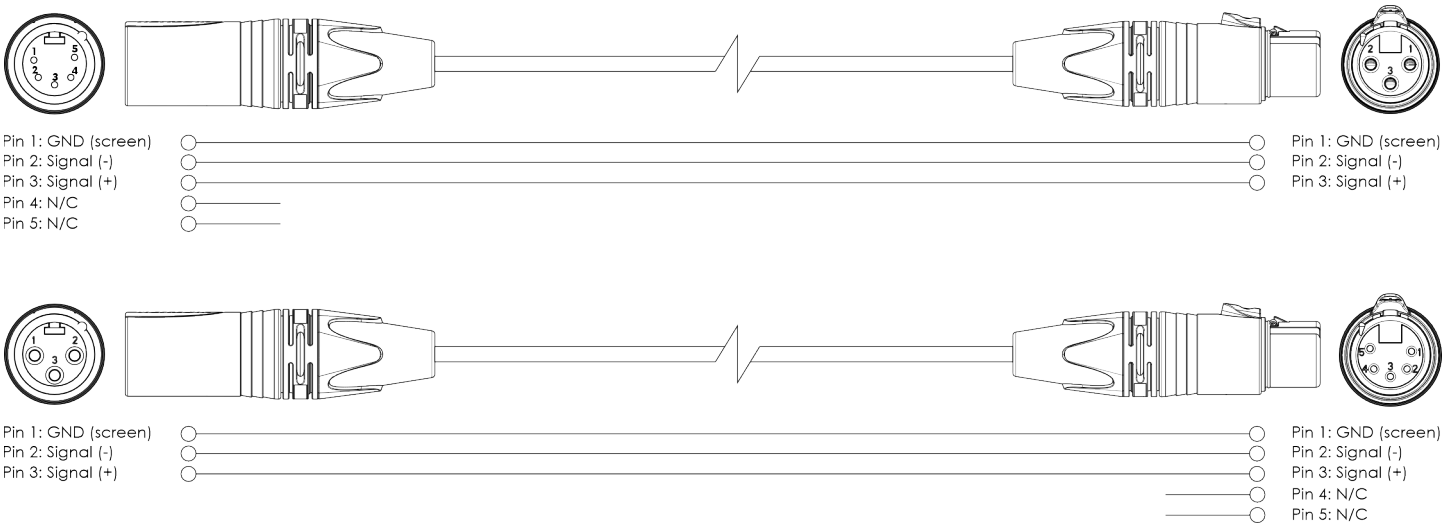
5.4.2. DMX Cables

Shielded twisted-pair cables with 5-pin XLR connectors must be used for reliable DMX connection. You can purchase DMX cables directly from your Highlite International dealer or make your own cables.

If you use XLR audio cables for DMX data transmission, this may lead to signal degradation and unreliable operation of the DMX network.

When you make your own DMX cables, make sure that you connect the pins and wires correctly as shown in the figure below.

