

Melodist Install

Product code: 50421

DIN Rail

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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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.

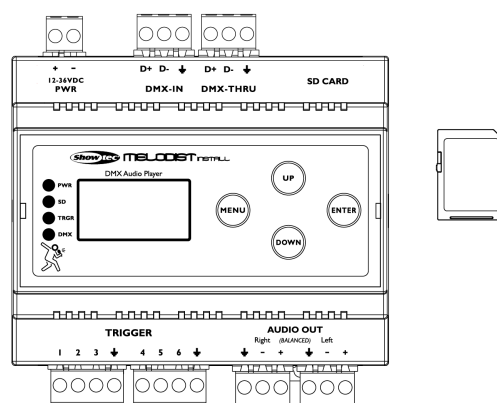
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

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 Install
- Kingston 8GB Industrial SD card
- 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

The device falls under IEC protection class III. This device shall be connected to an external power supply.

- Before connecting the device to the external 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.

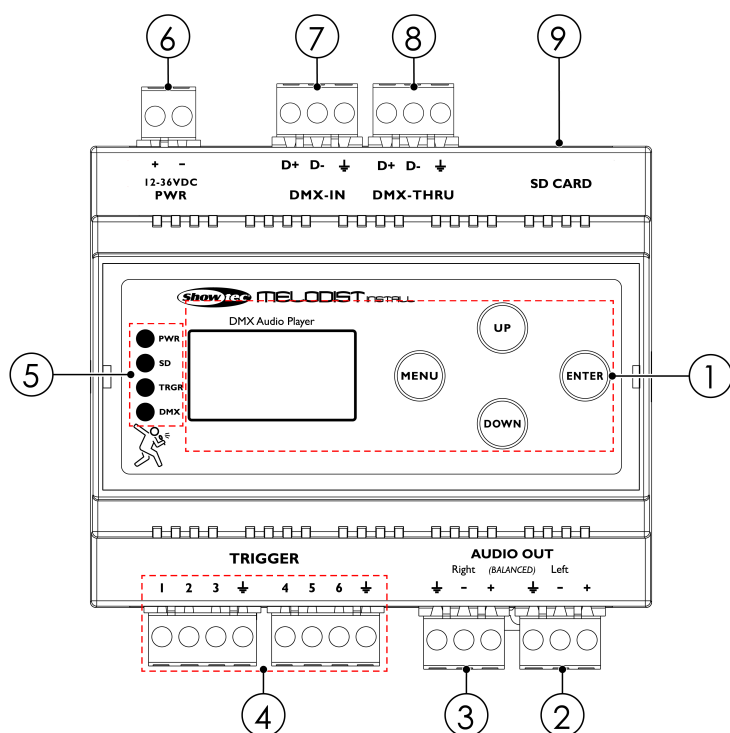
3. Description of the Device

The Showtec Melodist Install is a DMX controllable WAV media player for DIN rail mounting. It plays stereo WAV files from a micro SD card via two balanced outputs. Four status LEDs indicate the status of the player and control signals.

The Melodist Install 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. Top View

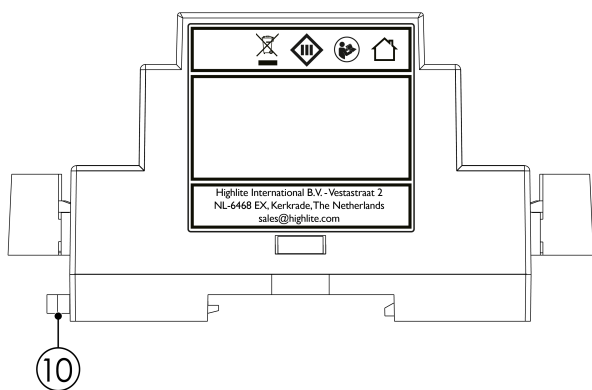
Figure 2



- 01) Control panel: OLED display and control buttons
- 02) 3-pin Phoenix terminal connector for balanced audio OUT (Left)
- 03) 3-pin Phoenix terminal connector for balanced audio OUT (Right)
- 04) 2 x 4-pin GPIO Phoenix terminal connector IN for triggers
- 05) 4 x status LED indicators
- 06) 2-pin Phoenix terminal power connector IN (12-36 V DC)
- 07) 3-pin Phoenix terminal connector for DMX IN
- 08) 3-pin Phoenix terminal connector for DMX OUT
- 09) SD card slot

