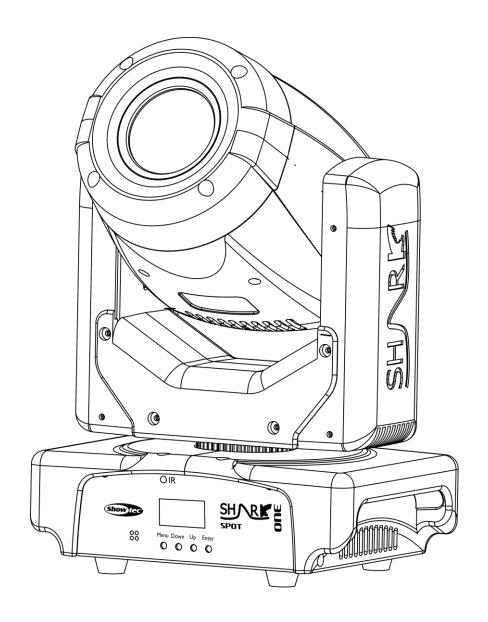


# **MANUAL**



**ENGLISH** 

**Shark Spot One** 

**V1** 

Ordercode: 45023

# **Table of contents**

Warning	
Safety Instructions	
Operating Determinations	
Rigging	
Connection with the mains	5
Return Procedure	6
Claims	6
Description of the device	7
Overview	
Frontside	
Backside	
Installation	0
Installation	7
Set Up and Operation	9
Control Modes	10
One Shark (Auto show, Built-in programs and Sound-controlled)	
Multiple Sharks (Master/Slave control)	10
Multiple Sharks (DMX Control)	11
Fixture Linking	12
Data Cabling	12
Control Panel	13
Control Mode	13
DMX Addressing	13
Menu Overview	14
Main Menu Options	
1. DMX Address	15
2. DMX Channel	15
3. Running Mode	
4. Programs	
5. Settings	
5.1. Calibration	
6. System Info	
Remote Control	
DMX Channels	
8 channels	
14 channels	
Maintenance	23
Replacing a Fuse	
Rotating Gobo Wheel + Color Wheel	
Troubleshooting	
No Light	
No Response to DMX	25
Product Specifications	27
Dimensions	28
	00



# 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 be returned in the original factory box and packing.

# Your shipment includes:

- Showtec Shark Spot One
- IEC power cable (1,5 m)
- 1 x mounting bracket
- 1 x safety eye
- 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 remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never lift the fixture holding it by the projector-head, as the mechanics may be damaged. Always hold the fixture by the transport handles.
- Never place any material over the lens.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never loosen the screws of the rotating gobo otherwise you risk opening of the ball bearing.
- Do not insert objects into air vents.
- 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 case closed while operating.
- Always allow a free air space of at least 50 cm 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.
- 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 might 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 fixture 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 Shark. 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.



CAUTION! Eyedamages!!!

Avoid looking directly into the lightsource!!!

(meant especially for epileptics)!!!





# **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 meter.
- To eliminate wear and improve lifespan, during periods of non-use, completely disconnect from power via breaker or by unplugging.
- The maximum ambient temperature  $t_a = 40^{\circ}$ 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

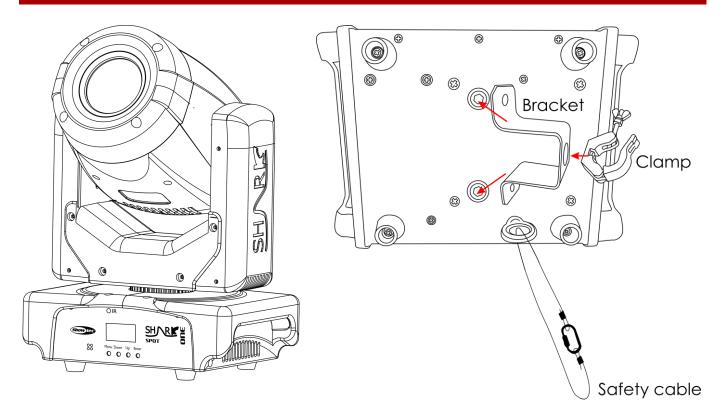
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself!
Always let the installation be carried out by an authorized dealer!

#### Procedure:

- If the Shark is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the Shark, with the mounting bracket, to the trussing system.
- The Shark 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.
- When rigging, derigging or servicing the Shark, always make sure, that the area below the installation site is secured and that there are not any unauthorized people around.





The Shark can be placed on a flat stage floor or mounted to any kind of truss with a clamp.

