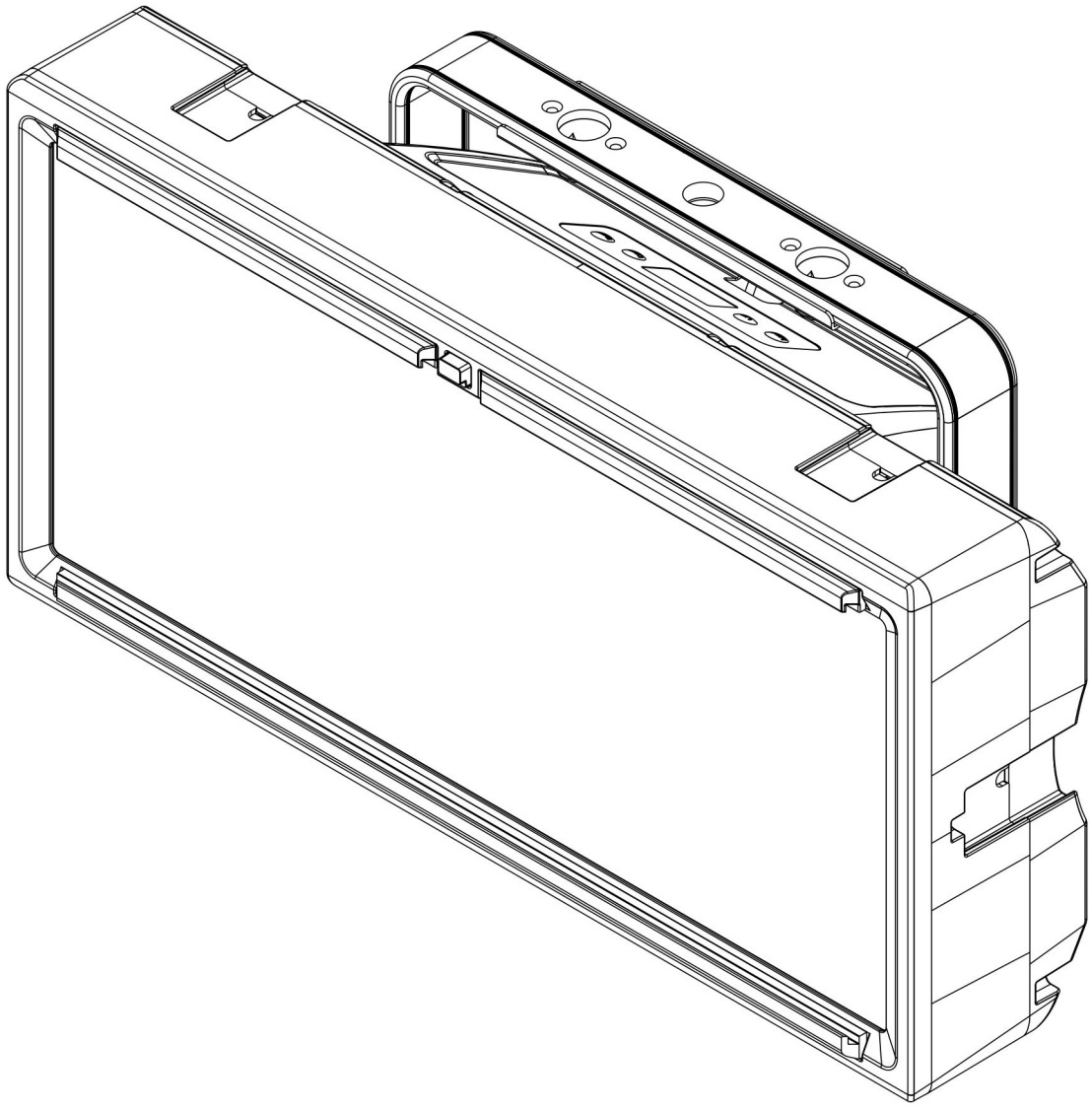
USER MANUAL

ENGLISH

V1.0



Titan Strobe 1000 FX

Product code: 40351

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

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Highlite International B.V. – Vestastraat 2 – 6468 EX Kerkrade – the Netherlands

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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.

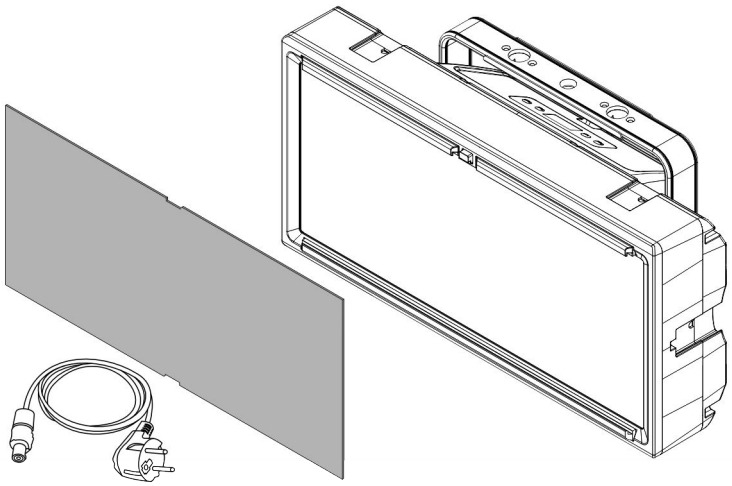
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

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

Your shipment includes:

- Showtec Titan Strobe 1000 FX
- Schuko to Power Pro True cable (1,5 m)
- Frost filter
- User manual

Figure 1



1.2. Intended Use

This device is intended for professional use as an LED luminaire for stage lighting. It can be installed indoors and outdoors. 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. Product Lifespan

This device is not designed for permanent operation.

Disconnect the device from the electrical power supply when the device is not in operation. This will reduce the wear and will improve the lifespan of the device.

1.5. Text Conventions

Throughout the user manual the following text conventions are used:

- Buttons: All buttons are in bold lettering, for example "Press the **UP/DOWN** buttons"
- References: References to 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

1.6. Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.



DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.



Attention Indicates important information for the correct operation and use of the product.



Important Read and observe the instructions in this document.



Electrical hazard



Provides important information about the disposal of this product.

1.7. Symbols on the Information Label

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

The information label contains the following symbols:



This device shall not be treated as household waste.



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



This device falls under IEC protection class I.

IP65 This devices is rated IP65.



The surface and the inner parts of the device can become very hot during operation. Do not touch the pods during operation.

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.
- 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.
- Keep the connectors sealed with the rubber caps when the connectors are not in use.
- Do not connect the cables from above the connectors, if the device is installed outdoors. Make a ‘drip loop’ in the cable so that rain water cannot enter the device.



WARNING
Risk of epileptic shock

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



WARNING
Risk of burns due to hot surface

The surface and the inner parts of the device can become very hot during operation.

- Do not touch the device during operation.
- Allow the device to cool down for at least 15 minutes before handling.



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 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
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
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 an LED luminaire for stage lighting. 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
Do not expose the device to conditions that exceed the rated IP class conditions.

This device is IP65 rated. IP (Ingress Protection) 65 class means that the device is dust-tight and protected against harmful effect of water jets.

Keep the connectors sealed with the rubber caps when the connectors are not in use.

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.

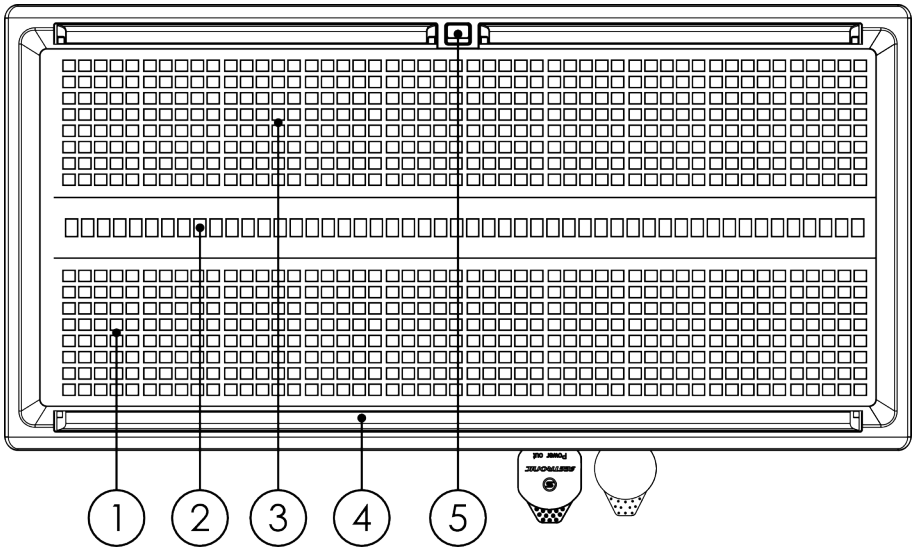
3. Description of the Device

The Showtec Titan Strobe 1000 FX is a powerful LED strobe bar flanked by two RGB LED bar background effects. The CW LED strobe has 10 individually controllable sections, while the RGB LED effects can be controlled in 20 sections. The Titan Strobe 1000 FX offers up to 73 DMX control channels, but can also be operated in less advanced modes, limiting the number of DMX channels required while still providing plenty of options for creating playful and impressive effects. It also supports a simple 4-channel mode for use as a standard strobe.

