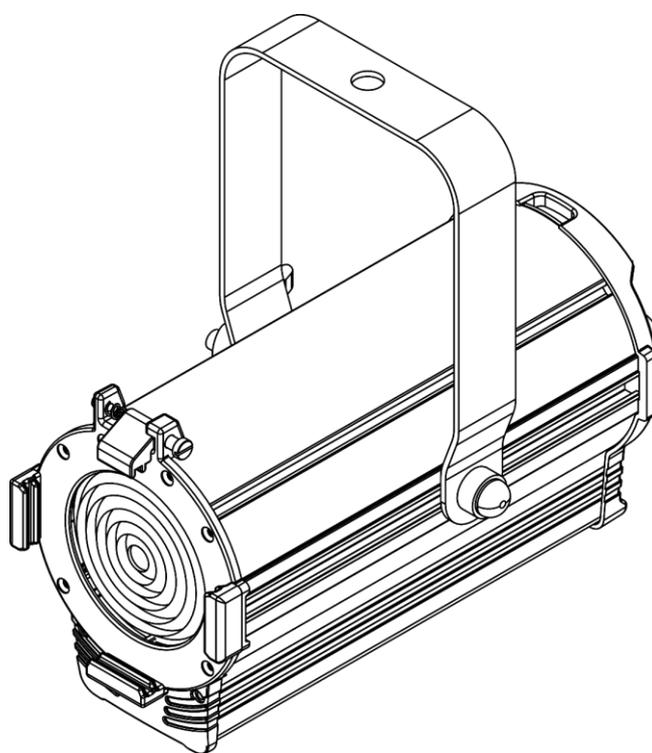




**MANUAL**



**ENGLISH**

**ACT Fresnel 50 WW**

**V1**

**Order code: 34011**

**Table of contents**

<b>Warning</b> .....	2
Safety Instructions .....	2
Operating Determinations .....	4
Rigging .....	5
Angle Adjustment .....	5
Connection with the Mains.....	6
Return Procedure.....	6
Claims.....	6
 <b>Description of the Device</b> .....	7
Features .....	7
Overview .....	7
 <b>Installation</b> .....	9
 <b>Setup and Operation</b> .....	9
Multiple Fixtures Power Linking .....	9
Beam Angle Adjustment .....	9
Barndoor Installation .....	10
Color Frame Installation.....	10
Control Modes.....	11
One ACT Fresnel (Manual Control) .....	11
Multiple ACT Fresnels (DMX Control) .....	12
Fixture Linking.....	13
Data Cabling.....	13
Control Panel.....	14
DMX Addressing.....	14
Main Menu Overview.....	15
Start-up.....	16
Main Menu Options.....	16
1. DMX Functions.....	16
1.1 DMX Address .....	17
1.2 DMX Channel Mode .....	17
1.3 DMX Fail.....	17
1.4 View DMX Value .....	17
2. Manual Settings .....	18
3. Fixture Settings.....	18
4. Display Settings .....	19
5. Fixture Test .....	19
5.1 Manually Defined.....	19
6. Fixture Information.....	20
7. Special Functions.....	20
DMX Channels .....	21
1 Channel.....	21
2 Channels .....	21
 <b>Maintenance</b> .....	22
Replacing the Fuse.....	22
 <b>Troubleshooting</b> .....	22
No Light.....	22
No Response to DMX.....	22
 <b>Product Specifications</b> .....	24
 <b>Dimensions</b> .....	25

## Warning



**For your own safety, please read this user manual carefully  
before your initial start-up!**

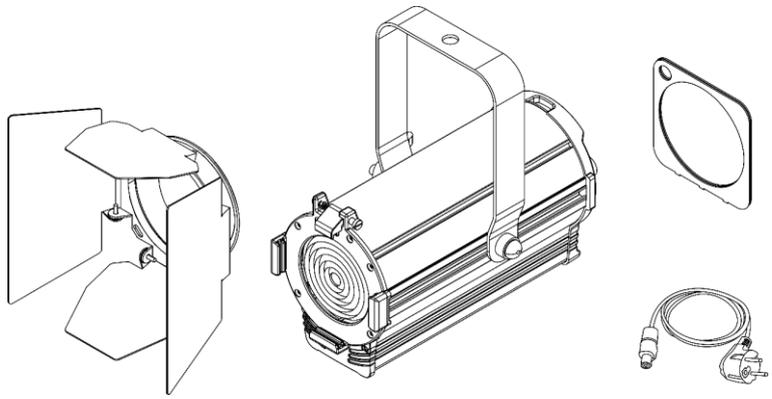


## Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture will be returned in the original factory box and packing.

### Your shipment includes:

- Showtec ACT Fresnel 50 WW
- Barndoor
- Color frame
- Schuko to pro-power cable (1,5 m)
- User manual



## LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason, when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. If improving the lifespan is of higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.



### **CAUTION!**

**Keep this device away from rain and moisture!  
Unplug mains lead before opening the housing!**



## Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual



**CAUTION! Be careful with your operations.  
With a dangerous voltage you can suffer  
a dangerous electric shock when touching the wires!**



Before the initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes contained in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

**IMPORTANT:**

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

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never modify, bend, mechanically strain, put pressure on, pull or heat up the power cord.
- Never strain the cable insert. There must always be sufficient cable going to the device. Otherwise, the cable will be damaged, which can cause serious damage.
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never place any material over the lens.
- Never look directly into the light source.
- Never leave any cables lying around.
- Do not connect this device to a dimmer pack.
- Do not switch the device on and off in short intervals, as this will reduce the device's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot). Allow the fixture to cool for at least 5 minutes before handling.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use the device indoors, avoid contact with water or other liquids.
- Only operate the fixture after having checked if the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always keep the covers closed while operating.
- Always allow free space of at least 0,5 m around the unit for ventilation.
- Always disconnect power from the mains when device is not used or before cleaning! Only handle the power cord holding it by the plug. Never pull out the plug by tugging the power cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power cord is never crimped or damaged. Check the device and the power cord from time to time.
- If the lens is obviously damaged, it has to be replaced to prevent its functions from being impaired, due to cracks or deep scratches.
- If device was dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water may damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue the use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. The device must be installed beyond the reach of children. Never leave the unit running unattended.
- Never attempt to bypass the thermostatic switch or fuses.
- For replacement use fuses of same type and rating only.
- The user is responsible for correct positioning and operating of the device. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.

- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.



### Operating Determinations

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The minimum distance between light output and the illuminated surface must be bigger than 1 m.
- In order to eliminate wear and improve the device's lifespan, during periods of non-use, completely disconnect from power source via breaker or by unplugging.
- The maximum ambient temperature  $t_a = 40\text{ °C}$  must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40 °C.
- If this device is operated in any other way than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short circuit, burns, electric shock, crash, etc.