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

## 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.

<u>International</u>	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 <a href="mailto:aftersales@highlite.nl">aftersales@highlite.nl</a> 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 short-comings 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 Shark Spot One is a lighting fixture with high output and great effects.

- Input voltage: 100-240V AC, 50/60Hz
- Power consumption: 100W
- Light source: 1 x 60W White LED (8000K)
- Lux @1m: 44600Beam angle: 15°
- Control protocol: DMX-512DMX channels: 8, 14 channels
- Control modes: Auto, Built-in programs, Sound-controlled, Master/Slave, DMX-512
- Dimmer: 0-100%Strobe: 0-20HzPan range: 540°Tilt range: 270°
- Pan/Tilt resolution: 16bit
- Zoom: MotorizedPrism: 3-facet prism
- Rotating gobo wheel: 5 gobos + open
- Color wheel: 7 dichroic filters + white
- Gobo functions: Gobo flow, gobo shake
- Color functions: Rainbow flow effect
- Onboard: OLED display for easy setup
- Housing: Metal & flame retardant plastic
- Connections: 3-pin XLR connectors IN/OUT & IEC power IN
- Cooling: Cooling fan
- Color: BlackFuse: F2AL/250V
- Dimensions: 214 x 144 x 335 mm (LxWxH)
- Weight: 4,6 kg

# Overview

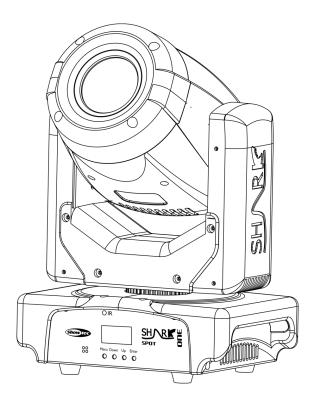


Fig. 01



# **Frontside**

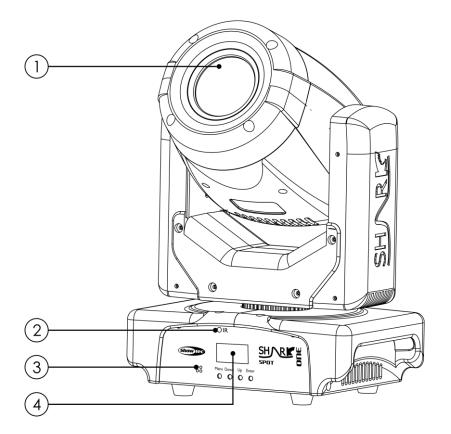


Fig. 02

- 01) 1 x 60W White LED
- 02) IR receiver
- 03) Built-in microphone
- 04) OLED display + control buttons

# **Backside**

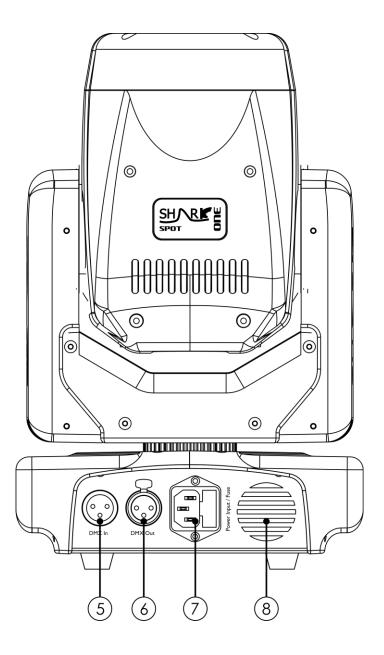


Fig. 03

- 05) 3-pin DMX signal connector IN
- 06) 3-pin DMX signal connector OUT
- 07) 100-240V IEC power connector IN + Fuse F2AL/250V
- 08) Cooling fan

# Installation

Remove all packing materials from the Shark Spot One. 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.

# **Set Up 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 120V specification product on 230V power, or vice versa. Connect the device to the main power supply.



#### **Control Modes**

There are 5 modes:

- Auto show
- Built-in programs
- Sound-controlled
- Master/Slave
- DMX-512 (8CH, 14CH)

#### One Shark (Auto show, Built-in programs and Sound-controlled)

- 01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 02) Plug the end of the electric mains power cord into a proper electric power supply socket.
- 03) When the Shark is not connected with a DMX cable, it functions as a stand-alone device.
- 04) Turn on the music. If the device is set to sound-control, then the Shark will react to the beat of the music.
- 05) Please see pages 15-16 for more information about the Auto show, Built-in programs and Sound-controlled mode.

