Show tec ®

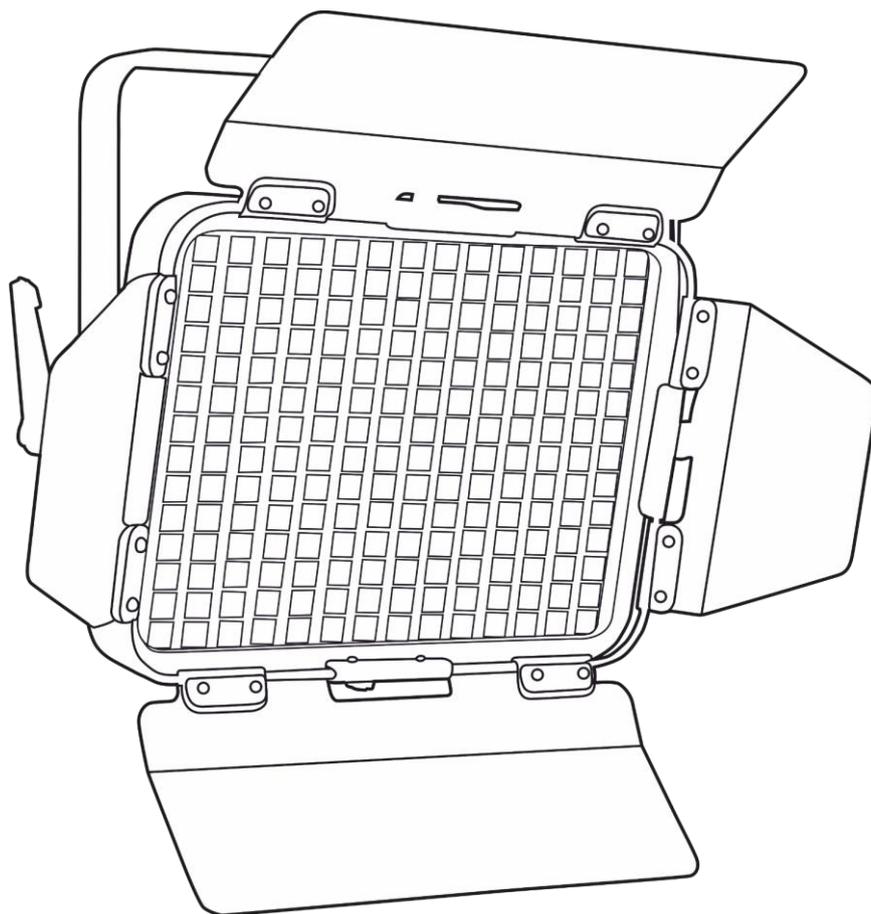**ENGLISH**

Media Panel 100 CCT V1

Product code: 33303

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.

Table of contents

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 Media Panel 100 CCT
- Schuko to IEC power cable (1,5 m)
- Four-blade barndoor
- Spigot adapter
- Power adapter
- User manual
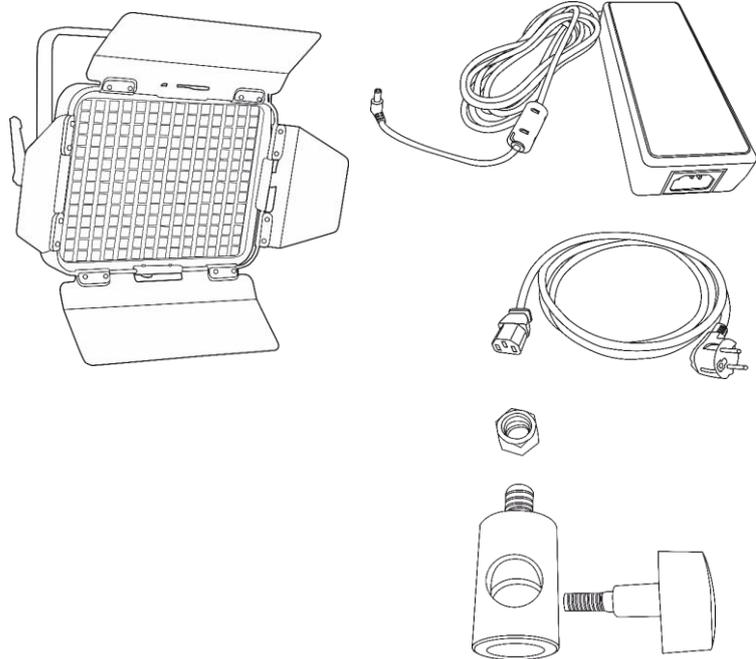
Fig. 01

1.2.   Intended Use

This device is intended for professional use as an indoor spot. It is suitable only for indoor installation. This device is not suitable for households and for general lighting.

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 device's lifespan.

1.4.   LEDs Lifespan

The light output of the LEDs gradually decreases over time (lumen depreciation). High operating temperatures contribute to this process. You can extend the lifespan of the LEDs by providing adequate ventilation and operating the LEDs at the lowest possible brightness.

1.5. 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 chapters and parts of the device are in bold lettering, for example: "Refer to **2. Safety**", "turn the **adjustment screw (02)**"
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.6. 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.
⚡	**Electrical hazard**	
🗑️		Provides important information about the disposal of this product.

1.7.   Symbols on the Information Label

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

The information label contains the following symbols:

	This device shall not be treated as household waste.
	This device falls under IEC protection class II.
	Replace any cracked protective shield.
	Minimum distance from lighted objects.
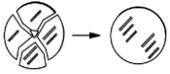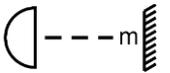
2. Safety

> **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 various parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within children's reach. Packaging material is a potential source of danger for children.

> **DANGER**
> **Electric shock caused by short-circuit**

This device falls under IEC protection class II.

● Make sure that the device is electrically connected to ground (earth). Connect the device only to a socket-outlet with ground (earth) connection.
● Do not cover the ground (earth) connection.
● Do not bypass the thermostatic switch or fuses.
● For replacement use fuses of the same type and rating only.
● Do not let the power cable come into contact with other cables. Handle the power cable and all connections with the mains with caution.
● Do not modify, bend, mechanically strain, put pressure on, pull or heat up the power cable.
● Make sure that the power cable is not crimped or damaged. Examine the power cable periodically for any defects.
● Do not immerse the device in water or other liquids. Do not install the device in a location where flooding may occur.
● Do not use the device during thunderstorms. Disconnect the device from the electrical power supply immediately.

> **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.

> **Attention**
> **General safety**

- Do not connect the device to a dimmer pack.
- Do not switch the device on and off in short intervals. This decreases the device's life.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Change the lens or the LEDs if they are visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches. Contact your Highlite International dealer for more information, as servicing can be performed only by instructed or skilled persons.
- 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 the use immediately.

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

This device is designed to be used as an indoor spot. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not suitable for households and for general lighting.
- This device is not designed for permanent operation.
- This device contains a non-user-replaceable light source.
- 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:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- The safety devices are not damaged.
- There are no deformations on housings, fixations and installation points.
- The lens is not cracked or damaged.
- 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 by ordinary persons. Installation and service shall be carried out only by instructed or skilled persons. Contact your Highlite 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 to 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 Media Panel 100 CCT is a bright 100 watt warm to daylight white video LED panel with a high 96 CRI and a beam angle of 120°, suitable for various studio and video applications. The stable and highly accurate colour temperature of 3000 K to 5600 K with a maximum output of 6650 lumen is ideally suited for bloggers, streamers and webinar presenters.

The large rotary knob on the back of this fixture is the dimmer function that can be seamlessly adjusted from 0 to 100 percent. The LED display shows the brightness. In addition to manual control, the Media Panel 100 CCT DMX is controllable via a 5-pin XL cable.

This fixture comes with a sturdy bracket with adjustable clamping handles for a quick mobile, a four-bladed barndoor, spigot adapter and power adapter. An optionally available V-Mount Battery Holder (ordercode 33310) makes it suitable for mobile use. This optional accessory requires a 24V battery life pack.