*You endanger your own safety and the safety of others!*

## Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

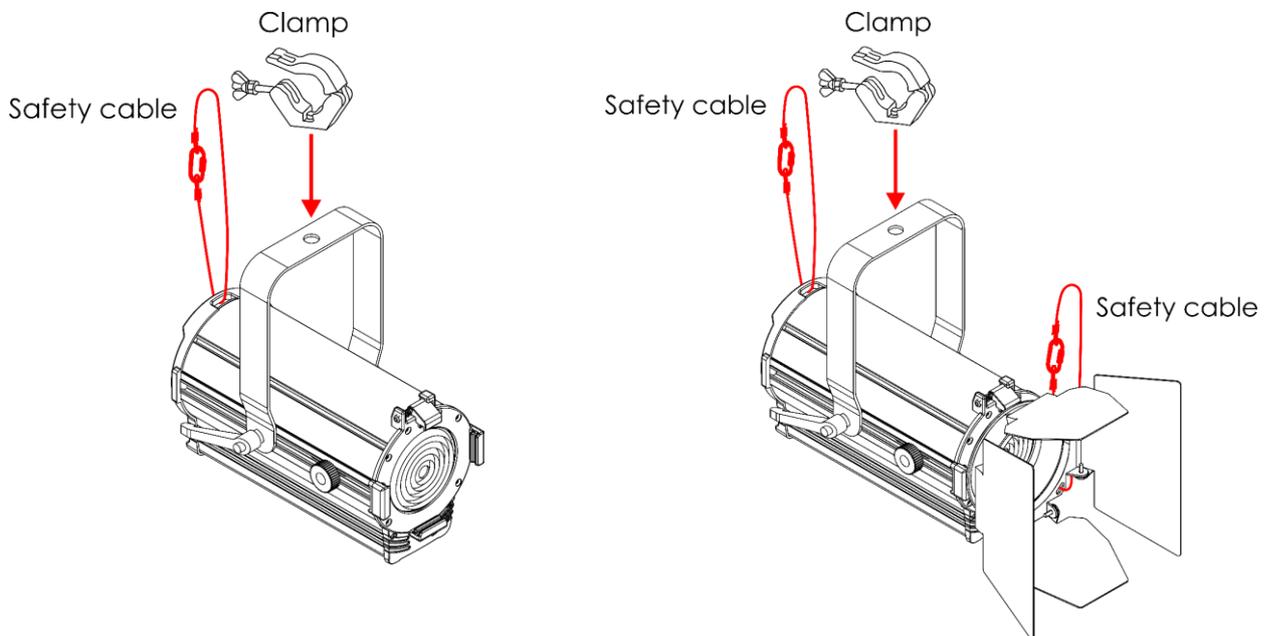
Do not attempt the installation yourself!

Always let the installation be carried out by an authorized dealer!

### Procedure:

- If the device is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the device with the mounting bracket to the trussing system.
- The device must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety cable.
- If the barndoor or the color filter is installed, it must be secured with a safety cable.
- When rigging, derigging or servicing the device, always make sure, that the area below the installation site is secured and that there are not any unauthorized people around.

Improper installation can cause serious injuries and/or damage of property!



### Angle Adjustment

You can adjust the angle of the device with the **adjustment handle (06)**.

- 01) Turn the **adjustment handle (06)** counterclockwise to release it.
- 02) Tilt the device at the desired angle (see Fig. 01).
- 03) Turn the **adjustment handle (06)** clockwise to tighten it. Make sure that the device cannot move freely after the **adjustment handle (06)** is tightened.

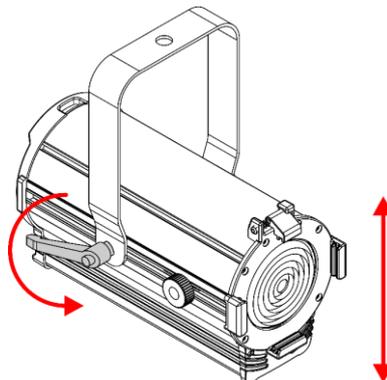


Fig. 01

**Connection with the Mains**

Connect the device to the mains with the power plug.  
Always check if the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

*Make sure that the device is always properly connected to the earth!*

*Improper installation can cause serious injuries and/or damage of property!*



**Return Procedure**



Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail [offersales@highlite.com](mailto:offersales@highlite.com) and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

**Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:**

- 01) Your name
- 02) Your address
- 03) Your phone number
- 04) A brief description of the symptoms

**Claims**

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to report and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless agreed otherwise in writing.

Complaints against us must be prepared in writing or sent by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement from which the obligation is resulting.

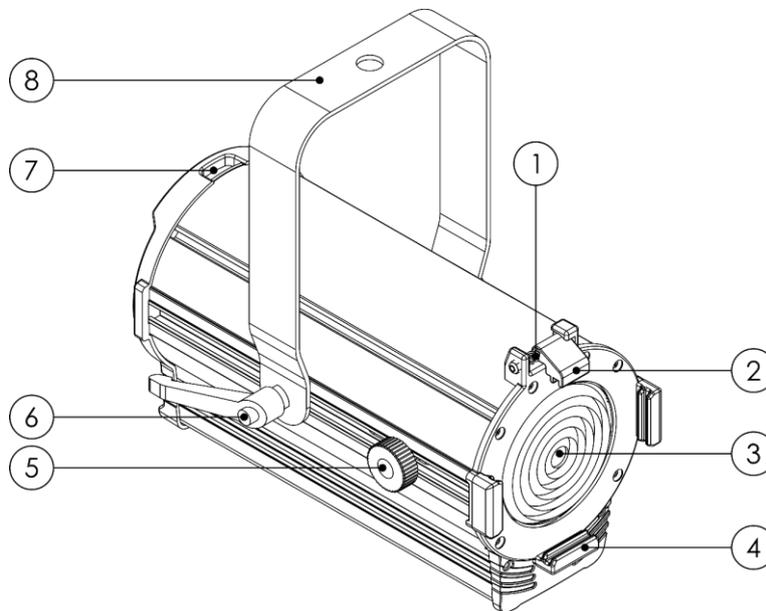
## Description of the Device

### Features

The Showtec ACT Fresnel 50 WW is a compact theater spot suitable for galleries, museums, exhibition halls, and theaters, where high CRI performance is essential. The device is equipped with a high quality molded-glass Fresnel lens.