Figure 10

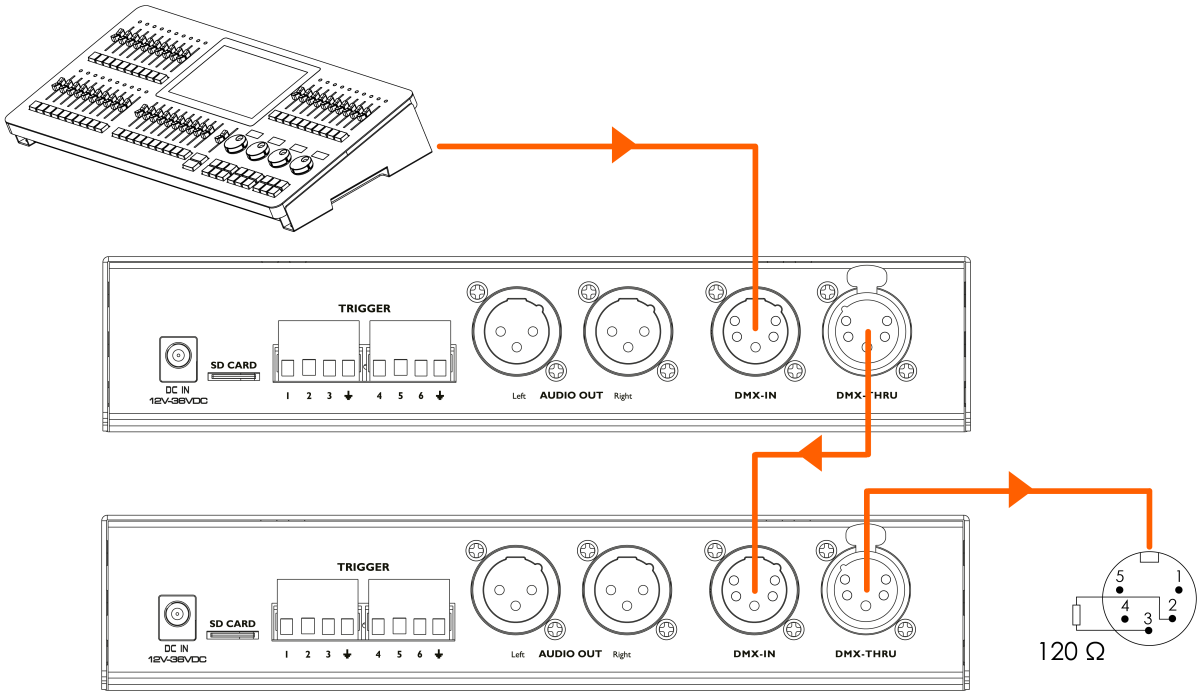


5.4.3. DMX Linking

To connect multiple devices on one DMX data link, follow the steps below:

01) Use a 5-pin DMX cable to connect the DMX OUT connector of the lighting controller to the DMX IN connector of the 1st device.
02) Connect the DMX OUT connector of the 1st device to the DMX IN connector of the 2nd device with a 5-pin DMX cable.
03) Repeat step 2 to connect all devices in a daisy-chain.
04) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device on the data link.

Figure 11



5.4.4. DMX Addressing

In a setup with multiple devices, make sure that you set the DMX starting address of each device correctly. The Melodist Mobile has 2 personalities: Player Mode (5 channels) and Trigger Mode (11 channels).

If you want to connect multiple devices on one data link and use them in 11-channel mode, for example, follow the steps below:

01) Set the starting address of the 1st device on the data link to 1 (001).
02) Set the starting address of the 2nd device on the data link to 12 (012), as 1 + 11 = 12.
03) Set the starting address of the 3rd device on the data link to 23 (023), as 12 + 11 = 23.
04) Continue assigning the starting addresses of the remaining devices by adding 11 each time to the previous number.

When addressing multiple devices on one data link, make sure that there are no overlapping channels. You cannot control devices individually if they have overlapping channels.

6. Operation

6.1. Safety Instructions for Operation

Attention
This device must be used only for the purposes it is designed for.

This device is intended for professional use as a DMX controllable WAV media player. It can be used only indoors. This device is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

Attention
Power supply

Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

6.2. Control Modes

The Melodist Mobile can be operated with a DMX controller or with the **control panel (02)**.

The Melodist Mobile supports the following control modes (see 6.7.2. DMX Mode on page 20):

- Trigger mode (see 6.2.1. Trigger Mode)
- Player mode (see 6.2.2. Player Mode)

For more information about how to connect the devices, refer to Setup (see 5. Setup on page 12).

Make sure the SD card with audio files is set up correctly (see 5.3. SD Card on page 14).

6.2.1. Trigger Mode

In Trigger mode, the Melodist Mobile plays up to 10 WAV files simultaneously. This mode uses 11 DMX channels (see 6.8. DMX Channels on page 21). Channel 1–10 are used to start, stop and pause the audio files. Channel 11 controls the output volume.

If no DMX signal is present, the 6 triggers connected to the **4-pin GPIO Phoenix terminal connector IN for triggers (06)** can start the first 6 audio files.