3.1.   Front View
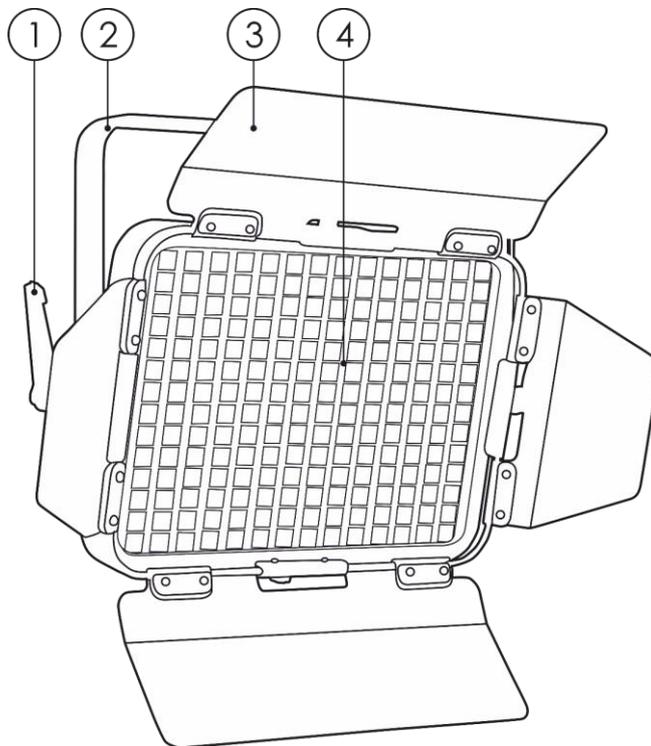
Fig. 02

01) Adjustment screw
02) Mounting bracket
03) Barndoor
04) 392x 0,5 W White LED

3.2.   Back View
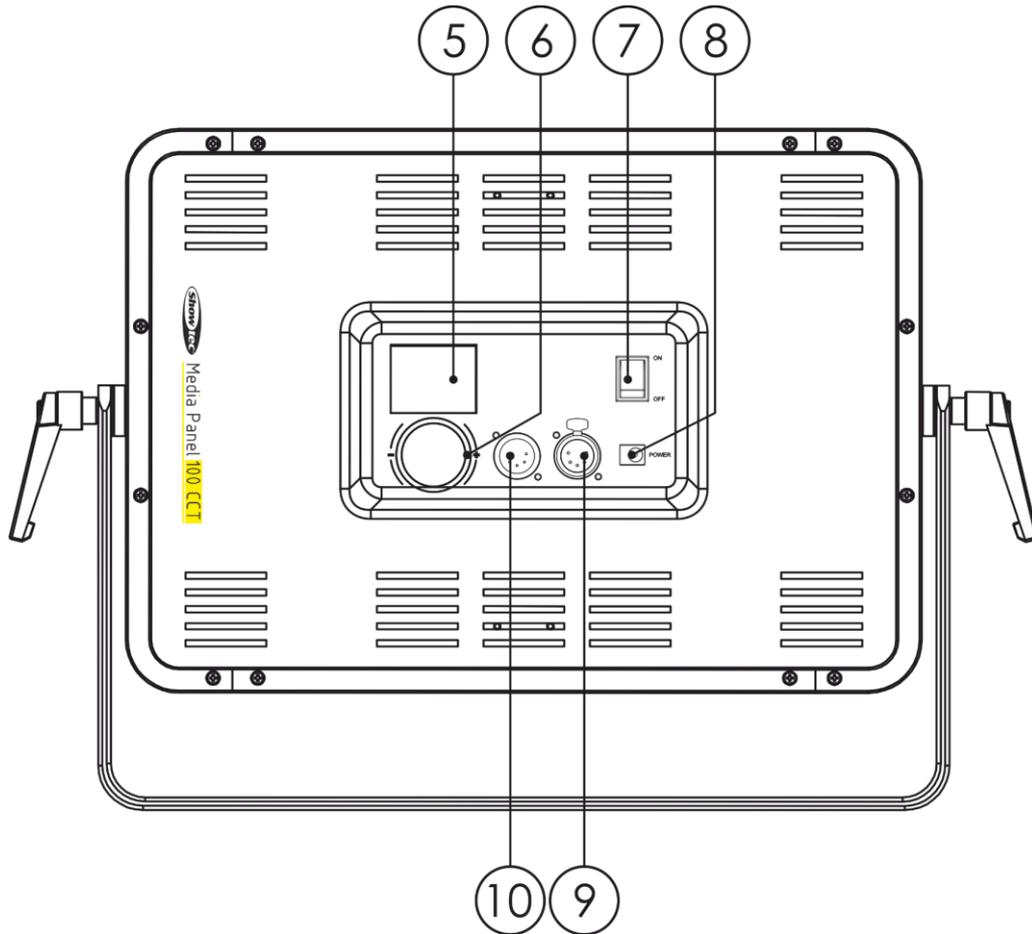
Fig. 03

05) LED Display
06) Dimmer control / Control Wheel
07) ON/OFF
08) 24 V DC power adapter IN
09) 5-pin DMX signal connector OUT
10) 5-pin DMX signal connector IN

3.3.   Product Specifications

Model:	Media Panel 100 CCT

Electrical:	
Input voltage:	24 V DC
Input current:	1 A
Power consumption:	100 W

Physical:	
Dimensions:	487 x 337 x 55 mm (LxWxH)
Weight:	2,6 kg

Optics:	
Light source:	392x 0,5 W White LED
Dimmer:	0–100 %
CCT	3000 K – 5600 K
CRI	96
Lumen Total	6650 lm
Lux @ 2m	558 lx
Lux @ 3m	248 lx
Beam Angle Circular	120 °
Field Angle Circular	160 °

Operation and control:	
Control:	Stand-alone (Knob mode, CCT, Static)
	Master/Slave (Knob mode, CCT, Static)
	DMX-512/RDM
DMX channels:	1, 2, 3, 6, 9 channels
Control panel:	LED display

Connections:	
Power connections:	IEC cable connected to 24 V DC adapter
Data connections:	5-pin DMX connectors IN/OUT
Signal pinouts:	5-pin: pin 1 (ground), pin 2 (-), pin 3 (+), pin 4 (N/C), pin 5 (N/C)

AC power adapter:	
Input voltage:	100–240 V AC, 50/60 Hz
Input current:	2,5 A
Output voltage:	24 V DC
Output current:	5 A

Construction:	
Housing:	Metal
Color:	Dark Gray
IP rating:	IP20
Cooling:	Convection
	16mm Spigot

Thermal:	
Maximum ambient temperature t_a:	45 °C
Minimum Operating Temperature	0 °C
Maximum housing temperature t_c:	65 °C

Minimum distance:	
Minimum distance from flammable surfaces:	0,3 m
Minimum distance to lighted object:	0,8 m

Showtec

3.4. Optional Accessories

The Media Panel is delivered with accessories. You can additionally purchase the following accessory:

Product code: 33310 (Showtec A V-Mount Battery Holder is optional for mobile use)