3.2. Side View

Figure 3



- 10) 2 x DIN rail lock

3.3. Product Specifications

| | |
|--------|------------------|
| Model: | Melodist Install |
|--------|------------------|

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 | Phoenix |
| DMX connector | Phoenix IN/OUT |
| DMX connector IN | Phoenix |
| DMX connector OUT | Phoenix |

Mechanical specifications:

| | |
|-----------|------------------------|
| Length | 106 mm |
| Width | 87 mm |
| Height | 58 mm |
| Weight | 0,18 kg |
| IP rating | IP20 (indoor use only) |
| Housing | Plastic |
| Color | Gray |

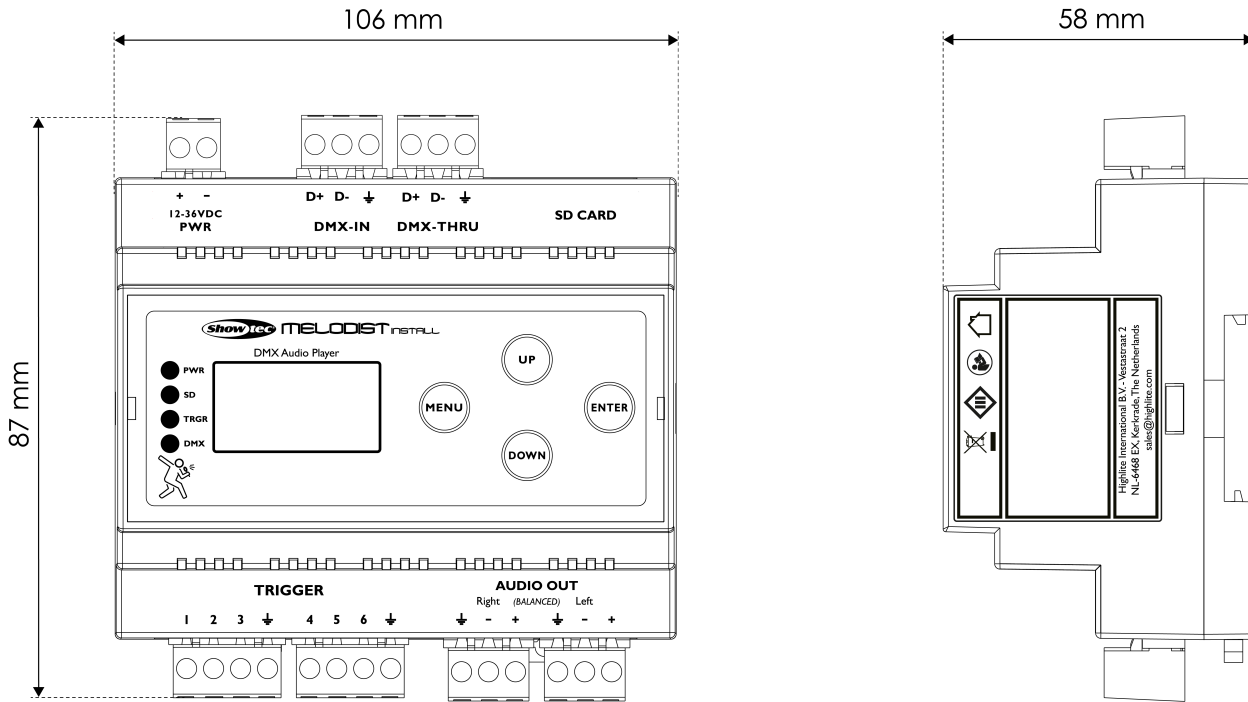
Product properties:

| | |
|----------------|---------------------------------|
| LED indicators | Operation mode / Power / Signal |
|----------------|---------------------------------|

Thermal specifications:

| | |
|-------------------------------|-------|
| Maximum ambient temperature | 40 °C |
| Minimum ambient temperature | 0 °C |
| Minimum operating temperature | 0 °C |

3.4. Dimensions



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 device can be mounted on a 35-mm DIN rail.
- The maximum ambient temperature $t_a = 40\text{ }^\circ\text{C}$ must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of $40\text{ }^\circ\text{C}$.