Note:

Make sure the WAV files are in the root folder of the SD card and are named correctly (see 5.3. SD Card on page 14).

6.2.2. Player Mode

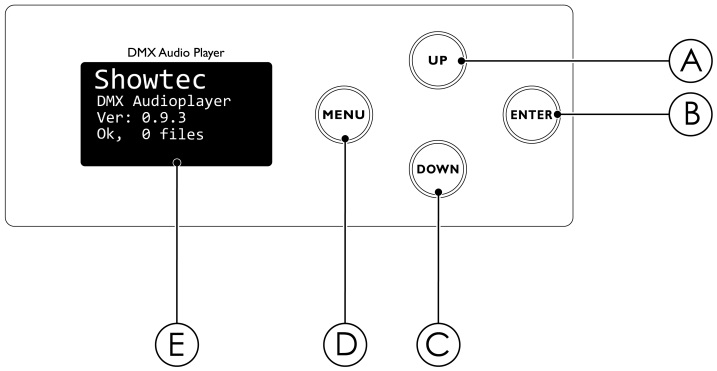
In Player mode, the Melodist Mobile plays one audio file at a time. This mode uses 5 DMX channels (see 6.8. DMX Channels on page 21).

The 4th DMX channel controls the mode in Player mode. The following 4 modes are available:

- Single continuous: The device plays all audio files in a folder in order
- Single shot: The devices play 1 audio file and then stops
- Continuous loop: The device plays 1 audio file on a loop
- Continuous random: The device plays all audio files in a folder in a random order

6.3. Control Panel

Figure 12



A) UP touch button
B) ENTER touch button
C) DOWN touch button
D) MENU touch button
E) OLED display

- Use the **MENU** button to exit the current submenu, to return to the Main Menu and to return to the start screen.
- Use the **UP/DOWN** buttons to navigate through the menus or to increase/decrease numeric values.
- Use the **ENTER** button to open the desired menu, to confirm your choice or to set the currently selected value.

6.4. LED statuses

The device has 4 **status LED indicators (01)**, which indicate the following:

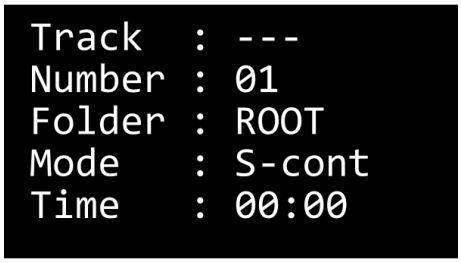
PWR	PWR:	Illuminates red when the device is powered on
SD	SD:	Illuminates yellow when an SD card error occurs
TRGR	TRGR:	Illuminates green when a trigger is enabled on the **4-pin GPIO Phoenix terminal connectors IN for triggers (06)**
DMX	DMX:	Illuminates blue when a DMX signal is present

6.5. Start-up

Upon startup the display shows a splash screen with the name of the device, the firmware version number and the number of files on the SD card:



Immediately afterwards, the display shows the information screen. This screen provides information about the audio track being played and the active play mode, for example:

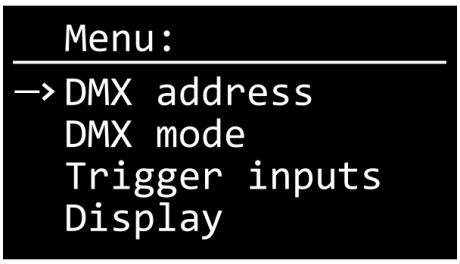


6.6. Menu Overview

Level 1	Level 2
DMX address (see 6.7.1. DMX Address on page 19)	001–508 (5 CH) 001–502 (11 CH)
DMX mode (see 6.7.2. DMX Mode on page 20)	11-ch trigger
	5-ch player
Trigger inputs (see 6.7.3. Trigger inputs on page 20)	single trigger
	on/off trigger
Display (see 6.7.4. Display on page 20)	on
	auto off
	Firmware version

6.7. Main Menu Options

The main menu has the following options:



1. DMX address
2. DMX mode
3. Trigger inputs
4. Display

01) Press the **UP/DOWN** buttons to navigate through the menu.
02) Press the **ENTER** button to open a submenu.
03) Press the **MENU** button to return to the information screen (see 6.5. Start-up on page 18).

