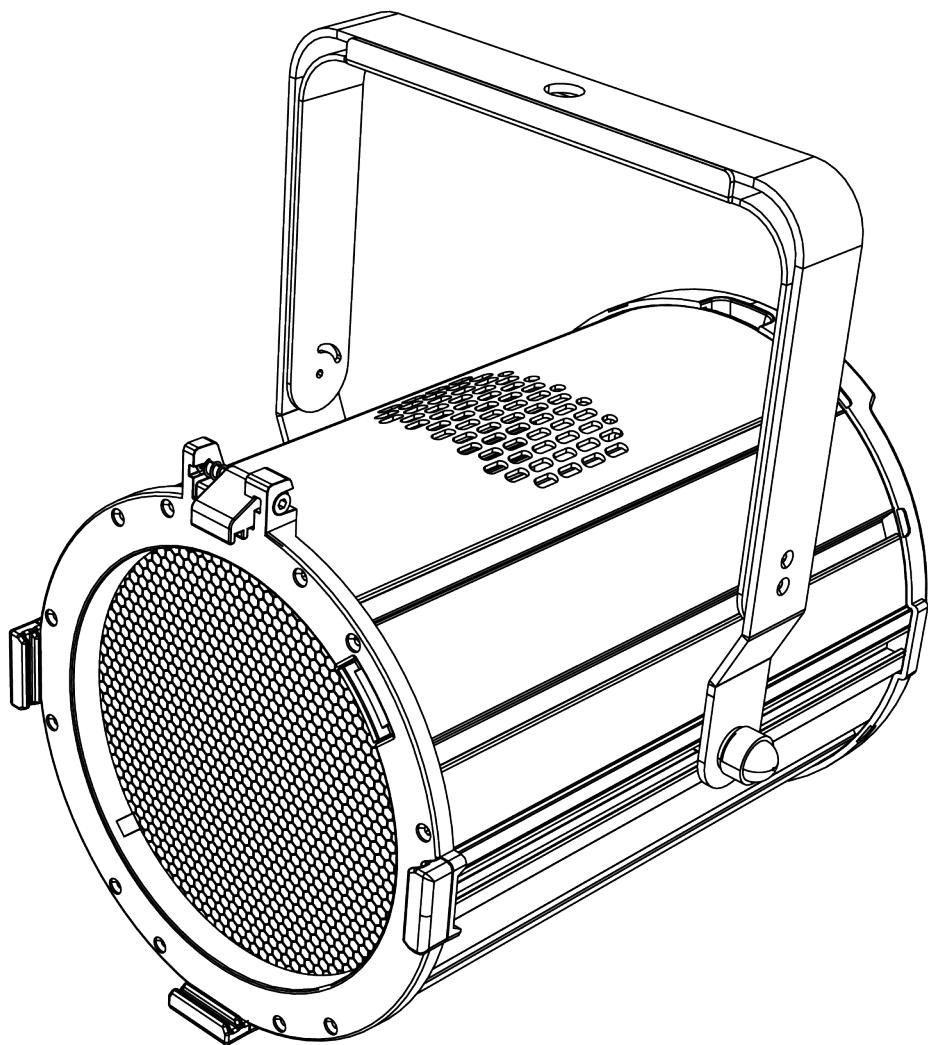




USER MANUAL

ENGLISH

V1.0



ACT Par 200W CW/WW

Product code: 34066

Preface

Thank you for purchasing this Showtec product.

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

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

This user manual contains information concerning:

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

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

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1. Introduction

1.1. Before Using the Product

**Important**

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

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

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

Your shipment includes:

- Showtec ACT Par 200W CW/WW
- 3x diffusers: 30°, 50° and 80°
- Color frame
- Schuko to Power Pro cable (1,5 m)
- User manual

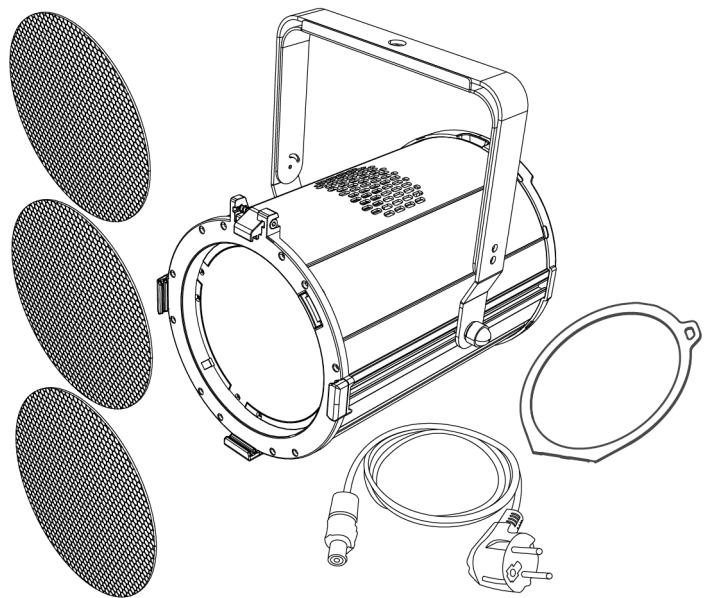


Figure 1

1.2. Intended Use

This device is intended for professional use as a theater spotlight. It can be installed only indoors. 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. 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.

1.4. 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.



Electrical hazard



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 mounting bracket of the device.

The information label contains the following symbols:



This device is designed for indoor use.



This device shall not be treated as household waste.

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.

**DANGER**

Electric shock caused by dangerous voltage inside

There are areas inside the device where dangerous touch voltage may be present.

- Do not open the device or remove any covers.
- Do not operate the device if the covers or the housing are open. Before operation, check if the housing is firmly closed and all screws are tightly fastened.
- Disconnect the device from the electrical power supply before service and maintenance, and when the device is not in use.

**DANGER**

Electric shock caused by short-circuit

This device falls under IEC protection Class I.

- Make sure that the device is electrically connected to ground (earth). Connect the device only to a socket-outlet with a ground (earth) connection.
- Do not cover the ground (earth) connection.
- Do not bypass the thermostatic switch or fuses.
- Replace fuses only with the same type and rating.
- 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.



WARNING
Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.



Attention
Power supply

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



Attention
General safety

- Do not insert objects into air vents.
- Do not connect the device to a dimmer pack.
- Do not switch the device on and off in short intervals. This reduces 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 use immediately.



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

This device is intended for professional use as a theater spotlight. 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 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, fixings 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 out by ordinary persons. Installation and service shall be carried out only by instructed or skilled persons. Contact your Highlite International dealer for more information.

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

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

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

2.3. Personal Protective Equipment

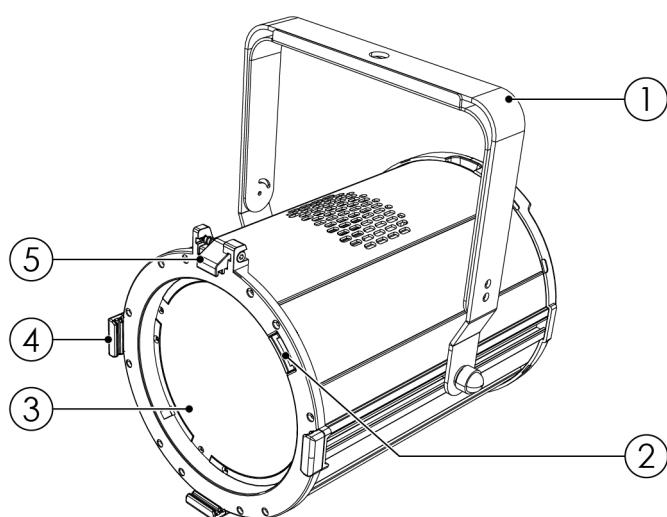
During installation, deinstallation and rigging wear personal protective equipment in compliance with the national and site-specific regulations.

3. Description of the Device

The ACT Par 200W CW/WW is an indoor spotlight with a high CRI. It can produce cold white, warm white or anything in between. In addition to the control panel on the back, the ACT Par 200W CW/WW has 2 knobs to control the white color and intensity when using it in standalone mode. This makes the device suitable for use in exhibition venues. There are 3 diffusers included, so that the ACT Par 200W CW/WW can be used as a spotlight, a medium flood or a soft beam. An optional barndoors is also available.