4.3. DIN Rail Mounting

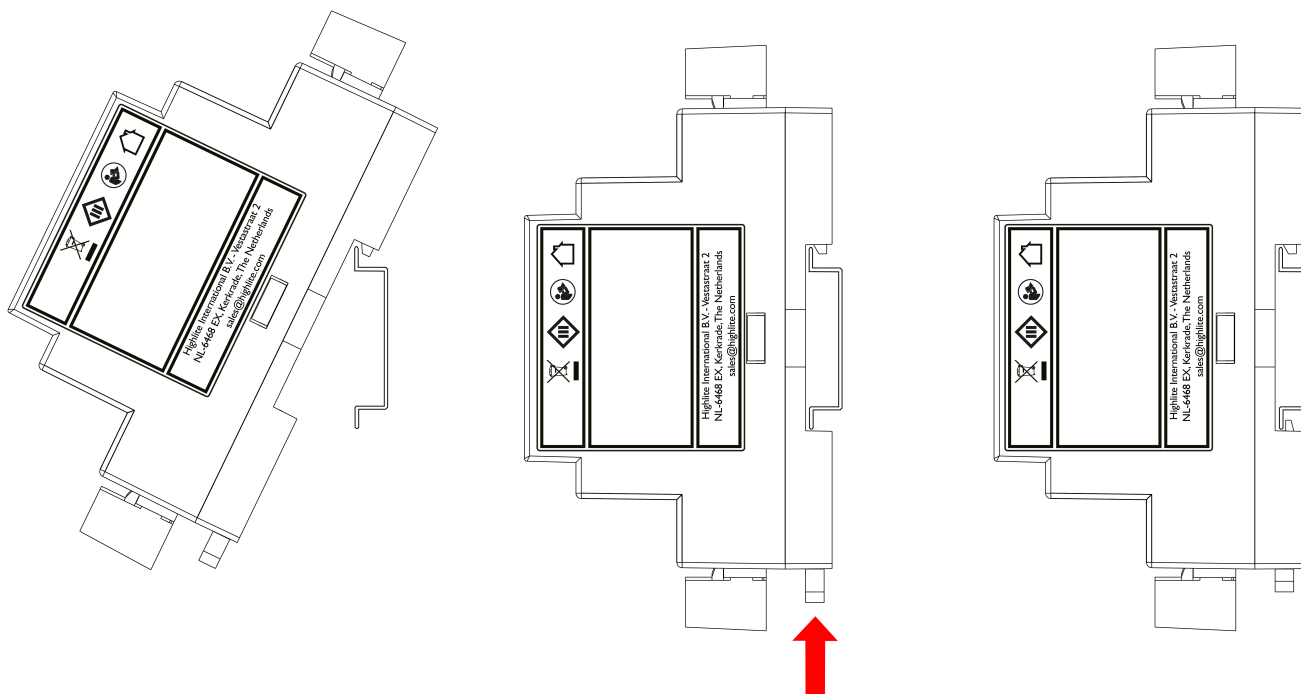
The device can be mounted on a 35-mm DIN rail.

Make sure that the DIN rail is sufficiently secured to prevent it from becoming unstable or falling off.

To mount the device on a 35-mm DIN rail, follow the steps below:

- 01) Position the device on the DIN rail.
- 02) Push the **DIN rail locks (10)** to mount the device firmly on the DIN rail.

