

## Assistant

Product code: 50393

## Preface

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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

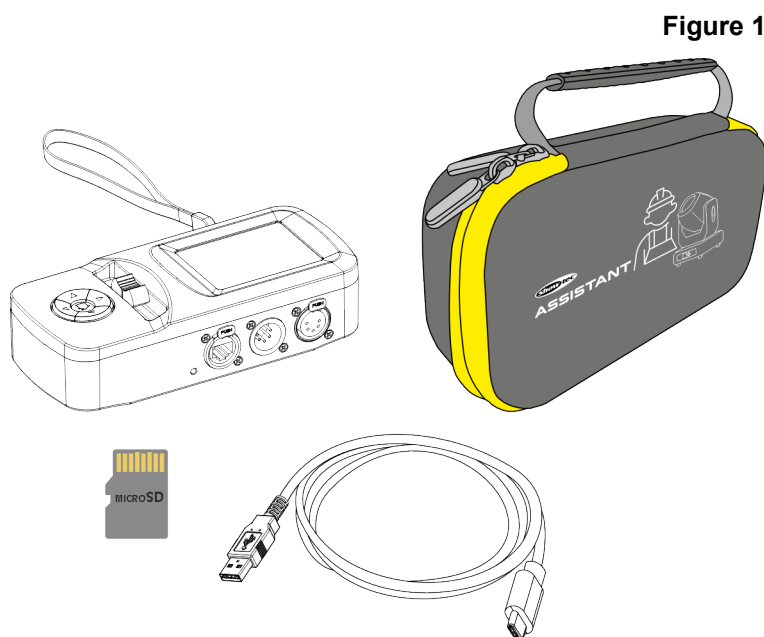
Read and follow the instructions in this user manual before installing, operating or servicing this product.

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 Assistant
- Rugged carrying bag
- USB-A to USB-C cable (1,0 m)
- Micro SD card
- User manual



### 1.2. Intended Use

This device is intended for professional use as a multifunctional tool. It is designed for indoor use.

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.



Provides important information about the disposal of this product.

## 1.6. Symbols on the Information Label

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

The information label contains the following symbol:



This device shall not be treated as household waste.



This device is designed for indoor use.



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.



**Attention**  
General safety

- Do not shake the device. Avoid brute force when installing or operating the device.
- Do not connect the device to a dimmer pack.
- Do not switch the device on and off in short intervals. This reduces the life of 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**  
This device must be used only for the purposes it is designed for.

This device is intended to be used as a multifunctional tool. It is suitable for indoor use. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not designed for permanent operation.
- 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****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. Installation and maintenance may be carried out by ordinary persons. 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.

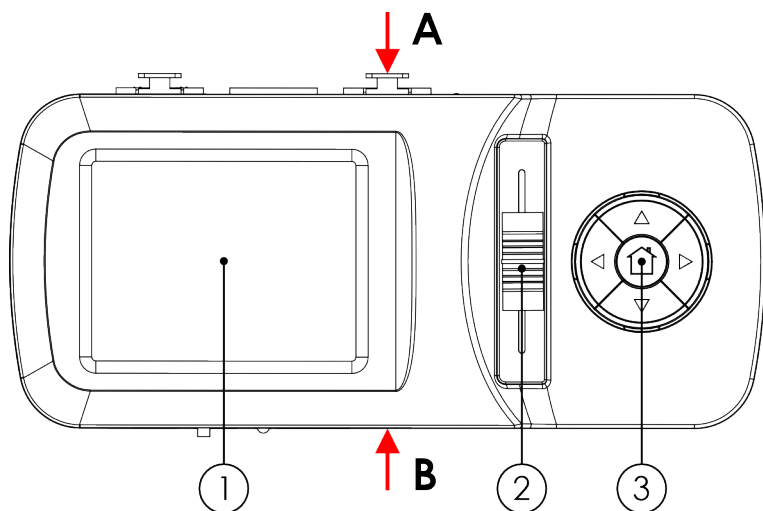
Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

### 3. Description of the Device

The Showtec Assistant is a multifunctional tool for checking DMX, Art-Net and sACN signals. It allows you to both receive and transmit DMX signals, making it ideal for testing your infrastructure and cables. You can record and play back DMX signals using a removable micro SD card. The Showtec Assistant enables you to check RDM parameters of your fixtures and verify the functionality of your Art-Net and sACN networks. Navigate through the menu with the capacitive touch screen or use the fader and control buttons. The internal Li-ion battery, when fully charged, lasts up to 16 hours and can be recharged via the USB-C port with a 5V power supply.

#### 3.1. Top View

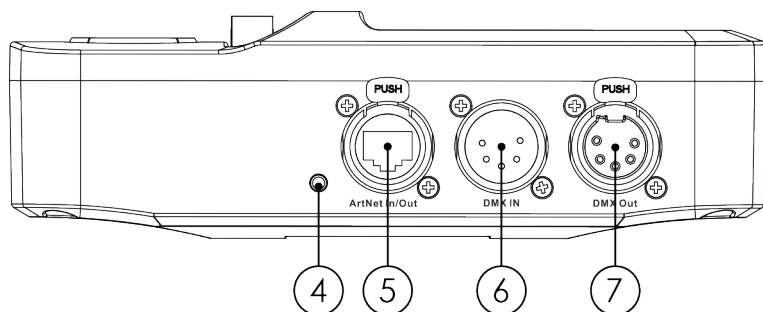
Figure 2



- 01) LCD / Touch display (80 mm)
- 02) Fader
- 03) Control buttons

#### 3.2. Side View A

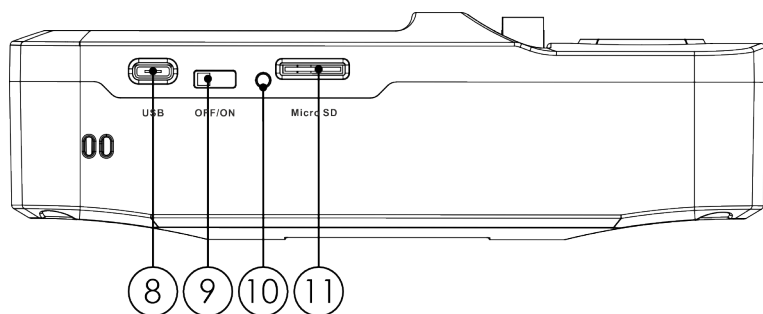
Figure 3



- 04) Network LED indicator
- 05) ArtNet IN/OUT
- 06) 5-pin DMX signal connector IN
- 07) 5-pin DMX signal connector OUT

#### 3.3. Side View B

Figure 4



- 08) USB-C connector IN (5 V DC)
- 09) Battery power switch (ON/OFF)
- 10) Power LED
- 11) Micro SD card

#### 3.4. Optional Accessories and Software

You can additionally purchase the following accessories:

- [FLA36](#) 5P XLR Male to 3P XLR Female
- [FLA37](#) 3P XLR Male to 5P XLR Female

### 3.5. Product Specifications

Model:	Assistant
--------	-----------

#### Server Specifications:

Memory type	Micro SD-card
-------------	---------------

#### Battery:

Battery type	Lithium ion
Battery voltage	3.7 V
Capacity	7,8 Ah
Battery power	28,86 Wh
Runtime average	16 h
Charging time	5 h
Battery lifetime	500 cycles

#### Control and Programming:

Control mode	Art-Net / DMX / RDM / sACN
Display	LCD / Touch
Universes	1

#### Electrical Specifications and Connections:

Power supply	5 V DC
Power over Ethernet (PoE)	No
Power consumption	5 W
Power connector IN	USB-C
DMX connector	XLR 5P IN/OUT
Data connector IN	RJ45

#### Mechanical Specifications:

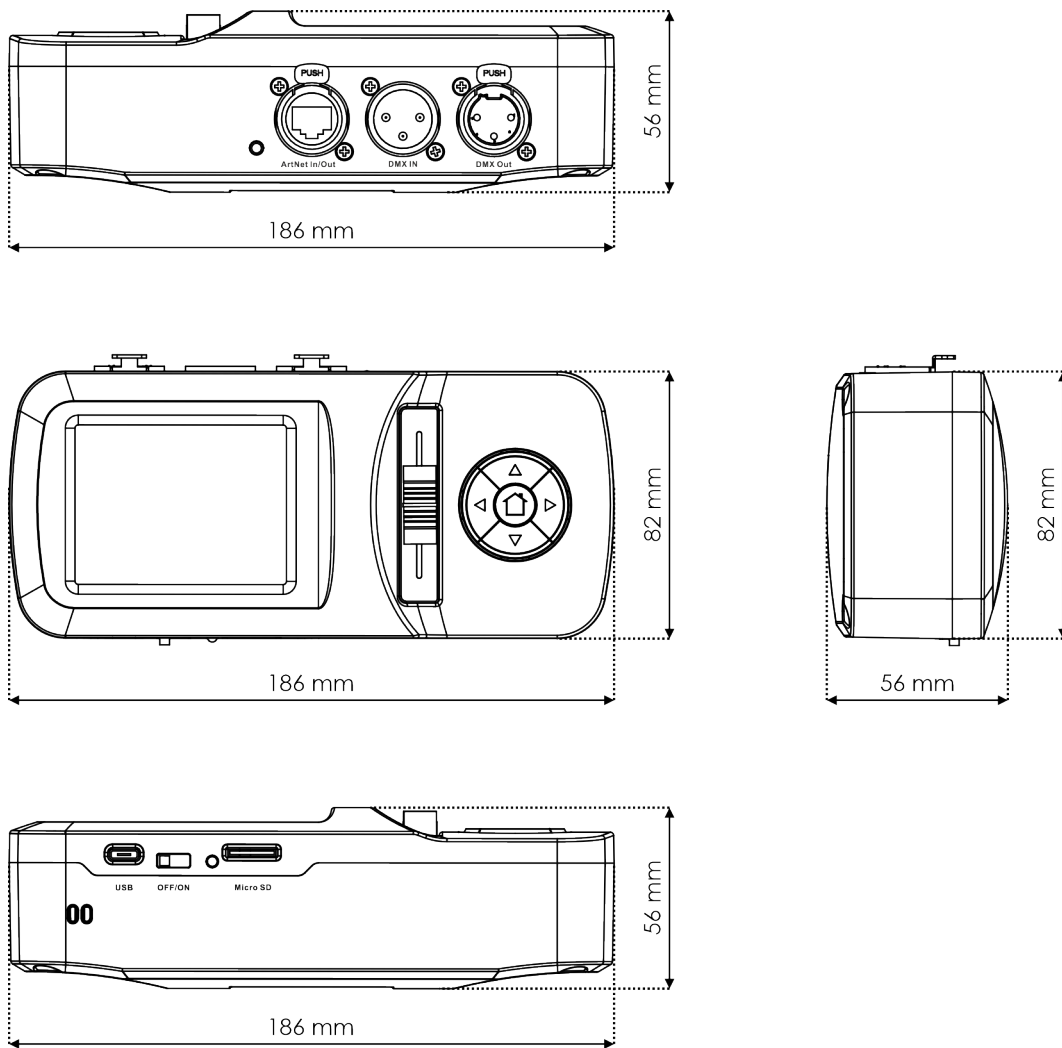
Length	186 mm
Width	82 mm
Height	56 mm
Weight	0,5 kg
IP rating	IP20 (indoor use only)
Housing	ABS
Color	Black

#### Thermal Specifications:

Maximum ambient temperature	50 °C
Minimum operating temperature	-10 °C

3.6. Dimensions

Figure 5



## 4. Installation

### 4.1. Installation Site Requirements

- The device can be used only indoors.
- The maximum ambient temperature  $t_a = 50\text{ °C}$  must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 50 °C.

### 4.2. Charging the Battery



**DANGER**  
Risk of explosion caused by incorrect handling

This device contains a built-in rechargeable lithium-ion battery. The battery is not replaceable. The battery may explode or cause burns if it is crushed, disassembled or exposed to fire or high temperatures.

- Do not open the device and do not attempt to remove the built-in battery.

This device is delivered with a USB-A to USB-C cable that is used to charge the battery. You have to buy a USB AC/DC power adapter separately.

Before connecting a USB AC/DC power adapter to the socket-outlet, make sure that the power supply matches the input voltage specified on the information label of the AC/DC power adapter.

To charge the battery follow the steps below:

- 01) Turn on the device by setting the **battery power switch (09)** to ON.
- 02) Connect a power adapter to the USB cable.
- 03) Connect the USB cable to the device. Use only the power cable delivered with the device.
- 04) Connect the Schuko plug of the AC/DC power adapter to the socket-outlet.

During charging the display shows the state of charge of the battery and the battery charging symbol:

71%





#### Note:

- Charge the battery before using the device for the first time.
- Do not deep discharge the battery as this will shorten the lifespan of the battery. Recharge the battery as soon as possible. Do not let the light run until the battery is depleted.
- Make sure that the battery is charged to at least 50 % before storing the device.
- It is recommended to charge the device at an ambient temperature between 0 and 35 °C.

Refer to the product specifications (see [3.5. Product Specifications](#) on page 9) for the charge time of the battery.

#### 4.2.1. Battery LED Indicator Statuses

The device has a battery LED indicator on the LCD display that shows the charge state of the battery:

LED color	Color	State of charge
29% 	Red	< 30 %
59% 	Yellow	< 60 %
60% 	Green	≥ 60 %
100% 	Green	Fully charged

**Note:**

The **power LED (10)** starts blinking when the battery is below 20%.

