



Micro Spot

ORDERCODE 41370



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You have bought a great, innovative product from Showtec.

The Showtec Micro Spot brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

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We design and manufacture professional light equipment for the entertainment industry.

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Always get the best -- with Showtec !

Thank you!



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WARNING

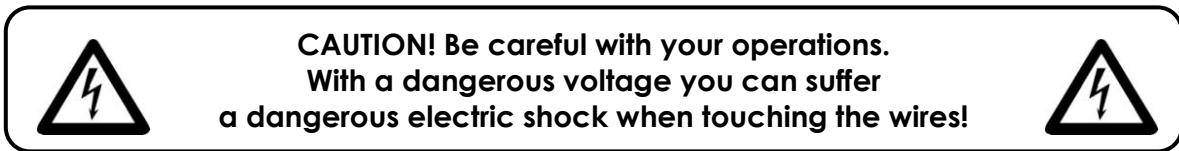


**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!**

SAFETY INSTRUCTIONS

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

- be qualified
- follow the instructions of this manual



Before your 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 written 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 run the device without lamp!
- Never ignite the lamp if the objective-lens or any housing-cover is open, as discharge lamps may expose and emit a high ultraviolet radiation, which may cause burns.
- Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never unscrew the screws of the rotating gobo, as the ball bearing will otherwise be opened.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the lamp's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot).
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.

- Only operate the fixture after having checked that 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 replace the lamp, when it is damaged or deformed due to the heat.
- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used, before cleaning or when replacing lamp! Only handle the power-cord 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. So that its functions are not impaired, due to cracks or deep scratches.
- If device is 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 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. Movinghead must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use lamps and fuses of same type and rating only.
- Allow time to cool down, before replacing lamp.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- 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 light source.
(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 more than 1.3 meter.

The maximum ambient temperature t_a must never be exceeded.

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, lamp explosion, crash etc.

You endanger your own safety and the safety of others!

Rigging

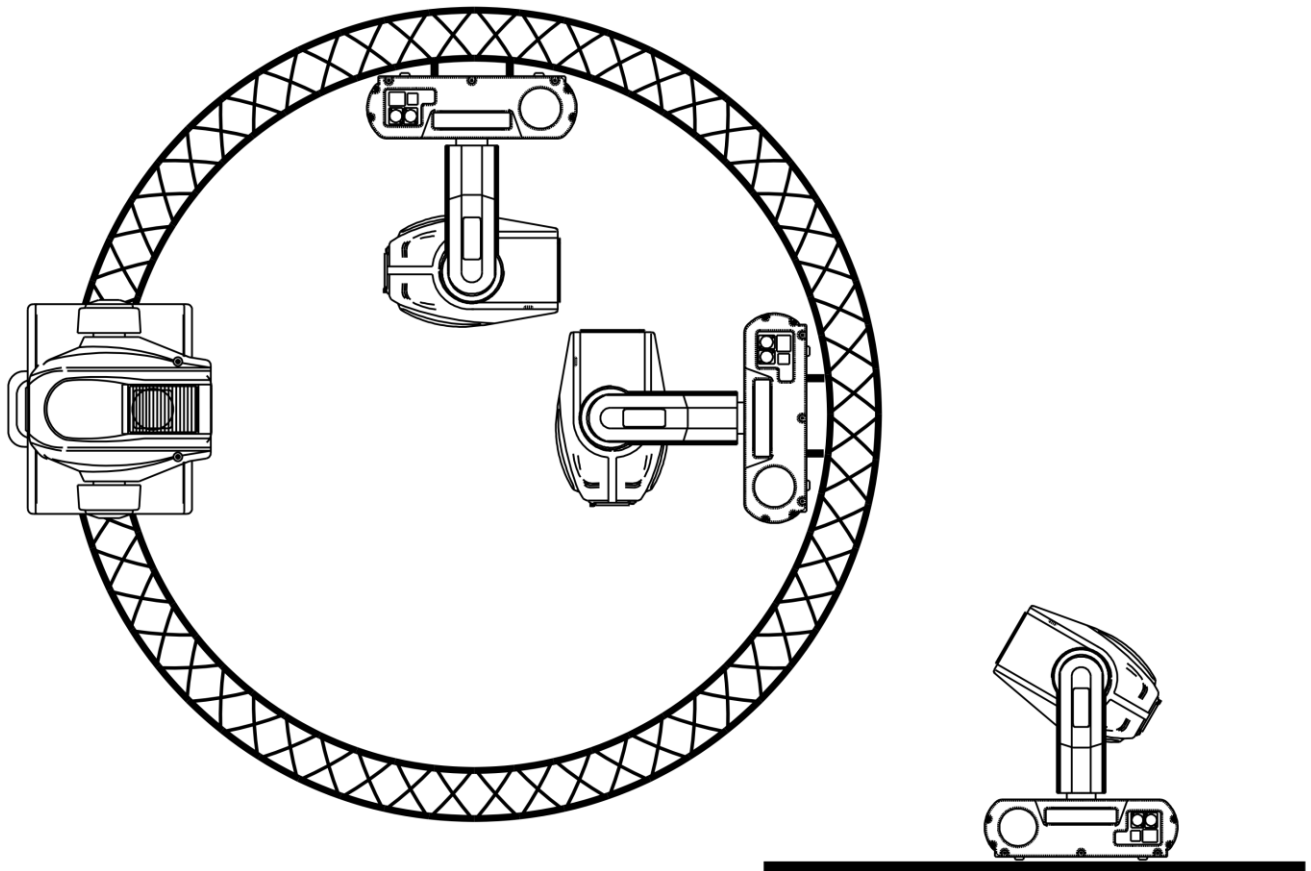
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !

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

Procedure:

- If the projector is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the projector, with the mounting-bracket, to the trussing system.
- The projector 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 projector, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.



The Micro Spot can be placed on a flat stage floor or mounted to any kind of truss by a clamp.


Mounting a clamp to the underside of the Micro Spot



Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
	YELLOW/GREEN	GREEN	GREEN	EARTH

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

Description of the device

Features

The Showtec Micro Spot is a moving-head with high output and great effects.

- Gobo wheel with 9 gobo's and rainbow function
- 15X 1 watt LED (5x Red, 5x Green, 5x Blue)
- RGB Colour mixing system
- 16 bit pan/tilt resolution
- DMX-control via standard DMX-controller
- 13/5 DMX-control channels required
- Strobe-effect with adjustable speed (1 - 10 flashes/sec.)
- Sound-controlled via built-in microphone
- Auto mode, music controlled, master-slave function
- Dimmer: mechanical 0-100%
- Pan 0° -- 540°
- Tilt 0° -- 270°
- Fuse T1A / 250V

Overview



1) Lens

Fig. 1

Backside



Fig. 2

- 2) IEC Connector + Fuse 1A/250V
- 3) DMX signal connector (IN)
- 4) Remote control
- 5) DMX signal connector (OUT)

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.

One Micro Spot

1. Fasten the moving/head onto firm trussing (Use a 30-kg rated or stronger C-clamp fastened onto the Micro Spot). Leave at least 1 meter on all sides for air circulation.
2. Plug one end of the electric mains power cord into the IEC socket on the unit.
Then plug the other end of the cord into a proper electric power supply socket.

Multiple Micro Spots

1. Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C-clamp fastened onto the Micro Spot). Leave at least 1 meter on all sides for air circulation.

2. Use a 3-p XLR cable to connect the Micro Spots and other devices.

The pins:



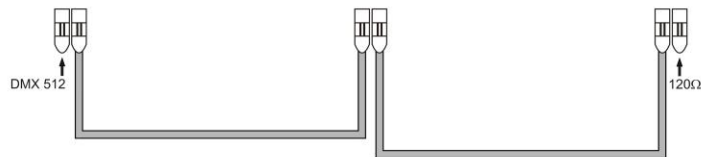
1. Earth
2. Signal -
3. Signal +

3. Link the units as shown in (figure 4), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
4. 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 Micro Spots Set Up



DMX-Set up



Master/Slave Set up

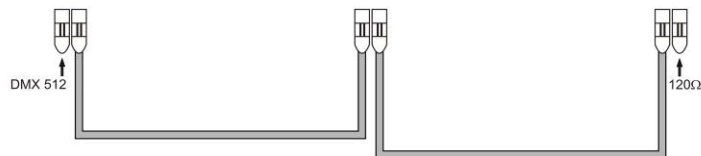


Fig. 3

Note : Link all cables before connecting electric power

DMX Protocol

5 Channel Mode

Channel 1 - Horizontal movement (Pan)

Push 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)

Push 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 – Shutter, strobe

0-7	Shutter close
8-134	Shutter open 100 – 0%
135-239	Strobe effect from slow to fast
240-255	Shutter open

Channel 4– Colours

0-7	Closed
8-21	Open / white
22-35	Red
36-49	Green
50-63	UV
64-77	Light Blue
78-91	Pink
92-105	Yellow
106-119	Magenta
120-133	Color correction 1
134-147	Light Green
148-161	Color correction 2
162-189	Color correction 3
190-203	Light Pink
204-217	Color correction 4
218-231	Color correction 5
232-255	Rainbow effect