3.1. Front View

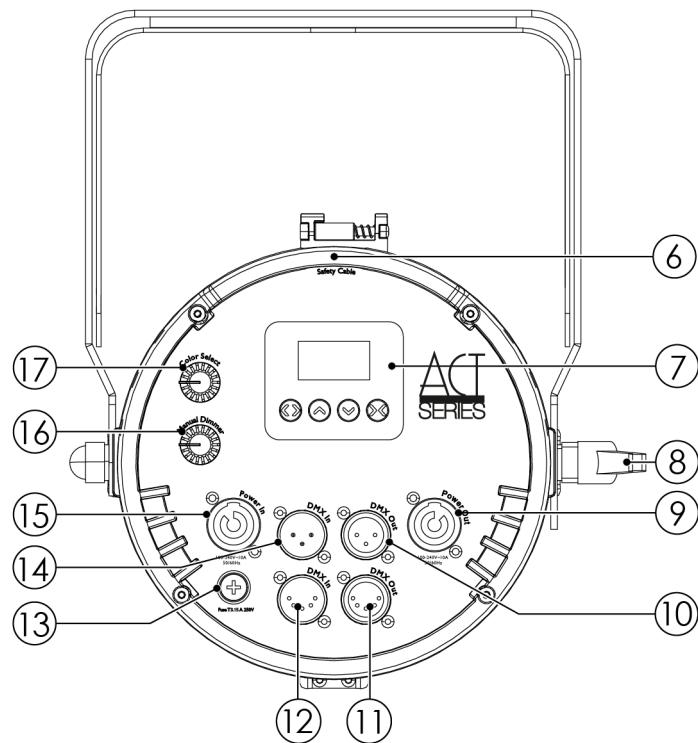
Figure 2



- 01) Mounting bracket
- 02) Diffuser clip
- 03) Lens opening
- 04) 3 x Barndoors holders
- 05) Barndoors clip

3.2. Back View

Figure 3

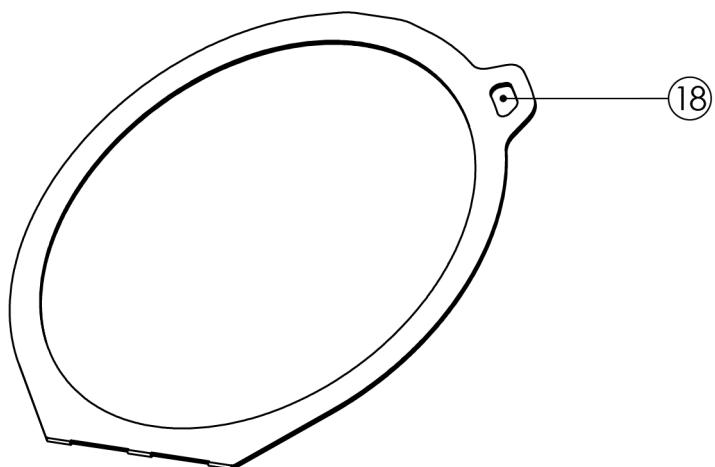


- 06) Safety eye
- 07) Control panel: OLED display and control buttons
- 08) Adjustment handle
- 09) Power Pro connector OUT
- 10) 3-pin DMX signal connector OUT
- 11) 5-pin DMX signal connector OUT
- 12) 5-pin DMX signal connector IN
- 13) Fuse T3,15 A 250 V
- 14) 3-pin DMX signal connector IN
- 15) Power Pro connector IN
- 16) Manual dimmer control
- 17) Color select control

3.3. Color Frame

Figure 4

18) Safety eye – color frame



3.4. Product Specifications

| | |
|---|------------------------|
| Model: | ACT Par 200W CW/WW |
| Source: | |
| Light source type | LED |
| Light source quantity | 1 |
| Light source power | 200 W |
| LED color type | WW / CW |
| Luminous flux (total) | 9246 lm |
| CRI | 92 |
| Minimum CCT | 2800 K |
| Maximum CCT | 7200 K |
| Optical: | |
| Beam angle (circular) | 32° |
| Control and Programming: | |
| Control mode | DMX / Manual |
| DMX channels | 2 / 5 / 6 |
| Protocols | DMX / RDM |
| Display | OLED |
| Dynamic Effects: | |
| Dimmer | 0–100 % |
| Strobe | 0–20 Hz |
| Electrical Specifications and Connections: | |
| Power supply | 100–240 V AC 50/60 Hz |
| Power consumption | 205 W |
| Fuse | 3,15 A |
| Power connector IN | Power Pro Blue |
| Power connector OUT | Power Pro Gray |
| DMX connector IN | XLR 3P / XLR 5P |
| DMX connector OUT | XLR 3P / XLR 5P |
| Mechanical Specifications: | |
| Width | 258 mm |
| Height | 304 mm |
| Depth | 280 mm |
| Weight | 4,2 kg |
| IP Rating | IP20 (indoor use only) |
| Housing | Aluminum |
| Color | Black |
| Product Properties: | |
| Cooling | Axial fan |
| Rigging: | |
| Mounting options | Bracket / Floor |
| Thermal Specifications: | |
| Maximum ambient temperature | 40 °C |
| Minimum operating temperature | 0 °C |

Included Items:

| | |
|----------------------|-----------------|
| Included cables | Power Pro Cable |
| Included optics | Diffusers |
| Included accessories | Color frame |

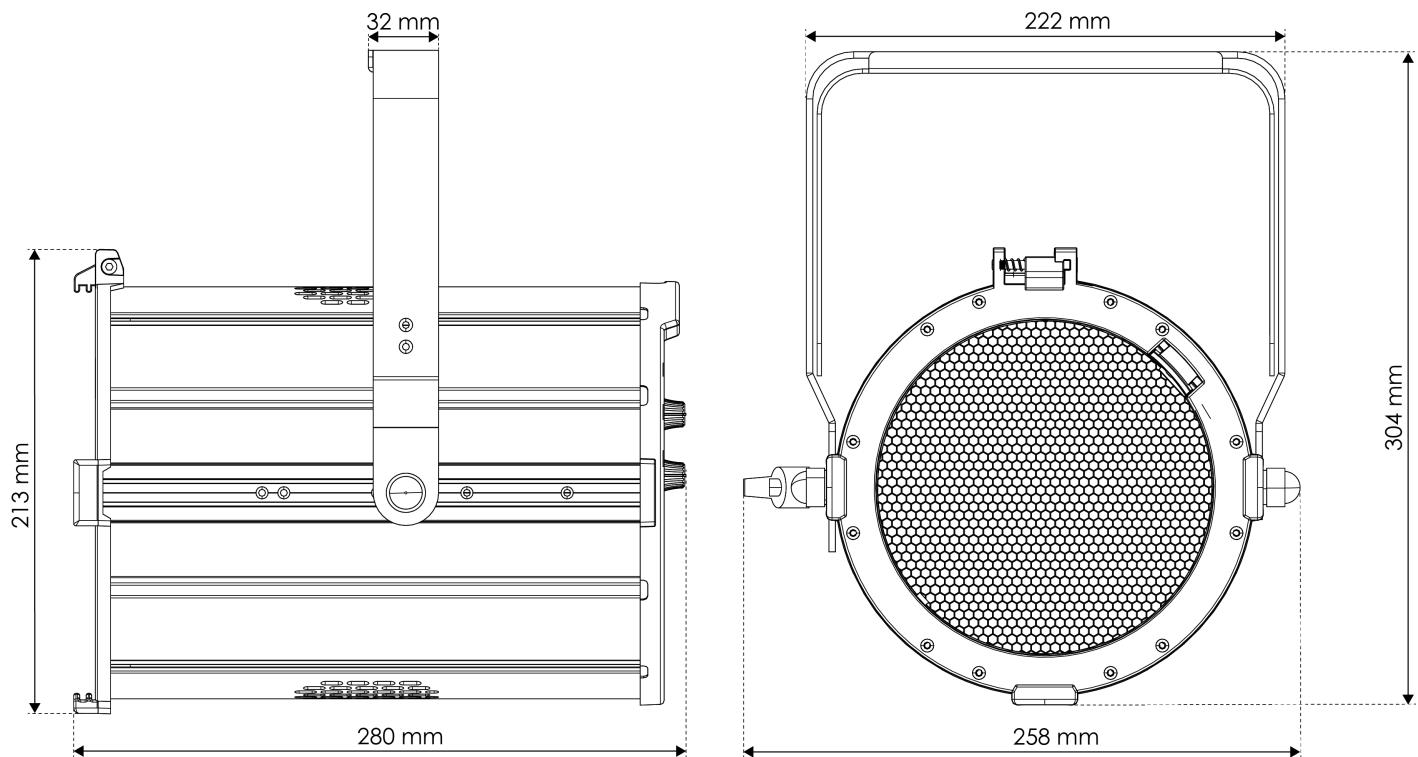
3.5. Optional Accessories

You can additionally purchase the following accessory:

- [34067](#) Barndoors for ACT Par 200W

Contact your Highlite International dealer for more information.