### Multiple Sharks (Master/Slave control)

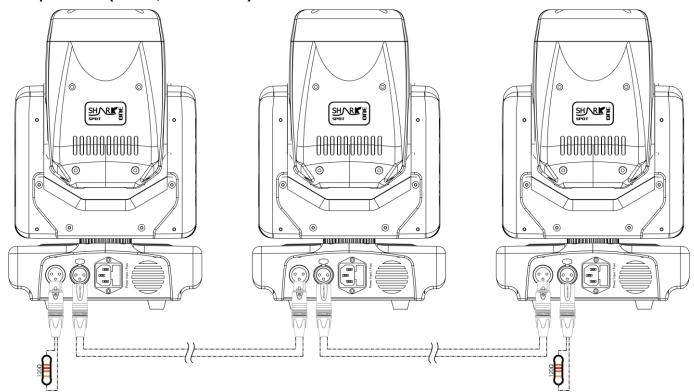
- 01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 02) Use a 3-pin XLR cable to connect the Shark.

The pins:



- 01) Earth
- 02) Signal -
- 03) Signal +
- 03) Link the units as shown in fig. 04. Connect the first unit's DMX "out" socket with the second unit's "in" socket, using a DMX signal cable. Repeat this process to link the second, third, and fourth units. You can use the same functions on the master device as described on pages 15-16 (Auto show, Built-in programs or Sound-controlled mode). This means that you can set your desired operation mode on the master device and all slave devices will react the same as the master device.

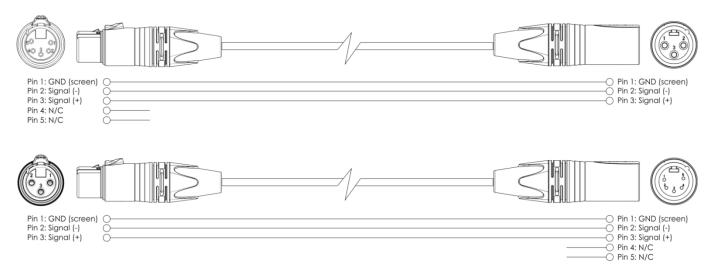
#### Multiple Sharks (Master/Slave control)





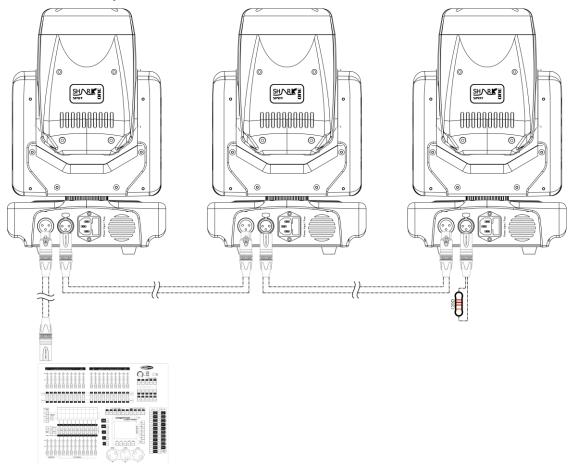
### **Multiple Sharks (DMX Control)**

- 01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 02) Always use a safety cable (ordercode 70140 / 70141).
- 03) Use a 3-pin XLR cable to connect the Sharks and other devices.



- 04) Link the units as shown in fig. 05. Connect the first unit's DMX "out" socket with the second unit's "in" socket, using a DMX-signal cable. Repeat this process to link the second, third, and fourth units.
- 05) Supply electric power: Plug electric mains power cords into each unit's IEC 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.

#### Multiple Sharks DMX Set Up



Note: Link all cables before connecting electric power

Show tec

# **Fixture Linking**

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

Maximum recommended number of devices on a power link @120V: 9 fixtures

Maximum recommended number of devices on a power link @230V: 18 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.

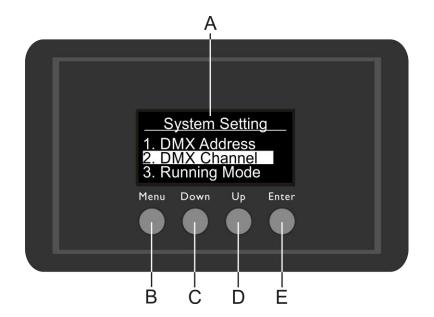
#### **DAP Audio DMX Data Cables**

- DAP Audio Basic microphone cable for allround use. bal. XLR/M 3-pin > XLR/F 3-pin.
   Ordercode FL01150 (1,5 m), FL013 (3 m), FL016 (6 m), FL0110 (10 m), FL0115 (15 m), FL0120 (20 m).
- DAP Audio X-type data cable XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FLX0175 (0,75 m), FLX01150 (1,5 m), FLX013 (3 m), FLX016 (6 m), FLX0110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL71150 (1,5 m), FL713 (3 m), FL716 (6 m), FL7110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL7275 (0,75 m), FL72150 (1,5 m), FL723 (3 m), FL726 (6 m), FL7210 (10 m).
- DAP Audio 110 Ohm cable with digital signal transmission. Ordercode FL0975 (0,75 m), FL09150 (1,5 m), FL093 (3 m), FL096 (6 m), FL0910 (10 m), FL0915 (15 m), FL0920 (20 m).