3.5. Dimensions
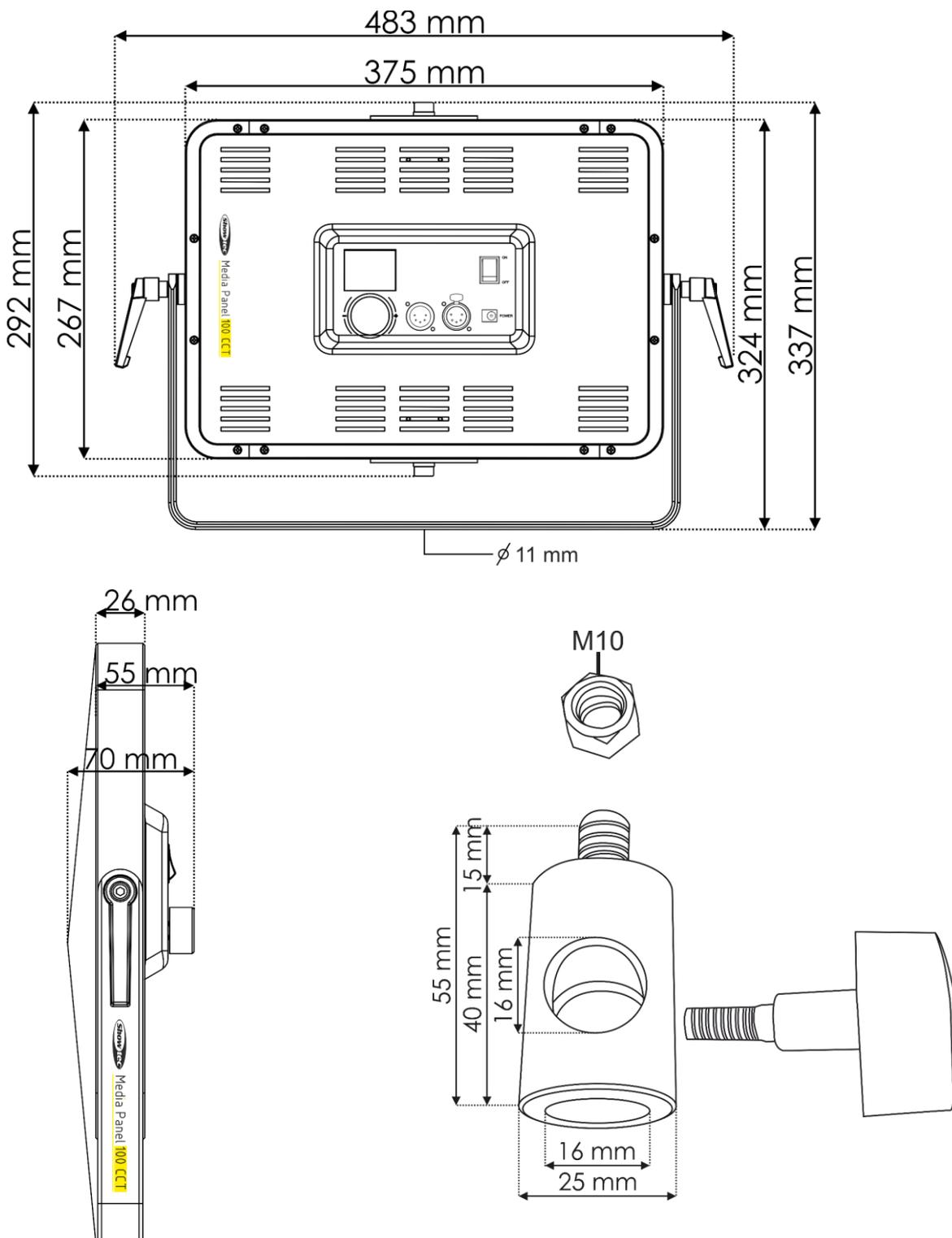
Fig. 04

4. Installation

4.1. Safety Instructions for Installation

⚠️ **WARNING**
Incorrect installation can cause serious injuries and damage of property.

If trussing systems are used, installation must be carried out only by instructed or skilled persons.

Follow all applicable European, national and local safety regulations concerning rigging and trussing.

4.2. Personal Protective Equipment

During installation and rigging wear personal protective equipment in compliance with the national and site-specific regulations.

4.3. Installation Site Requirements

- The device can be used only indoors.
- The device can be mounted to a truss or other rigging structure in any orientation.
- The minimum distance to other objects must be bigger than 0,3 m.
- The minimum distance between the light output and the illuminated surface must be bigger than 0,8 m.
- The maximum ambient temperature ta = 40 °C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40 °C.

4.4. Rigging

The device can be positioned on a flat surface or mounted to a truss or other rigging structure in any orientation. Make sure that all loads are within the pre-determined limits of the supporting structure.
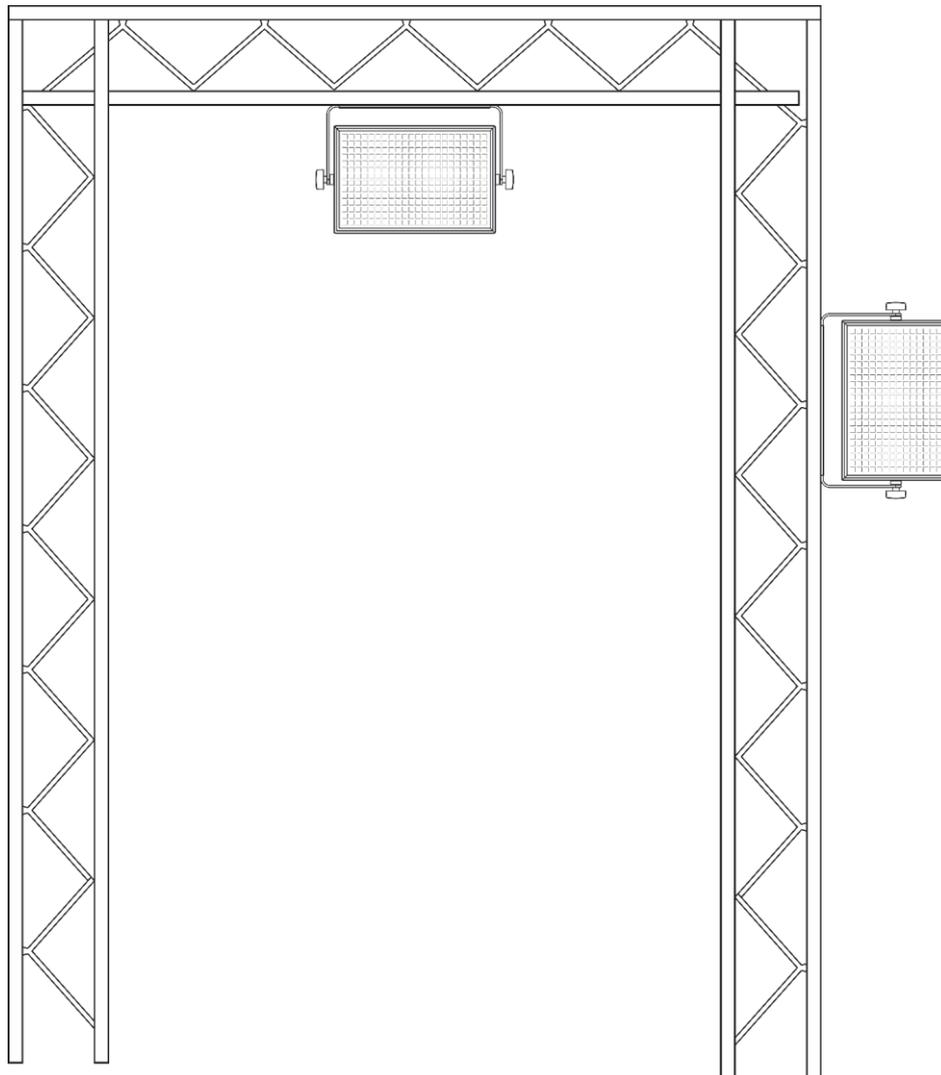
Fig. 05

⚠	**CAUTION** **Restrict the access under the work area during rigging and/or derigging.**

To mount the device, follow the steps below:

01) Use a clamp to attach the device to the supporting structure, as shown in Fig. 05. Make sure that the device cannot move freely.
02) Secure the device with a secondary suspension, for example a safety cable. Make sure that the secondary suspension can hold 10 times the weight of the device. If possible, the secondary suspension should be attached to a supporting structure independent of the primary suspension. Put the safety cable through the **mounting bracket (02)**, as shown in Fig. 06.