The die-cast aluminium housing uses forced convection cooling to keep the powerful LEDs cool. Rated IP65, it can be used in temporary outdoor situations such as festivals and outdoor stages. Thanks to the included connection blocks, multiple fixtures can easily be connected together to form one large effect light. A sliding profile enables you to position either a frost or smoke black filter in front of the lens.

3.1. Front View

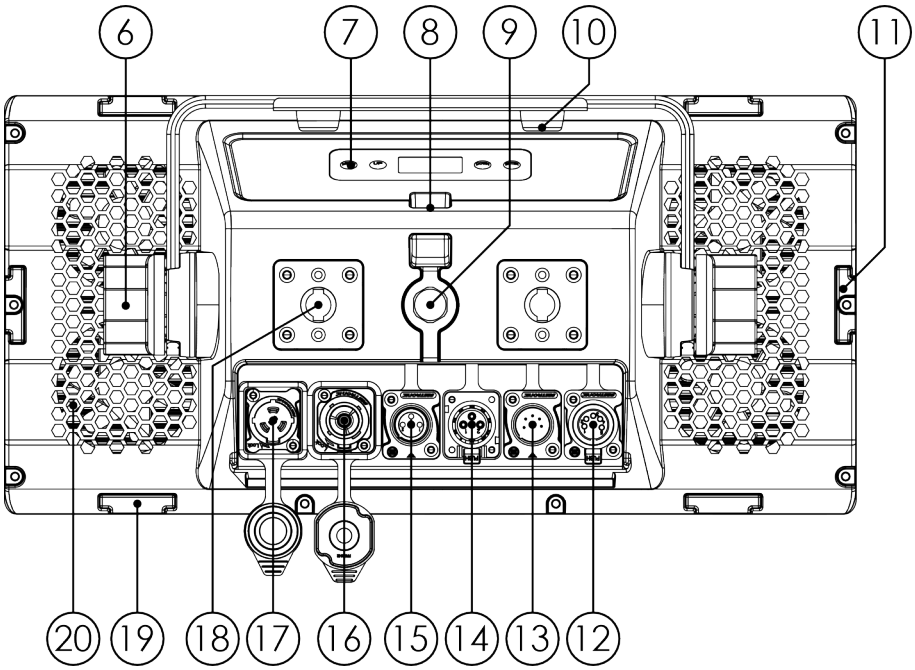
Figure 2



01) 400 x 2 W RGBW LEDs
02) 50 x 20 W CW strobe LEDs
03) 400 x 2 W RGBW LEDs
04) Filter holders
05) Button for included frost filter or Black filter for Titan (40353)

3.2. Back View

Figure 3



06) Adjustment handle
07) Control panel: OLED display and control buttons
08) Safety eye
09) Protective vent (M12 x 1,5)
10) Mounting bracket with 2 x mounting holes for quick-lock bracket
11) 2 x Locking mechanism in combination with 40352 (for horizontal connection to 2nd device)
12) IP65-rated 5-pin DMX signal connector OUT
13) IP65-rated 5-pin DMX signal connector IN
14) IP65-rated 3-pin DMX signal connector OUT
15) IP65-rated 3-pin DMX signal connector IN
16) IP65-rated Power Pro True connector OUT
17) IP65-rated Power Pro True connector IN
18) 2 x Mounting holes for quick-lock bracket
19) 4 x Locking mechanism in combination with 40352 (for vertical connection to 2nd device)
20) Ventilation opening

3.3. Product Specifications

Model:	Titan Strobe 1000 FX

Source:	
Light source type	LED
LED color type	CW / RGB

Control and Programming:	
Control mode	DMX / Manual / RDM
DMX channels	4 / 7 / 12 / 73
Protocols	DMX / RDM
Display	OLED

Dynamic Effects:	
Dimmer	0–100 %
Strobe	0–25 Hz

Electrical Specifications and Connections:	
Power supply	100–240 V AC 50/60 Hz
Power consumption	1000 W
Power connector IN	Power Pro True
Power connector OUT	Power Pro True
DMX connector	XLR 3P IN/OUT / XLR 5P IN/OUT

Mechanical Specifications:	
Height	200 mm
Width	407 mm
Depth	154 mm
Weight	7,92 kg
IP rating	IP65
Housing	Aluminium die-cast
Color	Black

Product Properties:	
Cooling	Forced convection

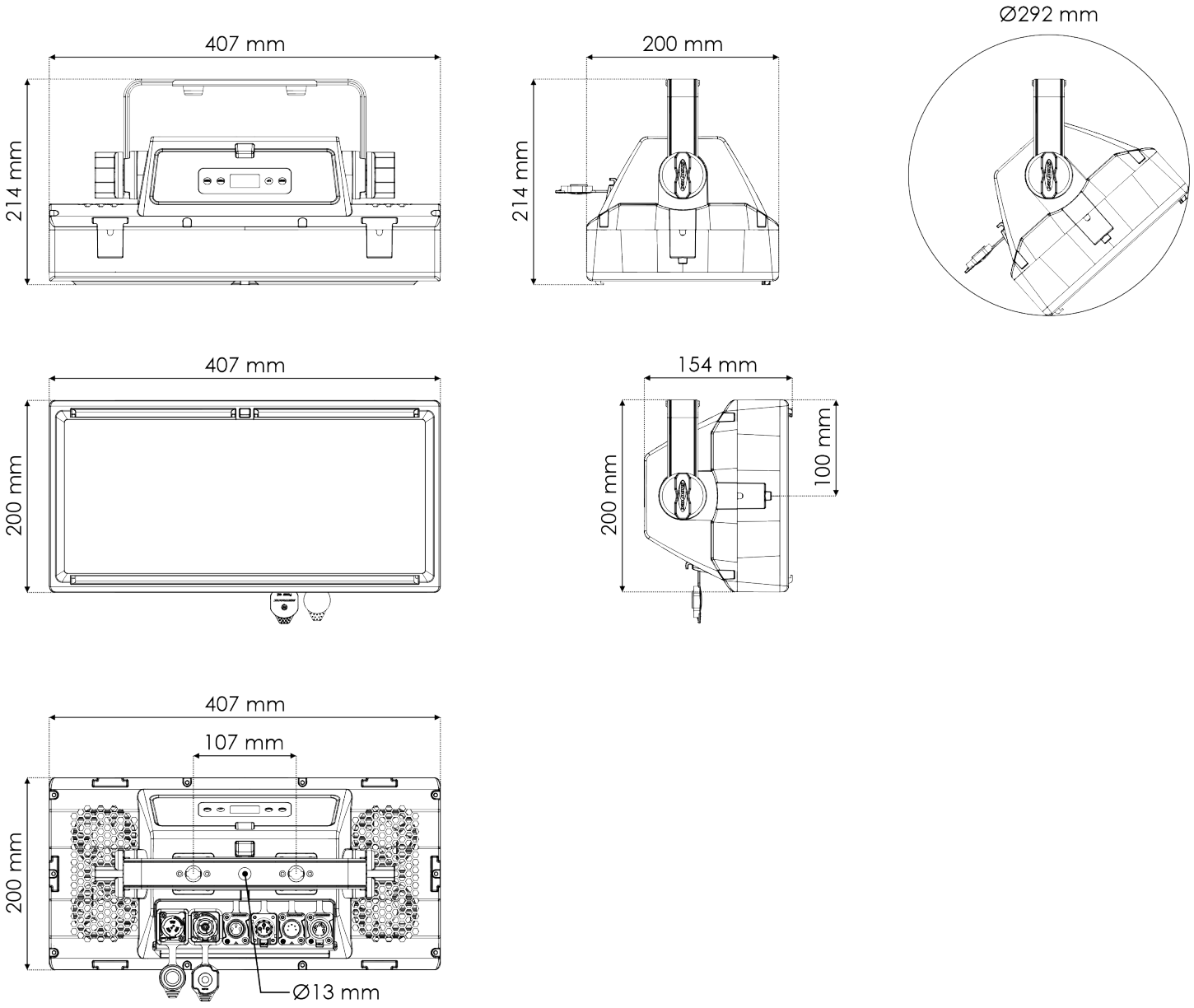
Rigging:	
Mounting options	Clamp / quick-lock
Safety attachment	Yes

Thermal Specifications:	
Maximum ambient temperature	40 °C

Included Items:	
Included cables	Power Pro cable
Included accessories	Frost filter