3.6. Dimensions

Figure 5

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

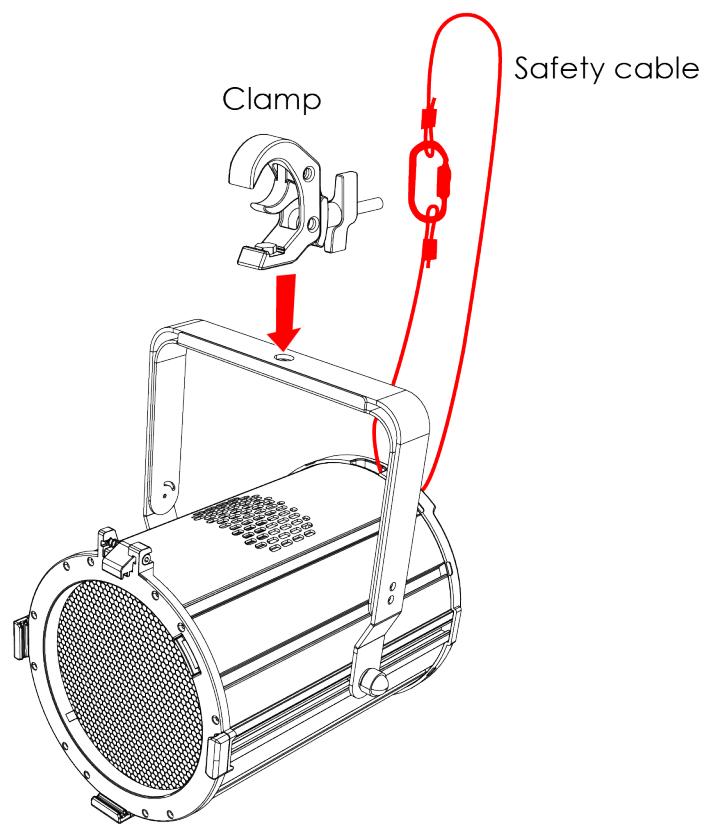
4.3. Installation Site Requirements

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

4.4. Rigging

To mount the device, follow the steps below:

- 01) Use a clamp to attach the device to the supporting structure. 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 **safety eye (06)**.
- 03) If an optional barndoors is installed, secure the barndoors to the overhead structure with an appropriate secondary attachment, for example a safety cable. Put the safety cable through the safety eye of the barndoors.

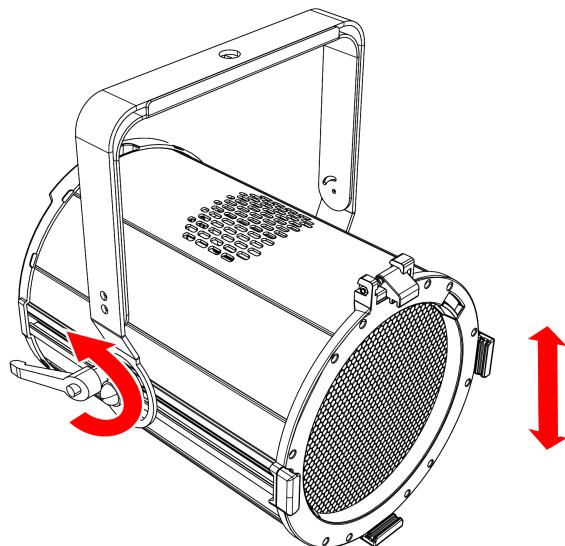
Figure 6

4.5. Angle Adjustment

You can adjust the angle of the device with the **adjustment handle (08)**.

- 01) Turn the **adjustment handle (08)** counterclockwise to loosen it.
- 02) Tilt the device to the desired angle.
- 03) Turn the **adjustment handle (08)** clockwise to tighten it. Make sure that the device cannot move freely after the **adjustment handle (08)** is tightened.

Figure 7



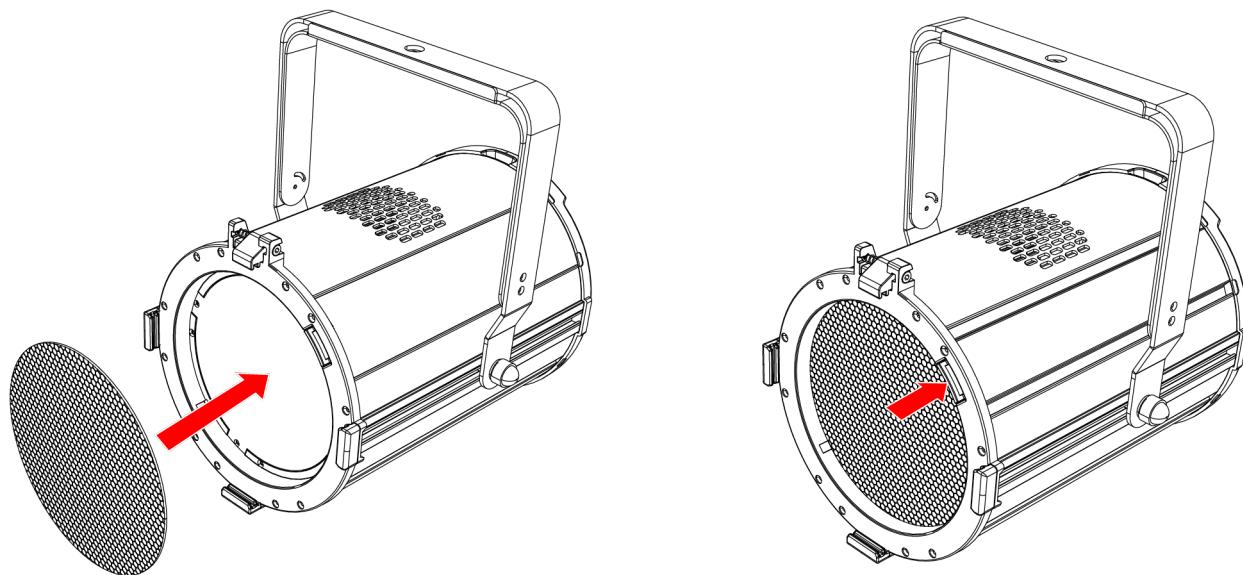
4.6. Diffuser Installation

The ACT Par 200W CW/WW can be used as a spotlight, a medium flood or a soft beam by installing one of the 3 included diffusers: 30°, 50°, or 80°.

To install a diffuser, press the diffuser into the **lens opening (03)** of the device. Make sure that the diffuser is held in position by the **diffuser clip (02)**.

To remove the diffuser, press the **diffuser clip (02)**. The diffuser can now be removed.