The Shark Spot One can be operated with a DMX controller in **control mode** or without a DMX controller in **stand-alone mode**.

## **Control Panel**



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

Fig. 06

#### **Control Mode**

The fixtures are individually addressed on a data-link and connected to the controller.

The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address, next time.)

## **DMX Addressing**

The control panel on the front side of the base allows you to assign DMX fixture addresses, which is the first channel with which the Shark will respond to the controller.

Please note, when you use the controller, the unit has 14 channels.

When using multiple Sharks, make sure you set the DMX addresses right.

Therefore, the DMX address of the first Shark should be **1(001)**; the DMX address of the second Shark should be **1+14=15 (015)**; the DMX address of the third Shark should be **15+14=29 (029)**, etc. Please, be sure that you do not have any overlapping channels in order to control each Shark correctly. If two or more Sharks are addressed similarly, they will work similarly.

#### Controlling:

After having addressed all Shark fixtures, you may now start operating these via your lighting controller. **Note:** After switching on, the Shark will automatically detect whether DMX 512 data is received or not. If there is no data received at the DMX-input, the "**LED**" on the control panel will not flash. If not, the problem may be:

- The XLR cable from the controller is not connected with the input of the Shark Spot One.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

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



# Display Off after 30 seconds



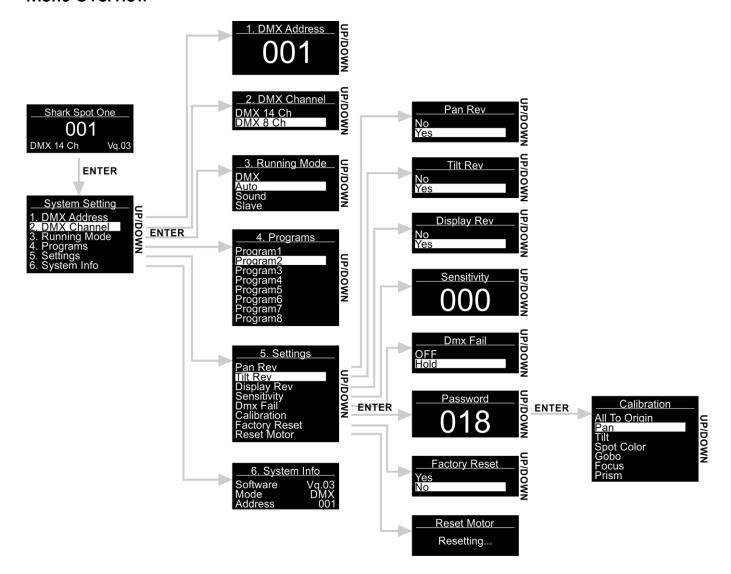
When no button is pressed for 30 seconds, the display will turn off.

To light up the display, you have to press the MENU, ENTER, UP or DOWN button.

Once you have pressed the button, the display will light up.



## **Menu Overview**





# **Main Menu Options**



- 01) Upon start-up, the Shark will show its current version number: DMX 14 Ch
- 02) Press the ENTER button to open main menu.
- 03) Press the **UP/DOWN** buttons to scroll through the menu. The display will show:



- 04) Press the ENTER button to open the desired menu.
- 05) Press the **MENU** button to return to the previous menu.

#### 1. DMX Address

With this menu you can set the DMX address.

- 01) In main menu, press the UP/DOWN buttons until the display shows DMX ADDRESS.
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to select the required address from 001-512.
- 04) Press the **ENTER** button to confirm the address.

#### 2. DMX Channel

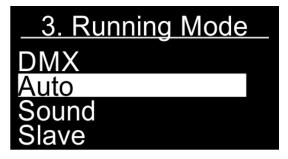
With this menu you can set the desired DMX channel mode.

- 01) In main menu, press the **UP/DOWN** buttons until the display shows DMX CHANNEL.
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to select one of the 2 DMX channel modes:
  - 14-channel mode
  - 8-channel mode
- 04) Press the **ENTER** button to confirm your choice.