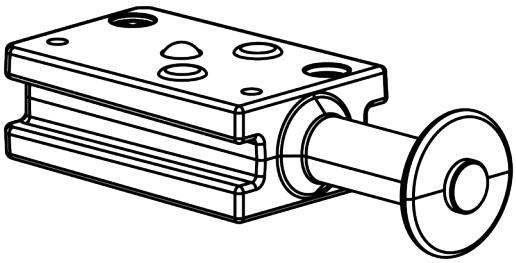
3.4. Dimensions

Figure 4

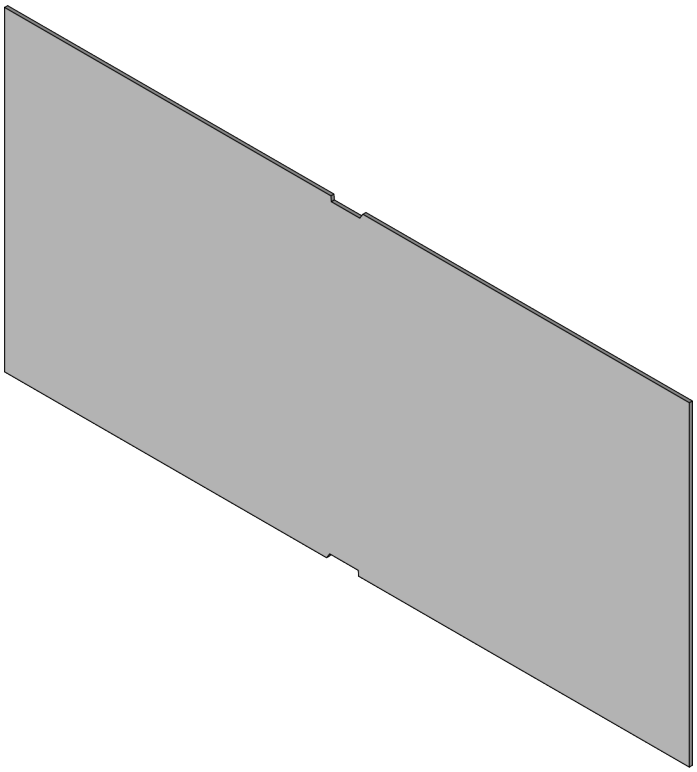


3.5. Optional Accessories

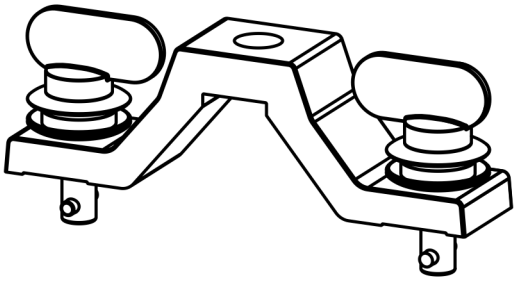
- Product code : 40352 (Titan Connection Block)



- Product code: 40353 (Black filter for Titan)



- Product code : 75151 (Quicklock Bracket 2)



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 indoors and outdoors.
- The device must be installed away from heating sources and direct sunlight.
- The ambient temperature must be in the range -5 and 40 °C.

4.4. Rigging

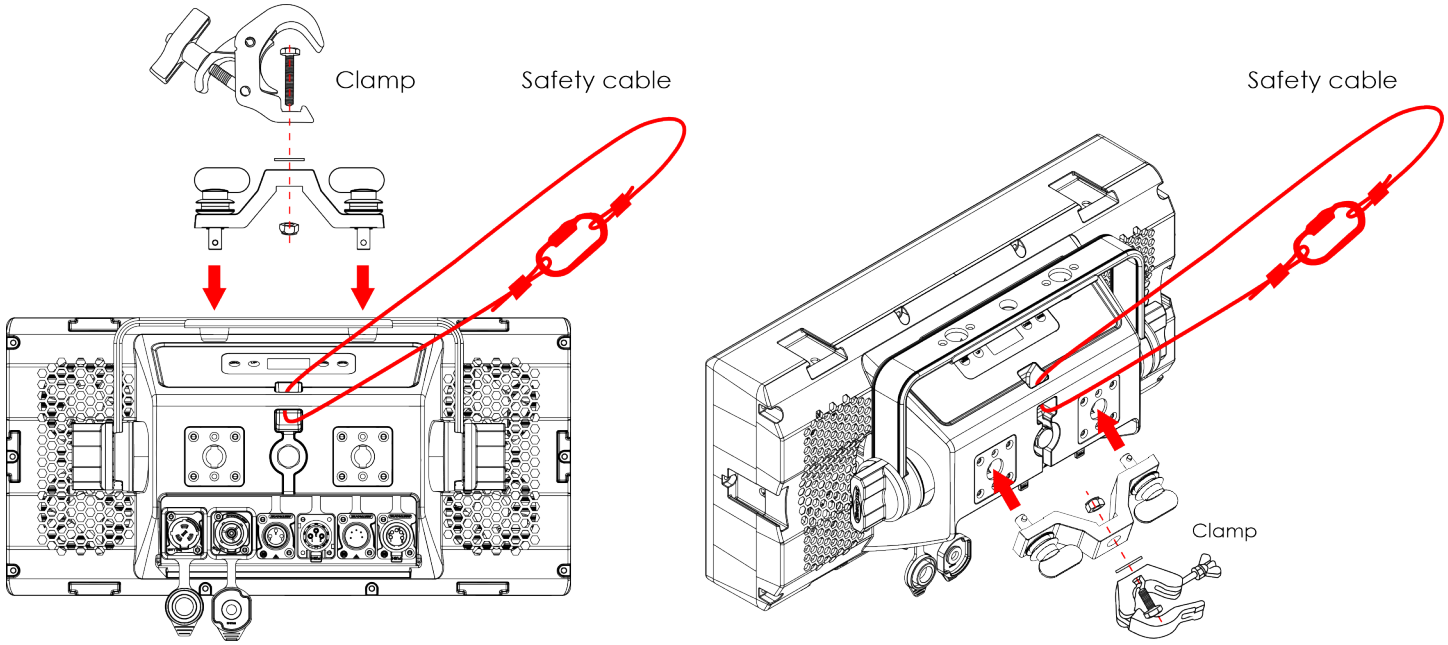
The device can be positioned on a flat surface or mounted to a truss or other rigging structure in any orientation. Make sure that all loads are within the pre-determined limits of the supporting structure.

CAUTION
Restrict the access under the work area during rigging/derigging.

To mount the device, follow the steps below:

01) Install a clamp. Make sure that you use clamps suitable for attaching the device to a truss.
02) Fasten the quick-lock bracket, supplied with the device, on the **mounting holes for quick-lock brackets (10/18)**.

Figure 5



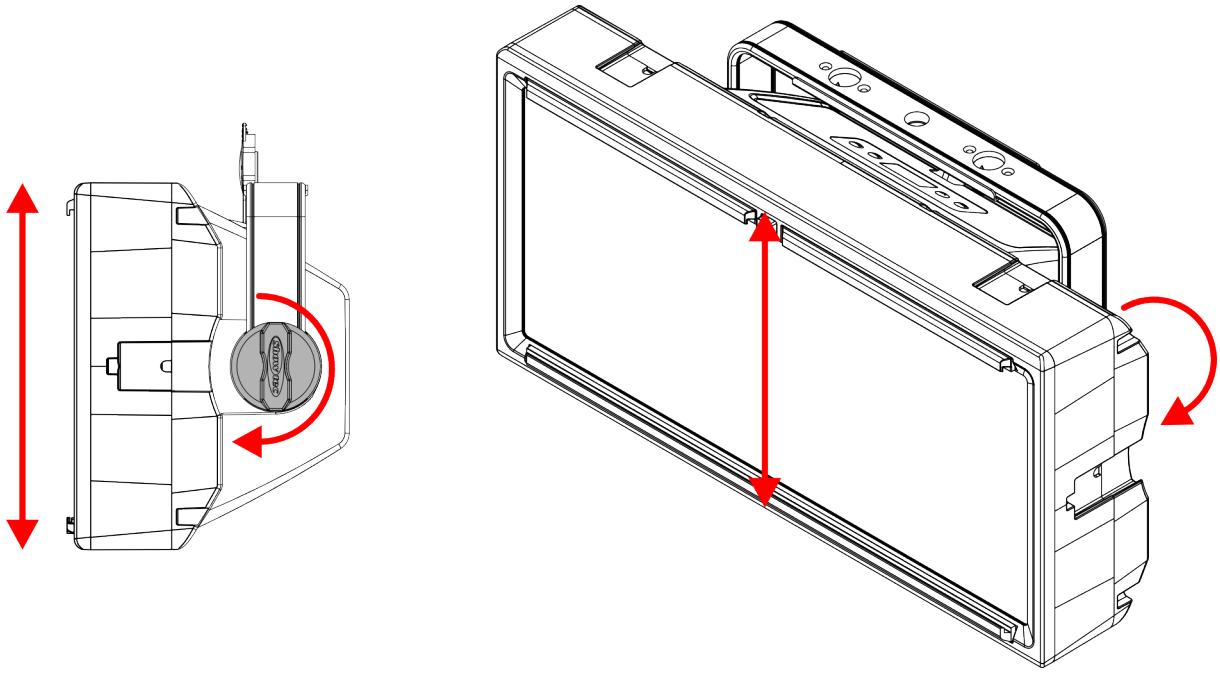
03) Attach the device to the supporting structure. Make sure that the device cannot move freely.
04) Secure the device with a secondary suspension, for example a safety cable. Make sure that the secondary suspension can hold 10 times the weight of the device. If possible, the secondary suspension should be attached to a supporting structure independent of the primary suspension. Put the safety cable through a **safety eye (08)**.