Channel 5 – Static Gobos

					
	0~12	13~25	26~38	39~51	52~64
					
	65~77	78~90	91~103	104~116	117~127
128-191	Positive rainbow effect with increasing speed				
192-255	Negative rainbow effect with increasing speed				

13 Channel Mode

Channel 1 - Horizontal movement (Pan)

Push 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)

Push 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	Pan/Tilt controllable speed with decreasing
-------	---

Channel 6 – Shutter, strobe

0-7	Shutter close
8-134	Shutter open 100 – 0%
135-239	Strobe effect from slow to fast
240-255	Shutter open

Channel 7 – Red

0-255	Red from 0 – 100%
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Channel 8 – Green

0-255	Green from 0 – 100%
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Channel 9 – Blue

0-255	Blue from 0 – 100%
-------	--------------------

Channel 10 – Colours

0-7	Closed
8-21	Open / white
22-35	Red
36-49	Green
50-63	UV
64-77	Light Blue
78-91	Pink
92-105	Yellow
106-119	Magenta
120-133	Color correction 1
134-147	Light Green
148-161	Color correction 2
162-189	Color correction 3
190-203	Light Pink
204-217	Color correction 4
218-231	Color correction 5
232-255	Rainbow effect











Channel 11 – LED Speed

0-255	Color change with from fast to slow
-------	-------------------------------------

Channel 12 – Auto Program

0-7	No Function
8-22	Auto Program 1
23-37	Auto Program 2
38-52	Auto Program 3
53-67	Auto Program 4
68-82	Auto Program 5
83-97	Auto Program 6
98-112	Auto Program 7
113-127	Auto Program 8
128-142	Sound Control 1
143-157	Sound Control 2
158-172	Sound Control 3
173-187	Sound Control 4
188-202	Sound Control 5
203-217	Sound Control 6
218-232	Sound Control 7
233-255	Sound Control 8

Channel 13 – Static Gobos

	    
	<p>0~12 13~25 26~38 39~51 52~64</p>
	    
	<p>65~77 78~90 91~103 104~116 117~127</p>
128-191	Positive rainbow effect with increasing speed
192-255	Negative rainbow effect with increasing speed

The Micro Spot can be operated with a controller in **control mode** or without the controller in **stand-alone mode**.

Control Panel

When the indicator light is on, means the Micro Spot is working.



Fig. 4

Control Mode

The fixtures are individually addressed **001-511** 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 the next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the Micro Spot will respond to the controller.

Please note when you use the controller, the unit has **13** channels.

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

Therefore, the DMX address of the first Micro Spot should be **1(001)**; the DMX address of the second Micro Spot should be **1+13=14 (014)**; the DMX address of the third Micro Spot should be **14+13=27 (027)**, etc.

Please, be sure that you don't have any overlapping channels in order to control each Micro Spot correctly. If two or more Micro Spots are addressed similarly, they will work similarly.

For address settings, please refer to the instructions under "Addressing" (menu **000i**)

Controlling:

After having addressed all Micro Spot fixtures, you may now start operating these via your lighting controller.

Note: After switching on, the Micro Spot 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.

The problem may be:

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

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

MODE 1: **d001** as default mode. Receive DMX512 signal, set the desired address via the UP/DOWN buttons.

d001 DMX mode: select channel 1 - channel 512

MODE 2: press the MODE/ESC button until the display shows **nStA** / **nStS** / **nStc** / **SLAv** and set the desired function via UP/DOWN buttons, **nStA** as master auto mode, **nStS** As master sound control mode, **nStc** as easy controller mode and **SLAv** as slave mode. Press the ENTER button confirm the function and then **nStA** will change to **nrUn**, **nStS** will change to **SrUn**, **nStc** will change to **crUn** and will change to **son**.

nStA → **nrUn** Master mode: master auto mode

nStS → **SrUn** Master mode: master sound control mode

nStc → **crUn** Master mode: Easy controller mode

SLAv → **son** Slave mode: slave

MODE 3: Press the MODE/ESC button until the display shows **PA_n** / **rPA_n** and set the desired function via UP/DOWN buttons, **PA_n** as pan positive mode and **rPA_n** as pan negative mode. Press the ENTER button confirm the function and the display will shows "DMX" or "master/slave" mode that you selected before.