- Input voltage: 100–240 V AC, 50/60 Hz
- Power consumption: 57 W
- Light source: 1 x 50 W Warm White COB LED
- Beam angle: 10°–58° (manual adjustment)
- Output: 10° – 3430 lx @ 2 m  
58° – 402 lx @ 2 m
- Color temperature: 3200 K
- Light quality: CRI 98
- Dimmer: 0–100 %
- Strobe effect: Yes
- Zoom: Manual
- Connections: Pro-power connectors IN/OUT, 3-pin DMX signal connectors IN/OUT
- DMX channels: 1- and 2-channel mode
- Control: DMX, Manual
- Display: OLED
- Housing: Extruded aluminum
- Color: Black
- Cooling: Internal fan
- IP Rating: IP20
- Fuse: T1 AL/250 V AC
- Dimensions: 245 x 165 x 239 mm (L x W x H) (without accessories)
- Weight: 1,8 kg (without accessories)

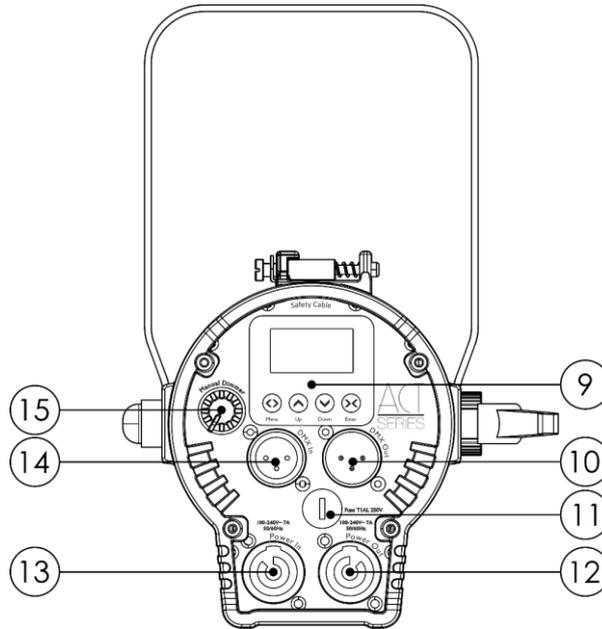
### Overview



**Fig. 02**

- 01) Spring-loaded screw
- 02) Color frame clip
- 03) Fresnel lens
- 04) 3 x Color frame holders
- 05) Zoom control
- 06) Adjustment handle
- 07) Safety eye
- 08) Mounting bracket

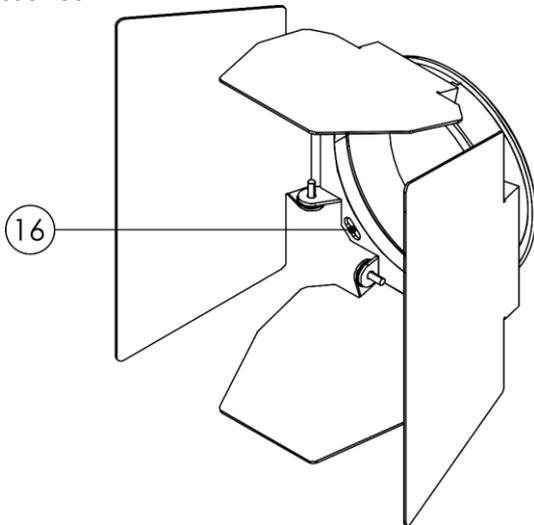
**Backside**



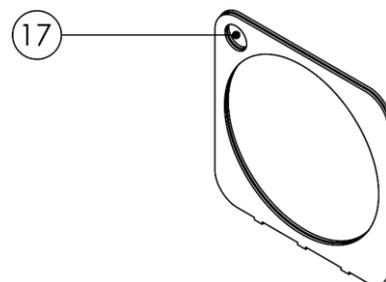
**Fig. 03**

- 09) Control panel: OLED display and control buttons
- 10) 3-pin DMX signal connector OUT
- 11) Fuse T1 AL/250 V AC
- 12) Pro-power connector OUT 100–240 V, 7A, 50/60 Hz (Gray)
- 13) Pro-power connector IN 100–240 V, 7A, 50/60 Hz (Blue)
- 14) 3-pin DMX signal connector IN
- 15) Manual dimmer control

**Accessories**



**Fig. 04**



**Fig. 05**

- 16) Safety eye – barndoor
- 17) Safety eye – color frame

## Installation

Remove all packing materials from the ACT Fresnel 50 WW. Check if all foam and plastic padding is removed. Connect all cables.

**Do not supply power before the whole system is set up and connected properly.**

**Always disconnect from electric mains power supply before cleaning or servicing.**

**Damages caused by non-observance are not subject to warranty.**

## Setup and Operation

Follow the directions below, as they pertain to your preferred operation mode.

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120 V specification product on 230 V power, or vice versa.

Connect the device to the main power supply.

### Multiple Fixtures Power Linking

The ACT Fresnel 50 WW 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.

To link fixtures in a chain, a hard usage cable with appropriate cable jacket must be used. Power linking cables are available for purchase from Highlife International.

To prevent power overload and damage to the fixture, do not link more fixtures in one chain than recommended. After you have reached the maximum number of fixtures, use a new power outlet.



Maximum recommended number of fixtures on a power link @ 110 V: 10 fixtures

Maximum recommended number of fixtures on a power link @ 240 V: 15 fixtures

### Beam Angle Adjustment

The beam angle of the ACT Fresnel 50 WW can be adjusted manually in the range 10°–58°. To adjust the beam angle, follow the steps below:

- 01) Turn the **zoom control (05)** counterclockwise to loosen it.
- 02) Slide the **zoom control (05)** forwards or backwards to achieve the desired beam angle (see Fig. 06).
- 03) After adjusting the beam angle, turn the **zoom control (05)** clockwise to tighten it. Do not overtighten it.

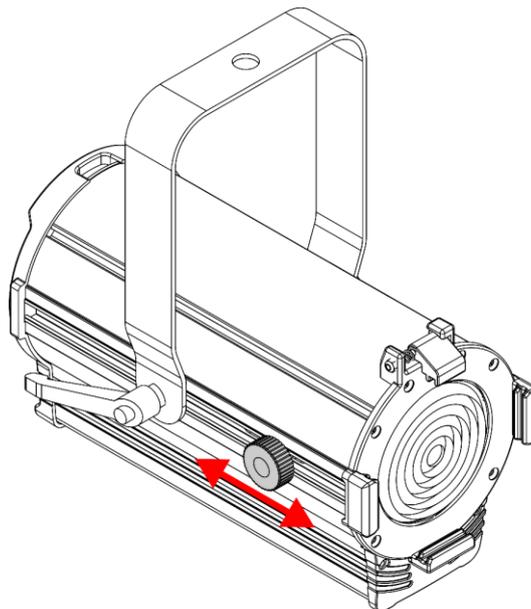


Fig. 06

### Barndoor Installation

The ACT Fresnel 50 WW is delivered with a barndoor. To install the barndoor, follow the steps below:

- 01) Push the **spring-loaded screw (01)** and at the same time lift the **color frame clip (02)** and flip it backwards (see Fig. 07).
- 02) Insert the barndoor into the **color frame holders (04)** (see Fig. 08).
- 03) Pull the **color frame clip (02)** downwards to release the **spring-loaded screw (01)** (see Fig. 09). The barndoor will be locked in position.
- 04) Secure the barndoor to the trussing with an appropriate secondary attachment, for example a safety cable. See **Rigging** on page 5.