4.5. Angle Adjustment

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

01) Turn the **adjustment handle (06)** counterclockwise to loosen it.
02) Tilt the device to the desired angle.
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.

Figure 6



4.6. Installation of Accessories

There are a number of accessories available for the device (see 3.5. Optional Accessories on page 13).

The accessories are not supplied with the device. Contact your Highlite International dealer for more information.

4.6.1. Frost Filter / Black Filter Installation

The frost filter changes the beam angle of the device.

To install the frost filter, follow the steps below:

01) Insert the frost filter or black filter into the **filter holders (04)**, until the red dotted line, as shown in Fig. 07.
02) Press the **button (05)** to be able to slide the frost filter or blackfilter further, as shown in Fig. 08.
03) Release the **button (05)** once the frost filter or blackfilter is in place, as shown in Fig. 09.

Figure 7

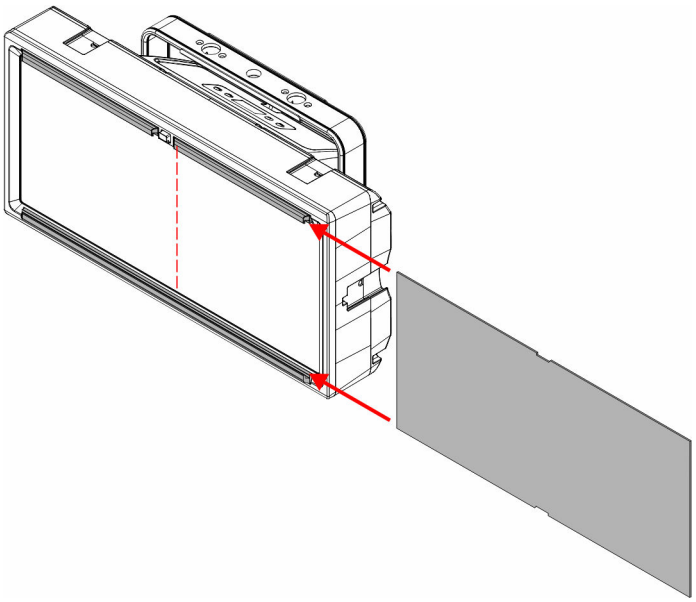


Figure 8

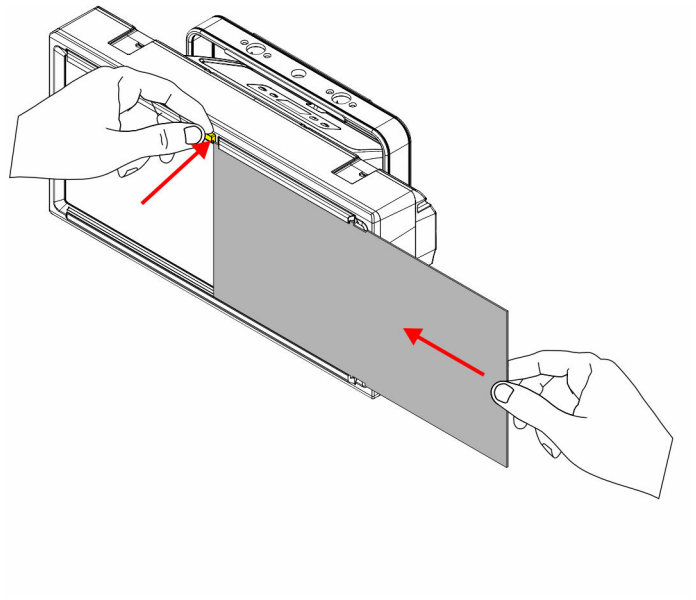
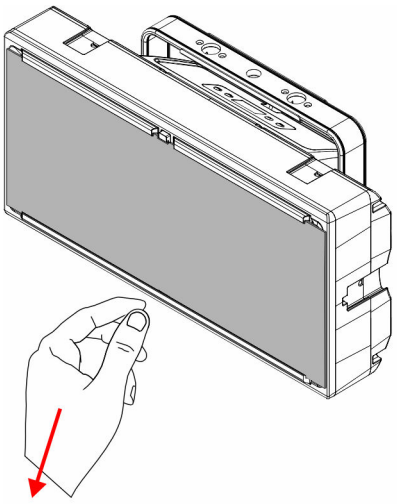


Figure 9



4.6.2. Titan Connection Block Installation

The titan connection block allows you to connect multiple devices to each other.

To create a setup with multiple devices, you need to connect the devices vertically and horizontally.

4.6.2.1. Vertical Installation

By the vertical installation, 2 devices are connected below one another.

To connect vertically 2 devices, follow the steps below:

01) Put the 2nd device below the 1st device, as shown in Fig. 10.
02) Insert the titan connection block into the **locking mechanism (19)**, until its half way in, as shown in Fig. 11.
03) Press the button on the titan connection block to be able to slide the titan connection block further, as shown in Fig. 12.
04) Release the button once the titan connection block is in place, as shown in Fig. 13.

Figure 10

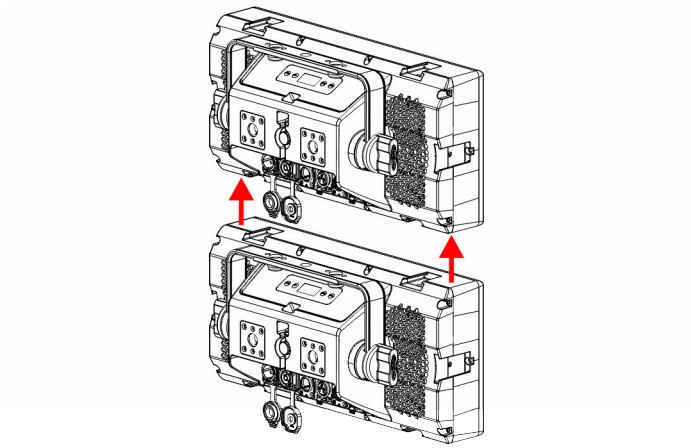


Figure 11

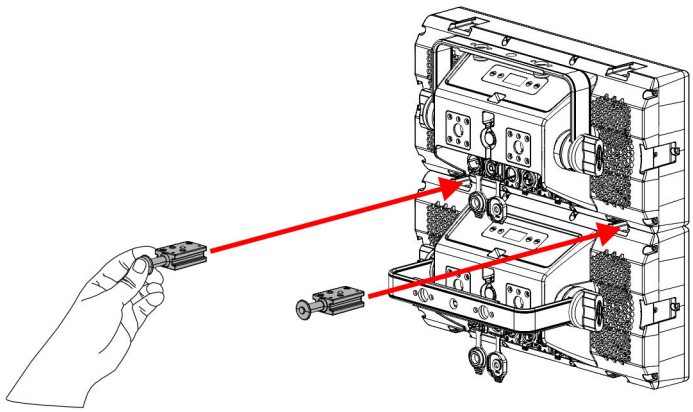


Figure 12

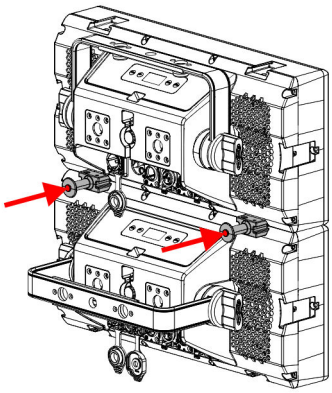
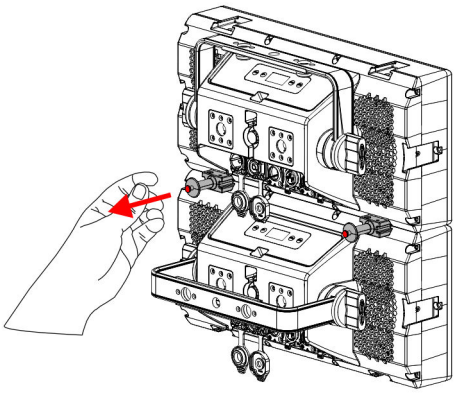


Figure 13



4.6.2.2. Horizontal Installation

By the horizontal installation, 2 devices are connected below one another.

To connect horizontally 2 devices, follow the steps below:

01) Put the 2nd device next to the 1st device, as shown in Fig. 14.
02) Insert the titan connection block into the **locking mechanism (11)**, until its half way in, as shown in Fig. 15.
03) Press the button on the titan connection block to be able to slide the titan connection block further, as shown in Fig. 16.
04) Release the button once the titan connection block is in place, as shown in Fig. 17.