Figure 4



4.4. Connecting to Power Supply



**Attention
Power supply**

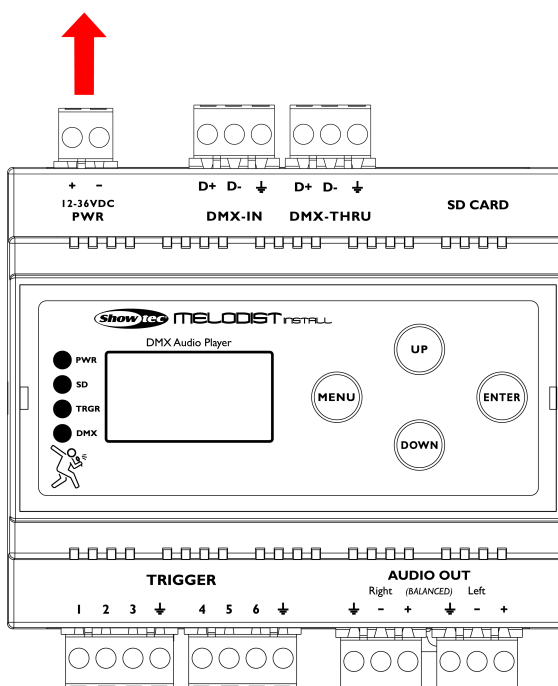
This device falls under IEC protection class III. This device shall be connected to an external power supply.

- Before connecting the device to an external 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. To connect the device to an external power supply, follow the steps below:

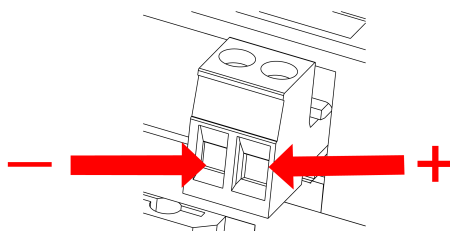
01) Remove the **2-pin Phoenix terminal power connector IN (06)**.

Figure 5



02) Connect the external power supply to the **2-pin Phoenix terminal power connector IN (06)**. Insert the cable correctly.

Figure 6



- 03) Put the **2-pin Phoenix terminal power connector IN (06)** back in the Melodist Install.
- 04) Install the Melodist Install on a DIN rail (see [4.3. DIN Rail Mounting](#) on page 10).
- 05) Connect the external power supply to the socket-outlet with its power plug.

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 Install can be controlled with a DMX signal (see [6.2. Control Modes](#) on page 18) through the **3-pin Phoenix terminal connector for DMX IN (07)**. Alternatively, external trigger devices can be used through the **4-pin GPIO Phoenix terminal connector IN for triggers (04)**.

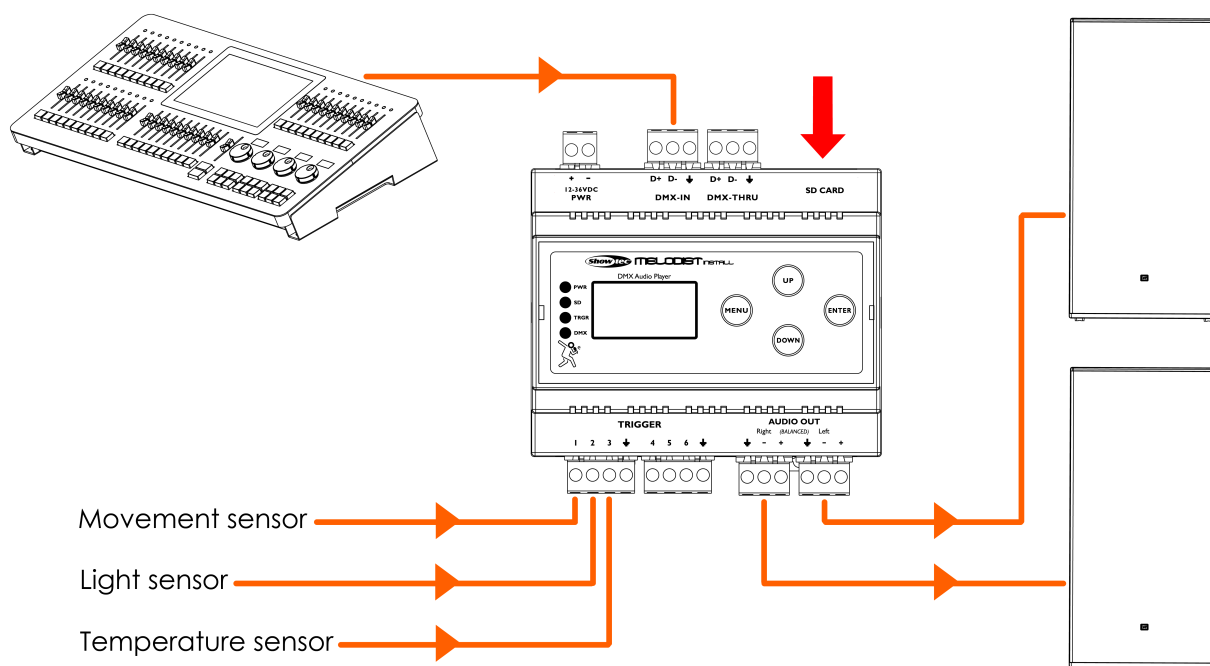
Note:

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

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

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

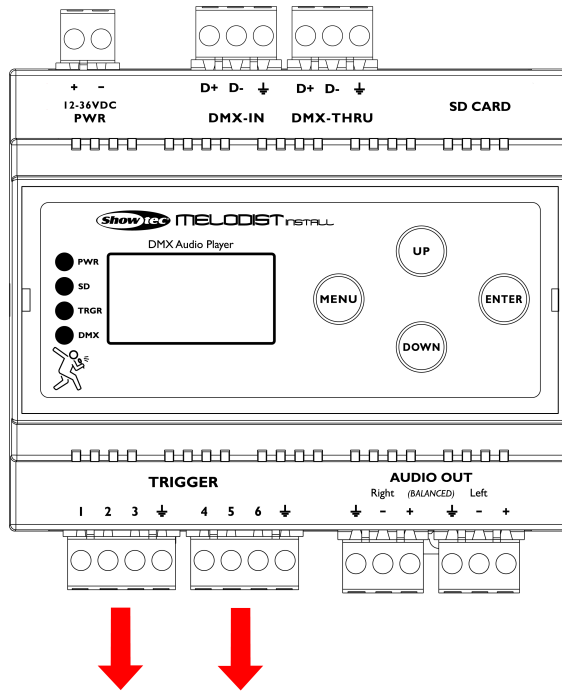
Figure 7



5.2.1. Connecting External Trigger Devices

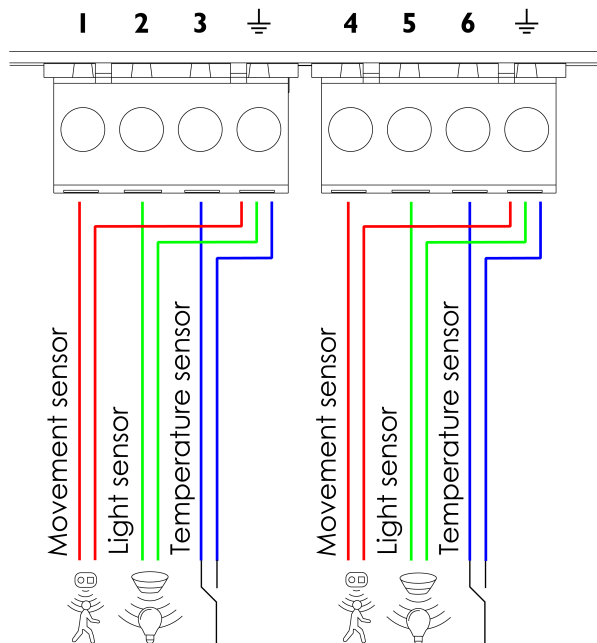
01) Remove the 4-pin GPIO Phoenix terminal connector IN for triggers (04).

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 (04).

Figure 9



5.3. SD Card

The Melodist Install only works with the included Kingston 8GB Industrial SD card (see [1.1. Before Using the Product](#) on page 3) 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 18).

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 Install has 3-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