Figure 8



4.7. Color Frame Installation

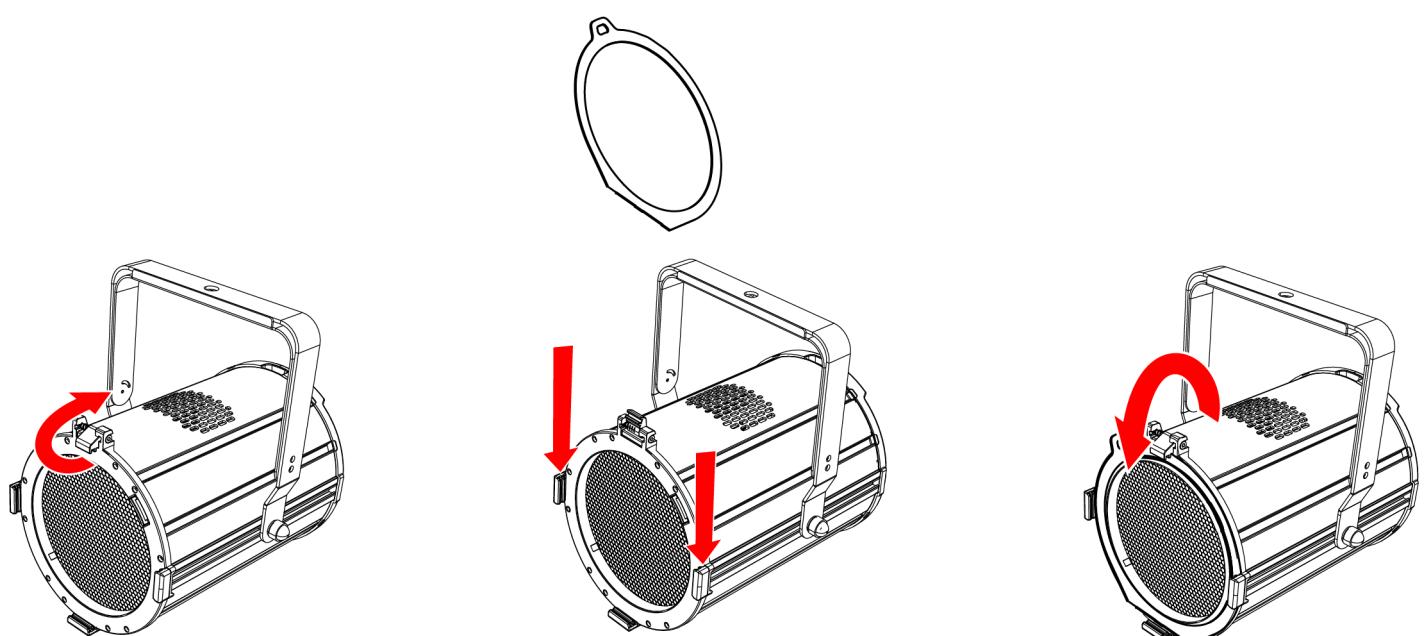
The ACT Par 200W CW/WW is delivered with a color frame. You can insert a color gel or a diffusion filter into the color frame. To install the color frame, follow the steps below:

- 01) Slide the spring-loaded **barndoors clip (05)** to the side and flip it backwards.
- 02) Insert a color gel or a diffusion filter into the color frame.
- 03) Insert the color frame into the **barndoors holders (04)**.
- 04) Pull the **barndoors clip (05)** downwards to release the spring-loaded screw. The barndoors will be locked in position.
- 05) Secure the color frame to the overhead structure with an appropriate secondary attachment, for example a safety cable. Put the safety cable through the **safety eye (18)** of the color frame.

Note:

Make sure that the color frame is locked in position with the barndoors clip before using the device.

Figure 9



4.8. Barndoors Installation

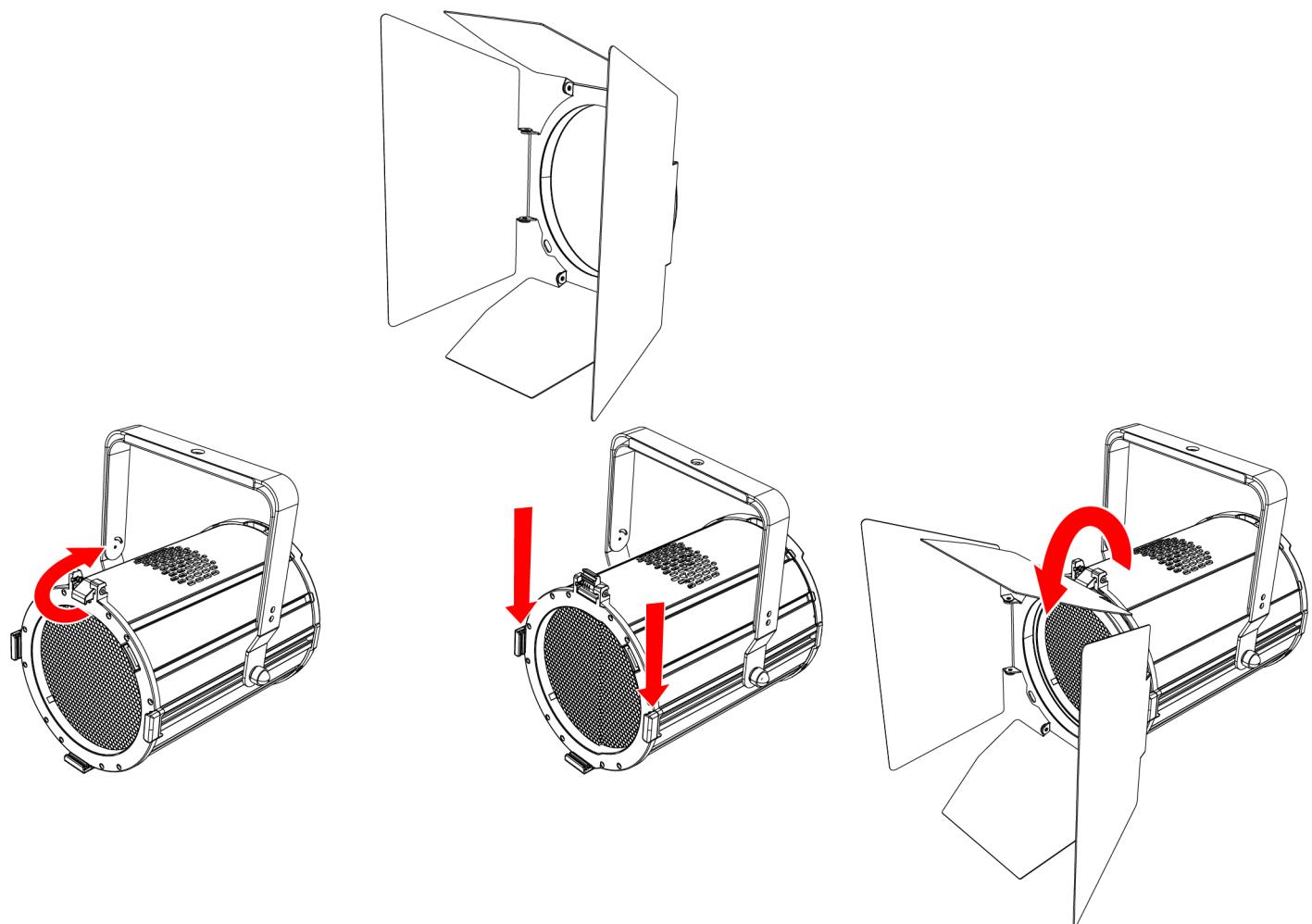
An optional barndoors (see [3.5. Optional Accessories](#) on page 12) is available for use with the ACT Par 200W CW/WW. To install the barndoors, follow the steps below:

- 01) Slide the spring-loaded **barndoors clip (05)** to the side and flip it backwards.
- 02) Insert the barndoors into the **barndoors holders (04)**.
- 03) Pull the **barndoors clip (05)** downwards to release the spring-loaded screw. The barndoors will be locked in position.
- 04) Secure the barndoors to the overhead structure with an appropriate secondary attachment, for example a safety cable. Put the safety cable through the safety eye of the barndoors.

Note:

Make sure that the barndoors is locked in position with the barndoors clip before using the device.

Figure 10



4.9. Connecting to Power Supply

**DANGER**

Electric shock caused by short-circuit

The device accepts AC mains power at 100–240 V and 50/60 Hz. Do not supply power at any other voltage or frequency to the device.

This device falls under IEC protection class I. Make sure that the device is always electrically connected to the ground (earth).