Figure 14

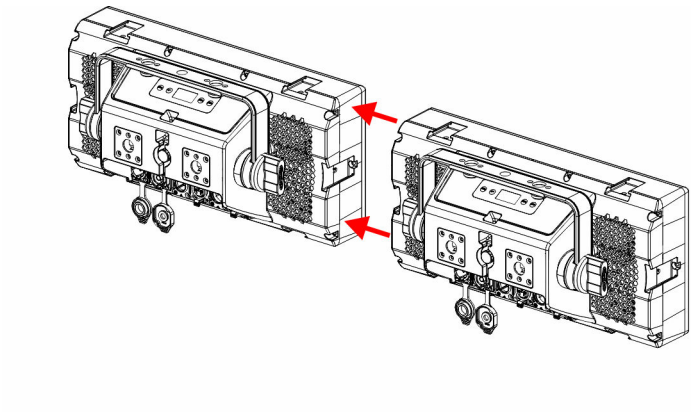


Figure 15

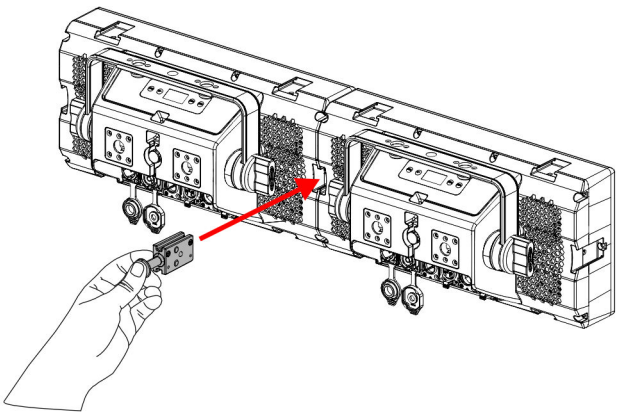


Figure 16

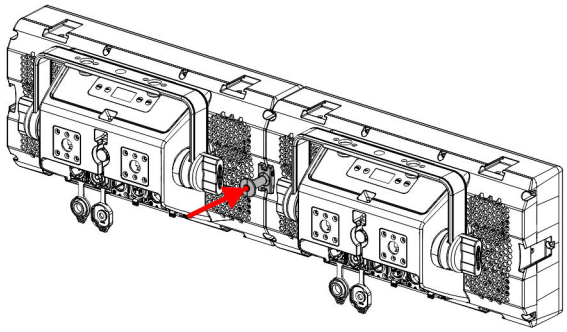
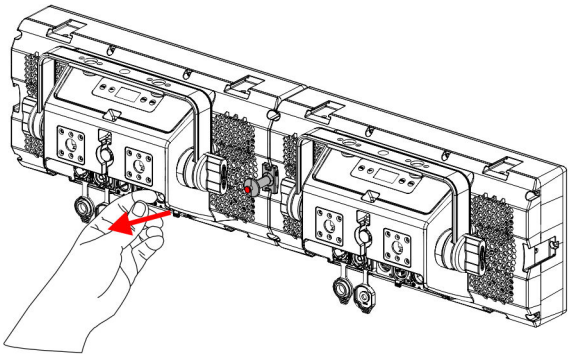


Figure 17



4.7. 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 a 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.

This device is IP65 rated.

- Do not expose the device to conditions that exceed the rated IP class conditions.
- Keep the connectors sealed with the rubber caps when the connectors are not in use.
- Do not connect the cables from above the connectors, if the device is installed outdoors. Make a 'drip loop' in the cable so that rain water cannot enter the device.
- Make sure that the cable run is not too heavy. A heavy cable run can cause damage to the connectors. If the connectors are damaged, their ingress protection (IP) can deteriorate.

4.8. 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: 2 devices Titan Strobe 1000 FX
- at 200–240 V: 5 devices Titan Strobe 1000 FX

5. Setup

5.1. Warnings and Precautions



DANGER
Electric shock caused by short-circuit

This device is IP65 rated.

- Do not expose the device to conditions that exceed the rated IP class conditions.
- Keep the connectors sealed with the rubber caps when the connectors are not in use.
- Do not connect the cables from above the connectors, if the device is installed outdoors. Make a 'drip loop' in the cable so that rain water cannot enter the device.
- Make sure that the cable run is not too heavy. A heavy cable run can cause damage to the connectors. If the connectors are damaged, their ingress protection (IP) can deteriorate.



Attention
Connect all data cables before supplying power.
Disconnect power supply before connecting or disconnecting data cables.

5.2. Stand-alone Setup

When the Titan Strobe 1000 FX 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 or in auto mode.

For more information, refer to Control Modes (see 6.2. Control Modes on page 24).

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 Titan Strobe 1000 FX 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

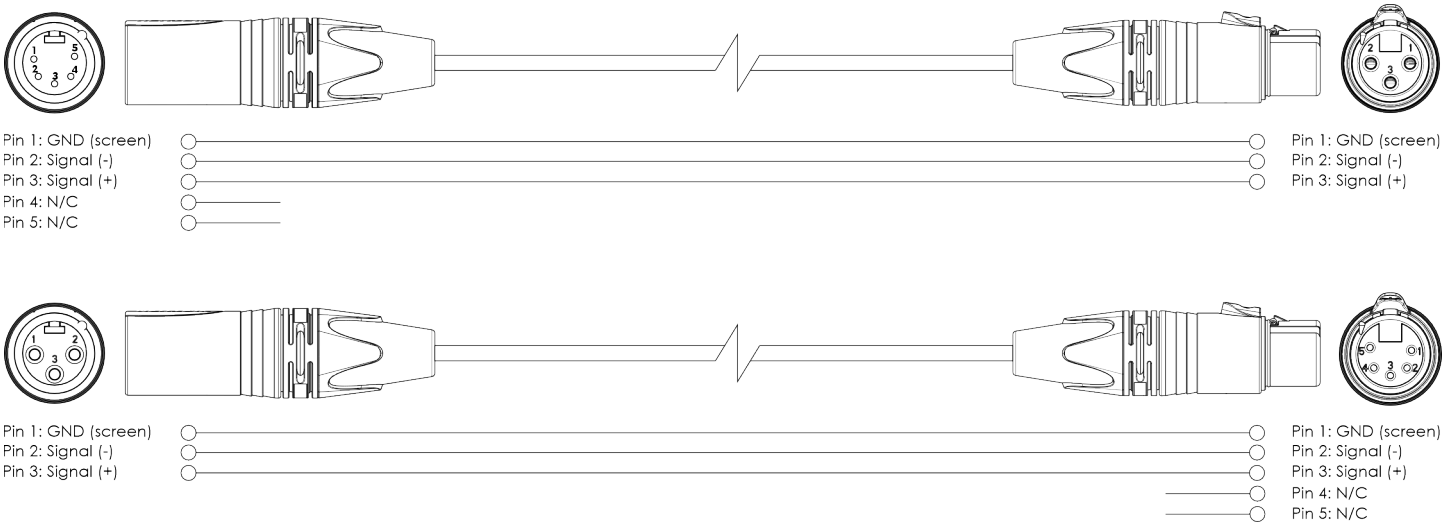
5.3.2. DMX Cables

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 18

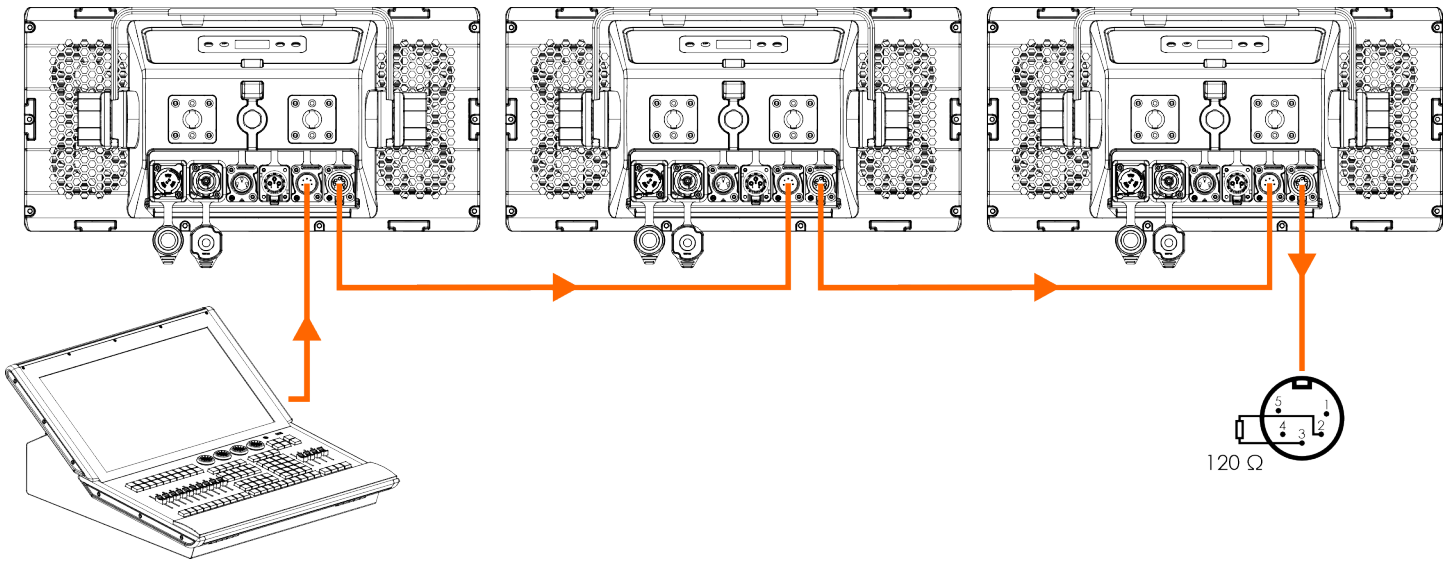


5.3.3. DMX Linking

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 19



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 Titan Strobe 1000 FX has 4 personalities: 4 channels, 7 channels, 12 channels, 73 channels.