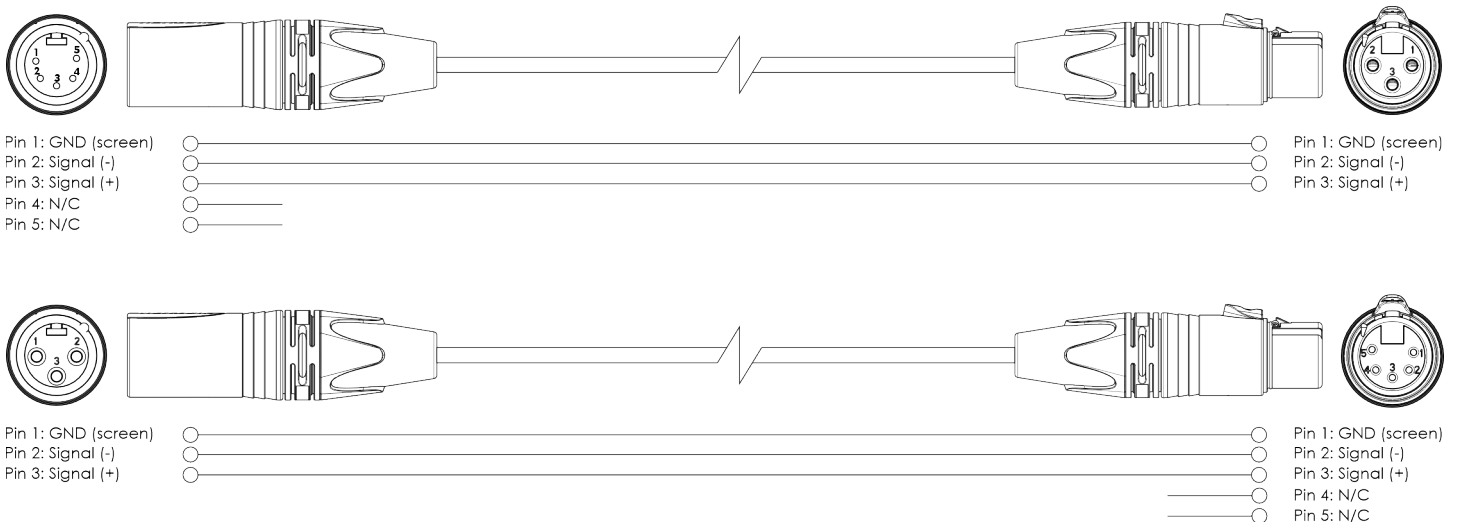
5.4.2. DMX Cables

Shielded twisted-pair cables with 3-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

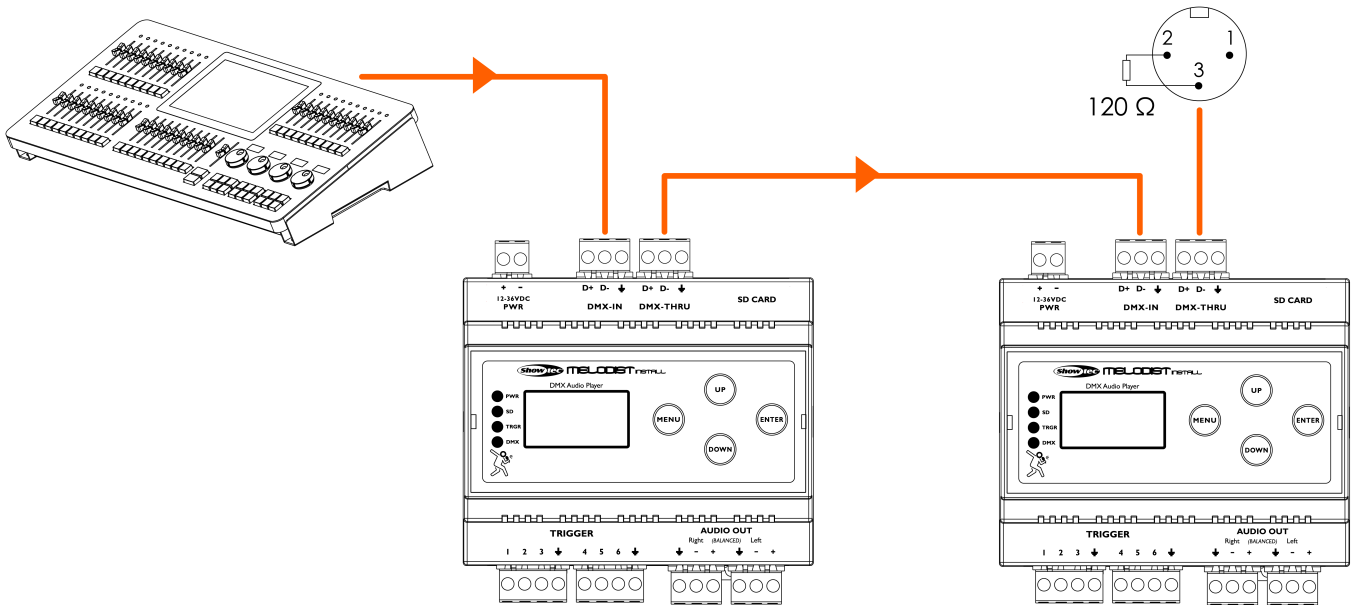


5.4.3. DMX Linking

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

- 01) Use a 3-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 3-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.