## 5. Setup

### 5.1. Ambient Conditions

- The device can be used only indoors.
- The maximum ambient temperature  $t_a = 50\text{ °C}$  must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 50 °C.

### 5.2. Start-up

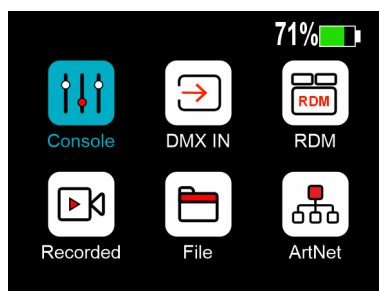
You can power the device in 2 ways:

- Battery power
- USB-A to USB-C cable with the AC/DC adapter

At start-up the display shows a splash screen with the Showtec logo:



After the splash screen, the device is ready to be operated. The display shows the main menu:



During charging, the display shows the battery charging symbol.

#### 5.2.1. Switch ON the Device with Battery Power

To use the device on battery power, the device needs to be turned on.

Use the **battery power switch (09)**.

- Switch the **battery power switch (09)** to the ON position to turn on the device.
- Switch the **battery power switch (09)** to the OFF position to turn off the device.

#### Note:

Turn off the device when the device is not in use to prevent the battery life from decreasing.

#### 5.2.2. Switch ON the Device with AC Power

01) Connect the USB-A end of the power cable to the adapter.

02) Connect the USB-C end of the power cable to the **USB-C power connector IN (08)**.

### 5.3. DMX Connection

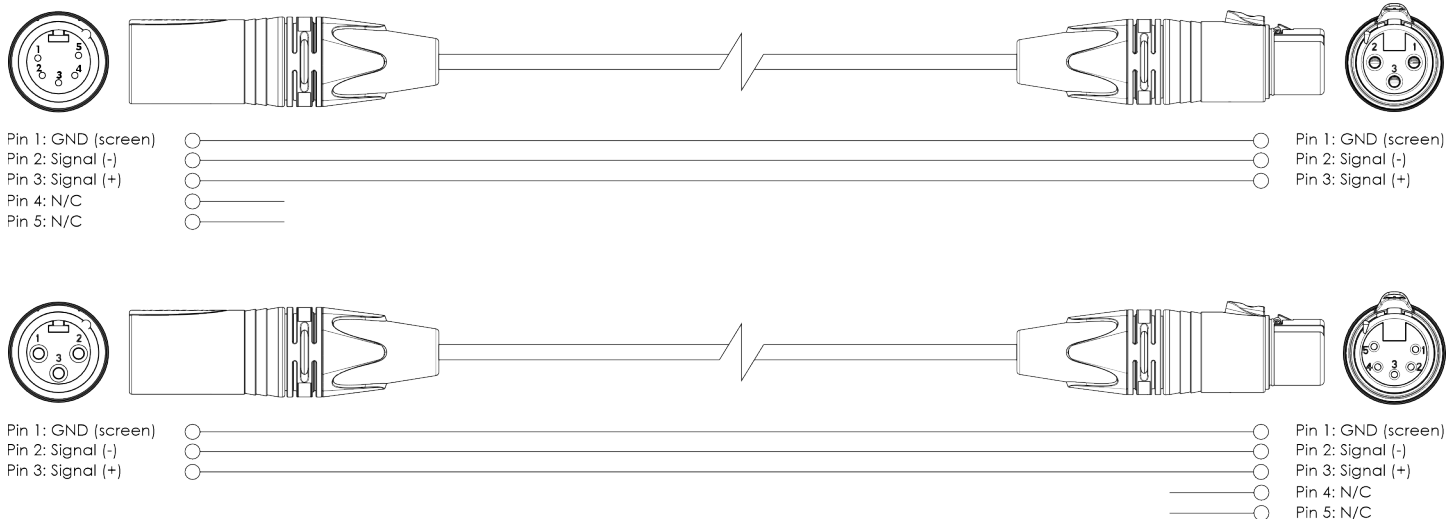
#### 5.3.1. DMX Cables

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 6



## 6. Operation

### 6.1. Safety Instructions for Operation



#### Attention

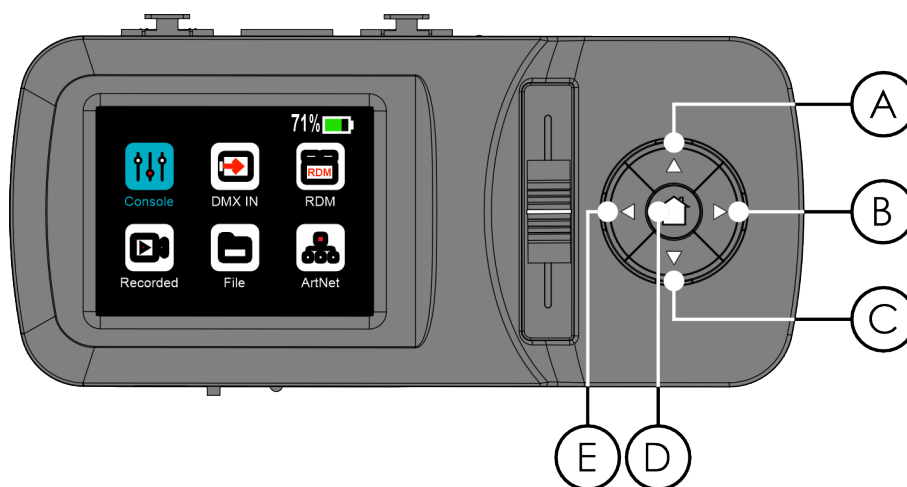
This device must be used only for the purposes it is designed for.

This device is intended for use as a multifunctional tool. It is suitable only for indoor installation.

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

### 6.2. Control Panel

Figure 7



- A) UP button
- B) RIGHT button
- C) DOWN button
- D) HOME/ENTER button
- E) LEFT button

- Use the **HOME/ENTER** button in the main menu to enter the next submenu.
- Use the **HOME/ENTER** button in all other submenus to exit the current submenu, to return to the Main Menu and to return to the start screen.
- Use the **RIGHT** button in all submenus to enter the next submenu, to confirm your choice or to set the currently selected value.
- Use the **LEFT/RIGHT** buttons to navigate through the main menu.
- Use the **UP/DOWN** buttons to navigate through the menus or to increase/decrease numeric values.

### 6.3. Menu Overview

Menu 1	Menu 2	Menu 3	Menu 4	Menu 5	Menu 6		
<b>1.Console</b> (see <a href="#">6.4.1. Console</a> on page 20)	DMX_Console	Save	Scene 1–Scene 20				
		Load	Scene 1–Scene 20				
	Program	Program Scene		Scene 1 : 1–20/END	Select Scene: END /Scene xx	Scene 1–Scene 20	
				–	Fade Time: 1000ms(0–1638375)		
				Scene 20 : 1–20/END	Hold Time: 1000ms(0–1638375)		
		Run			Circle		
					Single		
					Stop		
					Run		
					Scene: 1–20		
	Setting			Start Address	001–512		
				End Address	001–512		
				Interval	001–100		
				Mode	Mode1 Mode2		
	Macro	Static		Zero			
				Full			
				RGBW_R			
				RGBW_G			
				RGBW_B			
				RGBW_W			
				RGB_R			
				RGB_G			
				RGB_B			
				RGBALC_R			
				RGBALC_G			
				RGBALC_B			
				RGBALC_A			
				RGBALC_L			
RGBALC_C							
2Slots_1							
2Slots_2							
One By One			RGBW-Circle				
			RGBW-All				
			RGBW-R				
			RGBW-G				
			RGBW-B				
			RGBW-W				
			RGB_Circle				

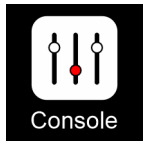
Menu 1	Menu 2	Menu 3	Menu 4	Menu 5	Menu 6		
			RGB_All				
			RGB-R				
			RGB-G				
			RGB-B				
			RGBALC_Circle				
			RGBALC_All				
			RGBALC_R				
			RGBALC_G				
			RGBALC_B				
			RGBALC_A				
			RGBALC_L				
			RGBALC_C				
			2Slots_1				
			2Slots_2				
			1-Slot				
			Rainbow_RGB		Speed:001-010		
			Rainbow_RGBW		Speed:001-010 White:000-255		
Wheel		1SLOT-6SLOT	001-512				
Channel Setting	Channel Setting	Multiple Choice					
		Deselect Multiple					
		Equal Interval	001-256				
		LR Buttons	Slide Page Turning				
<b>2.DMX IN</b> (see <a href="#">6.4.2. DMX IN</a> on page 33)	DMX Tracer						
	DMX Overview						
	DMX Timing Info						
<b>3.RDM</b> (see <a href="#">6.4.3. RDM</a> on page 37)	xx)xx.xx.xx.xx.xx.xx	Device Info	Model Description:				
			Manufacturer:				
			DMX Address:				
			Personality:				
			Software Version:				
			BOOT Version:				
		Start Address:xx	001-512				
		Personality(xx)	xx(x)-xx(x)				
		Device label					
		PID Get/Set	Device_Info				
			Device_Hours				
			Reset_Device				
			Sensor_Value				
Sensor_Definition							
Sensor	Software_Version						
	_Label						
		Sxx : xx					

Menu 1	Menu 2	Menu 3	Menu 4	Menu 5	Menu 6	
			Value:xx			
<b>4.Recorded</b> (see <a href="#">6.4.4. Recorded</a> on page 43)	Record Program	File Name: xxxx				
		File Size: xxxxMB				
	Play Program	Time: xx:xx:xx				
		Start/Stop				
Play Single	Play All	1.BIN-xx.BIN	1.BIN-xx.BIN	File Name: xx.BIN		
				File Size: xxMB		
<b>5.File</b> (see <a href="#">6.4.4.3. File</a> on page 46)	Record File	1.BIN-xx.BIN	File Name:xx.BIN	Progress:xx%	Progress:xx%	
			File:xx/xx	Single	Single	
			Loop	Loop	Loop	
			Stop	Stop	Stop	
<b>6.ArtNet</b> (see <a href="#">6.4.4.4. ArtNet</a> on page 47)	Device	xx.xx.xx.xx	File Name : xx.BIN			
			File Size : xxMB			
			Delete			
<b>7.Upgrade</b> (see <a href="#">6.4.4.5. Upgrade</a> on page 48)	xxxx.DS	DSxxxxxx Vxx.xx PCB:xx MCU:xx xxxx Data len = xxxxxx Upgrade? Yes No Upgrade Myself?	Cancel			
<b>8.USB Storage</b> (see <a href="#">6.4.4.6. USB Storage</a> on page 49)	Connect to computer					
<b>9.Settings</b> (see <a href="#">6.4.4.7. Settings</a> on page 51)	Back Light	Disable				
		1-60				
	Artnet Enable	Disable				
		Enable				
	IP Mask	xxx.xxx.xxx.xxx				
	Local IP	xxx.xxx.xxx.xxx				
	Target IP	xxx.xxx.xxx.xxx				
	Universe	00000-32767				
Data View	000-255 000-100%					
DMX Frequency	1Hz					

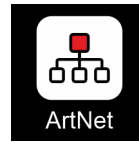
Menu 1	Menu 2	Menu 3	Menu 4	Menu 5	Menu 6
		5Hz			
		10Hz			
		25Hz			
		35Hz			
		44Hz			
	Default	Yes			
		No			
10. Information (see <a href="#">6.4.4.8. Information</a> on page 56)					

## 6.4. Main Menu Options

The main menu has the following 10 options:



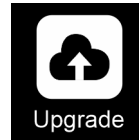
Console



ArtNet



DMX IN



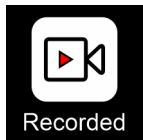
Upgrade



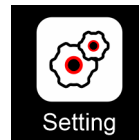
RDM



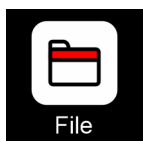
USB Storage



Recorded



Setting



File



Information

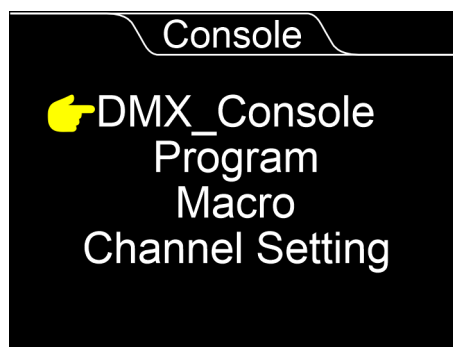
01) Press the **UP/DOWN** and **LEFT/RIGHT** buttons, slide your finger across the screen or use the fader, to navigate through the main menu.

02) Press the **HOME/ENTER** button to open the submenus.

### 6.4.1. Console

In this menu you can control the console and adjust the console settings of the device.

01) Touch the LCD screen to select the desired menu option or press the **UP/DOWN** buttons, to scroll through the 4 available options:



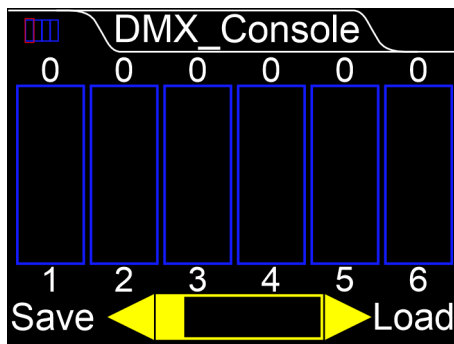
- DMX Console (see [6.4.1.1. DMX Console](#))
- Program (see [6.4.1.2. Program](#))
- Macro (see [6.4.1.3. Macro](#))
- Channel Setting (see [6.4.1.4. Channel Setting](#))

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen, you automatically confirm.