If you want to connect multiple devices on one data link and use them in 73-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 74 (074), as 1 + 73 = 74.
03) Set the starting address of the 3rd device on the data link to 147 (147), as 74 + 73 = 147.
04) Continue assigning the starting addresses of the remaining devices by adding 73 to the previous number each time.

Make sure that you do not have any overlapping channels in order to control each Titan Strobe 1000 FX correctly. If two or more devices have the same DMX starting address, they operate in the same way.

6. Operation

6.1. Safety Instructions for Operation

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

This device is intended for professional use as an LED luminaire for stage lighting. It can be installed indoors and outdoors. 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 Titan Strobe 1000 FX can be operated with a DMX controller or as a stand-alone device.

The Titan Strobe 1000 FX supports the following control modes:

- Stand-alone: Manual operation
- DMX-512: 4 channels, 7 channels, 12 channels, 73 channels

For more information about how to connect the devices, refer to Setup (see 5. Setup on page 21).

To operate the device as a stand-alone device:

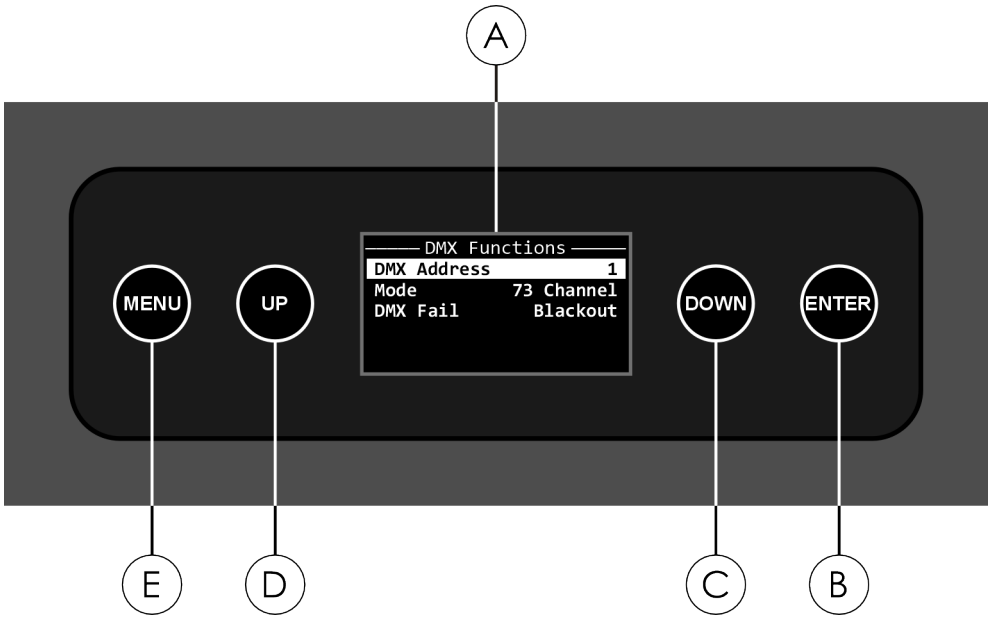
- Select manual mode (see 6.6.2.2. Manual Mode on page 29)

To operate the device with a DMX controller:

01) Select the DMX channel mode in the DMX Mode menu (see 6.6.1.2. DMX Mode on page 28). Refer to the DMX chart for a complete overview of all DMX channels.
02) Set the DMX starting address of the device in DMX Address menu (see 6.6.1.1. DMX Address on page 27).
03) Set the behavior of the device in case there is no DMX signal in the DMX Fail menu (see 6.6.1.3. DMX Fail on page 28).

6.3. Control Panel

Figure 20



A) OLED display
B) ENTER button
C) DOWN button
D) UP button
E) MENU button

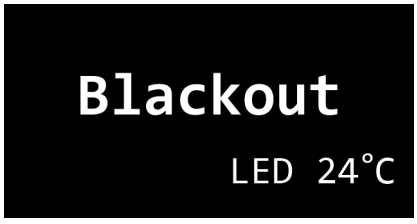
- Use the **DOWN button (C)** and the **UP button (D)** to navigate through the menus or decrease/increase numeric values.
- Use the **ENTER button (B)** to open the selected menu, confirm your choice or set the currently selected value.
- Use the **MENU button (E)** to exit the current submenu and return to the Main Menu.

6.4. Start-up

Upon start-up, the display shows a splash screen with the Showtec logo and the name of the device.



Immediately afterwards, the display shows the start screen. The start screen provides information about the current DMX mode, the DMX signal, the DMX address and the temperature of the LEDs.



Note:

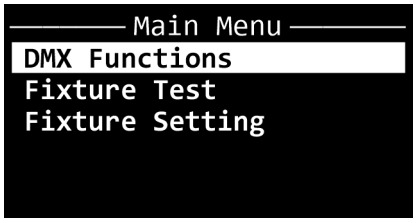
If no button is pressed, after 40 seconds the backlight of the display turns off. You can change this setting in the Backlight submenu (see 6.6.3. Fixture Setting on page 30). If the DMX signal is lost, the display blinks.

6.5. Menu Overview

Level 1	Level 2	Level 3	Level 4
DMX Functions (see 6.6.1. DMX Functions on page 27)	DMX Address	001–512	
	Mode	4 Channel	
		7 Channel	
		12 Channel	
		73 Channel	
	DMX Fail	Blackout	
		Hold	
Fixture Test (see 6.6.2. Fixture Test on page 28)	Auto Test		
	Manual	1. White	000–255
		2. Strobe Duration	000–255
		3. Strobe Speed	000–255
		4. Strobe Type	000–255
		5. Red	000–255
		6. Green	000–255
		7. Blue	000–255
		8. Pattern Color	000–255
		9. Patterns	000–255
		10. Pattern Rotation	000–255
		11. Strobe Patterns	000–255
		12. Strobe Rotation	000–255
Fixture Setting (see 6.6.3. Fixture Setting on page 30)	Display Inverse	No	
		Yes	
	Backlight Auto Off	No	
		Yes	
	Display Contrast	0–10	
	Fixture Information	RDM UID:	29B4:10F12345
		Fixture Hour	
		Firmware Version	CPU-A V 0.1 B 1.0
		Temperature	CPU
			LED1
			LED2
			LED3
	Fan mode	Auto	
		Silent	
		Full	
	Factory Default	No	
		Yes	

6.6. Main Menu Options

The main menu has the following 3 options:



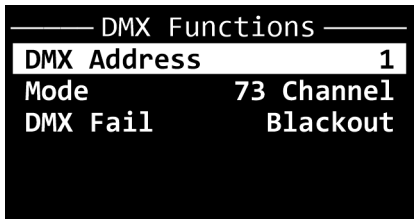
DMX Functions
Fixture Test
Fixture Setting

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



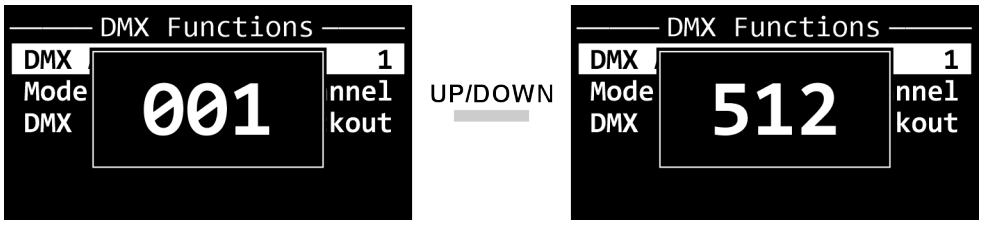
- DMX Address (see 6.6.1.1. DMX Address)
- DMX Mode (see 6.6.1.2. DMX Mode)
- DMX Fail (see 6.6.1.3. DMX Fail)

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

6.6.1.1. DMX Address

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

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

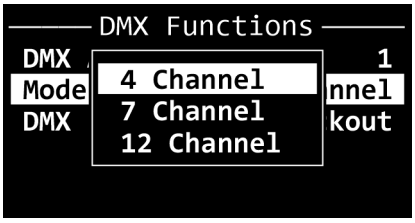


02) Press the **ENTER** button to confirm the selection.