Clamp
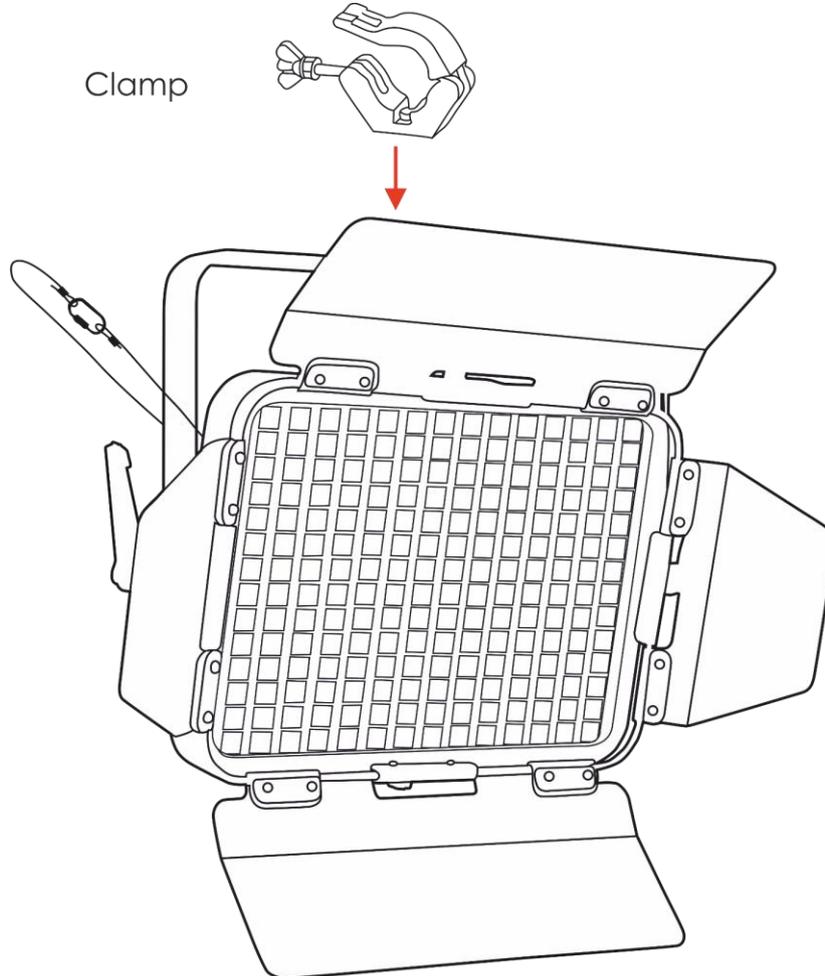
Fig. 06

4.4.1. Angle Adjustment

You can adjust the angle of the device with the **adjustment screw (01)**.

01) Turn the **adjustment screw (01)** counterclockwise to release it.
02) Tilt the device to the desired angle (see Fig. 07).
03) Turn the **adjustment screw (01)** clockwise to tighten it. Make sure that the device cannot move freely after the **adjustment screw (01)** is tightened.
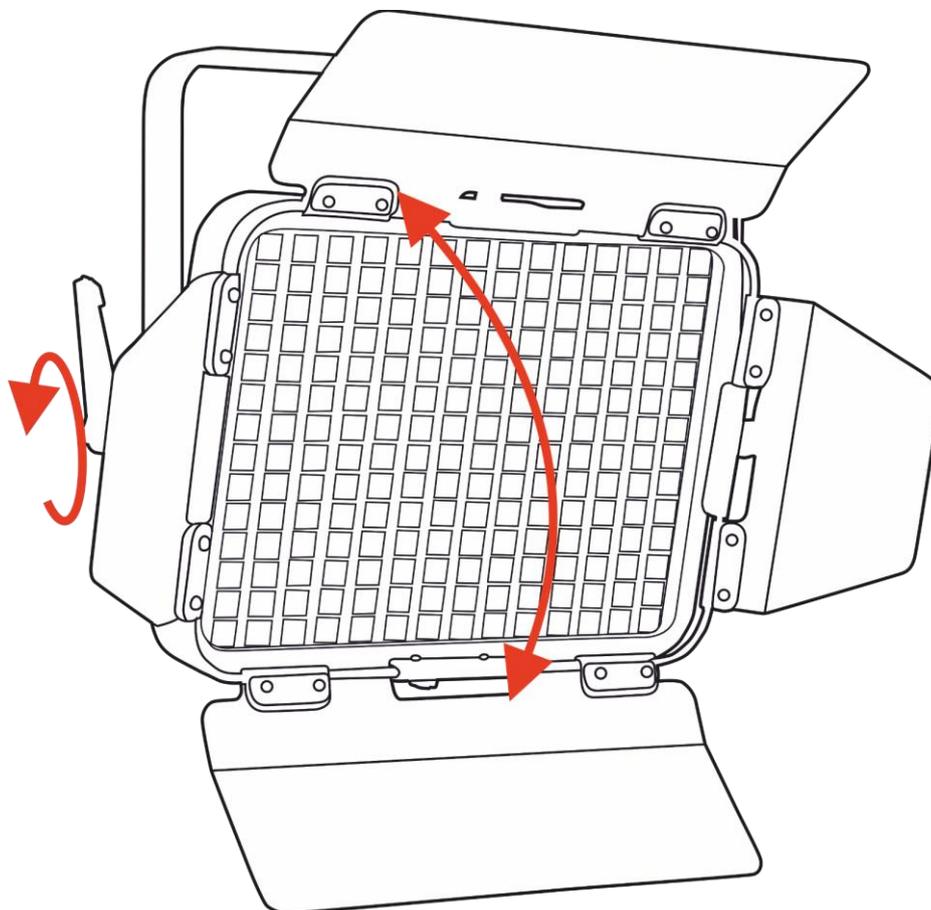
Fig. 07

4.4.2. Barndoor Installation

The accessory frame is equipped with a spring-loaded clip. This prevents the barndoor from falling out.

01) Install the barndoor frame (see Fig. 08).
02) Hold the spring-loaded clip and pull it upwards on the top of the device and pull it downwards at the bottom (see Fig. 09).
03) Release each spring-loaded clip once it is over the designated mounting hole at the bottom and the top of the device (see Fig. 10).
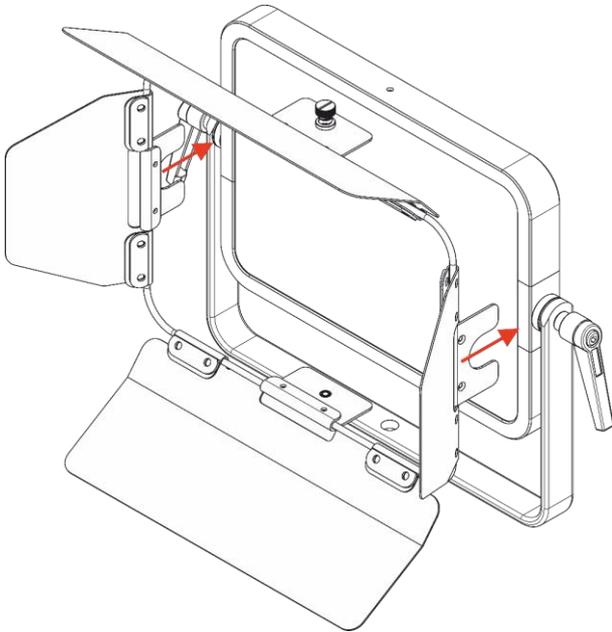
Fig. 08
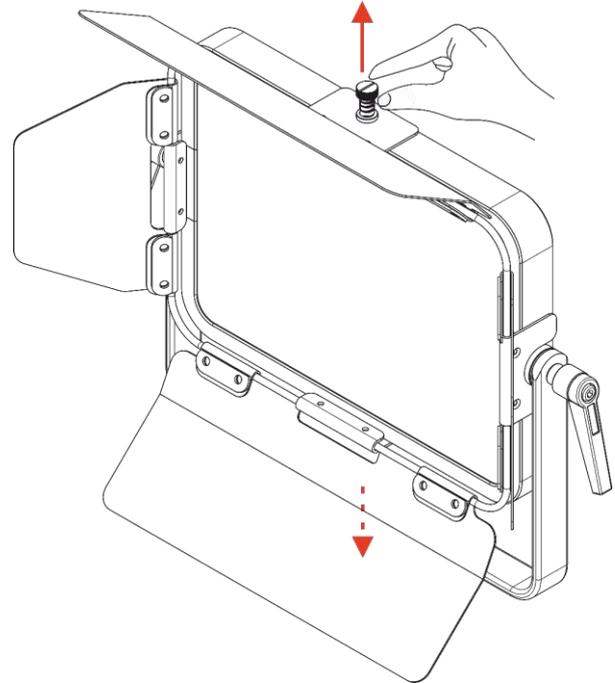
Fig. 09
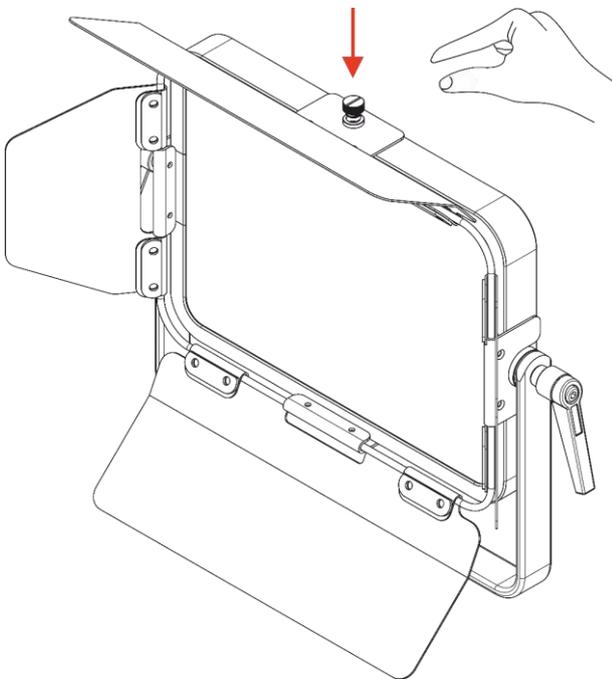
Fig. 10