#### 6.4.1.1. DMX Console

In this submenu you can select the DMX channels.

- 01) Press the **LEFT/RIGHT** buttons, slide your finger across the screen or use the fader, to scroll through the 512 DMX channels.
- 02) Touch the LCD display to select one/multiple channel(s). The selected channel(s) will turn red. To deselect a channel, press the channel again. This behavior depends on the channel setting menu multiple choice, deselect multiple, equal interval.
- 03) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to increase/decrease the value for the selected DMX channel(s).
- 04) Touch the LCD display to select save or load:



- Save: Save the recorded show
- Load: Play the recorded show

- 05) Touch the **SAVE** button to confirm the scene in which you want to store your setting. The adjustment range is scene 01–20.
- 06) Touch the **LOAD** button to open a scene. The adjustment range is scene 01–20.

#### Note:

You can record/play a show in DMX mode, but not in ArtNet mode.

#### 6.4.1.2. Program

In this submenu you can play or record a program/scene.

- 01) Press the **UP/DOWN** buttons or touch the screen with your finger, to select one of the 2 available options:



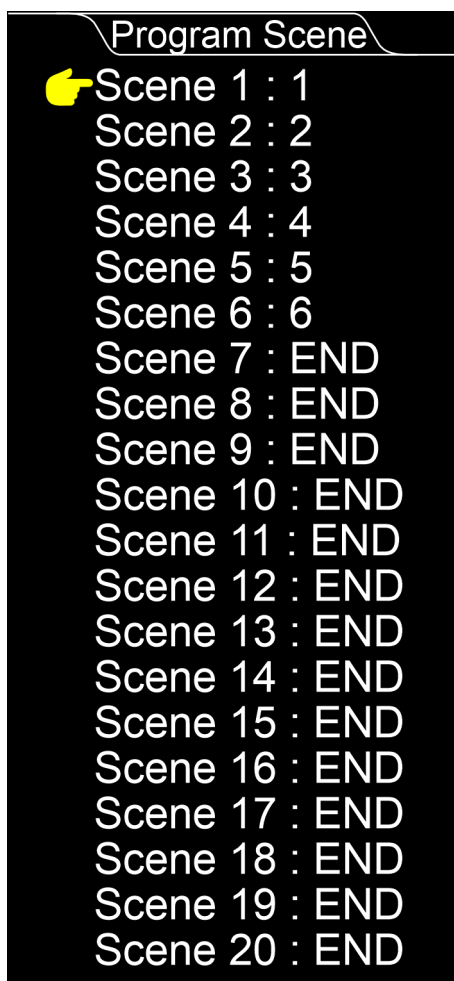
- Program Scene (see [6.4.1.2.1. Program Scene](#))
- Run (see [6.4.1.2.2. Run](#))

- 02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### 6.4.1.2.1. Program Scene

In this submenu you can record a program/scene.

01) Touch the LCD screen, press the **UP/DOWN** buttons or use the fader, to scroll through the 20 scenes.



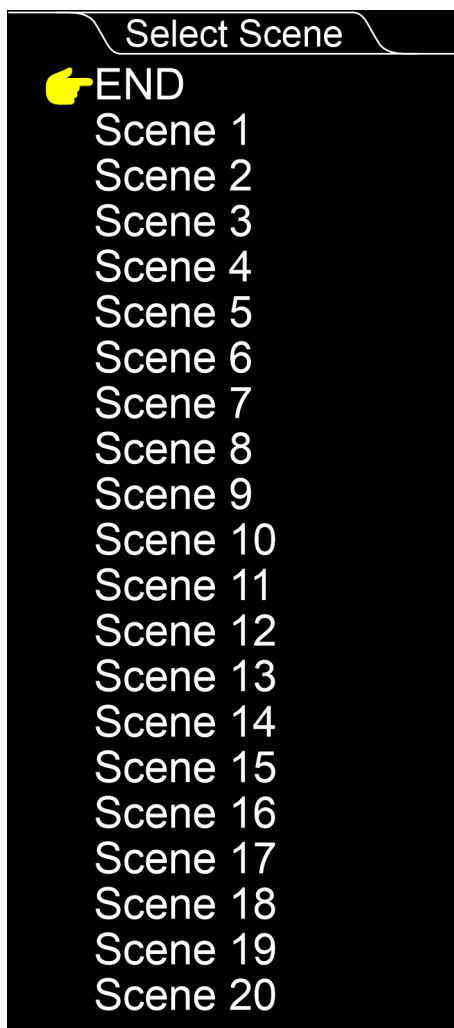
02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm. The display shows:



03) Press the **UP/DOWN** buttons or touch the LCD screen, to scroll through the 3 options.

- Select Scene: The adjustment range is scene 01–20 and END
- Fade Time: The adjustment range is 0–1638375 ms
- Hold Time: The adjustment range is 0–1638375 ms

04) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to scroll through the 21 options:



05) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

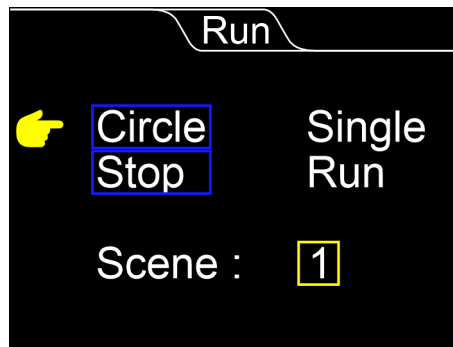
**Note:**

For the last scene in your setup, make sure to select END.

### 6.4.1.2.2. Run

In this submenu you can play a programmed scene.

01) Press the **UP/DOWN/LEFT/RIGHT** buttons or touch the LCD screen, to select 2 (circle or single/stop or run) of the 4 available options. The selected option will have a blue square:

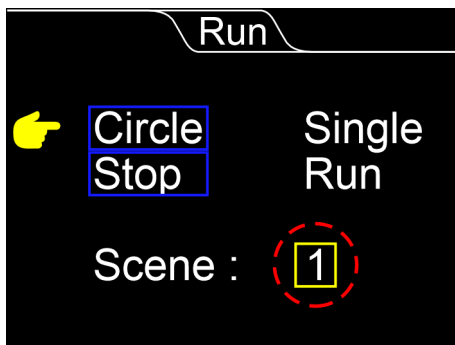


- Circle: Play all programmed scenes in a continuous loop
- Single: Play all programmed scenes once
- Stop: Stop playing a programmed scene
- Run: Play a programmed scene

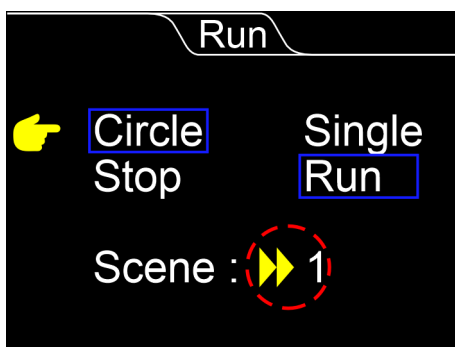
02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

**Note:**

The scene is active during the set hold time (see [6.4.1.2.1. Program Scene](#)):



The run indicator crossfades according to the set fade time (see [6.4.1.2.1. Program Scene](#)):



### 6.4.1.3. Macro

In this submenu you can select the macro settings.

01) Press the **UP/DOWN** buttons or touch the screen with your finger, to select one of the 6 available options:



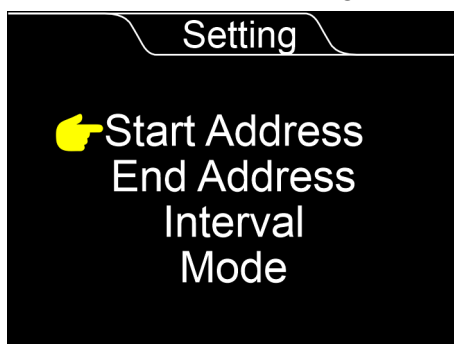
- Setting (see [6.4.1.3.1. Setting](#))
- Static (see [6.4.1.3.2. Static](#))
- One By One (see [6.4.1.3.3. One By One](#))
- Rainbow\_RGB (see [6.4.1.3.4. Rainbow RGB](#))
- Rainbow\_RGBW (see [6.4.1.3.5. Rainbow RGBW](#))
- Wheel (see [6.4.1.3.6. Wheel](#))

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### 6.4.1.3.1. Setting

In this submenu you can change the settings of the macro (built-in effect).

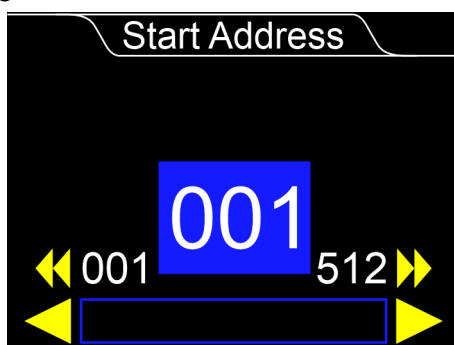
01) Press the **UP/DOWN** buttons or touch the screen with your finger, to select one of the 4 available options:



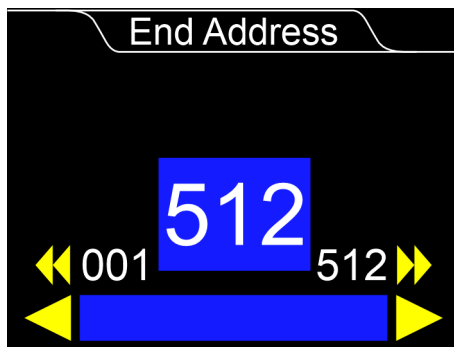
- Start Address: Start address of the macro
- End Address: End address of the macro
- Interval: Interval of the macro
- Mode: Mode of the macro

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

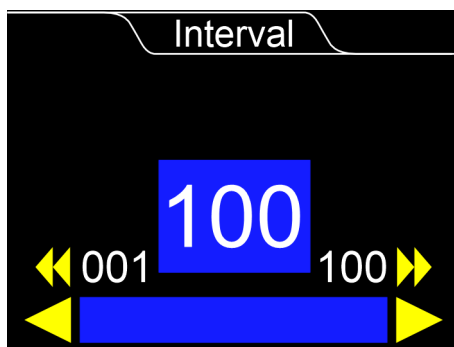
03) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to set the DMX start address of the macro. The adjustment range is 001–512.



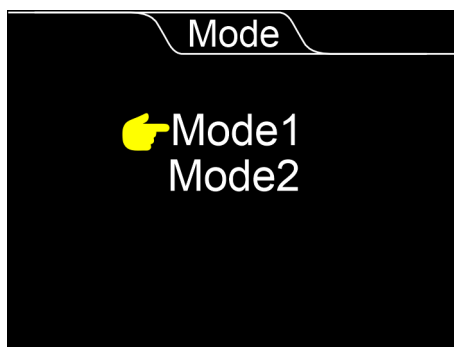
- 04) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to set the DMX end address of the macro. The adjustment range is 001–512.



- 05) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to set the interval of the macro. The adjustment range is 001–100 (times to repeat the macro effect).



- 06) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to set the mode of the device.



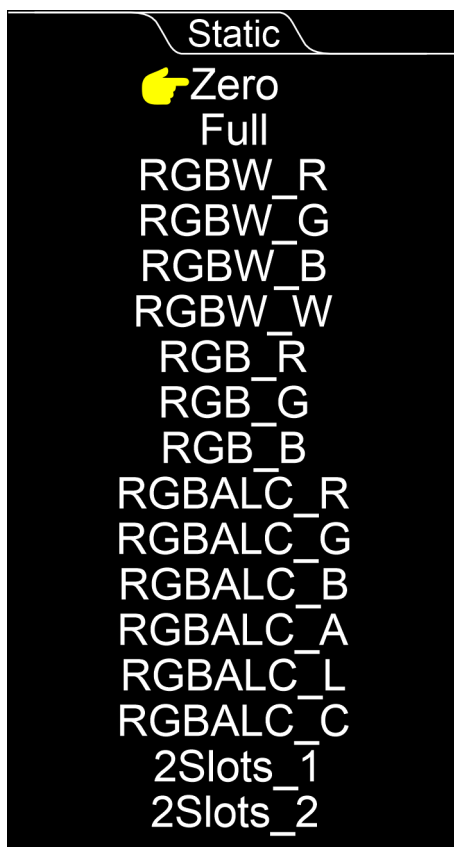
- Mode1: Activate a channel and then dim the channel
- Mode2: After running once, all channels will turn off

- 07) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

### 6.4.1.3.2. Static

In this submenu you can select a color as a static scene. The selected color will stay active as long as you are in the static menu.