6.6.1.2. DMX Mode

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

01) Press the **UP/DOWN** buttons to the DMX channel mode. There are 4 options:



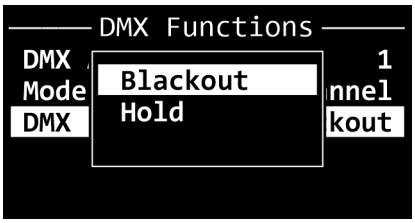
- 4 channels
- 7 channels
- 12 channels
- 73 channels

02) Press the **ENTER** button to confirm the selection. For more information, refer to the DMX chart (see 6.7. DMX Channels on page 32).

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 2 options:



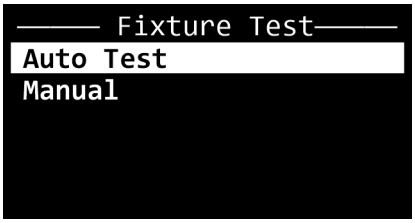
- Blackout: The device blacks out the light output
- Hold: The device uses the last DMX signal correctly received

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

6.6.2. Fixture Test

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

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



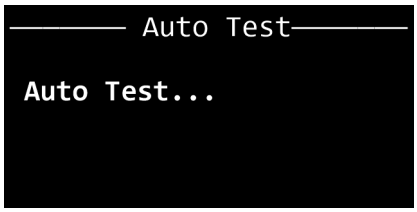
- Auto Test: The device performs an auto test of its parameters See Auto Test Mode (see 6.6.2.1. Auto Test) for more information
- Manual Defined: See Manual Mode (see 6.6.2.2. Manual Mode) for more information

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

6.6.2.1. Auto Test

In this submenu you can automatically run an auto test of the functions of the device.

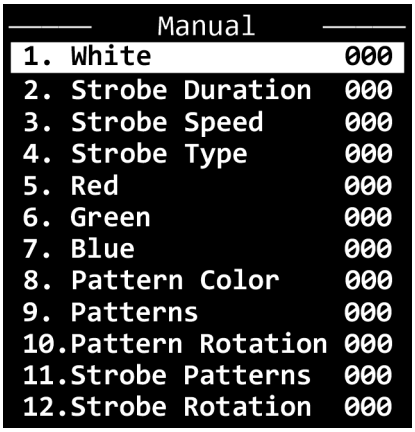
(If you have selected Auto Test in the previous menu and pressed the **ENTER** button) The device automatically runs an auto test of the functions of the device and the display shows:



6.6.2.2. Manual Mode

In this submenu, you can select colors and set their values.

01) Press the **UP/DOWN** buttons to select one of the 12 options:



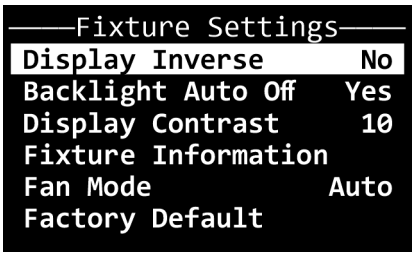
- White: The adjustment range is 0–255, from low to high intensity
- Strobe Duration: The adjustment range is 0–255, from 7–500ms
- Strobe Speed: The adjustment range is 0–255, from slow to fast (0–25 Hz)
- Strobe Type: The adjustment range is 0–255, refer to the DMX chart (see 6.7. DMX Channels on page 32)
- Red: The adjustment range is 0–255, from low to high intensity
- Green: The adjustment range is 0–255, from low to high intensity
- Blue: The adjustment range is 0–255, from low to high intensity
- White: The adjustment range is 0–255, from low to high intensity
- Pattern Color: The adjustment range is 0–255, refer to the DMX chart (see 6.7. DMX Channels on page 32)
- Patterns: The adjustment range is 0–255, refer to the DMX chart (see 6.7. DMX Channels on page 32)
- Pattern Rotation: The adjustment range is 0–255, refer to the DMX chart (see 6.7. DMX Channels on page 32)
- Strobe Patterns: The adjustment range is 0–255, refer to the DMX chart (see 6.7. DMX Channels on page 32)
- Strobe Rotation: The adjustment range is 0–255, refer to the DMX chart (see 6.7. DMX Channels on page 32)

02) Press the **ENTER** button to confirm the selection.
03) Press the **UP/DOWN** buttons to decrease or increase the values.
04) Press the **ENTER** button to confirm the selection.

6.6.3. Fixture Setting

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

01) Press the **UP/DOWN** buttons to select one of the 6 options:



- 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 00-10 (from low to high contrast, 00=OFF)
- Fixture Information: Shows the UID, the LED operating hours, the firmware version and the temperature of the LEDs/CPU. See Fixture Information (see 6.6.3.1. Fixture Information) for more information.
- Fan Mode: Select the current speed of the fans. See Fan Mode (see 6.6.3.2. Fan Mode) for more information.
- Factory Default: Reset the settings of the device to the default factory settings (No/Yes)

02) Press the **ENTER** button to open the submenu and view the parameters.

6.6.3.1. Fixture Information

In this submenu you can view the UID, the LED operating hours, the firmware version and the temperature of the LEDs/CPU.

01) Press the **UP/DOWN** buttons to scroll through the following 4 options:

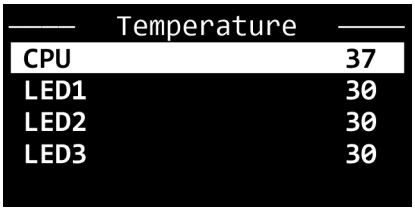


- RDM UID: Shows the unique identification (UID) number of the device
- Fixture Hour: Shows the operating hours of the LED
- Firmware Version: Shows the current firmware version
- Temperature: Shows the current temperature of the CPU and the LEDs

02) Press the **ENTER** button to open the submenu to view the firmware version:



03) Press the **ENTER** button to open the submenu to view the current temperature of the CPU and the LEDs:



6.6.3.2. Fan Mode

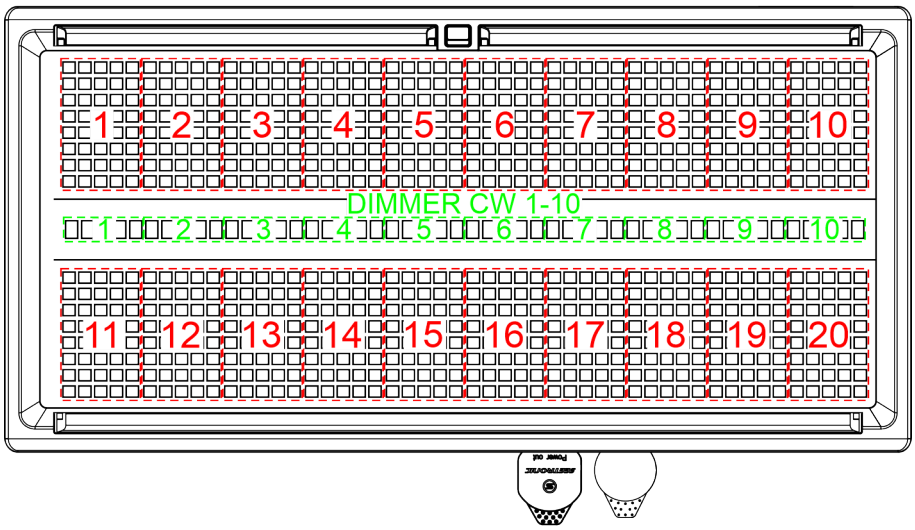
In this submenu, you can select the fan mode.

01) Press the **UP/DOWN** buttons to choose one of the 3 options:
- Auto: Automatic fan
- Silent: Slow fan
- Full: Fast fan

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

6.7. DMX Channels

6.7.1. 4 channels, 7 channels, 12 channels, 73 channels



4CH	7CH	12CH	73CH	Function	Value	Setting	Default	Highlight
1	1	1	1	**Dimmer CW 1**	000–255	From low to high intensity (0–100 %)	0	0
1	1	1	2	**Dimmer CW 2**	000–255	From low to high intensity (0–100 %)	0	0
1	1	1	3	**Dimmer CW 3**	000–255	From low to high intensity (0–100 %)	0	0
1	1	1	4	**Dimmer CW 4**	000–255	From low to high intensity (0–100 %)	0	0
1	1	1	5	**Dimmer CW 5**	000–255	From low to high intensity (0–100 %)	0	0
1	1	1	6	**Dimmer CW 6**	000–255	From low to high intensity (0–100 %)	0	0
1	1	1	7	**Dimmer CW7**	000–255	From low to high intensity (0–100 %)	0	0
1	1	1	8	**Dimmer CW 8**	000–255	From low to high intensity (0–100 %)	0	0
1	1	1	9	**Dimmer CW 9**	000–255	From low to high intensity (0–100 %)	0	0
1	1	1	10	**Dimmer CW 10**	000–255	From low to high intensity (0–100 %)	0	0
2	2	2	11	**Strobe Flash Duration**	000–255	7–500 ms	0	0
3	3	3	12	**Strobe Speed**	000–004	No function	0	0
					005–255	From slow to fast (0–25 Hz)		
4	4	4	13	**Strobe Type**	000–005	Linear strobe, from low to high frequency	0	0
					006–042	Ramp up		
					043–085	Ramp down		
					086–128	Ramp up to ramp down		
					129–150	Random strobe, from low to high frequency		
					151–171	Random sectional		
					172–214	Lighting		
					215–255	Spikes		
1	5	5	14	**Red 1**	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	15	**Green 1**	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	16	**Blue 1**	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	17	**Red 2**	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	18	**Green 2**	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	19	**Blue 2**	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	20	**Red 3**	000–255	From low to high intensity (0–100 %)	0	255