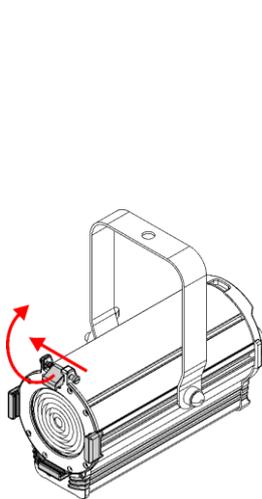


Fig. 07

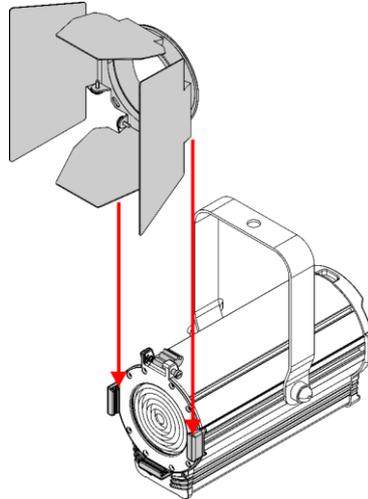


Fig. 08

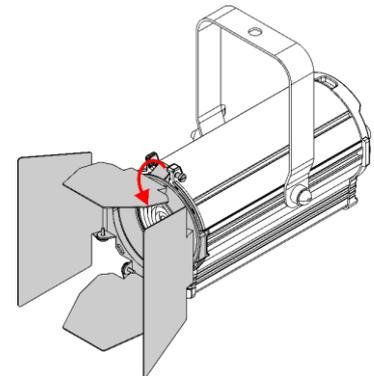


Fig. 09



**Make sure that the barndoor is locked in position with the color frame clip before using the ACT Fresnel 50 WW.**



### Color Frame Installation

The ACT Fresnel 50 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) Push the **spring-loaded screw (01)** and at the same time lift the **color frame clip (02)** and flip it backwards (see Fig. 10).
- 02) Insert a color gel or a diffusion filter into the color frame.
- 03) Insert the color frame into the **color frame holders (04)** (see Fig. 11).
- 04) Pull the **color frame clip (02)** downwards to release the **spring-loaded screw (01)** (see Fig. 12). The color frame will be locked in position.
- 05) Secure the color frame to the trussing with an appropriate secondary attachment, for example a safety cable. See **Rigging** on page 5.

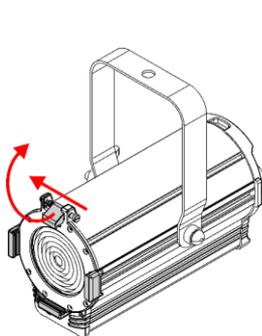


Fig. 10

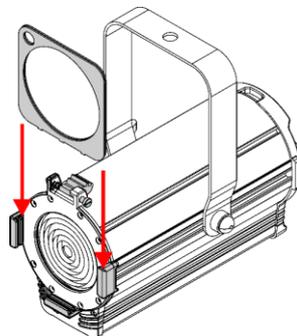


Fig. 11

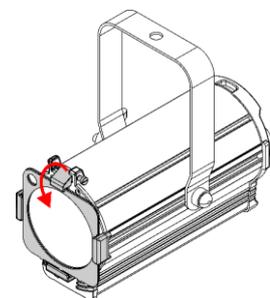


Fig. 12



**Make sure that the color frame is locked in position with the color frame clip before using the ACT Fresnel 50 WW.**



## Control Modes

- There are 2 modes:
- Manual control
  - DMX-512 (1CH, 2CH)

### One ACT Fresnel (Manual Control)

- 01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 02) Secure the device with a safety cable (order code 70140 / 70141).
- 03) Plug the end of the electric mains power cord into a proper electric power supply socket.

When the ACT Fresnel is not connected with a DMX cable, it functions as a stand-alone device. It can be controlled via the manual dimmer control or the menu settings.

### Manual control via the manual dimmer control

- 01) Select the option Rotary Knob in the **Manual Settings** menu. Refer to **2. Manual Settings** on page 18 for more information.
- 02) Exit the submenu and return to the start screen. The start screen shows now the following:



- 03) Turn the **manual dimmer control (15)** to adjust the intensity of the light. The adjustment range is between 0 and 255 (from 0 to 100 %). The current value of the dimmer is displayed on the screen.

**Note:** If you do not return to the start screen you cannot adjust the dimmer. The **manual dimmer control (15)** is not functional, if you do not exit the menu and return to the start screen.

**Note:** In this mode you can control only the intensity of the light. It is not possible to add a strobe effect.

### Manual control via the menu settings

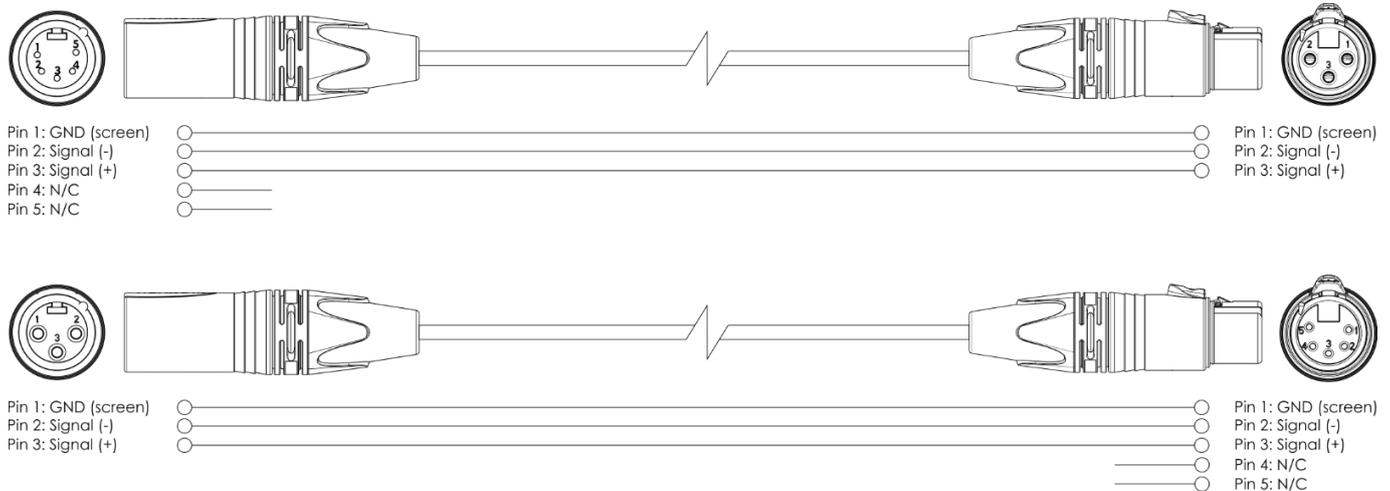
- 01) Select the option Manually Defined in the **Manual Settings** menu. Refer to **2. Manual Settings** on page 18 for more information.
- 02) Select values for the Dimmer and the Strobe in the **Fixture Test** menu. Refer to **5.1 Manually Defined** on page 19 for more information.
- 03) Exit the submenu and return to the start screen to activate the manual settings. The start screen shows now the following:



**Note:** If you do not return to the start screen, the manual settings will not be activated.

**Multiple ACT Fresnels (DMX Control)**

- 01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 02) Secure the device with a safety cable (order code 70140 / 70141).
- 03) Use a 3-pin DMX cable to connect the ACT Fresnel and other devices.