01) Touch the LCD screen, press the **UP/DOWN** buttons or use the fader, to select one of the 17 available options:



- Zero: Blackout scene, all channel values are 000
- Full: Full on, all channel values are 255
- RGBW\_R: Red in RGBW mode, every 1<sup>st</sup> channel from a batch of 4 channels, has a value of 255
- RGBW\_G: Green in RGBW mode, every 2<sup>nd</sup> channel from a batch of 4 channels, has a value of 255
- RGBW\_B: Blue in RGBW mode, every 3<sup>rd</sup> channel from a batch of 4 channels, has a value of 255
- RGBW\_W: White in RGBW mode, every 4<sup>th</sup> channel from a batch of 4 channels, has a value of 255
- RGB\_R: Red in RGB mode, every 1<sup>st</sup> channel from a batch of 3 channels, has a value of 255
- RGB\_G: Green in RGB mode, every 2<sup>nd</sup> channel from a batch of 3 channels, has a value of 255
- RGB\_B: Blue in RGB mode, every 3<sup>rd</sup> channel from a batch of 3 channels, has a value of 255
- RGBALC\_R: Red in RGBALC mode, every 1<sup>st</sup> channel from a batch of 6 channels, has a value of 255
- RGBALC\_G: Green in RGBALC mode, every 2<sup>nd</sup> channel from a batch of 6 channels, has a value of 255
- RGBALC\_B: Blue in RGBALC mode, every 3<sup>rd</sup> channel from a batch of 6 channels, has a value of 255
- RGBALC\_A: Amber in RGBALC mode, every 4<sup>th</sup> channel from a batch of 6 channels, has a value of 255
- RGBALC\_L: Lime in RGBALC mode, every 5<sup>th</sup> channel from a batch of 6 channels, has a value of 255

- RGBALC\_C: Cyan in RGBALC mode, every 6<sup>th</sup> channel from a batch of 6 channels, has a value of 255
- 2Slots\_1: DMX range is divided in 2 slots and this is the 1<sup>st</sup> slot. Example: channel 1, 3, 5, 7, 9, etc.
- 2Slots\_2: DMX range is divided in 2 slots and this is the 2<sup>nd</sup> slot. Example: channel 2, 4, 6, 8, 10, etc.

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### 6.4.1.3.3. One By One

In this submenu you can select a color as a running loop (one by one) of the selected color groups. The color group size is determined by the total number of colors, so RGB= 3, RGBW= 4, RGBWALC= 6. The selected color will loop active as long as you are in the 'One By One' menu. This loop will repeat once it reaches DMX channel 512.

01) Touch the LCD screen, press the **UP/DOWN** buttons or use the fader, to select one of the 21 available options:



- RGBW\_Circle: All colors are played in a loop, one after another. First all red ones are played, then all green ones, etc. Device 1 lights up red, then device 2 lights up red, etc.
- RGBW\_All: All colors are active RGBW mode. All groups are played one after the other, so the first group, the second group, the third group etc. Device 1 lights up RGBW, device 2 lights up RGBW, etc.
- RGBW\_R: Red in RGBW mode, every 1<sup>st</sup> channel from a batch of 4 channels, has a value of 255
- RGBW\_G: Green in RGBW mode, every 2<sup>nd</sup> channel from a batch of 4 channels, has a value of 255

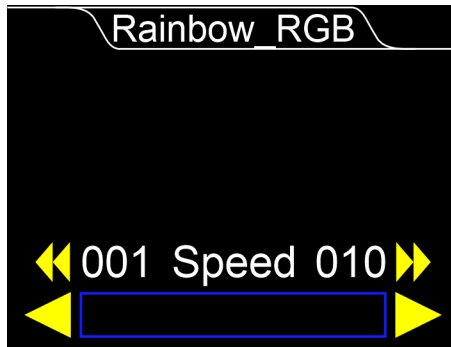
- RGBW\_B: Blue in RGBW mode, every 3<sup>rd</sup> channel from a batch of 4 channels, has a value of 255
- RGBW\_W: White in RGBW mode, every 4<sup>th</sup> channel from a batch of 4 channels, has a value of 255
- RGB\_Circle: All colors are played in a loop, one after another. First all red ones are played, then all green ones, etc.
- RGB\_All: All colors are active in RGB mode
- RGB\_R: Red in RGB mode, every 1<sup>st</sup> channel from a batch of 3 channels, has a value of 255
- RGB\_G: Green in RGB mode, every 2<sup>nd</sup> channel from a batch of 3 channels, has a value of 255
- RGB\_B: Blue in RGB mode, every 3<sup>rd</sup> channel from a batch of 3 channels, has a value of 255
- RGBALC\_Circle: All colors are played in a loop, one after another. First all red ones are played, then all green ones, etc.
- RGBALC\_All: All colors are active in RGBALC mode
- RGBALC\_R: Red in RGBALC mode, every 1<sup>st</sup> channel from a batch of 6 channels, has a value of 255
- RGBALC\_G: Green in RGBALC mode, every 2<sup>nd</sup> channel from a batch of 6 channels, has a value of 255
- RGBALC\_B: Blue in RGBALC mode, every 3<sup>rd</sup> channel from a batch of 6 channels, has a value of 255
- RGBALC\_A: Amber in RGBALC mode, every 4<sup>th</sup> channel from a batch of 6 channels, has a value of 255
- RGBALC\_L: Lime in RGBALC mode, every 5<sup>th</sup> channel from a batch of 6 channels, has a value of 255
- RGBALC\_C: Cyan in RGBALC mode, every 6<sup>th</sup> channel from a batch of 6 channels, has a value of 255
- 2Slots\_1: DMX range is divided in 2 slots and this is the 1<sup>st</sup> slot. Example: channel 1, 3, 5, 7, 9, etc.
- 2Slots\_2: DMX range is divided in 2 slots and this is the 2<sup>nd</sup> slot. Example: channel 2, 4, 6, 8, 10, etc.

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### 6.4.1.3.4. Rainbow RGB

In this submenu, the device will playback a RGB rainbow effect over all DMX channels. You can adjust the speed of the RGB rainbow effect.

Touch the LCD screen, press the **UP/DOWN** buttons or use the fader, to adjust the speed:

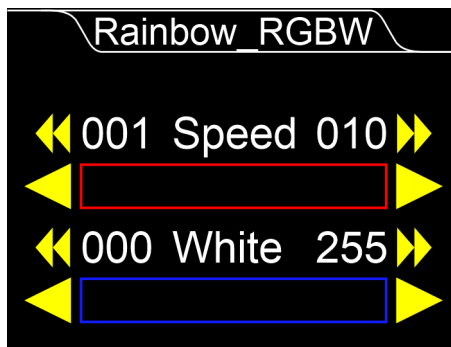


- Speed: The adjustment range is 001–010

#### 6.4.1.3.5. Rainbow RGBW

In this submenu, the device will playback a RGBW rainbow effect over all DMX channels. You can adjust the speed of the RGBW rainbow effect and adjust the white dimmer for the total output.

01) Touch the LCD screen, press the **UP/DOWN** buttons or use the fader, to adjust the speed or change the white dimmer output:

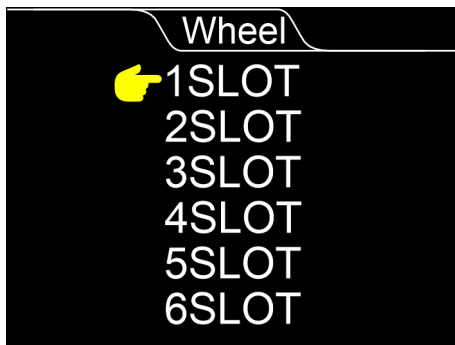


- Speed: The adjustment range is 001–010
  - White: The adjustment range is 000–255
- 02) Touch the LCD screen or press the **RIGHT** button, to switch between Speed and White.

### 6.4.1.3.6. Wheel

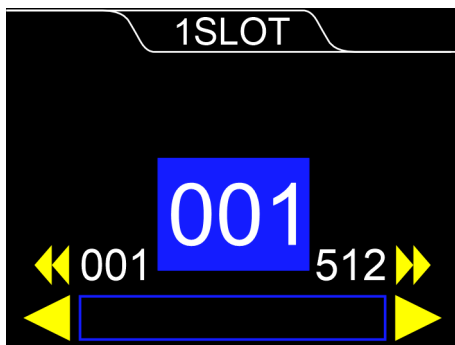
In this submenu you can set the channel value at a certain distance to the next channel, with a maximum of 512 channels. The distance interval is determined by the total number of slots.

01) Touch the LCD screen or press the **UP/DOWN** buttons, to select the desired slot:



- 1Slot: The DMX range has 1 active DMX channel at a time (value 255). Example: channel 1 or 2 or 3, etc.
- 2Slot: The DMX range has 2 active DMX channels at a time (value 255). Example: channel 1+2 or 3+4, etc.
- 3Slot: The DMX range has 3 active DMX channels at a time (value 255). Example: channel 1+2+3 or 4+5+6, etc.
- 4Slot: The DMX range has 4 active DMX channels at a time (value 255). Example: channel 1+2+3+4 or 5+6+7+8, etc.
- 5Slot: The DMX range has 5 active DMX channels at a time (value 255). Example: channel 1+2+3+4+5 or 6+7+8+9+10, etc.
- 6Slot: The DMX range has 6 active DMX channels at a time (value 255). Example: channel 1+2+3+4+5+6 or 7+8+9+10+11+12, etc.

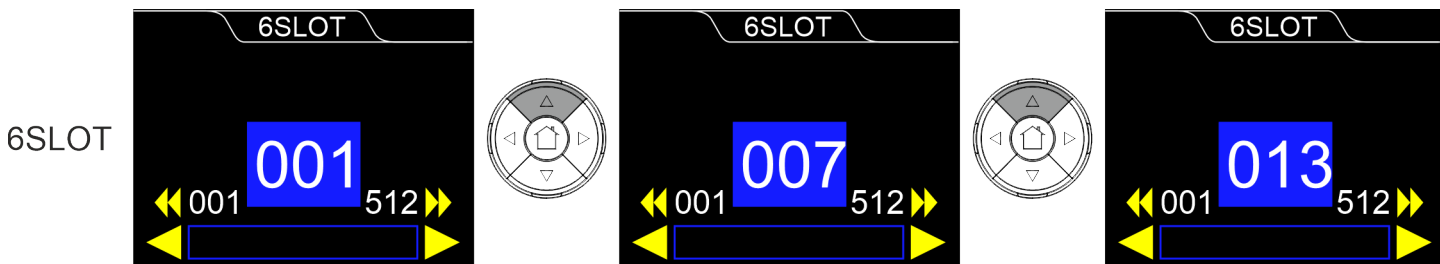
02) The display shows:



03) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to move the active channels according to the selected slot number.

**Note:**

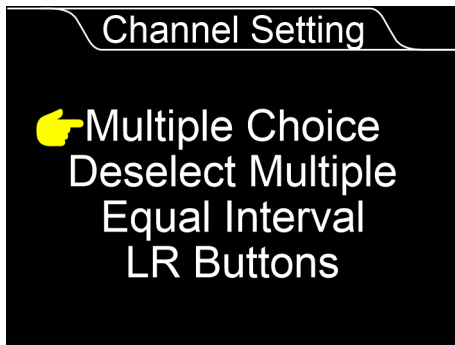
Example: Select 6Slot and every time you press the **UP** button, you increase the current DMX channel by 6. When the value is 001, a batch of 6 DMX channels is active.



### 6.4.1.4. Channel Setting

In this submenu you can control the behavior of the channel settings in the DMX console menu.

01) Touch the LCD screen to select the desired menu option or press the **UP/DOWN** buttons, to scroll through the 4 available options:

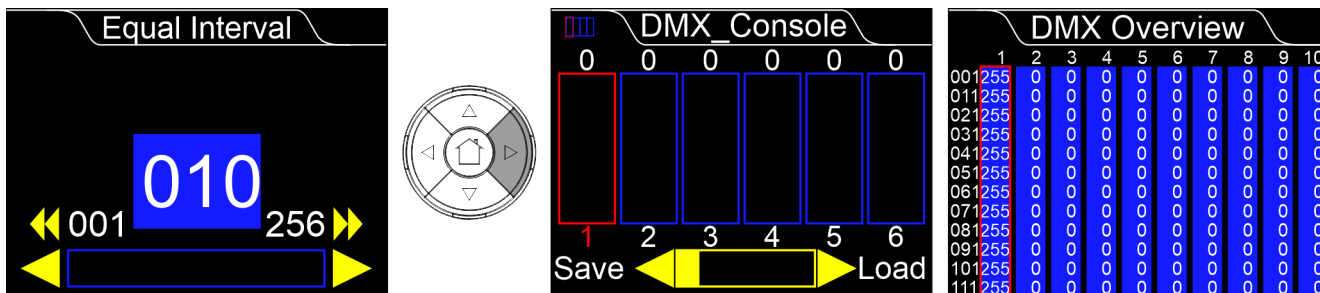


- Multiple Choice: Multiple channels can be selected at the same time
- Deselect Multiple: Only 1 channel can be selected at the same time
- Equal Interval: Set the distance for an equal interval of the selected channel
- LR Buttons (see [6.4.1.4.1. LR Buttons](#))

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

**Note:**

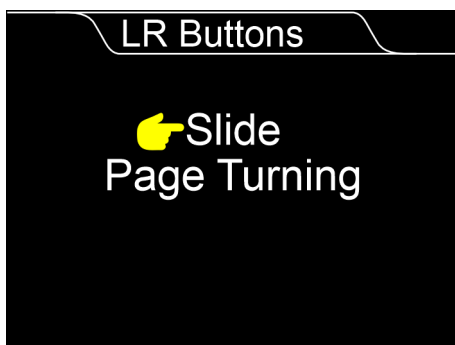
Example: Create an equal interval of 10. Then go to the DMX Console menu and select channel 1. If you touch the LCD screen, press the **UP/DOWN** buttons or use the fader, you control channel 1, 11, 21, 31, 41, etc. all together.



#### 6.4.1.4.1. LR Buttons

In this submenu you can set the behavior of the **LEFT/RIGHT** buttons and how the buttons react, when you are in the DMX console menu or the DMX tracer menu.