6.7.1. DMX Address

In this submenu you can set the DMX starting address of the device.

01) Press the **UP/DOWN** buttons to select the DMX starting address of the device. The selection range depends on the active DMX channel mode:
    - 5-ch player (5 CH): 001–508
    - 11-ch trigger (11 CH): 001–502

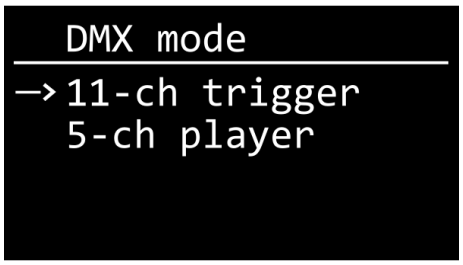


02) Press the **MENU** button to return to the main menu.

6.7.2. DMX Mode

In this submenu you can select the DMX channel mode.

01) Press the **UP/DOWN** buttons to select the DMX channel mode. There are 2 options available:



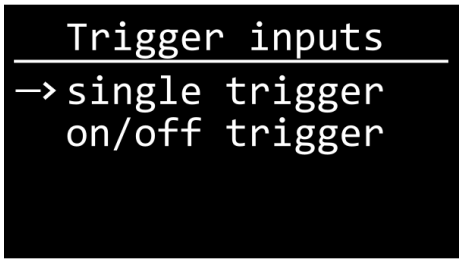
- 11-ch trigger (11 DMX channels) (see 6.2.1. Trigger Mode on page 17)
- 5-ch player (5 DMX channels) (see 6.2.2. Player Mode on page 17)

02) Press the **MENU** button to return to the main menu.

6.7.3. Trigger inputs

In this submenu you can select the trigger input mode.

01) Press the **UP/DOWN** buttons to select the trigger input mode. There are 2 options available:



- single trigger: An active trigger will play the selected audio file 1 time from start to finish
- on/off trigger: An active trigger will play the selected audio file. If the trigger signal stops, the playback of the audio file will stop. If the trigger is active longer than the length of the audio file, the playback of the audio file will be repeated

02) Press the **MENU** button to return to the main menu.

6.7.4. Display

In this submenu you can adjust the display settings of the device and view the firmware version.

01) Press the **UP/DOWN** buttons to select the display setting. There are 2 options available:



- on: The display stays on
- auto off: The display turns off automatically after 30 seconds of inactivity

02) Press the **MENU** button to return to the main menu.

6.8. DMX Channels

PLAYER Mode	TRIGGER Mode	Description	Value	Notes
1		Play	000–063	---
			064–127	Stop
			128–191	Pause
			192–255	Play
	1	Trigger 1	000–063	---
			064–127	Stop
			128–191	Pause
			192–255	Play
	2	Trigger 2	000–063	---
			064–127	Stop
			128–191	Pause
			192–255	Play
	3	Trigger 3	000–063	---
			064–127	Stop
			128–191	Pause
			192–255	Play
	4	Trigger 4	000–063	---
			064–127	Stop
			128–191	Pause
			192–255	Play
	5	Trigger 5	000–063	---
			064–127	Stop
			128–191	Pause
			192–255	Play
	6	Trigger 6	000–063	---
			064–127	Stop
			128–191	Pause
			192–255	Play
	7	Trigger 7	000–063	---
			064–127	Stop
			128–191	Pause
			192–255	Play
	8	Trigger 8	000–063	---
			064–127	Stop
			128–191	Pause
			192–255	Play
	9	Trigger 9	000–063	---
			064–127	Stop
			128–191	Pause
			192–255	Play
	10	Trigger 10	000–063	---
			064–127	Stop
			128–191	Pause