- 04) Link the units as shown in Fig. 13. Connect a light controller to the first unit's DMX "in" socket, using a DMX cable. Connect the first unit's "out" socket with the second unit's "in" socket, using a DMX cable. Repeat this process to link the rest of the units.
- 05) Supply electric power: Plug electric mains power cords into each unit's power IN socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.
- 06) Refer to **1. DMX Functions** on pages 16–17 for more information about the DMX settings.

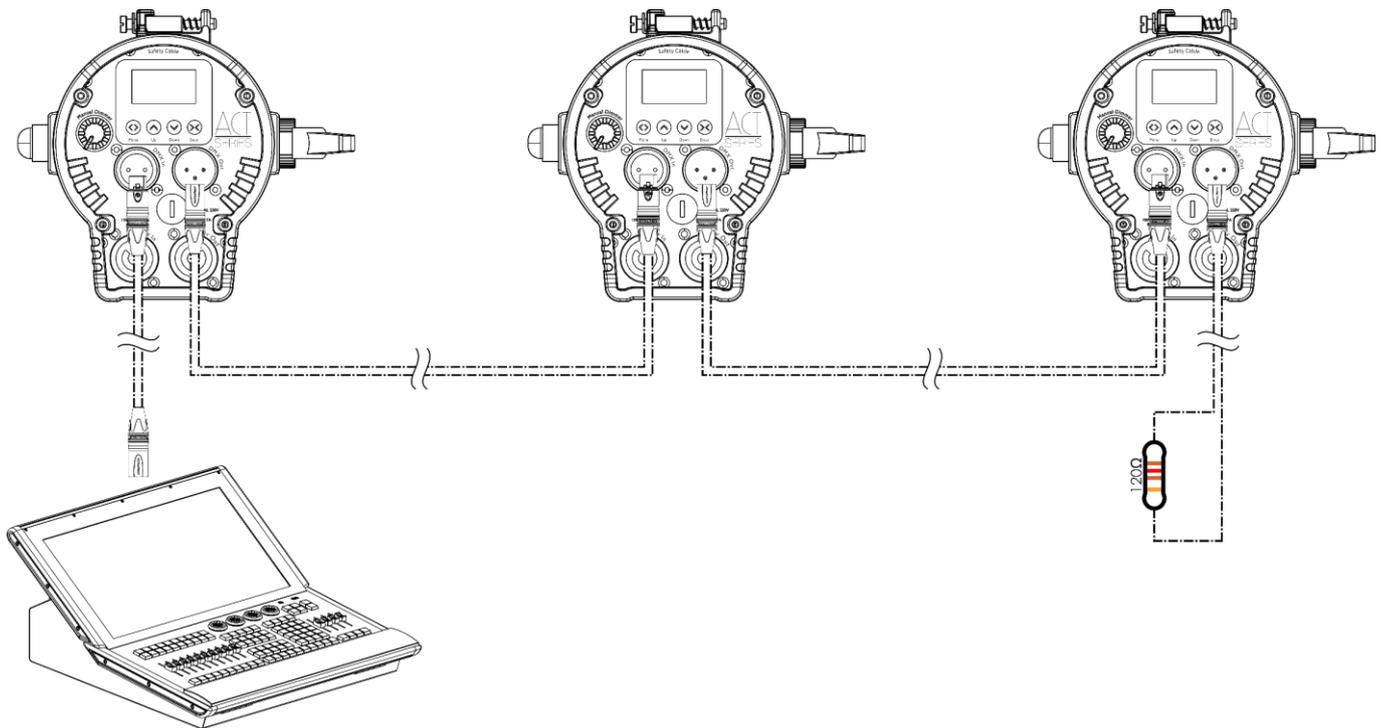


Fig. 13

**Note: Link all cables before connecting electric power**

## Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

**Important:** Fixtures on a serial data link must be daisy-chained in a single line. To comply with the EIA-485 standard, no more than 30 devices should be connected on one data link. Connecting more than 30 fixtures on one serial data link without the use of an optically isolated DMX splitter may result in deterioration of the digital DMX signal.



Maximum recommended DMX data link distance: 100 meters  
Maximum recommended number of fixtures on a DMX data link: 30 fixtures

## Data Cabling

To link fixtures together, you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable, please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

### DAP Audio DMX Data Cables

- DAP Audio 110 Ohm cable with digital signal transmission. **Order code** FL0975 (0,75 m), FL09150 (1,5 m), FL093 (3 m), FL096 (6 m), FL0910 (10 m), FL0915 (15 m), FL0920 (20 m).
- DAP Audio DMX Terminator 3-pin. **Order code** FLA42.

**Note:** Use of 3-pin XLR audio cables for DMX data transmission might lead to signal degradation and unreliable operation of the DMX network.