01) Touch the LCD screen to select the desired menu option or press the **UP/DOWN** buttons, to select one of the 2 available options:

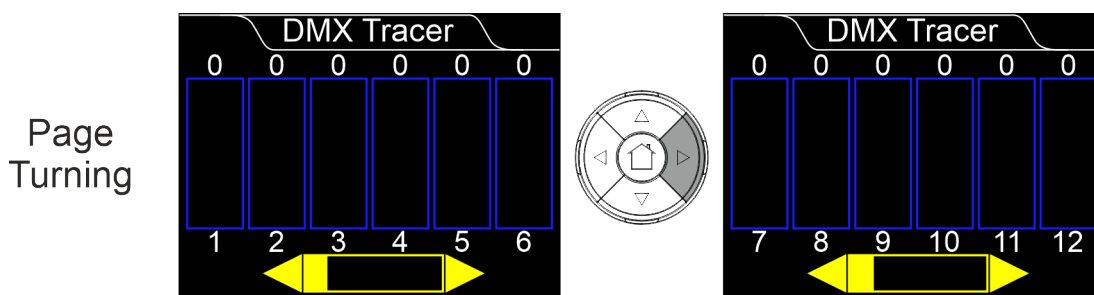


- Slide: Every time you press the **LEFT/RIGHT** button, the display will slide one single position to the left/right
- Page Turning: Every time you press the **LEFT/RIGHT** button, the display will slide 6 positions to the left/right

02) Touch the LCD screen or press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen, you automatically confirm.

#### Note:

Example: Select Page Turning in the LR Buttons submenu. Then go to the DMX Console menu or the DMX Tracer menu and select channel 1. If you press the **LEFT/RIGHT** button, the display will slide 6 positions to the left/right.



#### 6.4.2. DMX IN

In this menu you can view the received DMX values, depending on the selected menu option.

01) Touch the LCD screen to select the desired menu option or press the **UP/DOWN** buttons, to scroll through the 3 available options:



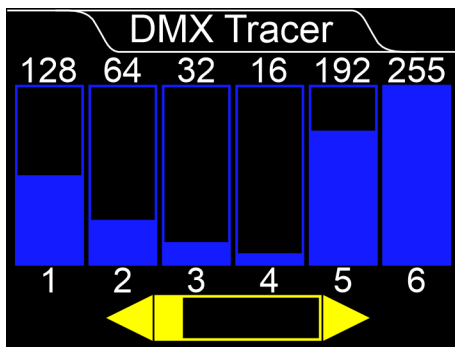
- DMX Tracer (see [6.4.2.1. DMX Tracer](#))
- DMX Overview (see [6.4.2.2. DMX Overview](#))
- DMX Timing Info (see [6.4.2.3. DMX Timing Info](#))

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen, you automatically confirm.

#### 6.4.2.1. DMX Tracer

In this submenu you can view the received 6 DMX channel slot values, that are selected with the **LEFT/RIGHT** buttons.

Press the **LEFT/RIGHT** buttons, slide your finger across the screen or use the fader, to scroll through the 512 DMX channels.



#### 6.4.2.2. DMX Overview

In this submenu you can view the received 120 DMX channel slot values, that are selected with the **UP/DOWN** buttons.

01) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to scroll through the 512 DMX channels.

The image shows a screen titled "DMX Overview" displaying a grid of 120 DMX channel slot values. The columns are labeled 1 through 10, and the rows are labeled 001 through 111. All values in the grid are 0.

	1	2	3	4	5	6	7	8	9	10
001	0	0	0	0	0	0	0	0	0	0
011	0	0	0	0	0	0	0	0	0	0
021	0	0	0	0	0	0	0	0	0	0
031	0	0	0	0	0	0	0	0	0	0
041	0	0	0	0	0	0	0	0	0	0
051	0	0	0	0	0	0	0	0	0	0
061	0	0	0	0	0	0	0	0	0	0
071	0	0	0	0	0	0	0	0	0	0
081	0	0	0	0	0	0	0	0	0	0
091	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0

02) Press **RIGHT** button. The display shows the hexadecimal values:

The image shows a screen titled "DMX Overview" displaying a grid of 120 DMX channel slot values in hexadecimal. The columns are labeled 1 through 10, and the rows are labeled 00x through 0Bx. All values in the grid are 00.

	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	10
00x	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
01x	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
02x	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
03x	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
04x	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
05x	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
06x	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
07x	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
08x	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
09x	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
0Ax	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
0Bx	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

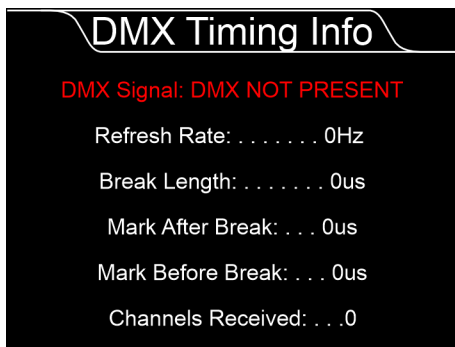
03) Press **RIGHT** button again to return to the previous decimal menu.

### 6.4.2.3. DMX Timing Info

In this submenu you can view the DMX timing info.



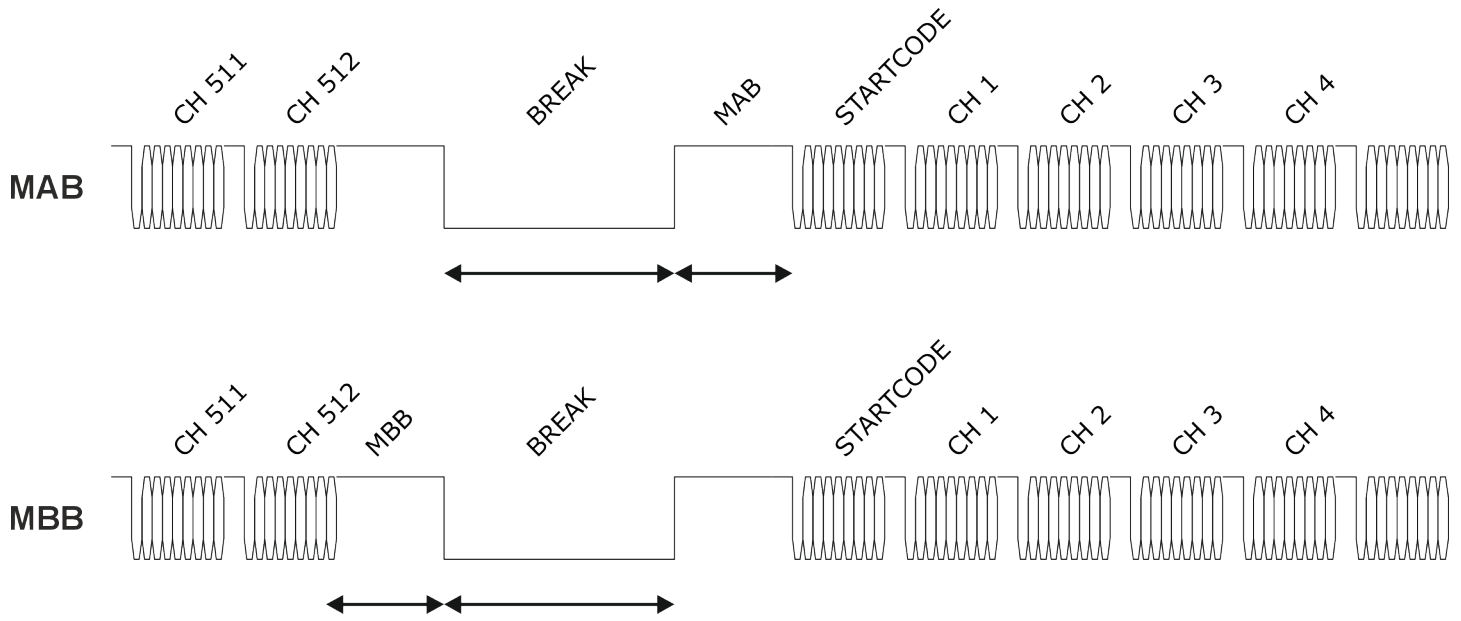
If you do not have the device connected to DMX, the display shows:



- DMX Signal: Shows whether the connected DMX signal is of high or low quality
- Refresh rate: Number of frames per second
- Break length: Length of the break in microseconds
- Mark after break (MAB): Mark after break in microseconds
- Mark before break (MBB): Mark before break in microseconds
- Channels received: Number of received channels

Refresh Rates	Compliance
<1 frame/sec	Not compliant with standard
1-10 frames/sec	Compliant, very slow and may cause problems with some equipment
10-25 frames/sec	Slow
25-44 frames/sec	Typical for most equipment
44 frames/sec	Maximum speed when sending all 512 channels
>44 frames/sec	Only possible when sending fewer than 512 channels. Compliant, but may cause problems with some equipment.

International Standards	Break Length	MAB Length
USITT DMX-512/1986	≥ 88 us	≥ 4 us
USITT DMX-512/1990	≥ 88 us	≥ 8 us
ANSI E1.11-2004	≥ 92 us	≥ 12 us



**Note:**

Please refer to ANSI E1.11 for more information on DMX-512 timings. The accuracy of the device is within 1,5 microseconds.

### 6.4.3. RDM

In this menu you can view the RDM settings.

Example:

If a device without RDM is connected to the device, the display shows:



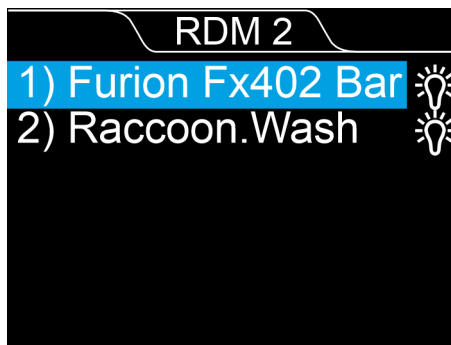
If a device with RDM is connected to the device, the display shows:



01) Touch the LCD screen to select the desired device or press the **UP/DOWN** buttons, to scroll through the list of available RDM devices:



02) Press the **RIGHT** button to confirm the selection. If you've touched the desired device on the LCD screen, you automatically confirm. The display shows:



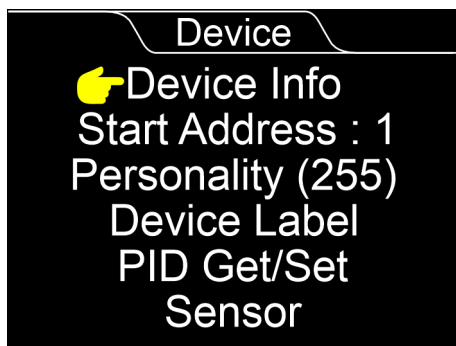
**Note:**

When you have a long list of the same RDM devices on your display, you can press the bulb icon on the display to identify the specific device. The display shows:

**6.4.3.1. Device**

In this submenu you can view all RDM settings or change some RDM settings.

01) Press the **UP/DOWN** buttons, touch the screen with your finger or use the fader, to scroll through the 6 available options:



- Device Info (see [6.4.3.1.1. Device Info](#))
- Start Address : x (see [6.4.3.1.2. Start Address : x](#))
- Personality (xxx) (see [6.4.3.1.3. Personality \(xxx\)](#))
- Device Label (see [6.4.3.1.4. Device Label](#))
- PID Get/Set (see [6.4.3.1.5. PID Get/Set](#))
- Sensor (see [6.4.3.1.6. Sensor](#))

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

### 6.4.3.1.1. Device Info

In this submenu you view the device info of the connected RDM device(s).

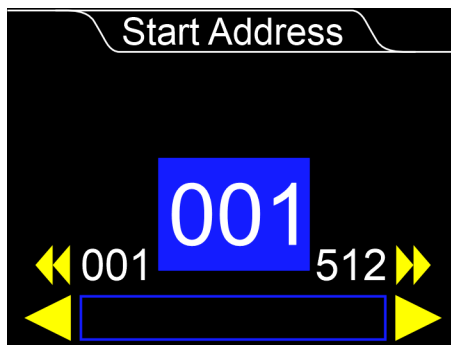


- Name of the RDM device
- Brand of the RDM device
- DMX address of the RDM device
- Personality of the RDM device
- UID number of the RDM device
- Software version of the RDM device

### 6.4.3.1.2. Start Address : x

In this submenu you can change the start address of the connected RDM device(s).

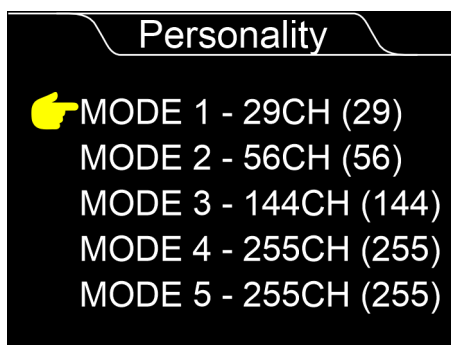
Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to set the DMX start address of the connected RDM device(s). The adjustment range is 001–512.



### 6.4.3.1.3. Personality (xxx)

In this submenu you can change the personality of the connected RDM device(s).

01) Touch the LCD screen or press the **UP/DOWN** buttons, to select the personality of the connected RDM device(s). The adjustment range depends on the connected device(s).