4.4.3. Free-standing Bracket Installation

01) Put the free-standing bracket on the Media Panel.
02) Install all elements as shown in Fig. 11.
03) Tighten the screws.
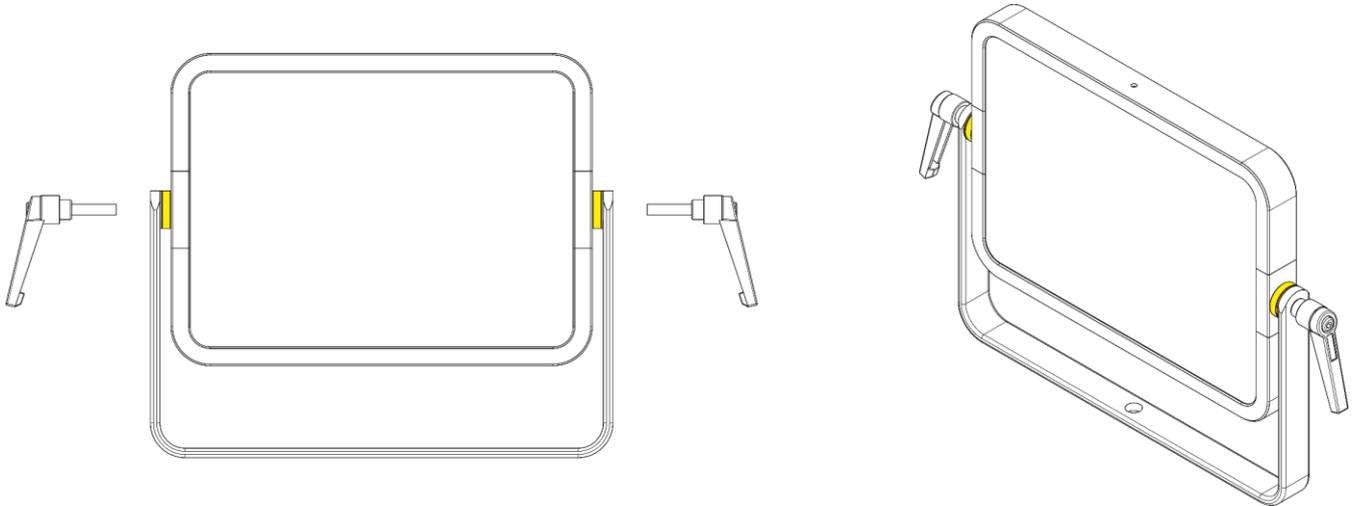
Fig. 11

4.5. Connecting to Power Supply

Attention
Power supply

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

This device is delivered with an AC power adapter. Before connecting the AC power adapter to the socket-outlet, make sure that the power supply matches the Input voltage specified on the information label on the AC power adapter.

To turn the device on, follow the steps below:

01) Connect the AC power adapter to the device. Use only the AC power adapter delivered with the device.
02) Connect the AC power adapter to the socket-outlet.

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. Stand-alone Setup

When the Media Panel 100 CCT is not connected to a controller or to other devices, it functions as a stand-alone device. It can be operated manually or in auto mode.

For more information about the control modes, refer to **6.2. Control Modes** on page 23.

5.3. DMX Connection

5.3.1. DMX-512 Protocol

You need a DMX serial data link to run light shows of one or more devices using a DMX-512 controller or to run synchronized shows of two or more devices set in a master/slave operating mode.

The Media Panel 100 CCT has 5-pin DMX signal IN and OUT connectors.

The pin assignment is as follows:
● 5-pin: pin 1 (ground), pin 2 (-), pin 3 (+), pin 4 (N/C), pin 5 (N/C)

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

5.3.2. DMX Cables

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

If you use 3-pin 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 Fig. 12.

Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C
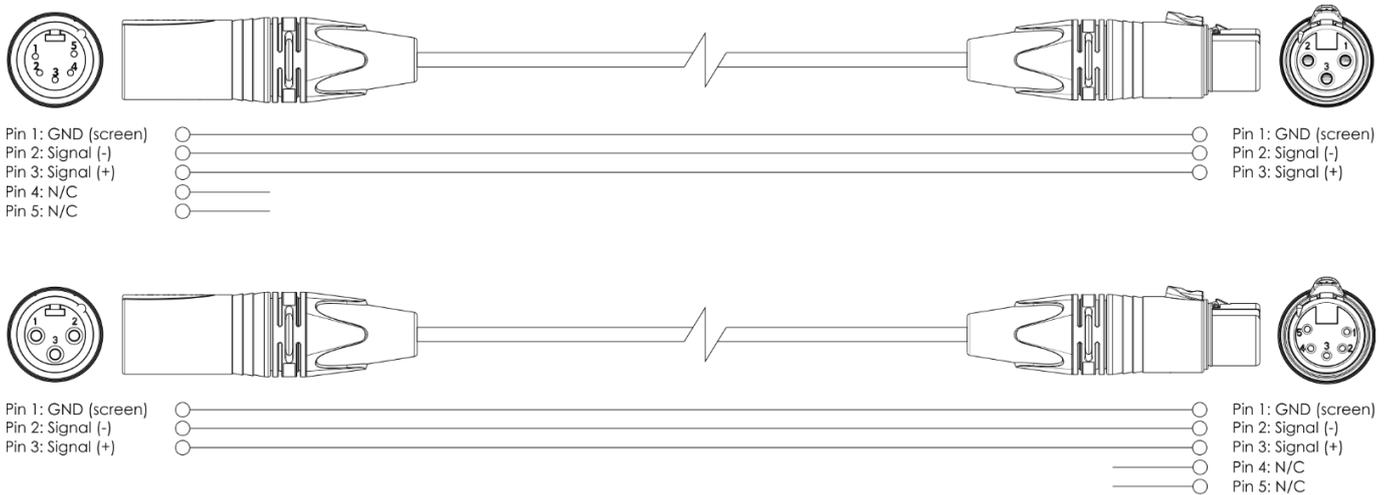
Fig. 12

5.3.3. Master/Slave Setup

The Media Panel 100 CCT supports master/slave control mode. To connect multiple devices in master/slave setup, follow the steps below:

01) Connect the first device's DMX OUT connector to the second device's DMX IN connector.
02) Repeat step 1 to connect all devices as shown in Fig. 13.
03) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device in the setup.
04) Set the first device on the data link as a master device. See **6.6.4. Run Mode** on page 27 for more information.
05) Set the remaining devices to slave mode. See **6.6.4. Run Mode** on page 27 for more information.
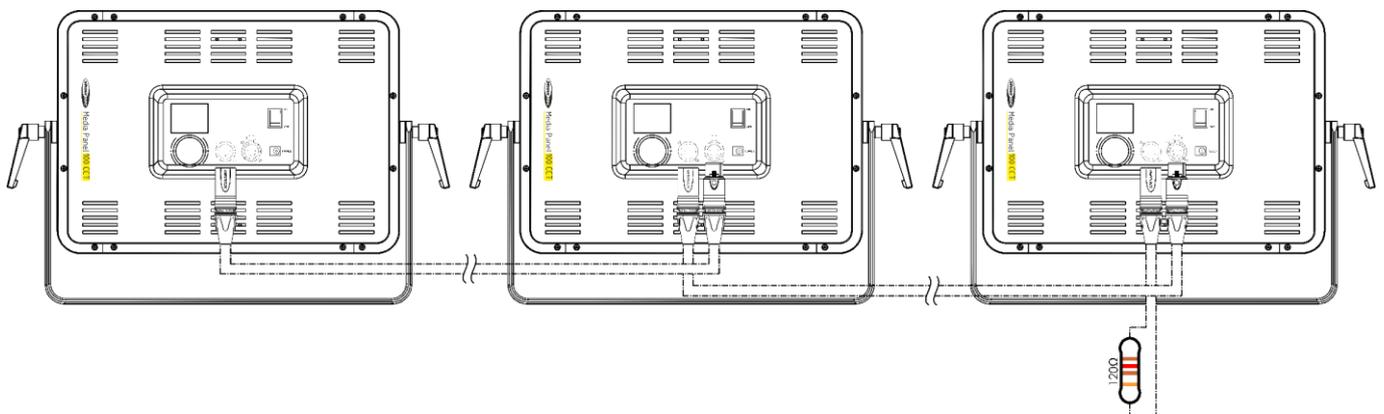
Fig. 13

5.3.4. DMX Linking

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

01) Use a 5-pin DMX cable to connect the DMX OUT connector of the lighting controller to the DMX IN connector of the first device.
02) Connect the first device's DMX OUT connector to the second device's DMX IN connector with a 5-pin DMX cable.
03) Repeat step 2 to connect all devices in a daisy-chain as shown in Fig. 14.
04) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device on the data link.
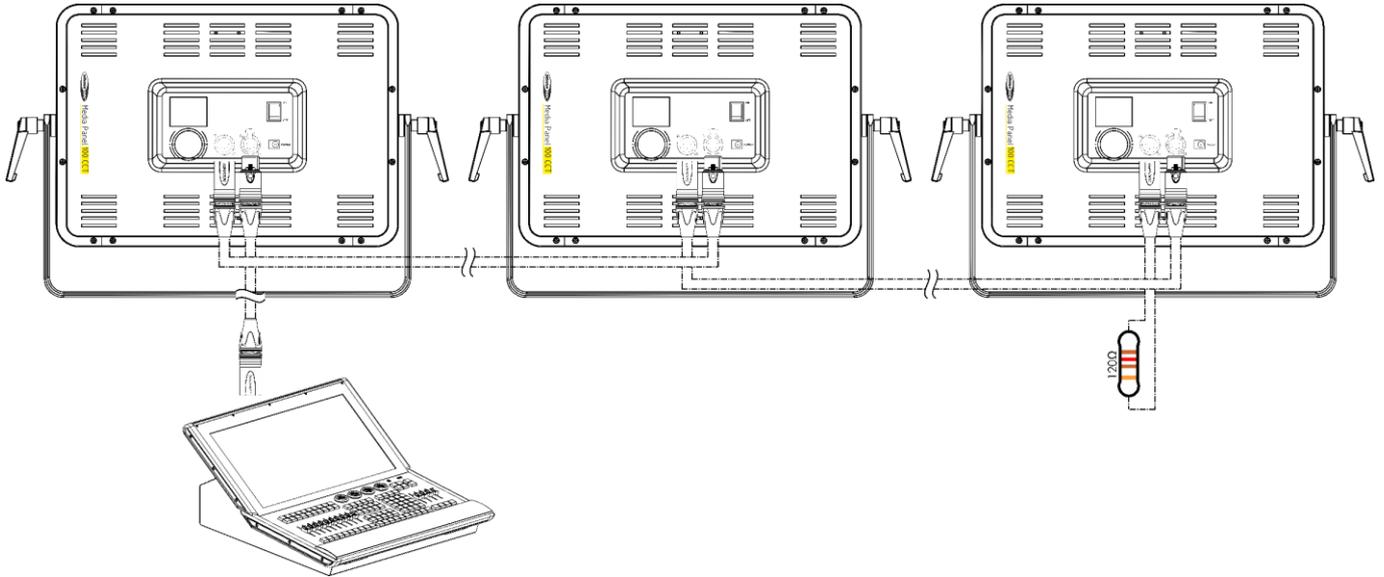
Fig. 14

5.3.5. DMX Addressing

In a setup with multiple devices, make sure that you set the DMX starting address of each device correctly. The Media Panel 100 CCT has 5 personalities: 1 channel, 2 channels, 3 channels, 6 channels and 9 channels.

If you want to connect multiple devices on one data link and use them in 9-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 10 (010), as 1 + 9 = 10.
03) Set the starting address of the 3rd device on the data link to 19 (019) as 10 + 9 = 19.
04) Continue assigning the starting addresses of the remaining devices by adding each time 9 to the previous number.
Make sure that you do not have any overlapping channels in order to control each Media Panel 100 CCT correctly. If two or more devices are addressed similarly, they will work similarly.

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 an indoor spot. It is suitable only for indoor installation. This device is not suitable for households and for general lighting.

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 Mode

The Media Panel supports the following control modes:
- Stand-alone: Knob mode, CCT, Static
- Master/Slave: Knob mode, CCT, Static
- DMX-512, RDM   1, 2, 3, 6, 9 channels

For more information about how to connect the devices, refer to **5. Setup** on pages 20–22.

To operate the device manually as a stand-alone device or in a master/slave setup:

- Adjust the functions by turning the **control wheel (06)** in Knob Mode menu. See **6.6.1. Knob Mode** on page 26 for more information.
- Adjust the levels for CCT (3000 K, 3500 K, 4000 K, 4500 K, 5600 K) in Knob Mode menu. See **6.6.1. Knob Mode** on page 26 for more information.
- Adjust the levels for Cool White and Warm White in Static menu. See **6.6.2. Static** on page 27 for more information.

To operate the device with a DMX controller:

- Set the DMX starting address of the device in the DMX Address menu. See **5.3.5. DMX Addressing** on page 22 and **6.6.3. DMX Address** on page 27.
- Select the DMX channel mode. See **6.6.5. Personality (DMX Channel Modes)** on page 27 for more information. See **6.7. DMX Channels** on pages 31 for complete overview of all DMX channels.

6.3. Control Panel

A B
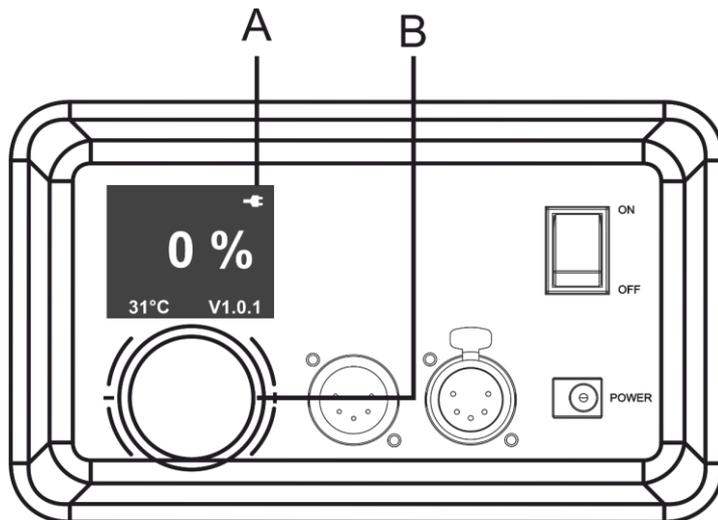
A) LED display
B) Dimmer control / Control Wheel

Fig. 15

- Use the **BACK** function in each menu to exit the current submenu, to return to the Main Menu and to return to the start screen.
- Turn the **Control Wheel** to navigate through the menus or to increase/decrease numeric values.
- Press the **Control Wheel** to open the desired menu, to confirm your choice or to set the currently selected value.
- Use the **Control Wheel** to adjust settings in Knob mode. See **6.6.1. Knob Mode** on page 26 for more information

6.4. Start-up

Upon start-up the display will show a splash screen with the logo of Showtec. Press any button to enter the password and/or enter the Main Menu.