Control Panel

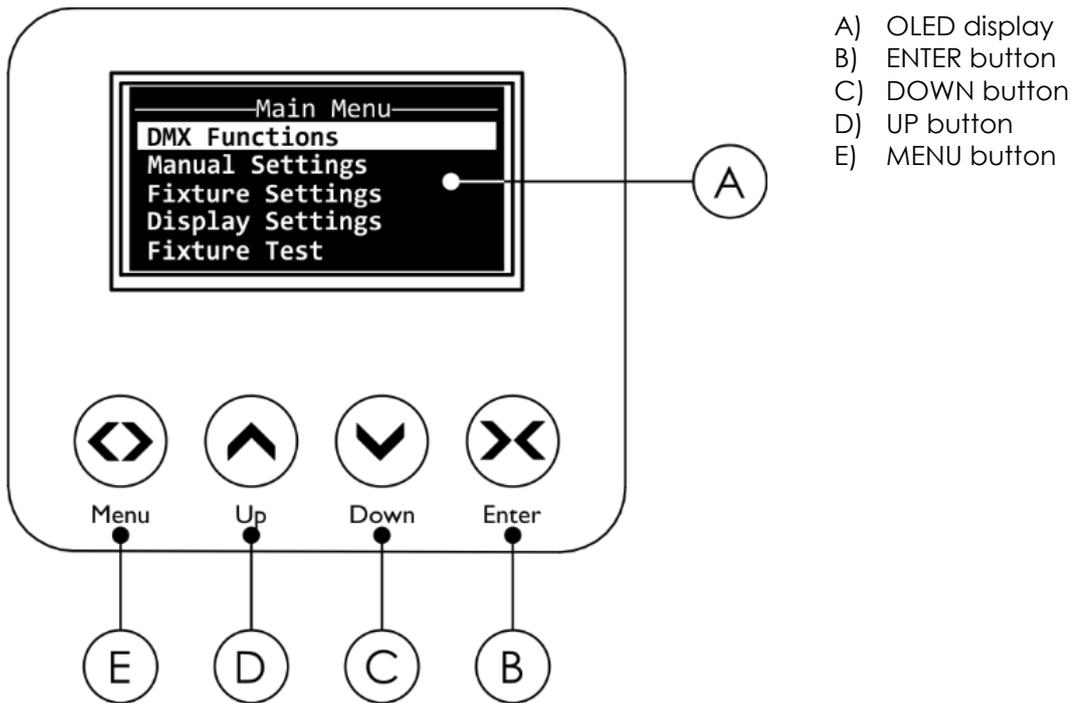


Fig. 14

**DMX Addressing**

The control panel on the back side of the fixture allows you to assign the fixture a DMX address, which is the first channel with which the ACT Fresnel will respond to a DMX controller. When using multiple ACT Fresnels, make sure you set the DMX addresses right. The device has **2** channels. Therefore, the DMX address of the first ACT Fresnel should be **1 (001)**; the DMX address of the second ACT Fresnel should be **1+2=3 (003)**; the DMX address of the third ACT Fresnel should be **3+2=5 (005)**, etc. Make sure that you do not have any overlapping channels in order to control each ACT Fresnel correctly. If two or more ACT Fresnels are addressed similarly, they will work similarly.

**Controlling:**

After having addressed all ACT Fresnels, you may now start operating these via your lighting controller.

After switching on, the ACT Fresnel will automatically detect whether DMX 512-data is received or not. If there is no data received at the DMX input, the problem may be:

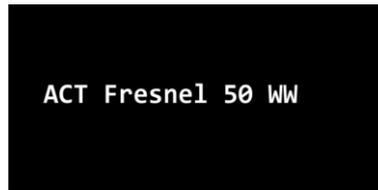
- The DMX cable from the controller is not connected with the input of the ACT Fresnel.
- The controller is switched off or defective, the cable or connector is defective, or the signal wires are swapped in the input connector.

**Note:** It is necessary to insert a termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

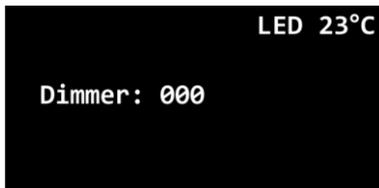


## Start-up

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



Immediately afterwards, the display will show the start screen. The start screen provides information about the current control mode of the device and the temperature of the LEDs.



Manual mode via the manual dimmer control



Manual mode via the menu



DMX mode

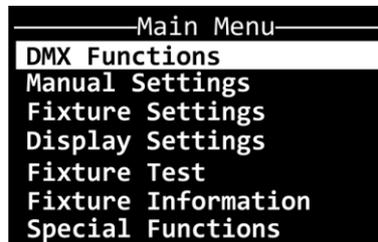
- Use the **MENU** button to exit the current submenu, to return to the Main Menu or to return to the start screen.
- Use the **UP/DOWN** buttons to navigate through the menus or to increase/decrease numeric values.
- Use the **ENTER** button to open the desired menu, to confirm your choice or to set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

### 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 **4. Display Settings** on page 19 for more information.

## Main Menu Options

The main menu has the following options:

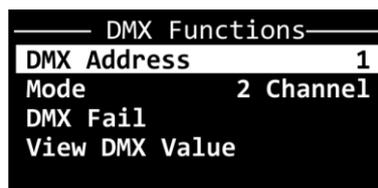


- 01) Press the **UP/DOWN** buttons to navigate through the Main Menu.
- 02) Press the **ENTER** button to open the menus.

### 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:

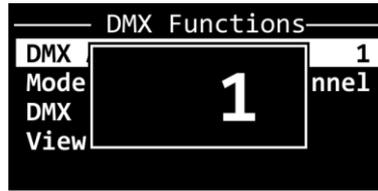


- 02) Press the **ENTER** button to confirm your choice.

**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 between 1 and 512.

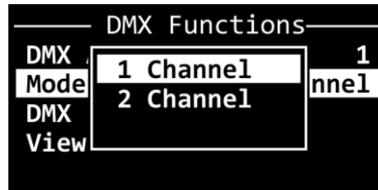


02) Press the **ENTER** button to confirm the selection.

**1.2 DMX Channel Mode**

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

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



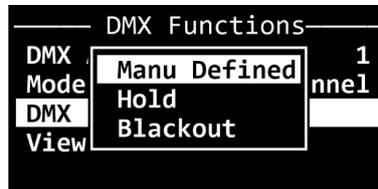
- 1 Channel
- 2 Channel

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

**1.3 DMX Fail**

In this pop-up submenu you can determine the behavior of the device in case of a DMX signal failure.

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

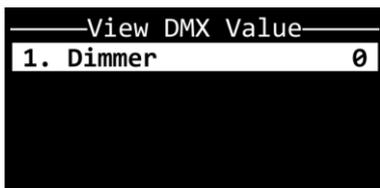


- Manually Defined: The device will use the dimmer value selected with the **manual dimmer control (15)** in manual mode. Refer to **One ACT Fresnel (Manual Control)** on page 11 for more information
- Hold: The device will use the last properly received DMX signal
- Blackout: The device will black out the light output

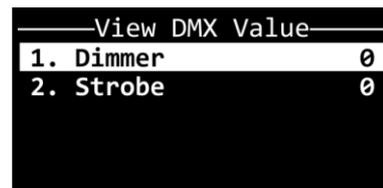
02) Press the **ENTER** button to confirm your choice.

**1.4 View DMX Value**

In this submenu you can view the currently selected DMX value for each DMX channel. If you have selected 1-channel DMX mode, only the Dimmer value will be visible on the screen. If you have selected 2-channel DMX mode, both the Dimmer and the Strobe values will be visible on the screen.



1-channel DMX mode

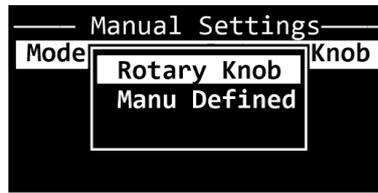


2-channel DMX mode

## 2. Manual Settings

In this menu you can select how the device will be operated manually.