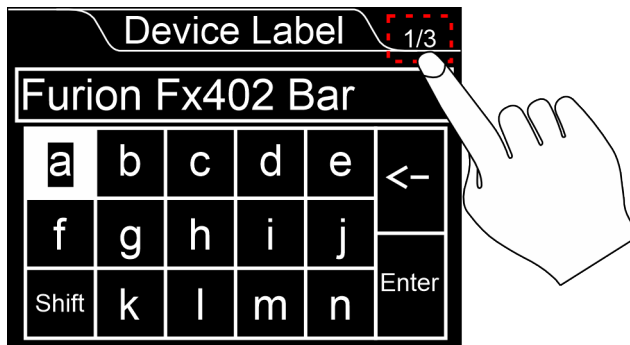


02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

6.4.3.1.4. Device Label

In this submenu you can change the device label of the connected RDM device(s).

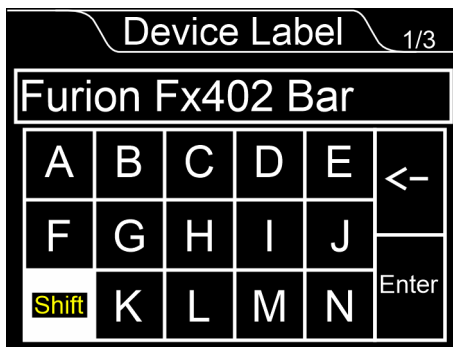
01) Touch the top right hand corner to change the screen (1–3) to view the rest of the letters, numbers or characters.



02) Touch the LCD screen or press the **UP/DOWN** buttons to scroll through all the available letters, numbers or characters:

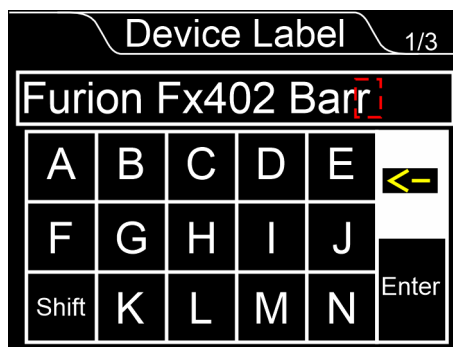


03) Touch the Shift button on the LCD screen. The shift button lights up yellow and all alphabet letters change to capitals, the display shows:



04) Touch the Backspace button on the LCD screen, to delete a faulty text character, the display shows:

Figure 8



05) When you've completed the label, touch the Enter button on the LCD screen or scroll to the Enter button and press the **RIGHT** button to confirm the selection.

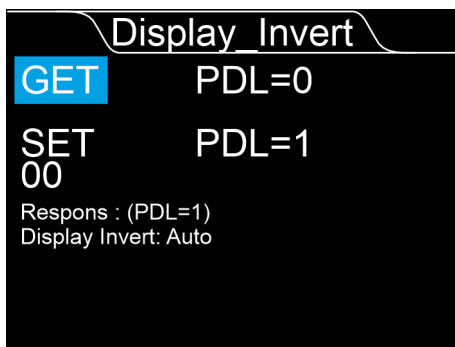
### 6.4.3.1.5. PID Get/Set

In this submenu you can view the PID's (Parameter IDs) of the connected RDM device(s). The RDM Parameter IDs vary from device to device.

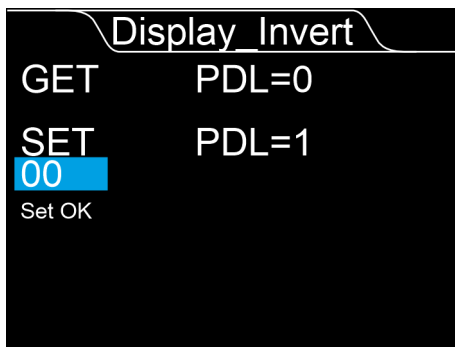
Below is an example of some of the PID options the 41470-FX402 Bar has:



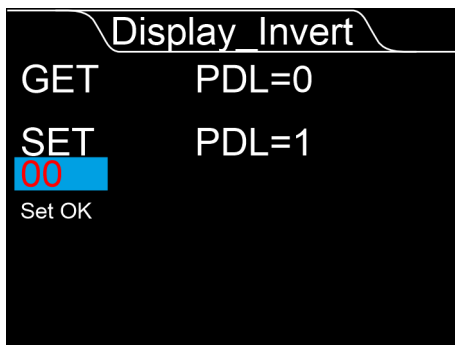
- 01) Touch the LCD screen, press the **UP/DOWN** buttons or use the fader, to scroll through the available PID options.
- 02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen, you automatically confirm. There are options with a GET and/or a SET command. In this example, the Display Invert option has a GET and a SET command.



- 03) Press the **UP/DOWN** buttons to go to 00, the display shows:

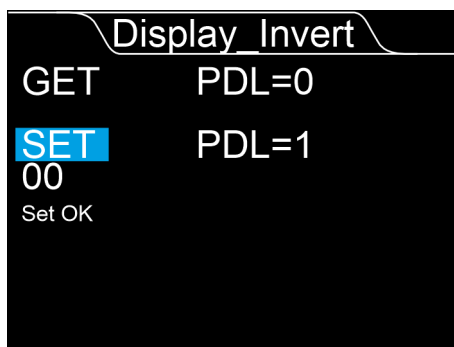


- 04) Touch the Enter button on the LCD screen or press the **RIGHT** button to change the numbers. To invert the display, the number is 1 (PDL=1). The display shows:



- 05) Press the **UP/DOWN** buttons to change 00 into 01.

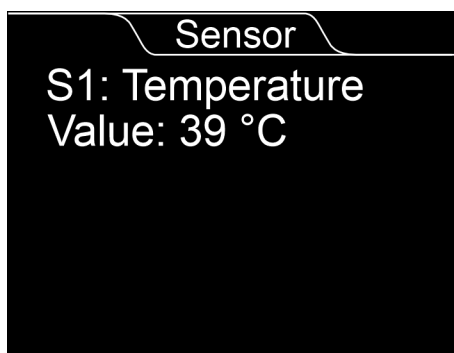
- 06) Touch the SET button on the LCD screen or use the **UP/DOWN** buttons to go to SET (blue rectangle).  
07) Press the **RIGHT** button to send the SET command over RDM to the connected fixture. The display shows:



#### 6.4.3.1.6. Sensor

In this submenu you view the info about the available sensor(s) of the connected RDM device(s).

Below is an example of the sensor info for the 41470-FX402 Bar:



#### Note:

Depending on the device, the sensor info may contain the sensor temperature, the fan speed, etc.

#### 6.4.4. Recorded

In this menu you can record or play a recorded program.

01) Touch the LCD screen or press the **UP/DOWN** buttons, to select one of the 2 available options:



- Record Program (see [6.4.4.1. Record Program](#))
- Play Program (see [6.4.4.2. Play Program](#))

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen, you automatically confirm.

##### 6.4.4.1. Record Program

In this submenu you can record a program.

01) Touch the LCD screen or press the **UP/DOWN** buttons, to select one of 2 available options:



- Start: Start recording a program
- Stop: Stop recording a program

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen, you automatically confirm. The selected option is shown in red on the display:



#### Note:

Every time you press the **UP/DOWN** buttons and go back from stop to start, it will create a new program (x+1.bin).

### 6.4.4.2. Play Program

In this submenu you can play a single program or play all programs.

01) Touch the LCD screen or press the **UP/DOWN** buttons, to select one of the 2 available options:



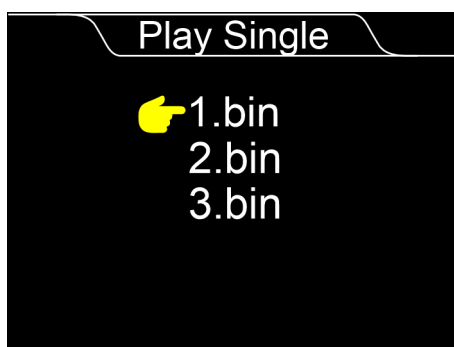
- Play Single (see [6.4.4.2.1. Play Single](#))
- Play All (see [6.4.4.2.2. Play All](#))

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen, you automatically confirm.

#### 6.4.4.2.1. Play Single

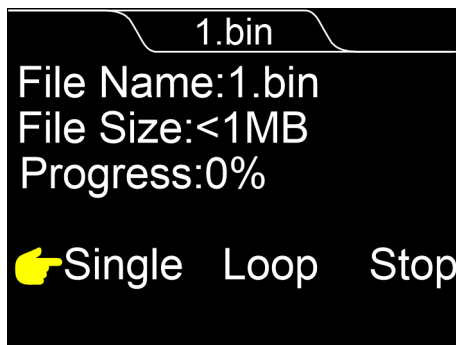
In this submenu you can play a single program.

01) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to scroll through the available recorded programs:



- 1.bin
- 2.bin
- etc

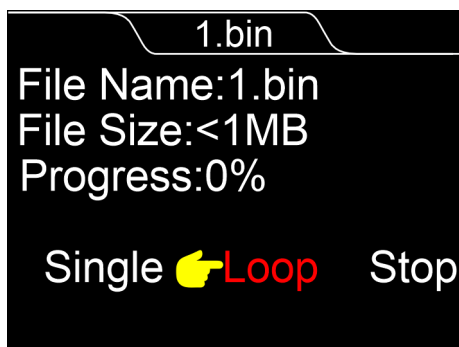
02) Press the **RIGHT** button to confirm the recorded program. If you've selected the option on the LCD screen, you automatically confirm. The display shows the 3 available options:



- Single: Play the selected program once
- Loop: Play the selected program continuously in a loop
- Stop: Stop playing the selected program

03) Touch the LCD screen to select the desired menu option or press the **UP/DOWN** buttons, to scroll through the 3 available options.

- 04) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm. The selected option will turn red on the display:



#### 6.4.4.2.2. Play All

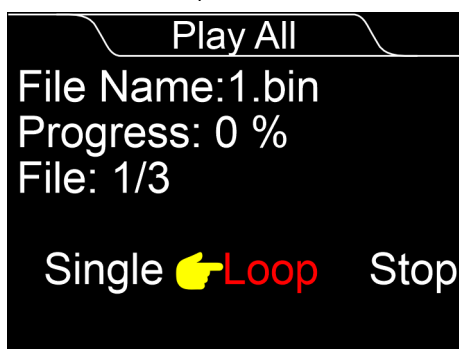
In this submenu you can play all programs.

- 01) Touch the LCD screen or press the **UP/DOWN** buttons, to scroll through the 3 available options:



- Single: Play all recorded programs once, one after the other
- Loop: Play all recorded programs continuously in a loop, one after the other
- Stop: Stop playing the recorded programs

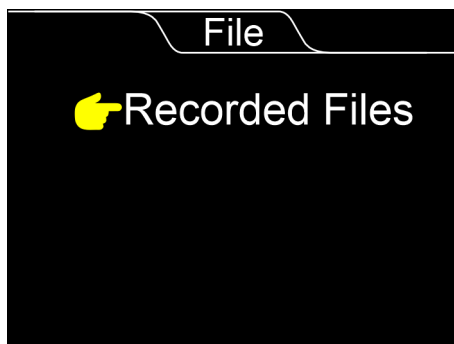
- 02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm. The selected option will turn red on the display:



### 6.4.4.3. File

In this menu you can view the recorded files on the micro SD card.

01) Touch the LCD screen, to select:



- Recorded Files (see [6.4.4.3.1. Recorded Files](#))

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### 6.4.4.3.1. Recorded Files

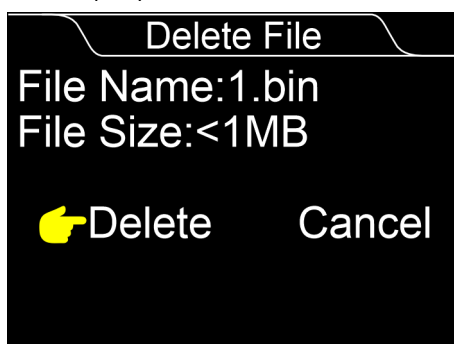
In this submenu you can view the recorded files on the micro SD card.

01) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to scroll through the available files:



- 1.bin
- 2.bin
- etc

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm. The display shows the file name, file size and 2 available options:



- Delete: Delete the recorded file
- Cancel: Go to the previous menu

03) Touch the LCD screen or press the **UP/DOWN** buttons, to select one of 2 available options.

04) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### 6.4.4.4. ArtNet

In this menu you can view the ArtNet RDM devices, that are discovered on the network.

01) Press the **UP/DOWN** buttons or touch the screen with your finger, to select the available option:



- Device

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm. The display shows the IP address(es) of the available RDM device(s):



03) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### Note:

You can change the ArtNet IP address from the Assistant in the Settings Menu (see [6.4.4.7. Settings](#) on page 51).

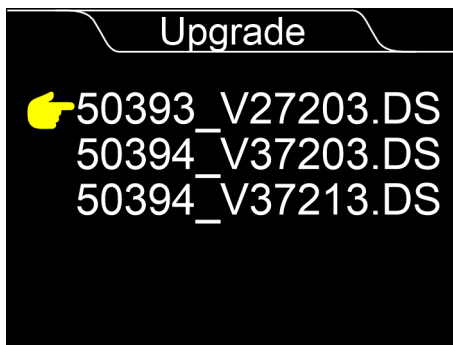
You cannot change the ArtNet IP address of the connected RDM devices.

You cannot record/play a show in ArtNet mode.