Note:

- If no button is pressed, after the preset number of seconds of inactivity, the display will turn off. Press any button to turn the display on. See **6.6.6.6. Disp Time (Display Time)** on page 29 for more information
- By default the display is locked. To access the main menu, you need to enter the **password**.
  The default password is: **1 1 1 1**. Deactivating the display lock does not affect the submenu items which by default require a password. See **6.6.6.5. Disp Key (Display Lock)** on page 29 for more information.

6.5. Menu Overview

BACK BACK BACK

PRESS PRESS PRESS

0 %
31°C V1.0.1

Menu
BACK
KNOB MODE
STATIC
ADDRESS

KNOB MODE
BACK
DIMMER
CCT

KNOB MODE
BACK
DIMMER 100%
CCT 4500K
Press control wheel

Menu
BACK
KNOB MODE
STATIC
ADDRESS

STATIC
BACK
WW
CW
STROBE

STATIC
BACK
WW 255
CW 255
STROBE 25
Press control wheel

Menu
BACK
KNOB MODE
STATIC
ADDRESS

ADDRESS
001

UP/DOWN

ADDRESS
512

Menu
RUN MODE
PERSONALITY
SETTING
INFO

RUN MODE
BACK
DMX512
SLAVE

Menu
RUN MODE
PERSONALITY
SETTING
INFO

PERSONALITY
BACK
UNO
DOS
VW.D

PERSONALITY
VW.f
STD.P

Menu
RUN MODE
PERSONALITY
SETTING
INFO

Password
1 1 1 1
1 2 3
4 5 6
7 8 9

SETTING
BACK
RESET
DIMMER
DMX ERROR

Password
1 1 1 1
1 2 3
4 5 6
7 8 9

RESET . . .

SETTING
BACK
RESET
DIMMER
DMX ERROR

DIMMER
BACK
DIM4
DIM3
DIM2

DIMMER
DIM1
OFF

SETTING
BACK
RESET
DIMMER
DMX ERROR

DMX ERROR
BACK
SAVE
BLACK

SETTING
DMX ERROR
MCON
DISP KEY
DISP TIME

MCON
BACK
SELF
MASTER

SETTING
DMX ERROR
MCON
DISP KEY
DISP TIME

DISP KEY
BACK
ON
OFF

SETTING
DMX ERROR
MCON
DISP KEY
DISP TIME

DISP TIME
BACK
ON
10s
30s

DMX ERROR
2min

Menu
RUN MODE
PERSONALITY
SETTING
INFO

INFO
BACK
FIXTURE HOURS
VERSION
RDM

12 hours

INFO
BACK
FIXTURE HOURS
VERSION
RDM

V1.0.0
2021-07-05

INFO
BACK
FIXTURE HOURS
VERSION
RDM

RDM
BACK
UID
LABEL

0x29B409700001

RDM
BACK
UID
LABEL

Media Panel
100 CCT

6.6. Main Menu Options

The main menu has the following options:

```
Menu
BACK
KNOB MODE
STATIC
ADDRESS
RUN MODE
PERSONALITY
SETTING
INFO
```
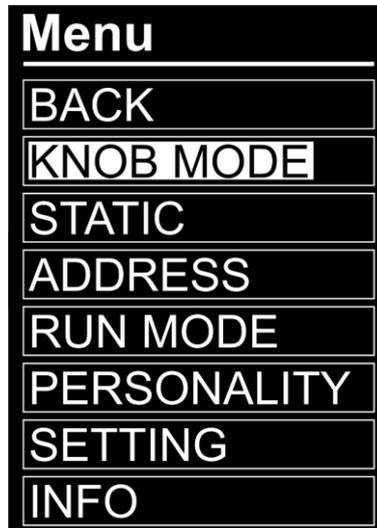
01) Turn the **Control wheel** to navigate through the main menu.
02) Press the **Control wheel** to open the submenus.

Note: Some of the submenus require a password. The default password is: **1 1 1 1**. Deactivating the display lock does not affect the submenu items which by default require a password.

6.6.1. Knob Mode

In this menu you can set the dimmer and CCT.

```
KNOB MODE
BACK
DIMMER  100%
CCT      4500K
```

Press control wheel
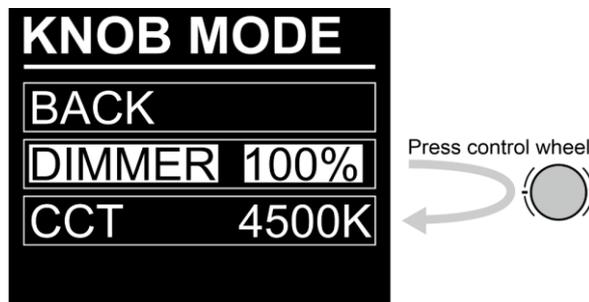
01) Turn the **Control wheel** to adjust settings.
02) The adjustment ranges are:
   - **D**: Dimmer, from dark to brightest (0–100 %)
   - **E**: CCT (3000 K, 3500 K, 4000 K, 4500 K, 5600 K)
03) Once you have set your settings, press the **Control wheel** to save your settings. Otherwise, your settings will be lost upon returning to the previous menu.

6.6.2. Static

In this menu, you can set the static colors to create an infinite range of colors.
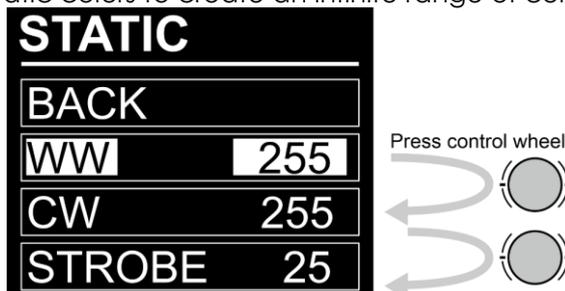
01) Turn the **Control wheel** to scroll through the static colors (WW, CW) and STROBE.
02) Press the **Control wheel** to open the settings submenu.
03) Turn the **Control wheel** to increase/decrease the values.
   - Color intensity (WW, CW): the adjustment range is between 0–255, from low to high intensity
   - STROBE frequency: the adjustment range is between 0–25, from OFF to high frequency
04) Press the **Control wheel** to set the value and to move to the next setting.

6.6.3. DMX Address

In this menu you can set the device's DMX starting address.

01) Turn the **Control wheel** to set the desired DMX address. The adjustment range is between 001 and 504/507/510/511/512 (STD.P/VW.f/VW.D/DOS/UNO), depending on the currently selected DMX channel mode.
02) Press the **Control wheel** to save the changes.

6.6.4. Run Mode

In this menu you can set the control mode of the device.

01) Turn the **Control wheel** to toggle between the following 2 options:
   - DMX: the device will operate in DMX Mode.
   - SLAVE: the device will operate as a slave in Master/Slave Mode. It means that it will react the same as the master device.
02) Press the **Control wheel** to confirm your choice.

6.6.5. Personality (DMX Channel Modes)

In this menu you can set the DMX channel mode (personality).

01) Turn the **Control wheel** to select the desired DMX channel mode. There are 5 options available:
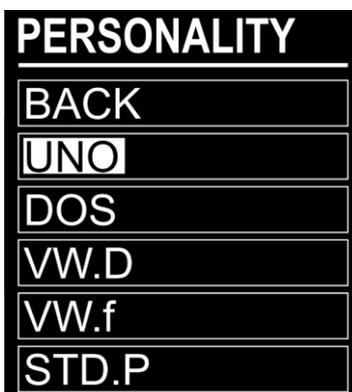
UNO:	1 channels	**VW.f:**	6 channels
DOS:	2 channels	**STD.P:**	9 channels
VW.D:	3 channels		

02) Press the **Control wheel** to confirm your choice.

6.6.6. Settings

In this menu you can adjust the device's settings. This menu requires a **password**. The default password is: **1 1 1 1**.