- 01) Press the **ENTER** button to open the pop-up submenu for the manual mode settings.
- 02) Press the **UP/DOWN** buttons to select one of the following 2 options:



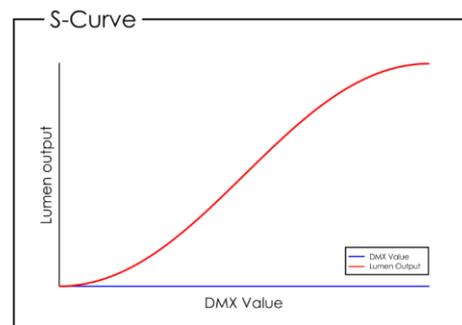
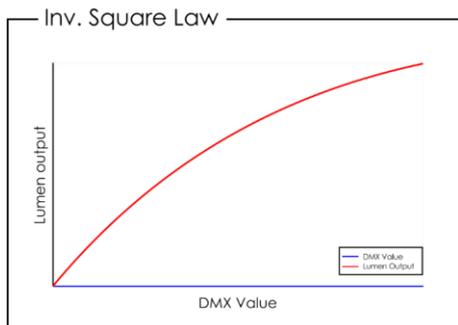
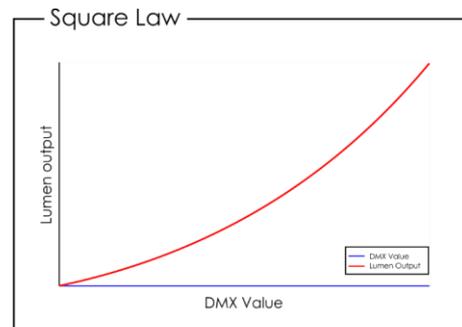
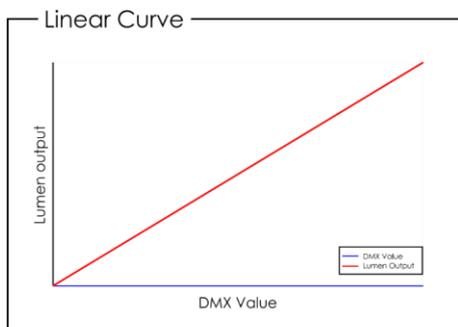
- Rotary Knob: The dimming of the light output is controlled manually with the **manual dimmer control (15)**. Refer to **One ACT Fresnel (Manual Control)** on page 11 for more information
  - Manually Defined: The dimming of the light output is controlled manually via the menu. Refer to **One ACT Fresnel (Manual Control)** on page 11 for more information
- 03) Press the **ENTER** button to confirm your choice.

## 3. Fixture Settings

In this menu you can adjust the fixture settings.

- 01) Press the **UP/DOWN** buttons to toggle between Dimmer Curve and Dimmer Speed.

- 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)
- 02) Press the **ENTER** button to confirm your choice.

**4. Display Settings**

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

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



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.

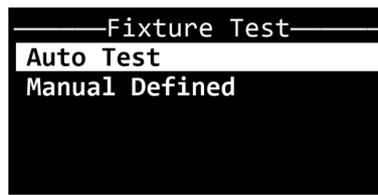
The available options are:

- Display Inverse: The OLED display will be rotated at 180° (NO/YES)
- Backlight Auto Off: The backlight of the OLED display will not turn off automatically after 30 seconds of inactivity (NO/YES)
- Display Contrast: The adjustment range is between 0 and 30 (from low to high contrast)

**5. Fixture Test**

In this menu you can perform test of the device's parameters and adjust manually the dimmer and strobe values.

01) Press the **UP/DOWN** buttons to select one of the following 2 options:



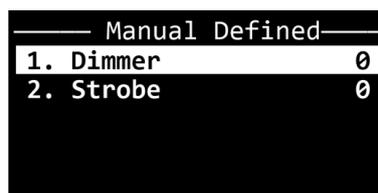
- Auto Test: The device performs an auto test of its parameters.
- Manually Defined: See **5.1 Manually Defined** for more information

02) Press the **ENTER** button to confirm your choice.

**5.1 Manually Defined**

In this submenu you can manually adjust the dimmer and strobe values.

01) Press the **UP/DOWN** buttons to toggle between Dimmer and Strobe:



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

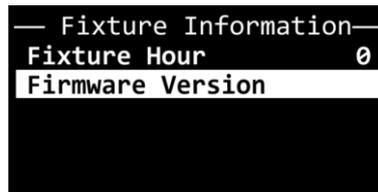
03) Press the **UP/DOWN** buttons to adjust the values. The adjustment range is between 0 and 255.

04) Press the **ENTER** button to confirm your choice.

**6. Fixture Information**

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

01) Press the **UP/DOWN** buttons to select one of the following 2 options:



- Fixture Hour: Provides information about the total hours of operation of the LEDs
- Firmware Version: Shows the current firmware version

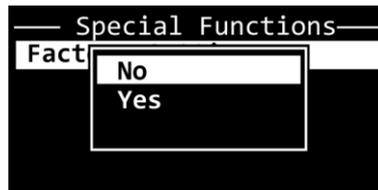


02) Press the **ENTER** button to confirm the selection and view the information.

**7. Special Functions**

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

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



02) Press the **UP/DOWN** buttons to choose between NO and YES. If you choose YES, the device's settings will be reset to the default factory settings.

03) Press the **ENTER** button to confirm your choice.

## DMX Channels

### 1 Channel

#### Channel 1 – Dimmer

0–255 Gradual adjustment of the brightness, from low to high intensity (0–100 %)

### 2 Channels

#### Channel 1 – Dimmer ⚠ CH2 must be open ⚠

0–255 Gradual adjustment of the brightness, from low to high intensity (0–100 %)

#### Channel 2 – Strobe

0–19	Closed/Blackout
20–24	No strobe
25–64	Strobe, from high to low frequency
65–69	No strobe
70–84	Strobe, fast close/slow open, from high to low frequency
85–89	No strobe
90–104	Strobe, slow close/fast open, from high to low frequency
105–109	No strobe
110–124	Random strobe, from high to low frequency
125–129	No strobe
130–144	Random strobe, fast close/slow open, from high to low frequency
145–149	No strobe
150–164	Random strobe, slow close/fast open, from high to low frequency
165–169	No strobe
170–184	Pulse strobe, from high to low frequency
185–189	No strobe
190–204	Random pulse strobe, from high to low frequency
205–209	No strobe
210–224	Strobe, slow close/slow open, from high to low frequency
225–229	No strobe
230–244	Burst strobe, from high to low frequency
245–255	No strobe

## Maintenance

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The operator has to make sure that safety-related and machine-technical installations are to be inspected by an expert after every year in the course of an acceptance test.

The following points have to be considered during the inspection:

- 01) All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
- 02) There may not be any deformations on housings, fixations and installation spots.
- 03) Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
- 04) The electric power supply cables must not show any damages or material fatigue.

The ACT Fresnel 50 WW requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light output will be significantly reduced. Disconnect the mains power supply and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.

The front lens will require weekly cleaning, as smoke fluid tends to build up residues, reducing the light output very quickly.

Keep connections clean. Disconnect electric power, and then wipe the DMX connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

## Replacing the Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below:

- 01) Unplug the unit from electric power source.
- 02) Insert a screwdriver into the slot of the fuse cover. Turn the fuse holder counterclockwise. The fuse holder will come out.
- 03) Remove the used fuse. If brown or unclear, it is burned out.
- 04) Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

## Troubleshooting

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This troubleshooting guide is meant to help solve simple problems.

If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

### No Light

If the light effect does not operate properly, refer servicing to a technician.

Suspect three potential problem areas as: the power supply, the LED, the fuse.

- 01) Power supply. Check if the unit is plugged into an appropriate power supply.
- 02) The LED. Return the device to your Showtec dealer.
- 03) The fuse. Replace the fuse. See page 22 for replacing the fuse.
- 04) If all of the above appears to be O.K., plug the unit in again.
- 05) If you are unable to determine the cause of the problem, do not open the device, as this may damage the unit and the warranty will become void.
- 06) Return the device to your Showtec dealer.