#### 3. Running Mode

With this menu you can set the desired operation mode.

- 01) In main menu, press the **UP/DOWN** buttons until the display shows RUNNING MODE.
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to select one of the 4 operation modes. The display will show:



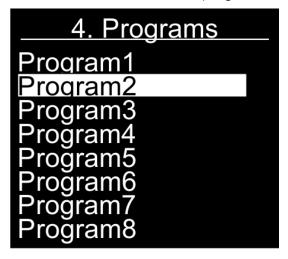


- 04) The operation modes are:
  - DMX: The Shark can be controlled via DMX controller.
  - Auto: The Shark will run the built-in programs.
  - Sound: The Shark will react to the beat of the background music.
  - Slave: If set to Slave, the Shark will react the same as the master device.
- 05) Press the **ENTER** button to confirm your choice.

#### 4. Programs

With this menu you can run individual built-in programs.

- 01) In main menu, press the **UP/DOWN** buttons until the display shows PROGRAMS.
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to select one of the 8 built-in programs.



- 04) Press the **ENTER** button to confirm your choice.
- 05) The device will now run the chosen built-in program.

# 5. Settings

With this menu you can set the Shark's settings.

- 01) In main menu, press the **UP/DOWN** buttons until the display shows SETTINGS.
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to select the desired submenu. The display will show:



- 04) Press the ENTER button to enter the desired submenu.
- 05) The submenus are:
  - Pan Rev: Pan reverse. Press the UP/DOWN buttons to choose between NO/YES.
  - Tilt Rev: Tilt reverse. Press the UP/DOWN buttons to choose between NO/YES.
  - Display Rev: Display reverse. Press the UP/DOWN buttons to choose between NO/YES.



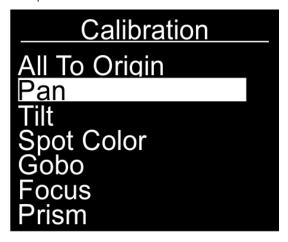
16

- Sensitivity: Sound sensitivity. Press the UP/DOWN buttons to set between 0-100, from OFF to high sound sensitivity.
- DMX Fail: The Shark's behavior in case of a DMX failure. Press the **UP/DOWN** buttons to choose between OFF (light output will be cut off) and HOLD (the Shark will use the last working DMX signal, ensuring undisrupted performance).
- Calibration: See 5.1. Calibration for more information.
- Factory Reset: Restore default settings. Press the UP/DOWN buttons to choose between NO/YES.
- Reset Motor: Reset the motor responsible for the movement of the moving head.
- 06) Once you have adjusted the settings, press the **ENTER** button to save changes.

#### 5.1. Calibration

With this menu you can set the initial parameters of the Shark.

- 01) Once you have chosen CALIBRATION (see above) press the **ENTER** button to open the menu.
- 02) You will now need to insert the password, in order to access the menu. Press the **UP/DOWN** buttons until the display shows **018** and press the **ENTER** button to confirm. The display will show:



03) The submenus are:

Ordercode: 45023

- All To Origin: Restore default calibration settings.
- Pan: Set the initial pan position.
- Tilt: Set the initial tilt position.
- Spot color: Set the initial spot color.
- Gobo: Set the initial gobo.
- Focus: Set the initial focus.
- Prism: Set the prism.
- 04) Once you have chosen the option which you would like to adjust, press the **ENTER** button to open the menu. The adjustment ranges are from 0-120.
- 05) Press the **UP/DOWN** buttons to adjust settings and press the **ENTER** button to save changes.

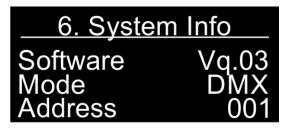


Ordercode: 45023

## 6. System Info

With this menu you can monitor the status of the Shark.

- 01) In main menu, press the **UP/DOWN** buttons until the display shows SYSTEM INFO.
- 02) Press the **ENTER** button to open the menu. The display will show:



03) It is now possible to view the current software version, currently active operation mode and the DMX starting address.