			192–255	Play
2		Track select	000–003	Track 01
			004–007	Track 02
			008–011	Track 03
			012–015	Track 04
			016–019	Track 05
			020–023	Track 06
			024–027	Track 07
			028–031	Track 08
			032–035	Track 09
			036–039	Track 10
			040–043	Track 11
			044–047	Track 12
			048–051	Track 13
			052–055	Track 14
			056–059	Track 15
			060–063	Track 16
			064–067	Track 17
			068–071	Track 18
			072–075	Track 19
			076–079	Track 20
			080–083	Track 21
			084–087	Track 22
			088–091	Track 23
			092–095	Track 24
			096–099	Track 25
			100–103	Track 26
			104–107	Track 27
			108–111	Track 28
			112–115	Track 29
			116–119	Track 30
			120–123	Track 31
			124–127	Track 32
			128–131	Track 33
			132–135	Track 34
			136–139	Track 35
			140–143	Track 36
			144–147	Track 37
			148–151	Track 38
			152–155	Track 39
			156–159	Track 40
			160–163	Track 41
			164–167	Track 42
			168–171	Track 43
			172–175	Track 44
			176–179	Track 45

			180–183	Track 46
			184–187	Track 47
			188–191	Track 48
			192–195	Track 49
			196–199	Track 50
			200–203	Track 51
			204–207	Track 52
			208–211	Track 53
			212–215	Track 54
			216–219	Track 55
			220–223	Track 56
			224–227	Track 57
			228–231	Track 58
			232–235	Track 59
			236–239	Track 60
			240–243	Track 61
			244–247	Track 62
			248–251	Track 63
			252–255	Track 64
3		**Folder**	000–035	Root
			036–071	PLAY 1
			072–107	PLAY 2
			108–143	PLAY 3
			144–179	PLAY 4
			180–215	PLAY 5
			216–251	PLAY 6
			252–255	---
4		**Mode**	000–071	Single continue
			072–143	Single stop
			144–215	Continue loop
			216–255	Continue random
5	**11**	**Volume**	000	MUTE
			001–255	0–100%

7. Troubleshooting

This troubleshooting guide contains solutions to problems which can be carried out by an ordinary person. The device does not contain user-serviceable parts.

Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

Refer servicing to instructed or skilled persons. Contact your Highlite International dealer in case the solution is not described in the table.

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	• Check if power is switched on and cables are plugged in
The device does not respond to DMX control	The controller is not connected	• Connect the controller
	The signal is reversed. The 5-pin DMX OUT of the controller does not match the DMX IN of the device	• Install a phase-reversing cable between the controller and the device
	The controller is defective	• Try using another controller
The device responds erratically to DMX control	Bad data link connection	• Examine connections and cables. Correct poor connections. Repair or replace damaged cables
	The data link is not terminated with a 120 Ω termination plug	• Insert a termination plug in the DMX OUT connector of the last device on the link
	Incorrect addressing	• Check address settings and correct, if necessary
	In case of a setup with multiple devices, one of the devices is defective and disturbs data transmission on the link	• To find out the defective device, bypass one device at a time until normal operation is restored

8. Maintenance

8.1. Preventive Maintenance

Attention
Before use, examine the device visually for any defects.

- The housing is not damaged.
- The power cable is not damaged and does not show any material fatigue.

8.1.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

01) Disconnect the device from the electrical power supply.
02) Allow the device to cool down for at least 5 minutes.
03) Clean the device with a soft, lint-free cloth.

Attention

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.

8.2. Corrective Maintenance

The device does not contain user-serviceable parts. Do not open the device and do not modify the device.

Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

9. Deinstallation, transportation and storage

- Use the original packaging to transport the device, if possible.
- Clean the device before storing (see 8.1.1. Basic Cleaning Instructions on page 25).
- Store the device in the original packaging, if possible.

10. Disposal



Correct disposal of this product

Waste Electrical and Electronic Equipment

This symbol on the product, its packaging or documents indicates that the product shall not be treated as household waste. Dispose of this product by handing it to the respective collection point for recycling of electrical and electronic equipment. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. For more detailed information about recycling of this product contact the local authorities or the authorized dealer.

11. Approval

CE

Check the respective product page on the website of Highlite International (www.highlite.com) for an available declaration of conformity.