Before connecting the device to the socket-outlet:

- Make sure that the power supply matches the input voltage specified on the information label on the device.
- Make sure that the socket-outlet has ground (earth) connection.

Connect the device to the socket-outlet with the power plug. Do not connect the device to a dimmer circuit, as this may damage the device.

4.10. Power Linking of Multiple Devices

This device supports power linking. Power can be relayed to another device via the power OUT connector. Note that the input and the output connectors have different designs: one type cannot be connected to the other.

Power linking of multiple devices must be carried out only by instructed or skilled persons.

**WARNING**

Incorrect power linking may lead to overload of the electrical circuit and result in serious injuries and damage of property.

To prevent overload of the electrical circuit, when power linking multiple devices:

- Use cables with sufficient current-carrying capacity. The power cable supplied with the device is not suitable for power linking of multiple devices.
- Make sure that the total current draw of the device and all connected devices does not exceed the rated capacity of the power cables and the circuit breaker.
- Do not link more devices on one power link than the maximum recommended number.

Maximum recommended number of devices:

- at 100–120 V: 5 devices ACT Par 200W CW/WW
- at 200–240 V: 10 devices ACT Par 200W CW/WW

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 ACT Par 200W CW/WW is not connected to a controller or to other devices, it functions as a stand-alone device. It can be operated manually via the control panel and via the manual controls.

Refer to Control Modes (see [6.2. Control Modes](#) on page 22) for more information.

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.

The ACT Par 200W CW/WW has 3-pin and 5-pin DMX signal IN and OUT connectors.

The pin assignment is as follows:

- 3-pin: pin 1 (ground), pin 2 (-), pin 3 (+)
- 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

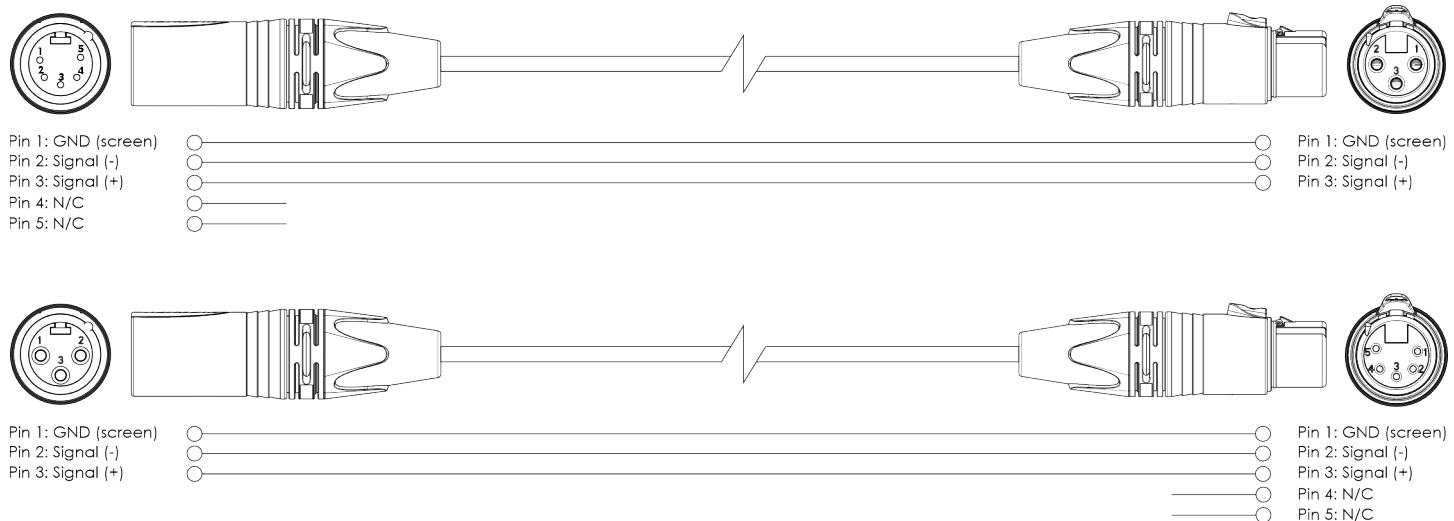
5.3.2. DMX Cables

Shielded twisted-pair cables with 3-pin/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 11

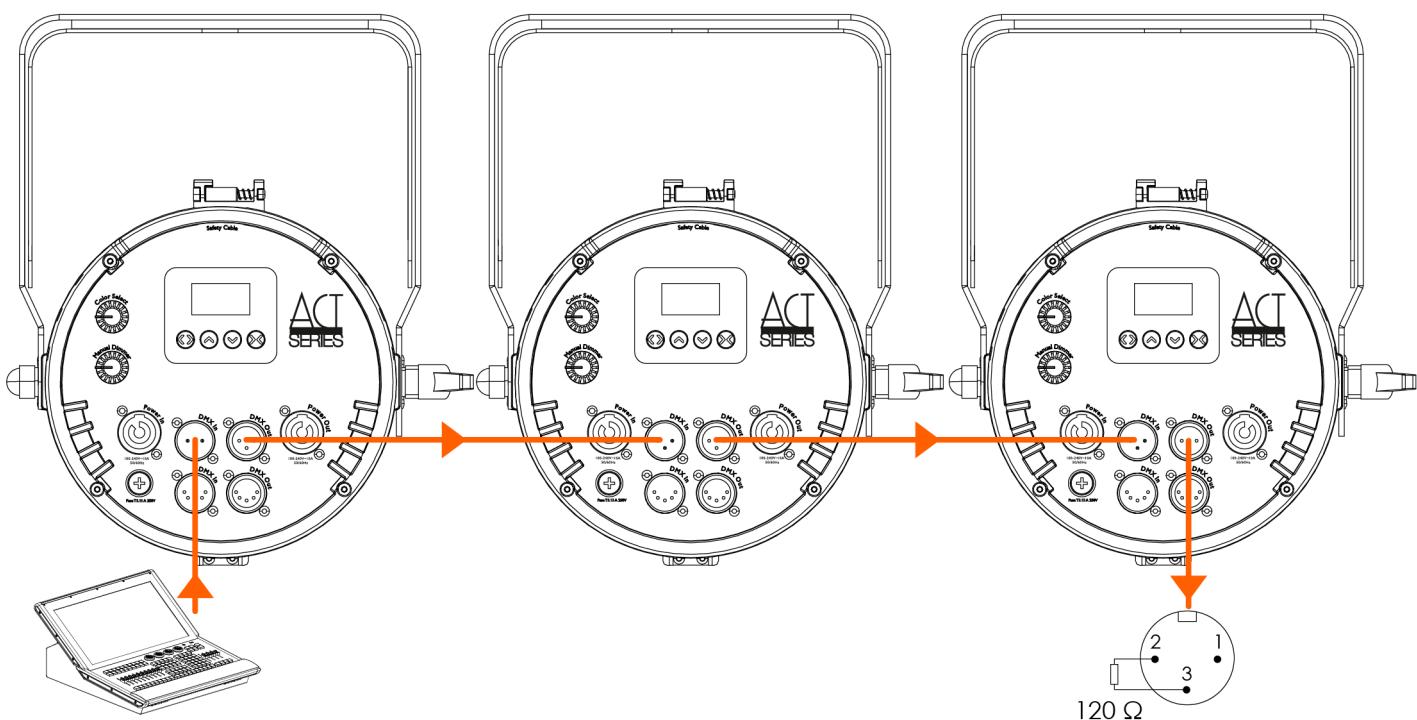


5.3.3. DMX Linking

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

- 01) Use a 3-pin/5-pin DMX cable to connect the DMX OUT connector of the lighting controller to the DMX IN connector of the 1st device.
- 02) Connect the DMX OUT connector of the 1st device to the DMX IN connector of the 2nd device with a 3-pin/5-pin DMX cable.
- 03) Repeat step 2 to connect all devices in a daisy-chain.
- 04) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device on the data link.

Figure 12



5.3.4. DMX Addressing

In a setup with multiple devices, make sure that you set the DMX starting address of each device correctly. The ACT Par 200W CW/WW has 3 personalities: RAW (2 channels), Basic (5 channels), and Advanced (6 channels).