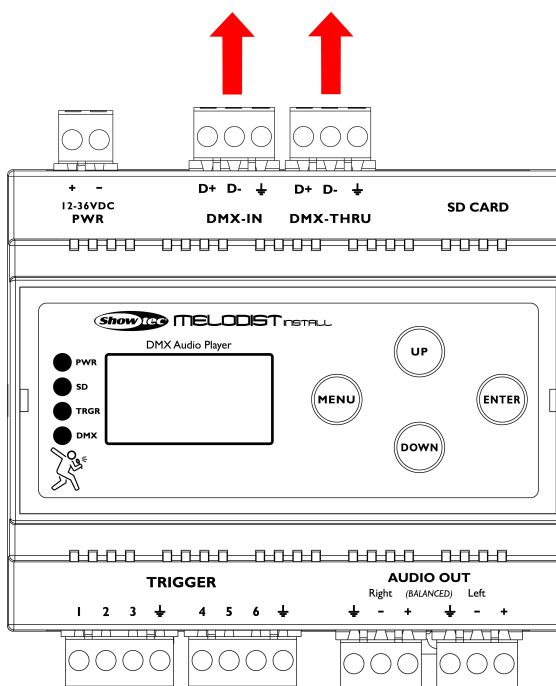
Figure 11



5.4.4. DMX Cable Connection

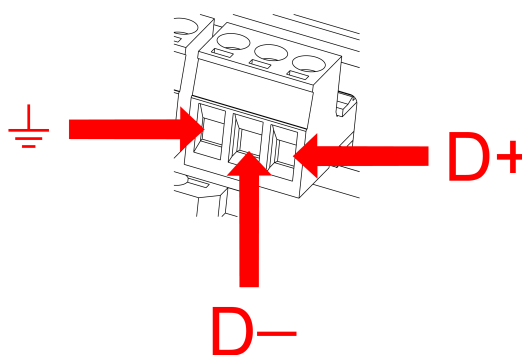
- 01) Remove the **3-pin Phoenix terminal connector for DMX IN (07)** and the **3-pin Phoenix terminal connector for DMX OUT (08)**.

Figure 12



- 02) Connect a DMX-512 controller to the **3-pin Phoenix terminal connector for DMX IN (07)** of the device.
- 03) Connect a DMX output device to the **3-pin Phoenix terminal connector for DMX OUT (08)** of the device.
- 04) Insert the cables correctly.

Figure 13



5.4.5. DMX Addressing

In a setup with multiple devices, make sure that you set the DMX starting address of each device correctly. The Melodist Install 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 Install can be operated with a DMX controller or with the **control panel (01)**.

The Melodist Install supports the following control modes (see [6.7.2. DMX Mode](#) on page 21):

- 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 Install plays up to 10 WAV files simultaneously. This mode uses 11 DMX channels (see [6.8. DMX Channels](#) on page 22). 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 (04)** 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

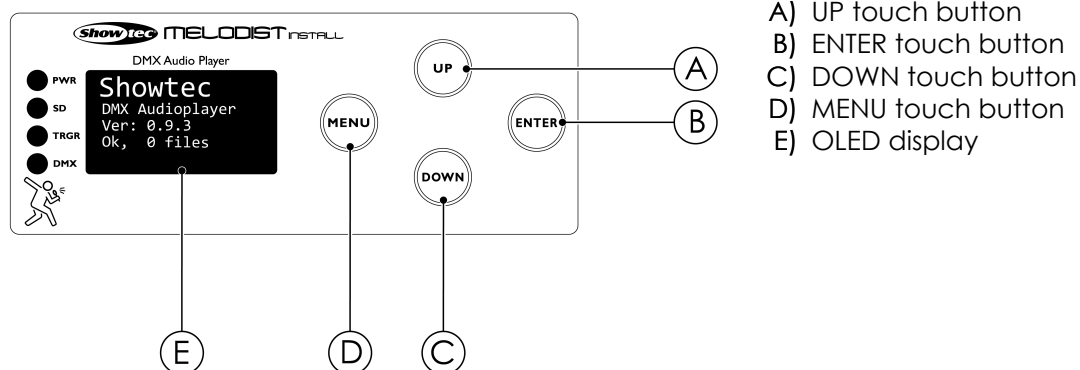
In Player mode, the Melodist Install plays one audio file at a time. This mode uses 5 DMX channels (see [6.8. DMX Channels](#) on page 22).