#### 6.4.4.5. Upgrade

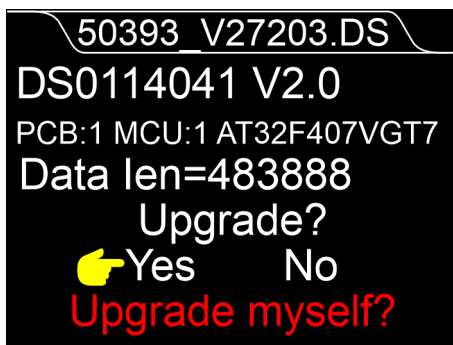
In this menu you can upgrade the device or certain connected products, that are upgradeable with DS firmware files.

01) Press the **UP/DOWN** buttons or touch the screen with your finger, to select the available upgrade options:



- 50393\_V27203.DS
- 50394\_V37203.DS
- 50394\_V37213.DS

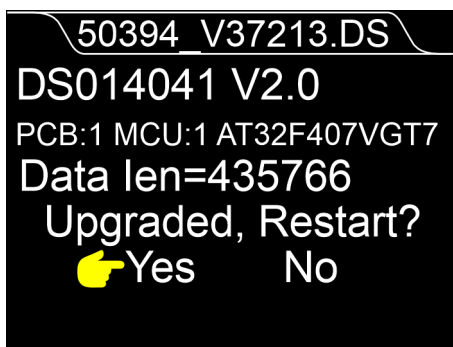
02) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to select one of the 3 available options:



- Yes: Upgrade the connected RDM devices with a possibility to reset them all, after upgrading
- No: No upgrade, return to the previous menu
- Upgrade Myself?: Upgrade the Assistant. After upgrading the Assistant automatically restarts

03) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

04) If you've selected yes, the connected RDM device will start upgrading. After the upgrade, the display shows:



- Yes: Upgrade and restart the connected RDM device
- No: Do not restart the connected RDM device after the upgrade

05) Press the **UP/DOWN** buttons or touch the screen with your finger, to select Yes or No.

06) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

07) If you've selected Upgrade myself, the Assistant device will automatically restart the device.

**Note:**

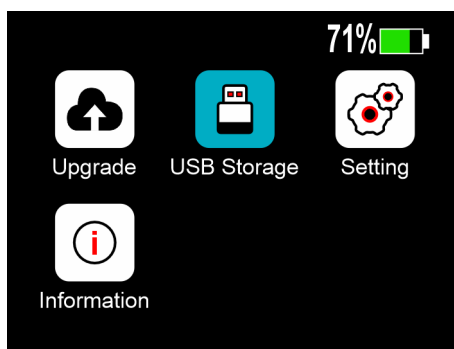
When updating via the "Upgrade Myself" option, make sure that the device is connected to the mains with the AC/DC adapter and the USB-A to USB-C cable.

Do not remove the mains power during the updating process, otherwise the software will become corrupt and the device will not start up anymore.

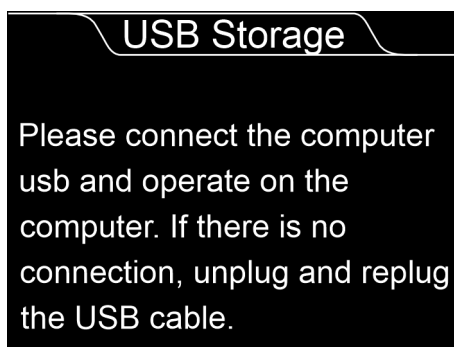
**6.4.4.6. USB Storage**

In this menu you can access the micro SD card in your assistant device via the USB connection on your computer.

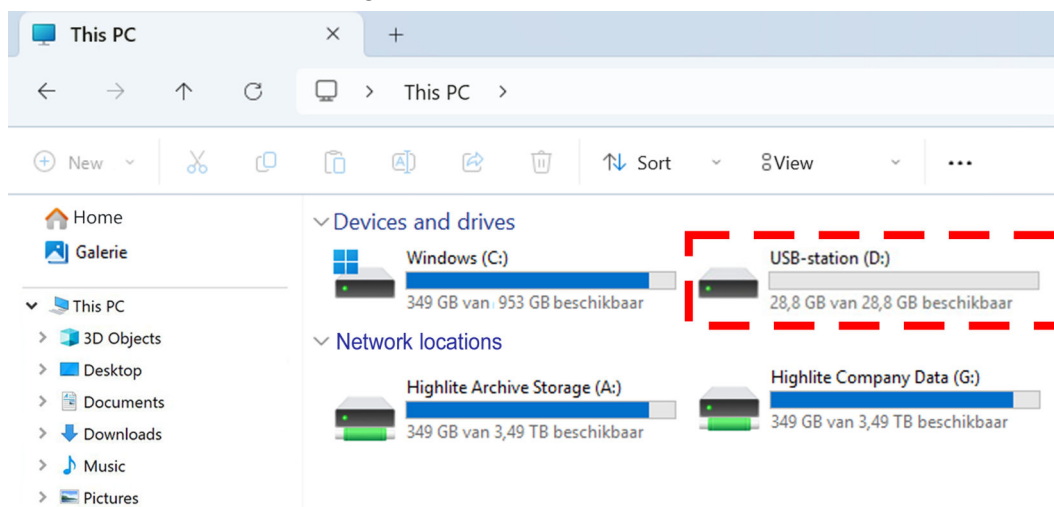
- 01) Turn on the device by setting the **battery power switch (09)** to ON.
- 02) Touch the LCD screen, press the **UP/DOWN** buttons or use the fader, to go to the USB storage menu. The display shows:



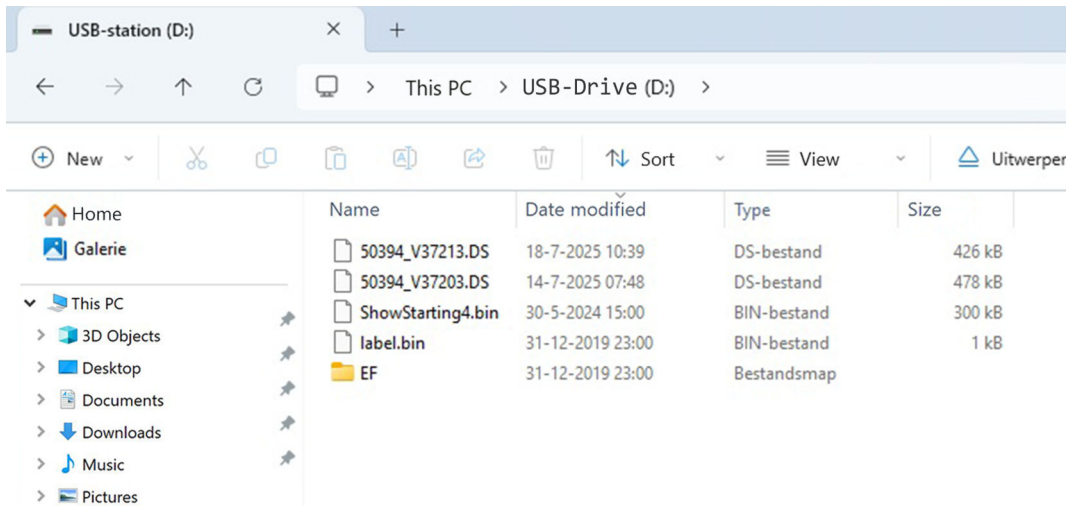
- 03) Press the **HOME/ENTER** button or touch the LCD screen, to enter the USB storage menu. The display shows:



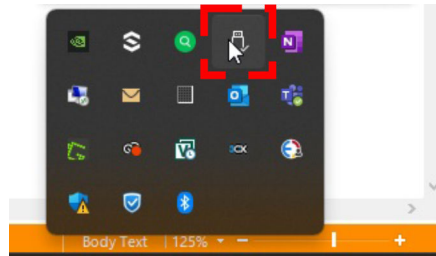
- 04) Connect the USB-A to USB-C data cable to the device. Use only the data cable included with the device.
- 05) Connect the other end of the data cable to your computer.
- 06) In your Windows Explorer the USB storage will now appear as an external drive. The display shows:



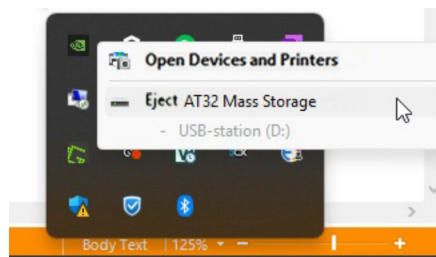
07) You can open/copy, delete files, backup your show files or settings to the micro SD card via the Windows Explorer of your PC. The display shows:



08) If you have completed all tasks, remove the USB storage via the bottom right corner on your Windows Explorer. The display shows:



09) Click on Eject Mass Storage. The display shows:

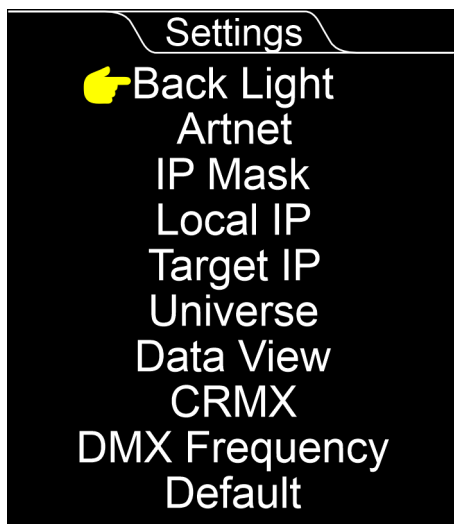


10) Disconnect the data cable from your computer and from the Assistant.

### 6.4.4.7. Settings

In this menu you can adjust all the settings of the device.

01) Press the **UP/DOWN** buttons or touch the screen with your finger, to select one of the 9 available options:



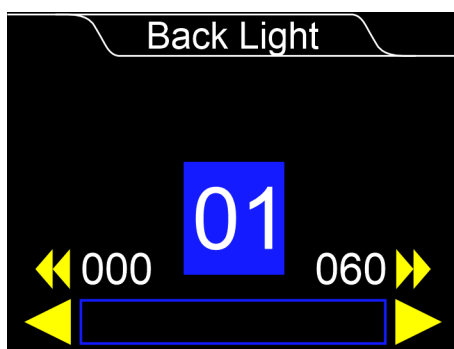
- Back Light (see [6.4.4.7.1. Back Light](#))
- ArtNet (see [6.4.4.7.2. ArtNet Settings](#))
- IP Mask (see [6.4.4.7.3. IP Mask](#))
- Local IP (see [6.4.4.7.4. Local IP](#))
- Target IP (see [6.4.4.7.5. Target IP](#))
- Universe (see [6.4.4.7.6. Universe](#))
- Data View (see [6.4.4.7.7. Data View](#))
- DMX Frequency (see [6.4.4.7.8. DMX Frequency](#))
- Default (see [6.4.4.7.9. Default](#))

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### 6.4.4.7.1. Back Light

In this submenu you can select the desired display backlight activity time, when no action is detected. The display backlight turns off, once the selected time has passed.

Press the **UP/DOWN** buttons, slide your finger across the LCD screen or use the fader, to increase/decrease the value for the back light. The display shows:



- 000: Disable back light off, the back light does not dim
- 001–060: Back light dims after 001–060 minutes of inactivity

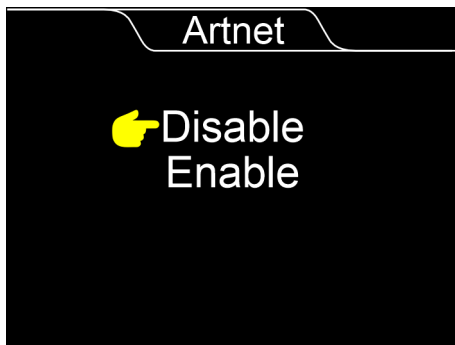
#### Note:

Even if the display backlight is off, the show keeps playing.

### 6.4.4.7.2. ArtNet Settings

In this submenu you can enable or disable the ArtNet function for the Assistant's network port.

01) Touch the LCD screen to select the desired menu option or press the **UP/DOWN** buttons, to select one of 2 available options:



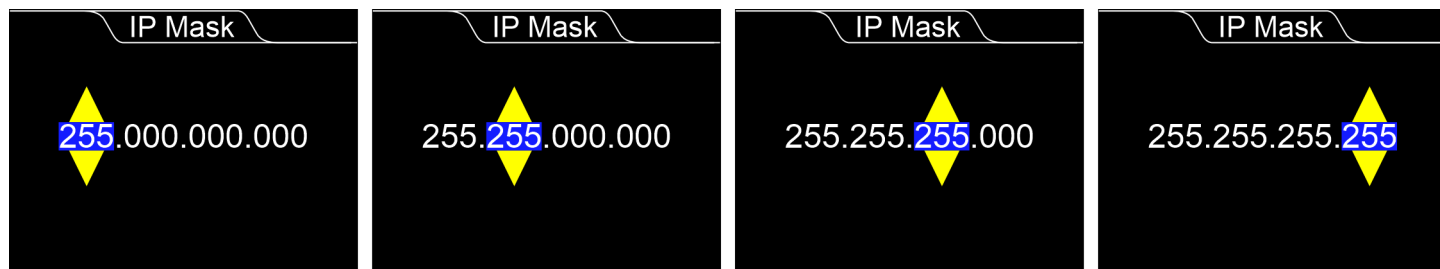
- Disable: Disable ArtNet
- Enable: Enable ArtNet

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

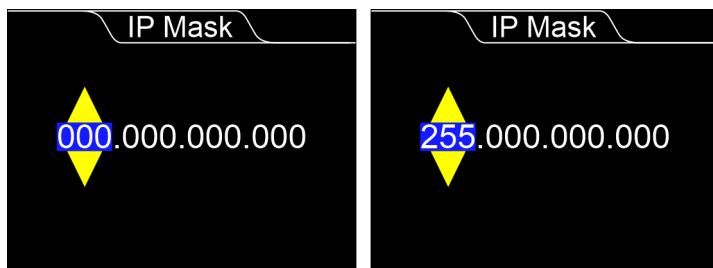
### 6.4.4.7.3. IP Mask

In this submenu you can set the IP subnet mask.