If you want to connect multiple devices on one data link and use them in 6-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 7 (007), as $1 + 6 = 7$.
- 03) Set the starting address of the 3rd device on the data link to 13 (013), as $7 + 6 = 13$.
- 04) Continue assigning the starting addresses of the remaining devices by adding each time 6 to the previous number.

Make sure that you do not have any overlapping channels in order to control each ACT Par 200W CW/WW 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 a theater spotlight. It can be installed only indoors. 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 Modes

The ACT Par 200W CW/WW can be operated with a DMX controller and as a stand-alone device.

The ACT Par 200W CW/WW supports the following control modes:

- Stand-alone: Manual operation
- DMX-512: RAW (2 channels), Basic (5 channels), and Advanced (6 channels)

For more information about how to connect the devices, refer to Setup (see [5. Setup](#) on page 19).

You can operate the device as a stand-alone device in 2 ways:

- with the **manual dimmer control (16)** and **color select control (17)**, and
- from the control panel and the menu.

To operate the device with the manual controls:

- 01) Select Knob in the Function Mode pop-up submenu (see [6.6.3.1. Function Mode](#) on page 27).
- 02) Adjust the dimmer with the **manual dimmer control (16)**.
- 03) Adjust the color temperature with the **color select control (17)**. The available values are the same as in the menu Static CCT (see [6.6.2. Static CCT](#) on page 26).

The values selected with the manual controls will be shown on the start screen (see [6.4. Start-up](#) on page 23) when Knob mode is selected.

To operate the device manually from the control panel and the menu:

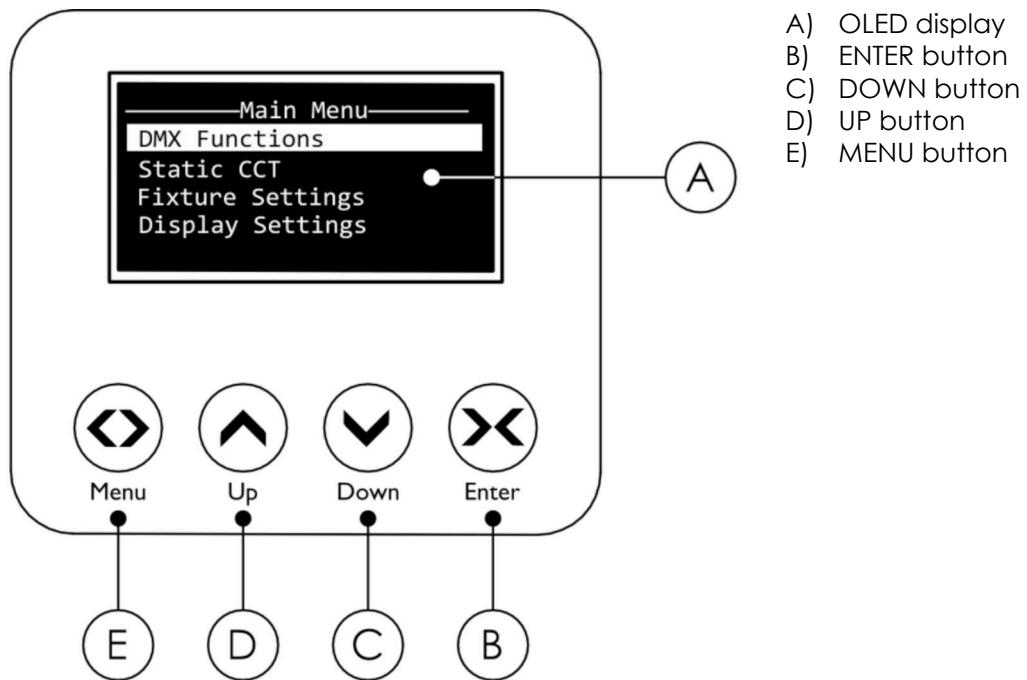
- 01) Select Define in the Function Mode pop-up submenu (see [6.6.3.1. Function Mode](#) on page 27).
- 02) Adjust the color temperature and strobe speed in the Static CCT submenu (see [6.6.2. Static CCT](#) on page 26).

To operate the device with a DMX controller:

- 01) Set the DMX starting address of the device in the DMX Address menu (see [6.6.1.1. DMX Address](#) on page 25).
- 02) Select the behavior of the device in case there is no DMX signal in the DMX Fail pop-up submenu (see [6.6.1.3. DMX Fail](#) on page 26).
- 03) Select the DMX channel mode in the DMX Mode submenu (see [6.6.1.2. Mode](#) on page 25). See DMX Channels (see [6.7. DMX Channels](#) on page 30) for a complete overview of all DMX channels.

6.3. Control Panel

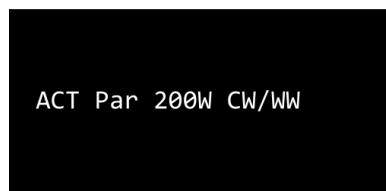
Figure 13



- Use the **MENU** button to exit the current submenu, to return to the main menu and to return to the start screen.
- Use the **UP/DOWN** buttons to navigate through the menus and to select values and options.
- Use the **ENTER** button to open the desired menu, to confirm the selection or to set the currently selected value.

6.4. Start-up

Upon start-up the display will show a splash screen with the name of the device:



Immediately afterwards, the display shows the start screen. The start screen provides information about the control modes of the device and the temperature of the LEDs, for example:



Manual operation (from the menu)



Manual operation (from the manual controls)



6-channel DMX mode with starting address 001

Note:

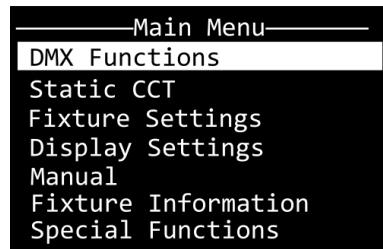
If no button is pressed, after 30 seconds of inactivity the display will turn off. Press any button to turn the display on. Refer to the [Display Settings](#) (see [6.6.4. Display Settings](#) on page 28) for more information.

6.5. Menu Overview

| Level 1 | Level 2 | Level 3 |
|---|---|--|
| DMX Functions (see 6.6.1. DMX Functions on page 25) | DMX Address Mode DMX Fail View DMX Value | 001–512 RAW – 2 Ch. Basic – 5 Ch. Adv. – 6 Ch. Manual Defined Hold Blackout (Depends on the DMX channel mode) |
| Static CCT (see 6.6.2. Static CCT on page 26) | CCT | Cool Colors (CW), Warm Colors (WW), 2800 K, 3000 K, 3200 K, 3400 K, 3600 K, 3800 K, 4000 K, 4200 K, 4400 K, 4600 K, 4800 K, 5000 K, 5200 K, 5400 K, 5600 K, 5800 K, 6000 K, 6200 K, 6400 K, 6600 K |
| Fixture Settings (see 6.6.3. Fixture Settings on page 27) | Strobe Speed Dimmer Curve Dimmer Speed Function Mode | 0–15 Linear Square Law Inv. Square Law S-Curve LED Halogen Knob Auto Define |
| Display Settings (see 6.6.4. Display Settings on page 28) | Display Inverse Backlight Auto Off Display Contrast | No Yes No Yes 01–30 |
| Manual (see 6.6.5. Manual on page 28) | CW WW Strobe | 000–255 000–255 000–015 |
| Fixture Information (see 6.6.6. Fixture Information on page 28) | UID Hours Version | |
| Special Functions (see 6.6.7. Special Functions on page 29) | Factory Reset | No Yes |

6.6. Main Menu Options

The main menu has the following options:



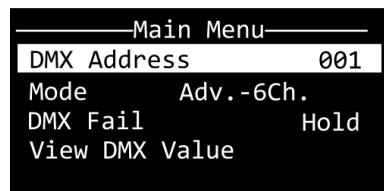
DMX Functions
Static CCT
Fixture Settings
Display Settings
Manual
Fixture Information
Special Functions

- 01) Press the **UP/DOWN** buttons to navigate through the menu.
- 02) Press the **ENTER** button to open submenus.

6.6.1. DMX Functions

In this menu you can configure the DMX settings of the device.