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 14



- 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 (05)**, 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 (04) |
| | 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:

```
Track   : ---
Number  : 01
Folder  : ROOT
Mode    : S-cont
Time    : 00:00
```

6.6. Menu Overview

| Level 1 | Level 2 |
|--|------------------------------------|
| DMX address (see 6.7.1. DMX Address on page 20) | 001–508 (5 CH) 001–502 (11 CH) |
| DMX mode (see 6.7.2. DMX Mode on page 21) | 11-ch trigger 5-ch player |
| Trigger inputs (see 6.7.3. Trigger inputs on page 21) | single trigger on/off trigger |
| Display (see 6.7.4. Display on page 21) | on auto off Firmware version |

6.7. Main Menu Options

The main menu has the following options:

```
Menu:
-----
-> DMX address
   DMX mode
   Trigger inputs
   Display
```

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 19).

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

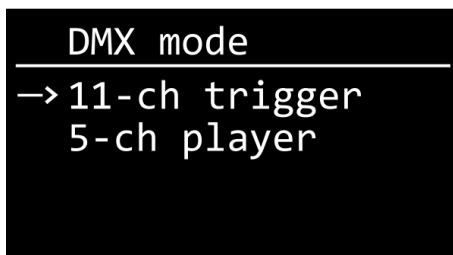
```
DMX address
-----
001
```

- 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:



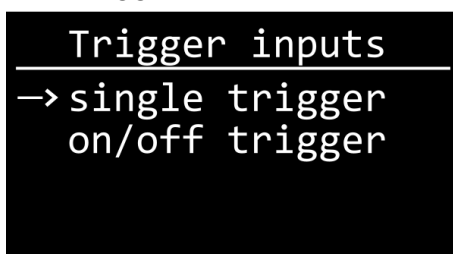
- 11-ch trigger (11 DMX channels) (see [6.2.1. Trigger Mode](#) on page 18)
- 5-ch player (5 DMX channels) (see [6.2.2. Player Mode](#) on page 18)

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:



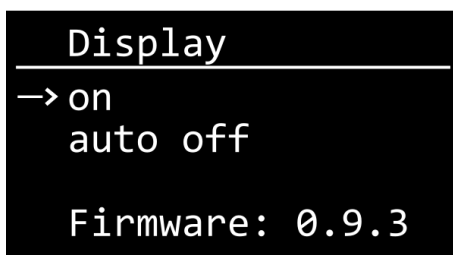
- single trigger: An active trigger will play the selected audio file 1 time from start to finish
- on/off trigger: An active trigger will play the selected audio file. If the trigger signal stops, the playback of the audio file will stop. If the trigger is active longer than the length of the audio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

| | |
|---------|----------|
| 192–255 | Play |
| 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 | <ul style="list-style-type: none"> Check if power is switched on and cables are plugged in |
| The device does not respond to DMX control | The controller is not connected | <ul style="list-style-type: none"> Connect the controller |
| | The signal is reversed. The 3-pin DMX OUT of the controller does not match the DMX IN of the device | <ul style="list-style-type: none"> Install a phase-reversing cable between the controller and the device |
| | The controller is defective | <ul style="list-style-type: none"> Try using another controller |
| The device responds erratically to DMX control | Bad data link connection | <ul style="list-style-type: none"> Examine connections and cables. Correct poor connections. Repair or replace damaged cables |
| | The data link is not terminated with a 120 Ω termination plug | <ul style="list-style-type: none"> Insert a termination plug in the DMX OUT connector of the last device on the link |
| | Incorrect addressing | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 26).
- 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



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