# **Remote Control**



Button	Function	Description
<u>U</u>	ON/OFF	Double-press the button (within 5 seconds) to switch IR mode ON or OFF.
RESET	Reset	Press the button to reset settings.
<b>*</b>	LEDs ON/OFF	Press the button to switch the LEDs ON/OFF.
CO1.9R	Colors	Press the button to switch colors.
GGEO	Gobos	Press the button to switch gobos.
COMO ROTATE	Gobo rotation	Press the button to switch gobo rotation ON/OFF.
FR SM	Prism	Press the button to switch the prism ON/OFF.
MACRO	Macro	Press the button to run auto programs.
FOCUS-	Focus	Press the buttons to set focus (0-100%).
DIM+ DIM-	Dimmer	Press the buttons to set the spot dimmer brightness. There are 8 steps (0-100%).
STRUME	Strobe	Press the button to set the spot strobe frequency. There are 8 steps (from low to high frequency).
CLLAR	Clear settings	Press the button to clear gobo, gobo rotation, color, strobe, macro and prism settings.
1 - 9/-	Function buttons	Press the buttons while in Auto, Sound-controlled or Pan/tilt manual mode.
AUTO	Auto mode	Press the button to activate Auto mode. Press the 1-8 buttons to select the desired built-in program.
SCAND	Sound-controlled mode	Press the button to activate Sound-controlled mode. Press the 1-9 buttons to set sound sensitivity (from low to high sensitivity).
F3TM	Pan/tilt manual	Press the button to activate manual positioning. Pan/tilt will be reset to their center position. Press the 5, 6, 8, 9 buttons to manually set pan/tilt.



## **DMX Channels**

#### 8 channels

## Channel 1 – Horizontal movement (Pan)

Move the slider up, in order to move head horizontally (PAN).

Gradual head adjustment from one end of the slider to the other (0-255, 128-center).

The head can be turned by 540° and stopped at any position you wish.

#### Channel 2 – Vertical movement (Tilt)

Move the slider up, in order to move head vertically (TILT).

Gradual head adjustment from one end of the slider to the other (0-255, 128-center).

The head can be turned by 270° and stopped at any position you wish.

#### Channel 3 - PAN/TILT Speed

0-255 From Max Speed (0) to Min. Speed (255)

#### Channel 4 - Dimmer

0-255 Dimmer intensity, from dark to brightest

Channel 5 – Strobe/Shutter 🛕 Di	Dimmer must be open 🛕
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	· ····································
0-9	Shutter open
10-250	Strobe ON, from low to high frequency
251-255	Shutter open

#### Channel 6 - Focus

0-255 Gradual focus adjustment

Channel 7 – Color/Gobo/Prism programs 🛕 Dimmer must be open 🛕
---

Color + gobo + sound-controlled prism

0-10	Not functional
11-20	White + open
21-30	Blue + gobo 1
31-40	Purple + gobo 2
41-50	Orange + gobo 3
51-60	White + gobo 4
61-70	White + gobo 5
71-80	White + open + prism
81-90	Blue + gobo 1 + rotation medium speed + prism
91-100	Purple + gobo 2 + rotation medium speed + prism
101-110	Orange + gobo 3 + rotation medium speed + prism
111-120	White + gobo 4 + rotation medium speed + prism
121-130	White + gobo 5 + rotation medium speed + prism
131-140	Auto play color + prism + gobo 1
141-150	Auto play color + prism + gobo 2
151-160	Auto play color + prism + gobo 3
161-170	Auto play color + prism + gobo 4
171-180	Auto play color + prism + gobo 5 + prism

#### Channel 8 – Functions

181-255

0-10	Not functional	
11-20	Built-in program 1	
21-30	Built-in program 2	
31-40	Built-in program 3	
41-50	Built-in program 4	
51-60	Built-in program 5	
61-70	Built-in program 6	



71-80	Built-in program 7
81-90	Built-in program 8
91-230	Sound-controlled mode, from OFF to high sound sensitivity
231-240	Reset (after 3 seconds)
241-255	Not functional

#### 14 channels

## Channel 1 – Horizontal movement (Pan)

Move the slider up, in order to move head horizontally (PAN). Gradual head adjustment from one end of the slider to the other (0-255, 128-center). The head can be turned by 540° and stopped at any position you wish.

#### Channel 2 – Pan fine 16 bit

#### Channel 3 – Vertical movement (Tilt)

Move the slider up, in order to move head vertically (TILT). Gradual head adjustment from one end of the slider to the other (0-255, 128-center). The head can be turned by 270° and stopped at any position you wish.