4CH	7CH	12CH	73CH	Function	Value	Setting	Default	Highlight
1	6	6	21	Green 3	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	22	Blue 3	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	23	Red 4	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	24	Green 4	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	25	Blue 4	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	26	Red 5	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	27	Green 5	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	28	Blue 5	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	29	Red 6	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	30	Green 6	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	31	Blue 6	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	32	Red 7	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	33	Green 7	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	34	Blue 7	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	35	Red 8	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	36	Green 8	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	37	Blue 8	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	38	Red 9	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	39	Green 9	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	40	Blue 9	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	41	Red 10	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	42	Green 10	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	43	Blue 10	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	44	Red 11	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	45	Green 11	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	46	Blue 11	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	47	Red 12	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	48	Green 12	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	49	Blue 12	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	50	Red 13	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	51	Green 13	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	52	Blue 13	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	53	Red 14	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	54	Green 14	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	55	Blue 14	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	56	Red 15	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	57	Green 15	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	58	Blue 15	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	59	Red 16	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	60	Green 16	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	61	Blue 16	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	62	Red 17	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	63	Green 17	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	64	Blue 17	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	65	Red 18	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	66	Green 18	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	67	Blue 18	000–255	From low to high intensity (0–100 %)	0	255

4CH	7CH	12CH	73CH	Function	Value	Setting	Default	Highlight
1	5	5	68	**Red 19**	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	69	**Green 19**	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	70	**Blue 19**	000–255	From low to high intensity (0–100 %)	0	255
1	5	5	71	**Red 20**	000–255	From low to high intensity (0–100 %)	0	255
1	6	6	72	**Green 20**	000–255	From low to high intensity (0–100 %)	0	255
1	7	7	73	**Blue 20**	000–255	From low to high intensity (0–100 %)	0	255
					000–004	No function		
					005–017	Full (R255, B255, G255)		
					018–030	Red (R255, G000, B000)		
					031–043	Green (R000, G255, B000)		
					044–056	Blue (R000, G000, B255)		
					057–069	Yellow (R255 G251, B000)		
					070–082	Magenta (R187, G001, B255)		
					083–095	Cyan (R014, G227, B255)		
					096–108	Pink (R255, G076, B166)		
		8		**Backlight pattern color**	109–121	Light Pink (R255, G128, B183)	0	0
					122–134	Light Blue (R253, G140, B255)		
					135–147	Turquoise (R045, G255, B171)		
					148–160	Light Green (R048, G255, B062)		
					161–173	Dark Yellow (R255 G179, B014)		
					174–186	Light Orange (255, G187, B069)		
					187–199	Light Red (R255, G067, B070)		
					200–212	CTO (R255, G215, B106)		
					213–225	CTB (R138, G249, B255)		
					226–255	Black (R000, G000, B000)		
					000–004	No function		
					005–016	Pattern 1		
					017–028	Pattern 2		
					029–040	Pattern 3		
					041–052	Pattern 4		
					053–064	Pattern 5		
					065–076	Pattern 6		
					077–088	Pattern 7		
					089–100	Pattern 8		
					101–112	Pattern 9		
		9		**Backlight pattern**	113–124	Pattern 10	0	0
					125–136	Pattern 11		
					137–148	Pattern 12		
					149–160	Pattern 13		
					161–172	Pattern 14		
					173–184	Pattern 15		
					185–196	Pattern 16		
					197–208	Pattern 17		
					209–220	Pattern 18		
					221–232	Pattern 19		
					233–255	Pattern 20		

4CH	7CH	12CH	73CH	Function	Value	Setting	Default	Highlight
		10		**Backlight pattern rotation**	000–044	Macro indexing	128	/
					045–125	CW rotation, from fast to slow		
					126–129	Stop		
					130–210	CCW rotation, from slow to fast		
					211–255	Bounce, from slow to fast		
		11		**Strobebar pattern**	000–004	No function	0	0
					005–023	Pattern 1		
					024–042	Pattern 2		
					043–061	Pattern 3		
					062–080	Pattern 4		
					081–099	Pattern 5		
					100–118	Pattern 6		
					119–137	Pattern 7		
					138–156	Pattern 8		
					157–175	Pattern 9		
					176–194	Pattern 10		
					195–213	Pattern 11		
					214–232	Pattern 12		
					233–255	Pattern 13		
		12		**Strobebar pattern rotation**	000–044	Macro indexing	128	/
					045–125	CW rotation, from fast to slow		
					126–129	Stop		
					130–210	CCW rotation, from slow to fast		
					211–255	Bounce, from slow to fast		

6.8. RDM Information

This device supports RDM (see 6.8.1. RDM Details).

6.8.1. RDM Details

- Responder: 29B4:10Fxxxxx
- Manufacturer's ID: 29B4
- Manufacturer Label: Infinity
- Model Description: Titan Strobe 1000 FX
- Model ID: 10F
- Device Label: Titan Strobe 1000 FX

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)

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	*	*	*
SENSOR_DEFINITION	0x0200		*	
SENSOR_VALUE	0x0201		*	*
RECORD_SENSORS	0x0202			*
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	• Make sure that the device is connected to the power supply and the cables are plugged in
	The internal fuse is blown	• Disconnect the device and contact your Highlite International dealer
The device responds erratically	The factory settings of the device are changed	• Reset the parameters of the device to the default factory settings (see 6.6.3. Fixture Setting on page 30)
The device does not respond to DMX control	The controller is not connected	• Connect the controller
	The signal is reversed. The 3-pin/5-pin DMX OUT of the controller does not match the DMX IN of the device	• Install a phase-reversing cable between the controller and the device
	The controller is defective	• Try using another controller
The device responds erratically to DMX control	Connections are defective	• Examine connections and cables. Correct defective connections. Repair or replace damaged cables
	The data link is not terminated with a 120 Ω termination plug	• Insert a termination plug in the DMX OUT connector of the last device on the link
	Incorrect addressing	• 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	• To find the defective device, bypass one device at a time until normal operation is restored
No light or LEDs cut out intermittently	LEDs are damaged	• Disconnect the device and contact your Highlite International dealer
	The input power parameters of the device do not match local AC voltage and frequency	• 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 connectors with a damp cloth.



Attention

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.
- Make sure that the connectors are fully dry before using them.

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.

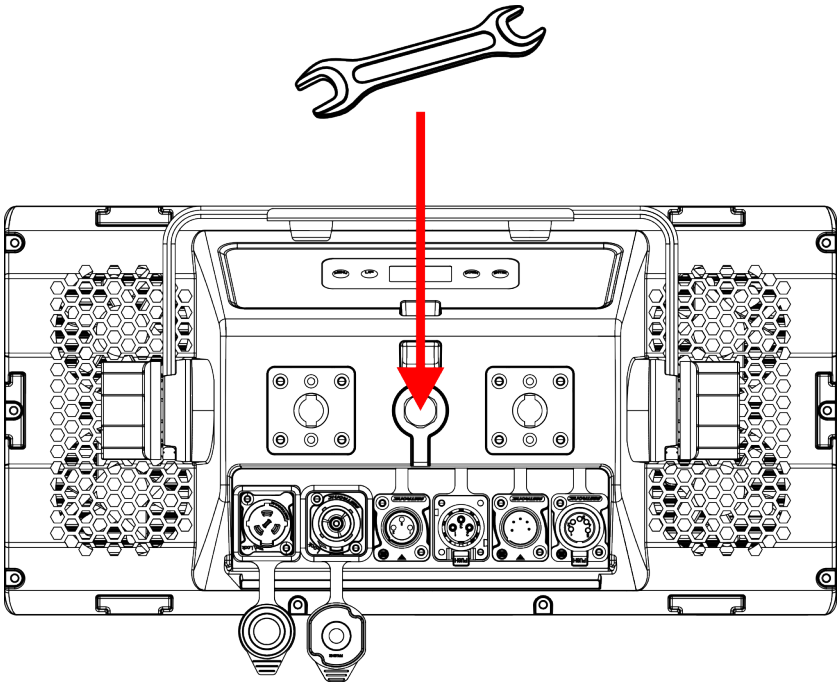
8.3.1. Draining Condensation Water

The Titan Strobe 1000 FX is IP65 rated. The device can resist water jets. If the device is exposed to extreme humid conditions during use, condensation may collect inside the device. This can happen also during transportation, if the device is exposed to extreme temperature variations.

If condensation water collects inside the device, follow the steps below to remove the condensation water:

01) Carefully remove the **protective vent (09)** with a wrench (16 mm).
02) Let the device operate with the lamp at full output for 60 minutes.
03) Let the device cool down for 30 minutes.
04) Reinstall the **protective vent (09)**. Make sure that you do not overtighten.

Figure 21



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 38).
- 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

CE

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