01) Enter the password to access the menu.
02) Press the **Control wheel** to confirm the password.
03) Turn the **Control wheel** to scroll through the following options:

```
SETTING
BACK
RESET
DIMMER
DMX ERROR
MCON
DISP KEY
DISP TIME
```

6.6.6.1. Reset

In this submenu you can restore the default factory settings and reset the custom programs.

01) Select RESET and press the **Control wheel** to open the submenu.
02) Enter the password: **1 1 1 1**.
03) Press the **Control wheel** to confirm. During reset the display will show:

```
RESET . . .
```
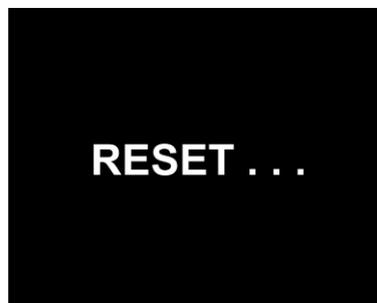
04) When the resetting is finished, the display will show OK.
05) Press the **Control wheel** to confirm and exit the submenu.

6.6.6.2. Dimmer

In this submenu you can adjust the dimmer speed.

01) Select DIMMER and press the **Control wheel** to open the submenu.
02) Press the **Control wheel** to choose one of the following options:
   ● DIM 1, DIM 2, DIM 3, DIM 4 (Default): non-linear dimmers, from fast to slow
   ● OFF: linear dimmer
03) Press the **ENTER** button to confirm your choice.

6.6.6.3. DMX Error

In this submenu, you can determine the behavior of the device in case of a DMX failure.

01) Select DMX ERROR and press the **Control wheel** to open the submenu.
02) Turn the **Control wheel** to toggle between the following 2 options:
   ● SAVE: in case of a DMX signal failure the device will use the last properly received DMX signal ensuring uninterrupted performance. SAVE is the default setting.
   ● BLACK: in case of a DMX signal failure the device will black out the light output.
03) Press the **Control wheel** to confirm your choice.

6.6.6.4. DMX data transfer

In this submenu, you can determine the behaviour of the DMX data transfer.

01) Select DMX ERROR and press the **Control wheel** to open the submenu.
02) Turn the **Control wheel** to toggle between the following 2 options:
   ● SELF: DMX data transfer OFF. The device will not send DMX data to the other connected devices. SELF is the default setting.
   ● MASTER: DMX data transfer ON. The device will send DMX data to the other connected devices
03) Press the **Control wheel** to confirm your choice.

6.6.6.5. Disp Key (Display Lock)

In this menu you can activate the display lock.

01) Turn the **Control wheel** to toggle between ON and OFF.
   ● ON: display lock is on. ON is the default setting. The display turns off if no button is pressed within the preset amount of time. To access the main menu, you will need to enter the password. The default password is: **1 1 1 1**.
   ● OFF: the main menu remains unlocked after the display turns off.
02) Press the **Control wheel** to confirm your choice.

Note: Deactivating the display lock does not affect the submenu items which by default require a password.

6.6.6.6. Disp Time (Display Time)

In this menu you can set the amount of time that needs to pass before the display turns off, if no button is pressed.

01) Turn the **Control wheel** to select one of the following options: 10 s/30 s/2 min/ON.
   30s is the default setting.
02) Press the **Control wheel** to confirm your choice.

6.6.7. Information

In this menu you can view the total operation time, current software version and the RDM details of the device.

01) Turn the **Control wheel** to choose FIXTURE HOURS, VERSION or RDM.
02) Press the **Control wheel** button to confirm the selection.

6.6.7.1. Fixture Hours

In this submenu you can view the total operation time of the device.

6.6.7.2. Version

In this submenu you can view the current version of the installed firmware.

6.6.7.3. RDM

In this submenu you can view the RDM details of the device.

01) Turn the **Control wheel** to choose between the following options:
   ● UID: the display shows the unique identification number of the device.
      The model ID for this device is 0x294097
   ● LABEL: the display shows the name of the device
02) Press the **Control wheel** to confirm the selection.

6.7. DMX Channels

6.7.1. 1 Channel, 2 Channels, 3 Channels, 6 Channels, 9 Channels

1 CH (UNO)	2 CH (DOS)	3 CH (VW.D)	6 CH (VW.f)	9 CH (STD.P)	Function	Value	Setting
1	1	1	1	1	**Master Dimmer**	000–255	From low to high intensity (0–100 %)
	2		2	2	**Dimmer Fine**	000–255	From low to high intensity (0–100 %)
		2	3	3	**WW Dimmer**	000–255	From low to high intensity (0–100 %)
			4	4	**WW Dimmer Fine**	000–255	From low to high intensity (0–100 %)
		3	5	5	**CW Dimmer**	000–255	From low to high intensity (0–100 %)
			6	6	**CW Dimmer Fine**	000–255	From low to high intensity (0–100 %)
				7	CCT	000–009	No function
						010	3000K
						011–068	3000K–3500K
						069	3500K
						070–127	3500K–4000K
						128	4000K
						129–186	4000K–4500K
						187	4500K
						188–245	4500K–5600K
						246–255	5600K
					8	**Strobe**	000–009	No function
						010–099	Strobe, from low to high frequency (0–25 Hz)
						100–109	No function
						110–179	Lightning strobe, from low to high frequency (0–25 Hz)
						180–189	No function
						190–255	Random strobe, from low to high frequency (0–25 Hz)
					9	**Control Mode** (after 3 seconds)	000–010	No Function
						011–100	Reserved
						101–110	Dimmer Off
						111–120	Dimmer Mode 4
						121–200	Reserved
						201–210	All Reset
						211–255	Reserved

Note: Make sure that the Master Dimmer channel is open in order to see the light output.

7. Troubleshooting

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

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

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

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	• Check if power is switched on and cables are plugged in
	Main fuse is blown	• Disconnect the device and contact your Highlite International dealer
The device responds erratically	The factory settings of the device are changed	• Reset the device's parameters to the default factory settings. See **6.6.6.1. Reset** on page 28
The device does not respond to DMX control	The controller is not connected	• Connect the controller
	The signal is reversed. The 3-pin/5-pin DMX OUT of the controller does not match the DMX IN of the device	• Install a phase-reversing cable between the controller and the device
	The controller is defective	• Try using another controller
The device responds erratically to DMX control	Bad data link connection	• Examine connections and cables. Correct poor connections. Repair or replace damaged cables
	The data link is not terminated with a 120 Ω termination plug	• Insert a termination plug in the DMX OUT connector of the last device on the link
	Incorrect addressing	• Check address settings and correct, if necessary
	In case of a setup with multiple devices, one of the devices is defective and disturbs data transmission on the link	• To find out the defective device, bypass one device at a time until normal operation is restored
No light or LEDs cut out intermittently	LEDs are damaged	• Disconnect the device and contact your Highlite International dealer
	The power supply settings do not match local AC voltage and frequency	• Disconnect the device. Check the settings and correct, if necessary

8. Maintenance

8.1. Preventive Maintenance

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

Make sure that:

● All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
● The safety devices are not damaged.
● There are no deformations on housings, fixations and installation points.
● The lens is not cracked or damaged.
● The power cables are not damaged and do not show any material fatigue.

8.1.1. Basic Cleaning Instructions

The external lens of the device must be cleaned periodically in order to optimize the light output. The cleaning schedule depends on the conditions at the site where the device is installed. When smoke or fog machines are used at the site, the device will need more frequent cleaning. On the other hand, if the device is installed in well-ventilated area, it will need less frequent cleaning. To establish a cleaning schedule, examine the device at regular intervals during the first 100 hours of operation.

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 15 minutes.
03) Remove the dust collected on the external surface with dry compressed air and a soft brush.
04) Clean the lens with a damp cloth. Use a mild detergent solution.
05) Dry the lens carefully with a lint-free cloth.
06) Clean the DMX and other connections with a damp 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.

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

9.1. Instructions for Deinstallation

⚠️ **WARNING**
Incorrect deinstallation can cause serious injuries and damage of property.

- Let the device cool down before dismounting.
- 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. Follow the cleaning instructions in chapter **8.1.1. Basic Cleaning Instructions** on page 33.
- 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

$C\epsilon$

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