## Channel 4 – Tilt fine 16 bit

## Channel 5 - PAN/TILT Speed

0-255	From Max Speed	(0) to Min. Speed (	255)

#### Channel 6 – Dimmer

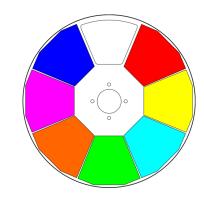
0-255 Dimmer intensity, from dark to brightest	0-255	Dimmer intensit	y, from da	ırk to brightest	
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Channel 7 – Strobe/Shutter	🚹 Dimmer must be open 🗘
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0-9	Shutter open
10-250	Strobe ON, from low to high frequency
251-255	Shutter open

# Channel 8 - Color Wheel

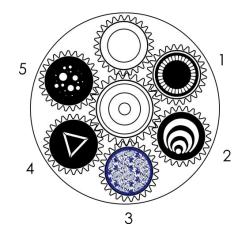
	Cildillicio	Color Wileer
	0-24	White (open)
	25-50	Color 1
Ī	51-75	Color 2
	76-100	Color 3
	101-125	Color 4
	126-150	Color 5
	151-175	Color 6
	176-200	Color 7
	201-255	Rainbow effect, from slow to fast





## Channel 9 – Rotating Gobo Wheel + Gobo Shake

0-10	Open / White
10-26	Gobo 1 (Metal)
27-43	Gobo 2 (Metal)
44-60	Gobo 3 (Glass)
61-77	Gobo 4 (Metal)
78-94	Gobo 5 (Metal)
95-114	Gobo Shake 1, from slow to fast
115-134	Gobo Shake 2, from slow to fast
135-154	Gobo Shake 3, from slow to fast
155-174	Gobo Shake 4, from slow to fast
175-194	Gobo Shake 5, from slow to fast
195-224	Gobo clockwise rotation, from fast to slow
225-255	Gobo counterclockwise rotation, from slow to fast



## Channel 10 - Gobo rotation

0-9	Stop
10-129	Clockwise rotation, from fast to slow
130-134	Stop
135-255	Counterclockwise rotation, from slow to fast

#### Channel 11 – Focus

0-255 Gradual focus adjustment

## Channel 12 – 3-facet prism

0-128	Prism OFF
129-255	Prism ON

Channel 13 – Color/Gobo/Prism programs A	<u> </u>



Channel	13 – Color/Gobo/Prism programs 224 Dimmer must be open 224
0-10	Not functional
11-20	White + open
21-30	Blue + gobo 1
31-40	Purple + gobo 2
41-50	Orange + gobo 3
51-60	White + gobo 4
61-70	White + gobo 5
71-80	White + open + prism
81-90	Blue + gobo 1 + rotation medium speed + prism
91-100	Purple + gobo 2 + rotation medium speed + prism
101-110	Orange + gobo 3 + rotation medium speed + prism
111-120	White + gobo 4 + rotation medium speed + prism
121-130	White + gobo 5 + rotation medium speed + prism
131-140	Auto play color + prism + gobo 1
141-150	Auto play color + prism + gobo 2
151-160	Auto play color + prism + gobo 3
161-170	Auto play color + prism + gobo 4
171-180	Auto play color + prism + gobo 5 + prism
181-255	Color + gobo + sound-controlled prism

#### Channel 14 – Functions

Charmer 14 - Foricions		
0-10	Not functional	
11-20	Built-in program 1	
21-30	Built-in program 2	
31-40	Built-in program 3	
41-50	Built-in program 4	
51-60	Built-in program 5	
61-70	Built-in program 6	



71-80	Built-in program 7
81-90	Built-in program 8
91-230	Sound-controlled mode, from OFF to high sound sensitivity
231-240	Reset (after 14 seconds)
241-255	Not functional

# Maintenance

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 operator has to make sure that safety-related and machine-technical installations are to be inspected by a skilled person once a year.

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 Shark Spot One 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.

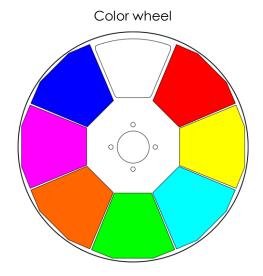
Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

# Replacing a 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 in the fuse cover. Gently pry up the fuse cover. The fuse 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.

# **Rotating Gobo Wheel + Color Wheel**



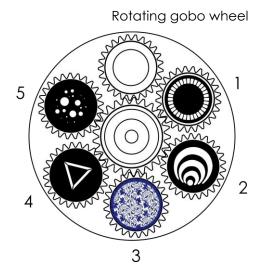


Fig. 07



Ordercode: 45023



# **Troubleshooting**

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 LEDs, the fuse.

- 01) Power supply. Check if the unit is plugged into an appropriate power supply.
- 02) The LEDs. Return the Shark to your Showtec dealer.
- 03) The fuse. Replace the fuse. See page 23 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 Shark, as this may damage the unit and the warranty will become void.
- 06) Return the device to your Showtec dealer.