- 01) Press the **UP/DOWN** buttons to scroll through the following options:



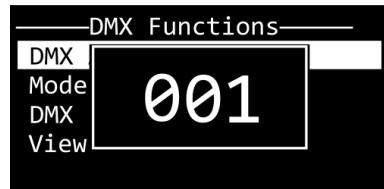
- DMX Address (see [6.6.1.1. DMX Address](#))
- Mode (see [6.6.1.2. Mode](#))
- DMX Fail (see [6.6.1.3. DMX Fail](#))
- View DMX Value (see [6.6.1.4. View DMX Value](#))

- 02) Press the **ENTER** button to confirm the selection.

6.6.1.1. DMX Address

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

- 01) Press the **UP/DOWN** buttons to select the starting DMX address of the device. The selection range is 001-512.

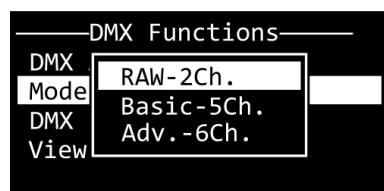


- 02) Press the **ENTER** button to confirm the selection.

6.6.1.2. Mode

In this pop-up submenu you can select the DMX channel mode.

- 01) Press the **UP/DOWN** buttons to select the DMX channel mode. There are 3 options available:



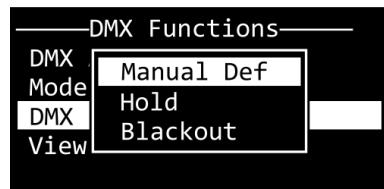
- RAW (2 channels)
- Basic (5 channels)
- Advanced (6 channels)

- 02) Press the **ENTER** button to confirm the selection. For more information, refer to DMX Channels (see [6.7. DMX Channels](#) on page 30).

6.6.1.3. DMX Fail

In this pop-up submenu you can determine the behavior of the device in case there is no DMX signal.

01) Press the **UP/DOWN** buttons to select one of the following 3 options:



- Manual Defined: The device will use the manually selected values for color and color temperature. See the Manual menu (see [6.6.5. Manual](#) on page 28) for more information.
- Hold: The device will use the last DMX signal received correctly.
- Blackout: The device will black out the light output.

02) Press the **ENTER** button to confirm the selection.

6.6.1.4. View DMX Value

In this submenu you can view the currently selected DMX value for each DMX channel.

Press the **UP/DOWN** buttons to scroll through all options:



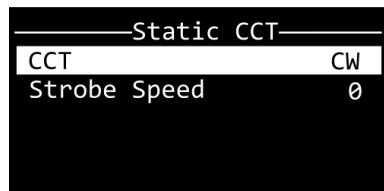
Depending on the selected DMX channel mode in the DMX Channel Mode submenu (see [6.6.1.2. Mode](#) on page 25), you can see the following values:

- in 2-channel DMX mode: Cool White, Warm White
- in 5-channel DMX mode: Cool White, Warm White, Dimmer, Strobe, CCT
- in 6-channel DMX mode: Cool White, Warm White, Dimmer, Strobe, CCT, and Dim Curve

6.6.2. Static CCT

In this menu you can manually adjust the correlated color temperature value and the strobe speed of the device. To use the settings in this menu, select the Auto or Define option in the Function Mode submenu (see [6.6.3.1. Function Mode](#) on page 27).

Press the **UP/DOWN** buttons to choose one of the following 2 options:

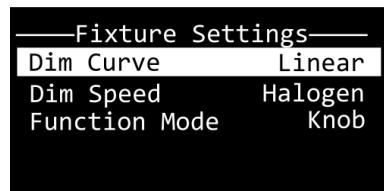


- CCT: Sets the color temperature for the device. You can select the presets Cool White (set to 2800 K) or Warm White (set to 6600 K), or set one of 20 specific temperatures in the range of 2800 K to 6600 K. For the full list of the available color temperatures, refer to the Menu Overview (see [6.5. Menu Overview](#) on page 24).
- Strobe Speed: Sets the strobe speed for the device. There are 16 different options, labeled from 0 to 15.

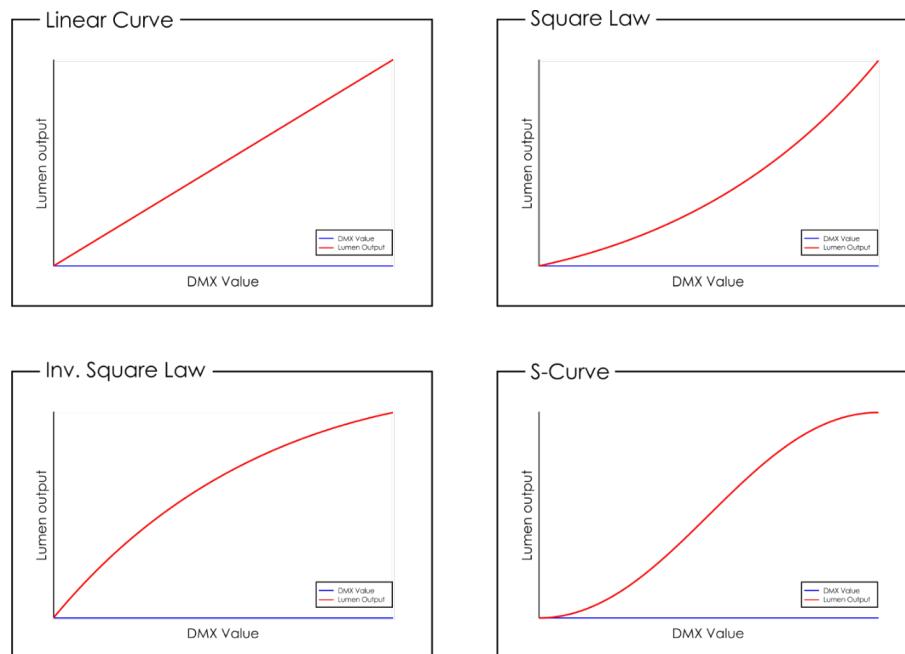
6.6.3. Fixture Settings

In this menu you can adjust the fixture settings.

01) Press the **UP/DOWN** buttons to select one of the following 3 options:



- Dimmer Curve: There are 4 options available: Linear, Square Law, Inverse Square Law and S-Curve

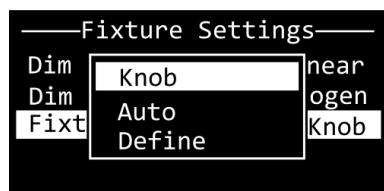


- Dimmer Speed: There are 2 options available: LED (instant dimming without delay) and Halogen (delayed dimming, imitating the behavior of a halogen lamp)
- Function Mode: Refer to the Function Mode section (see [6.6.3.1. Function Mode](#))

02) Press the **ENTER** button to confirm the selection.

6.6.3.1. Function Mode

In the Function Mode submenu you can select one of the following 3 options:



- Knob: Select this option to control the device with the **manual dimmer control (16)** and the **color select control (17)**. See Control Modes (see [6.2. Control Modes](#) on page 22) for more information
- Auto: Select the Auto feature so that the device will use the settings selected in the Static CCT submenu (see [6.6.2. Static CCT](#) on page 26) when there is no DMX control. The settings will be saved and applied even if the device is turned off and on again
- Define: Select the Define feature to manually control the device with the settings in the Static CCT submenu (see [6.6.2. Static CCT](#) on page 26)

6.6.4. Display Settings

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

01) Press the **UP/DOWN** buttons to select one of the following 3 options:

| —Display Settings— | | |
|--------------------|-----|--|
| Display Inverse | No | |
| Backlight Auto Off | Yes | |
| Display Contrast | 29 | |

- Display Inverse: The OLED display is rotated at 180° (Yes/No)
- Backlight Auto Off: The backlight of the OLED display does not turn off automatically after 30 seconds of inactivity (Yes/No)
- Display Contrast: The adjustment range is 01-30 (from low to high contrast)

02) Press the **ENTER** button to confirm the selection and open the pop-up submenu where you can adjust the settings.

03) Press the **UP/DOWN** buttons to select the desired setting.

04) Press the **ENTER** button to confirm the selection.