### No Response to DMX

Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

- 01) Check the DMX settings. Make sure that DMX addresses are correct.
- 02) Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
- 03) Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

<b>Problem</b>	<b>Probable cause(s)</b>	<b>Solution</b>
One or more fixtures do not function at all	No power to the fixture	<ul style="list-style-type: none"> <li>• Check if power is switched on and cables are plugged in</li> </ul>
	Primary fuse blown	<ul style="list-style-type: none"> <li>• Replace fuse</li> </ul>
Fixtures reset correctly, but all respond erratically or not at all to the controller	The controller is not connected	<ul style="list-style-type: none"> <li>• Connect controller</li> </ul>
	3-pin DMX OUT of the controller does not match DMX IN of the first fixture on the link (i.e. signal is reversed)	<ul style="list-style-type: none"> <li>• Install a phase reversing cable between the controller and the first fixture on the link</li> </ul>
Fixtures reset correctly, but some respond erratically or not at all to the controller	Poor data quality	<ul style="list-style-type: none"> <li>• Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link</li> </ul>
	Bad data link connection	<ul style="list-style-type: none"> <li>• Inspect connections and cables. Correct poor connections. Repair or replace damaged cables</li> </ul>
	Data link not terminated with 120 Ohm termination plug	<ul style="list-style-type: none"> <li>• Insert termination plug in the DMX OUT connector of the last fixture on the link</li> </ul>
	Incorrect addressing of the fixtures	<ul style="list-style-type: none"> <li>• Check address settings</li> </ul>
	One of the fixtures is defective and disturbs data transmission on the link	<ul style="list-style-type: none"> <li>• Bypass one fixture at a time until normal operation is restored: unplug both connectors and connect them directly together</li> <li>• Have the defective fixture serviced by a qualified technician</li> </ul>
	3-pin DMX OUT on the fixtures does not match (pins 2 and 3 reversed)	<ul style="list-style-type: none"> <li>• Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture that behaves erratically</li> </ul>
No light or LEDs cut out intermittently	Fixture is too hot	<ul style="list-style-type: none"> <li>• Allow the fixture to cool down</li> <li>• Turn up the air conditioning</li> </ul>
	LEDs are damaged	<ul style="list-style-type: none"> <li>• Disconnect the fixture and return it to your dealer</li> </ul>
	The power supply settings do not match local AC voltage and frequency	<ul style="list-style-type: none"> <li>• Disconnect fixture. Check settings and correct if necessary</li> </ul>

## Product Specifications

Model:	Showtec ACT Fresnel 50 WW
Input voltage:	100–240 V AC, 50/60 Hz
Power consumption:	57 W
Fuse:	T1 AL/250 V AC
Dimensions:	245 x 165 x 239 mm (L x W x H) (without accessories)
Weight:	1,8 kg (without accessories)
<b>Operating and Programming:</b>	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX mode:	1 and 2 Channels
Signal input:	3-pin DMX signal connector IN
Signal output:	3-pin DMX signal connector OUT
<b>Electro-mechanical properties:</b>	
Light source:	1 x 50 W Warm White COB LED
Dimmer:	0–100 %
Strobe effect:	Yes
Zoom:	Manual
Beam angle:	10°–58° (manual adjustment)
Output:	10° – 3430 lx @ 2 m 58° – 402 lx @ 2 m
Color temperature:	3200 K
Light quality:	CRI 98
Housing:	Extruded aluminum
Color:	Black
Display:	OLED
DMX-control:	Via standard DMX-controller
Control:	DMX, Manual
Connections:	Pro-power connectors IN/OUT, 3-pin DMX signal connectors IN/OUT
IP Rating:	IP20
Cooling:	Internal fan
Max. ambient temperature $t_a$ :	40°C
Max. housing temperature $t_B$ :	70°C
<b>Minimum distance:</b>	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	1 m

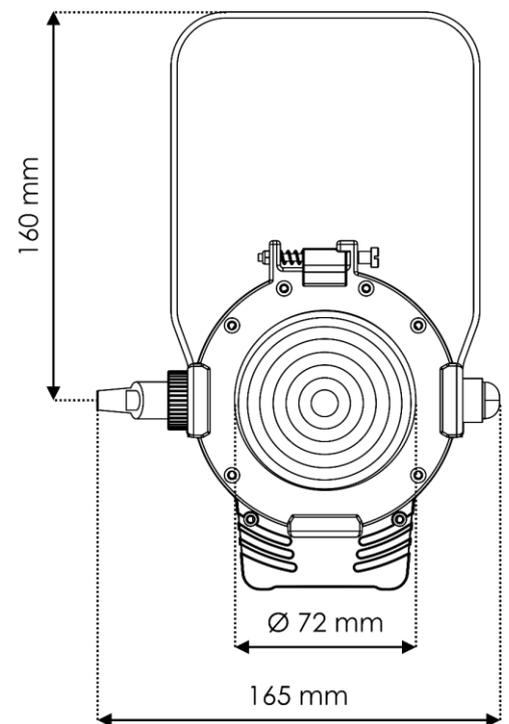
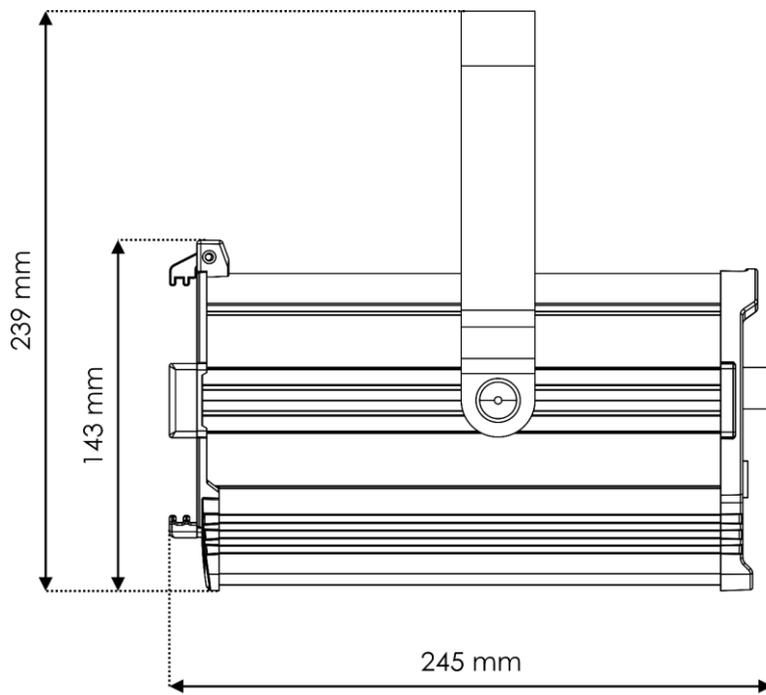
Design and product specifications are subject to change without prior notice.



Website: [www.Showtec.info](http://www.Showtec.info)

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## Dimensions







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