# No Response to DMX

Ordercode: 45023

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

- 01) Check the DMX setting. 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.



Problem	Probable cause(s)	Remedy
One or more fixtures do not	No power to the fixture.	Check if power is switched on and cables are plugged in.
function at all	Primary fuse blown.	Replace fuse.
Fixtures reset	The controller is not connected.	Connect controller.
correctly, but all respond erratically or not at all to the controller.	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	Install a phase reversing cable between the controller and the first fixture on the link.
	Poor data quality	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.
Fixtures reset	Bad data link connection	<ul> <li>Inspect connections and cables.</li> <li>Correct poor connections. Repair or replace damaged cables.</li> </ul>
correctly, but some	Data link not terminated with 120	Insert termination plug in output jack of
respond erratically	Ohm termination plug.	the last fixture on the link.
or not at all to the	Incorrect addressing of the fixtures.	Check address setting.
controller.	One of the fixtures is defective and disturbs data transmission on the link.	<ul> <li>Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together.</li> <li>Have the defective fixture serviced by a qualified technician.</li> </ul>
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
Shutter closes suddenly	The color wheel, gobo wheel or a gobo has lost its index position and the fixture is resetting the effect.	Contact a technician for servicing the problem persists.
No light or LEDs out	Fixture is too hot.	<ul> <li>Allow fixture to cool.</li> <li>Clean fan.</li> <li>Make sure air vents are not blocked.</li> <li>Turn up the air conditioning.</li> </ul>
No light or LEDs cut out intermittently	LEDs damaged	Disconnect fixture and return to your dealer.
	The power supply settings do not match local AC voltage and frequency.	Disconnect fixture. Check settings and correct if necessary.



# **Product Specifications**

Model:	Showtec Shark Spot One
Input voltage:	100-240V, 50/60Hz
Power consumption:	100W
DMX linking:	30pcs
Fuse:	F2AL/250V
Dimensions:	214 x 144 x 335 mm (LxWxH)
Weight:	4,6 kg
Operating and Programming:	·-
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX Mode:	8, 14 channels
Signal input:	3-pin XLR IN
Signal output:	3-pin XLR OUT
Electro-mechanical effects:	
Light source:	1 x 60W White LED (8000K)
Lux @1m:	44600
Beam angle:	15°
Dimmer:	0-100%
Strobe:	0-20Hz
Housing:	Metal & flame retardant plastic
DMX-control:	via standard DMX controller
Onboard:	OLED display for easy setup
Control:	Auto, Built-in programs, Sound-controlled, Master/Slave,
	DMX-512
Pan range:	540°
Tilt range:	270°
Pan/Tilt resolution:	16bit
Zoom:	Motorized
Prism:	3-facet prism
Rotating gobo wheel:	5 gobos + open
Color wheel:	7 dichroic filters + white
Gobo functions:	Gobo flow, gobo shake
Color functions:	Rainbow flow effect
Connections:	3-pin XLR connectors IN/OUT & IEC power IN
Cooling:	Cooling fan
Color:	Black
Max. ambient temperature $t_a$ :	40°C
Max. housing temperature $t_B$ :	80°C
Max. Housing remperature 18.	
Minimum distance:	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	1 m

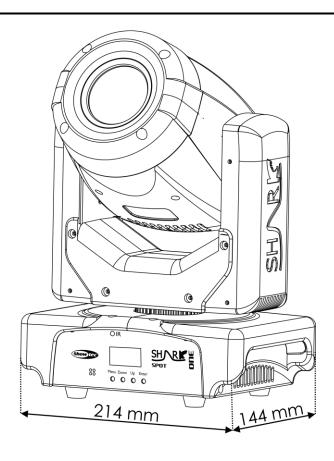
Design and product specifications are subject to change without prior notice.

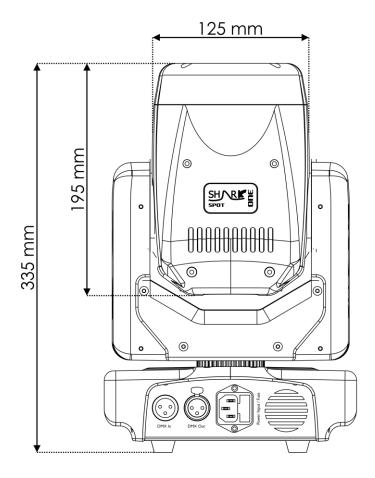


Website: <u>www.Showtec.info</u> Email: <u>service@highlite.nl</u>



# **Dimensions**







Notes	



Ordercode: 45023



Ordercode: 45023