6.6.5. Manual

In this menu you can manually adjust the parameters of the device. The settings in this menu are applied when the Manual option is selected in the DMX Fail submenu (see [6.6.1.3. DMX Fail](#) on page 26).

01) Press the **UP/DOWN** buttons to select one of the 3 options:

| —Manual— | | |
|----------|-----|--|
| CW | 255 | |
| WW | 255 | |
| Strobe | 00 | |

- CW: Sets the intensity of the LED light source for Cold White colors as a value from 0 to 255
- WW: Sets the intensity of the LED light source for Warm White colors as a value from 0 to 255
- Strobe: Sets the strobe speed as a value from 0 to 15

02) Press the **ENTER** button to confirm the selection.

6.6.6. Fixture Information

In this menu you can view the UID, the LED operating hours and the firmware version of the device.

With the **UP/DOWN** buttons you can scroll through the following 3 options:

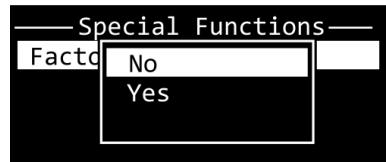
| —Fixture Information— | | |
|-----------------------|-----------------|--|
| UID: | 29B40DDFFFF | |
| Hours | 030 h | |
| Ver: | CPU-A V1.0 B1.0 | |

- UID: Shows the unique identification (UID) number of the device
- Hours: Shows the operating hours of the LED
- Version: Shows the current firmware version

6.6.7. Special Functions

In this menu you can reset the settings of the device to the default factory settings.

- 01) Press the **ENTER** button to open the pop-up submenu for the factory reset:



- 02) Press the **UP/DOWN** buttons to choose between No and Yes. If you choose Yes, the settings of the device will be reset to the default factory settings.
- 03) Press the **ENTER** button to confirm your choice.

6.7. DMX Channels

| RAW 2 CH | Basic 5 CH | Advanced 6 CH | Function | Value | Setting |
|-------------|---------------|---------------------|--------------------------|---------|--------------------------------------|
| 1 | 1 | 1 | Cool White Dimmer | 000–255 | From low to high intensity (0–100 %) |
| 2 | 2 | 2 | Warm White Dimmer | 000–255 | From low to high intensity (0–100 %) |
| | 3 | 3 | Master Dimmer | 000–255 | From low to high intensity (0–100 %) |
| | 4 | 4 | Strobe | 000–015 | No function |
| | | | | 016–255 | Strobe, from low to high frequency |
| | | | | 000–010 | No function |
| | | | | 011–021 | 2800 K |
| | | | | 022–032 | 3000 K |
| | | | | 033–043 | 3200 K |
| | | | | 044–054 | 3400 K |
| | | | | 055–065 | 3600 K |
| | | | | 066–076 | 3800 K |
| | | | | 077–087 | 4000 K |
| | | | | 088–098 | 4200 K |
| | | | | 099–109 | 4400 K |
| 5 | 5 | CCT Presets | | 110–120 | 4600 K |
| | | | | 121–131 | 4800 K |
| | | | | 132–142 | 5000 K |
| | | | | 143–153 | 5200 K |
| | | | | 154–164 | 5400 K |
| | | | | 165–175 | 5600 K |
| | | | | 176–186 | 5800 K |
| | | | | 187–197 | 6000 K |
| | | | | 198–208 | 6200 K |
| | | | | 209–219 | 6400 K |
| | | | | 220–255 | 6600 K |
| | | | | 000–020 | Linear |
| | | | | 021–040 | Square Law |
| | | Dimmer Curve | | 041–060 | Inverse Square Law |
| | | | | 061–080 | S-Curve |
| | | | | 081–255 | Default dimming curve (set via menu) |

6.8. RDM Information

This device supports RDM (see [6.8.2. Supported RDM PIDs \(Parameter IDs\)](#)).

6.8.1. RDM Details

- Responder ID: 29B4:0DDXXXXX
- Manufacturer's ID: Showtec (Highlite International B.V.)
- Manufacturer Label: Showtec
- Model Description: ACT Par 200W CW/WW
- Model ID: 221 (0DD hexadecimal)
- Device Label: ACT Par 200W CW/WW

Note:

An RDM responder ID consists of 3 parts:

- 1st part – 4 digits – Manufacturer's ID
- 2nd part – 3 digits – Model ID
- 3rd part – 5 digits – Unique ID

The RDM responder IDs of all products of Highlite International start with the same 4 digits. The first 7 digits of the RDM responder ID for each model are the same. The last 5 digits are different for each device.

6.8.2. Supported RDM PIDs (Parameter IDs)

| RDM Parameter ID | Value | Required | GET | SET |
|-----------------------------|--------|----------|-----|-----|
| SUPPORTED_PARAMETERS | 0x0050 | * | * | |
| DEVICE_MODEL_DESCRIPTION | 0x0080 | | * | |
| MANUFACTURER_LABEL | 0x0081 | | * | |
| DEVICE_LABEL | 0x0082 | | * | * |
| DMX_PERSONALITY | 0x00E0 | | * | * |
| DMX_PERSONALITY_DESCRIPTION | 0x00E1 | | * | |
| DMX_START_ADDRESS | 0x00F0 | * | * | * |
| DEVICE_HOURS | 0x0400 | | * | * |

7. Troubleshooting

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

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

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

| Problem | Probable cause(s) | Solution |
|--|--|--|
| The device does not function at all | No power to the device | <ul style="list-style-type: none"> Make sure that the device is connected to power supply and the cables are plugged in |
| | Main fuse is blown | <ul style="list-style-type: none"> Replace the fuse (see 8.3.1. Replacing the Fuse on page 34) |
| The device responds erratically | The factory settings of the device are changed | <ul style="list-style-type: none"> Reset the parameters of the device to the default factory settings (see 6.6.7. Special Functions on page 29) |
| | The controller is not connected | <ul style="list-style-type: none"> Connect the controller |
| The device does not respond to DMX control | The signal is reversed. The 3-pin/5-pin DMX OUT of the controller does not match the DMX IN of the device | <ul style="list-style-type: none"> Install a phase-reversing cable between the controller and the device |
| | The controller is defective | <ul style="list-style-type: none"> Try using another controller |
| The device responds erratically to DMX control | Connections are defective | <ul style="list-style-type: none"> Examine connections and cables. Correct defective connections. Repair or replace damaged cables |
| | The data link is not terminated with a 120 Ω termination plug | <ul style="list-style-type: none"> Insert a termination plug in the DMX OUT connector of the last device on the link |
| No light or LEDs cut out intermittently | Incorrect addressing | <ul style="list-style-type: none"> Make sure that the address settings are correct |
| | In case of a setup with multiple devices, one of the devices is defective and disturbs data transmission on the link | <ul style="list-style-type: none"> To find out the defective device, bypass one device at a time until normal operation is restored |
| | LEDs are damaged | <ul style="list-style-type: none"> Disconnect the device and contact your Highlite International dealer |
| | The input power parameters of the device do not match the local AC voltage and frequency | <ul style="list-style-type: none"> Disconnect the device. Make sure that the local current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device |

8. Maintenance

8.1. Safety Instructions for Maintenance

**DANGER****Electric shock caused by dangerous voltage inside**

Disconnect power supply before servicing or cleaning.

8.2. 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, fixings and installation points.
- The lens is not cracked or damaged.
- The power cables are not damaged and do not show any material fatigue.

8.2.1. 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.

8.3. 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.

8.3.1. Replacing the Fuse



DANGER

Electric shock caused by short-circuit

- Do not bypass the thermostatic switch or fuses.
- Replace fuses only with the same type and rating.

Power surges, short-circuit or incorrect electrical power supply may cause a fuse to burn out. If the fuse burns out, the device will not function anymore. If this happens, 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) Loosen the fuse cover with a screwdriver and remove the fuse holder.
- 04) If the fuse is brown or unclear, it is burned out. Remove the old fuse.
- 05) Insert a new fuse in the fuse holder. Make sure that the type and the rating of the replacement fuse are the same as the ones specified on the information label of the product.
- 06) Replace the fuse holder in the opening and tighten the fuse cover.

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 (see [8.2.1. 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



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



Showtec is a brand of Highlite International B.V.