01) Touch the LCD screen or press the **LEFT/RIGHT** buttons, to select one of 4 available IP ranges (depending on the position of the yellow triangles):



02) Touch the yellow upper or lower triangles on the LCD screen or press the **UP/DOWN** buttons, to select one of 2 available options:



- 000
- 255

03) Press the **RIGHT** button to go to the next range.

04) If you have completed the entire IP subnet mask, press the **RIGHT** button to confirm the selection and go to back to the settings submenu.

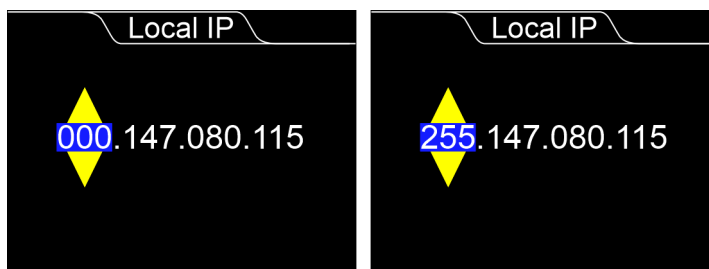
#### 6.4.4.7.4. Local IP

In this submenu you can set the local static IP for the Assistant's network port.

01) Touch the LCD screen or press the **LEFT/RIGHT** buttons, to select one of 4 available IP ranges:



02) Touch the yellow upper or lower triangles on the LCD screen or press the **UP/DOWN** buttons, to change the IP range:



- Local IP: The adjustment range is 000–255

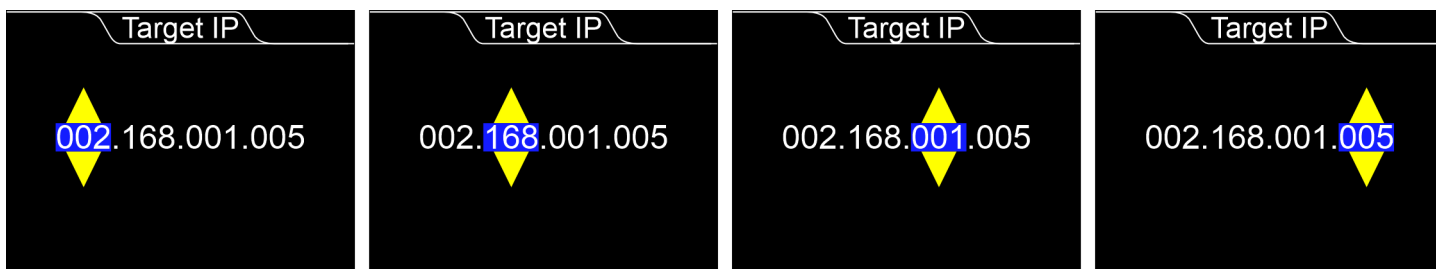
03) Press the **RIGHT** button to go to the next range.

04) If you have completed the entire Local IP address, press the **RIGHT** button to confirm the selection and go to back to the settings submenu.

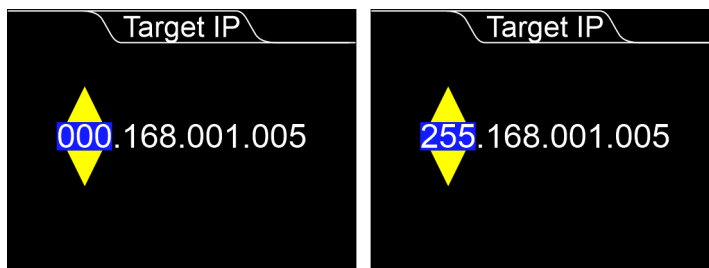
#### 6.4.4.7.5. Target IP

In this submenu you can select the universe for ArtNet.

01) Touch the LCD screen or press the **LEFT/RIGHT** buttons, to select one of 4 available IP ranges:



02) Touch the yellow upper or lower triangles on the LCD screen or press the **UP/DOWN** buttons, to change the IP range:



- Target IP: The adjustment range is 000–255

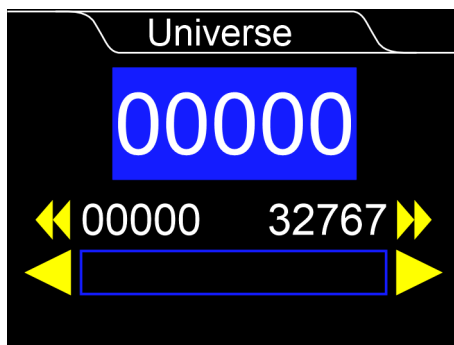
03) Press the **RIGHT** button to go to the next range.

04) If you have completed the entire Local IP address, press the **RIGHT** button to confirm the selection and go to back to the settings submenu.

#### 6.4.4.7.6. Universe

In this submenu you can set the universe.

- 01) Press the **UP/DOWN** buttons, slide your finger across the LCD screen or use the fader, to set the universe. The display shows:

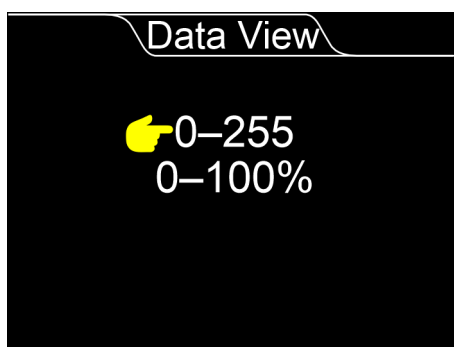


- 02) Press the **UP/DOWN** buttons, slide your finger across the LCD screen or use the fader, to increase/decrease the value for the universe. The adjustment range is 00000–32767.  
 03) Press the **RIGHT** button to confirm the selection.

#### 6.4.4.7.7. Data View

In this submenu you can view the data in a decimal or a percentage range.

- 01) Touch the LCD screen or press the **UP/DOWN** buttons, to scroll select one of the 2 available options:

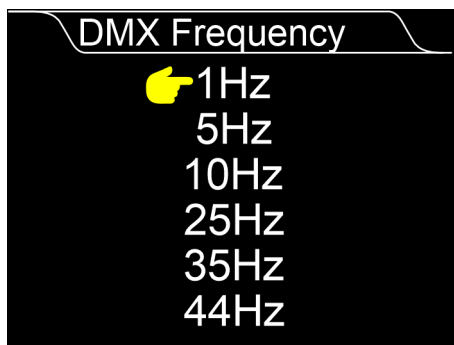


- 0–255: View all values in a decimal way
  - 0–100%: View all values in a percentage way
- 02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### 6.4.4.7.8. DMX Frequency

In this submenu you can set the DMX transmitting frequency for the device, when the DMX Console menu is selected.

01) Touch the LCD screen or press the **UP/DOWN** buttons, to select one of the 6 available options:



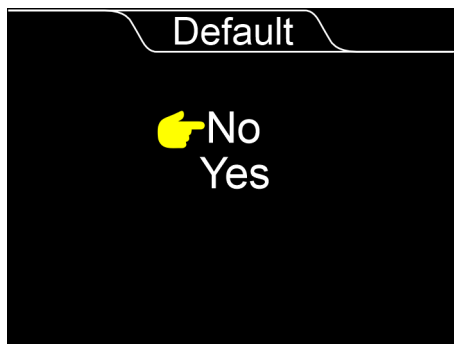
- 1 Hz
- 5 Hz
- 10 Hz
- 25 Hz
- 35 Hz
- 44 Hz

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### 6.4.4.7.9. Default

In this submenu you can reset the device to its default settings.

01) Touch the LCD screen or press the **UP/DOWN** buttons, to select one of 2 available options:



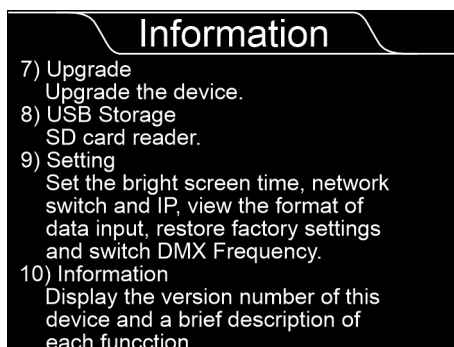
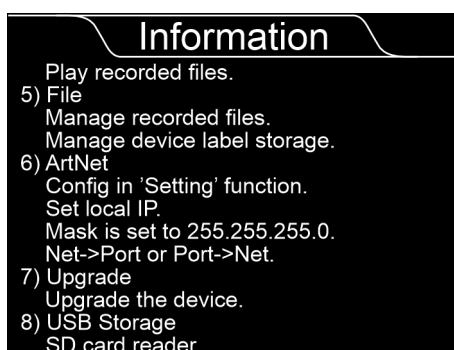
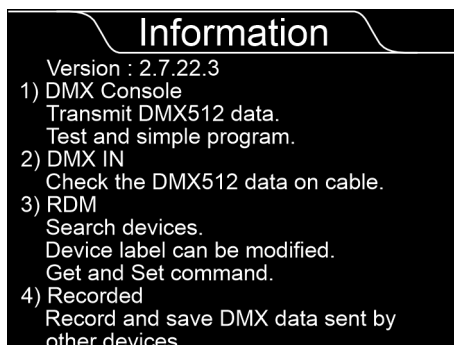
- No: Do not restore the factory default settings. Go to the previous menu
- Yes: Restore the factory default settings

02) Press the **RIGHT** button to confirm the selection. If you've selected the option on the LCD screen with your finger, you automatically confirm.

#### 6.4.4.8. Information

In this submenu you can view the current software version of the device and more information about all main menus.

01) Press the **UP/DOWN** buttons, slide your finger across the screen or use the fader, to scroll through the information:



02) Check the Highlite International website for the latest software version of the device.

03) Copy the downloaded file from the website onto the micro SD card. For more information about the upgrade process (see [6.4.4.5. Upgrade](#) on page 48).

04) Put the micro SD card in the Assistant.

#### Note:

For more information about the upgrade process (see [6.4.4.5. Upgrade](#) on page 48).

## 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 turn on	The battery is depleted	<ul style="list-style-type: none"> <li>Recharge the battery (see <a href="#">4.2. Charging the Battery</a> on page 11)</li> </ul>
The device does not function	No power to the device	<ul style="list-style-type: none"> <li>Check if power is switched on</li> <li>Check if the USB cable is correctly connected</li> <li>Replace the USB cable</li> </ul>
	The device is not correctly connected	<ul style="list-style-type: none"> <li>Check if the cables are correctly connected</li> <li>Replace the cables</li> </ul>
The device responds erratically	The factory settings of the device are changed	<ul style="list-style-type: none"> <li>Reset the parameters of the device to the default factory settings (see <a href="#">6.4.4.7.9. Default</a> on page 55)</li> </ul>
No DMX data transfer	Bad data link connection	<ul style="list-style-type: none"> <li>Examine connections and cables. Correct poor connections. Repair or replace damaged cables</li> </ul>
	The signal is reversed. The 5-pin DMX OUT of the controller does not match the DMX IN of the device	<ul style="list-style-type: none"> <li>Install a phase-reversing cable between the controller and the device</li> </ul>
No upgrade via micro SD card	The micro SD card is not put into the slot completely	<ul style="list-style-type: none"> <li>Remove the card and gently push it into the slot, until you hear a small clicking-sound</li> </ul>
	The micro SD card is not formatted	<ul style="list-style-type: none"> <li>Format the micro SD card</li> </ul>
	The micro SD card is corrupt	<ul style="list-style-type: none"> <li>Try another micro SD card</li> </ul>

## 8. Maintenance

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### 8.1. Preventive Maintenance

**Attention**

Before use, examine the device visually for any defects.

Make sure that:

- The housing is not damaged.
- The power cable is not damaged and does not show any material fatigue.
- The terminals of the battery do not show signs of corrosion.
- The battery is not leaking.
- The casing of the battery is not damaged.

#### 8.1.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

- 01) Disconnect the device from the electrical power supply.
- 02) Clean the device with a soft, lint-free cloth.

**Attention**

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.
- Make sure that the connections are fully dry before connecting the device to the power supply and to other devices.

## 9. Deinstallation, Transportation and Storage

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### 9.1. Instructions for Deinstallation

**WARNING**

Incorrect deinstallation can cause serious injuries and damage of property.

- Disconnect power supply before deinstallation.
- Always observe the national and site-specific regulations during deinstallation and derigging of the device.
- Wear personal protective equipment in compliance with the national and site-specific regulations.

### 9.2. Instructions for Transportation

- Use the original packaging to transport the device, if possible.
- Always observe the handling instructions printed on the outer carton box, for example: "Handle with care", "This side up", "Fragile".

### 9.3. Storage

- Clean the device before storing. (see [8.1.1. Basic Cleaning Instructions](#) on page 58)
- Store the device in the original packaging, if possible.
- Remove the batteries before storing.

## 10. Disposal

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### 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

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