PA_n Pan mode: Positive

rPA_n Pan mode: Negative

MODE 4: Press the MODE/ESC button until the display shows **t_{iL}** / **rt_{iL}** and set the desired function via UP/DOWN buttons, **t_{iL}** as tilt positive mode and **rt_{iL}** as tilt Negative mode. Press the ENTER button confirm the function and the display will shows "DMX" or "MASTER/SLAVE" mode that you selected before.

t_{iL} Tilt mode: Positive

rt_{iL} Tilt mode: Negative

MODE 5: Press the MODE/ESC button until the display shows **d_{iS}** / **rd_{iS}** and set desired function via UP/DOWN buttons. **d_{iS}** as LED positive mode and **rd_{iS}** as LED Negative mode. Press the ENTER button confirm the function and the display will shows "DMX" or "MASTER/SLAVE" mode that you selected before.

d_{iS} LED mode: Positive

rd_{iS} LED mode: Negative

MODE 6: Press the MODE/ESC button until the display shows **13CH** / **5CH**. Select the desired function using the UP/DOWN buttons. Press the ENTER button confirm the function and the display will shows "DMX" or "MASTER/SLAVE" mode that you selected before.

13CH 13 Channels

5CH 5 Channels

MODE 7: Select the scan angle for PAN. (just for Master/Slave and sound control) Press the MODE/ESC button until the display shows **PA54** / **PA36** / **PA18**. Select the desired function using the UP/DOWN buttons. Press the ENTER button confirm the function and the display will shows "DMX" or "MASTER/SLAVE" mode that you selected before.

PA54	PAN 540°
PA36	PAN 360°
PA18	PAN 180°

MODE 8: Select the scan angle for TILT. (just for Master/Slave and sound control) Press the MODE/ESC button until the display shows **t.27** / **t.18** / **t.9**. Select the desired function using the UP/DOWN buttons. Press the ENTER button confirm the function and the display will shows "DMX" or "MASTER/SLAVE" mode that you selected before.

t.27	TILT 270°
t.18	TILT 18°
t.9	TILT 90°

MODE 9: Press the MODE/ESC button until the display shows **rEst**. Press the ENTER button will system reset.

rEst	System reset
-------------	--------------

MODE 10: Press the MODE/ESC button until the display shows **LoAd**. Press the ENTER button will go back to the default mode.

LoAd	Load default
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Static gobo-wheel

This static gobo-wheel has 9 gobos and open.

Shutter/Dimmer/Strobe

The dimming (0-100%) is provided by a simple mechanical shutter unit. This unit may also be used for strobe effect (1-10 flashes per second).

Stand-alone Mode

The fixtures on a data-link are not connected to the controller, but can execute pre-set programs, which can be different for every fixture.

To set the program to be played, see the page 13. Stand-alone operation" can be applied to a single fixture (the fixture may be set to the master/slave mode or controller mode) or to multiple fixture operating synchronously.

For synchronous operation of multiple fixtures the fixtures must all be connected on a data-link and one of them is set as a master (master mode) and the rest as slaves (slave mode). The DMX address of all the slaves are assigned to 001 and on that particular slave address only one fixture can be connected. To the fixture as the master or slave, see "Addressing" (menu 001).

If the master fixture resets or runs a test (program), all slaves will execute these acts too.

You can't play or edit any program on a slave, if the master is switched on and connected to the master/slave chain.

Note: Disconnect the fixtures from the DMX controller before master/slave operating, otherwise data collisions can occur and the fixtures will not work properly!

It's necessary to insert the XLR termination plug (with 120 Ohm) into the input of the master fixture and into the output of the last slave fixture in the data-link, in order to ensure proper transmission on the data link.

From the master's control panel it is possible to control any slave in a master/slave chain.

Channels settings

Mode 13 Channels

1. Pan
2. Pan Fine 16 bit
3. Tilt
4. Tilt fine 16 bit
5. Pan/Tilt Speed
6. Shutter
7. Red
8. Green
9. Blue
10. Colours
11. LED Speed
12. Auto Program
13. Static Gobos

Mode 5 Channels

1. Pan
2. Pan Fine 16 bit
3. Shutter
4. Colours
5. Static Gobos

Gobowheel Static



Fig. 5

Maintenance

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

The operator has to make sure that safety-relating 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:

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

The Showtec Micro Spot 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 PC lens will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly.

The cooling-fans, the gobo-wheel, the gobos and the internal lenses should be cleaned monthly with a soft brush.

Please clean internal components once a year with a light brush and vacuum cleaner.

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 to do so.

1. Unplug the unit from electric power source.
2. Insert a flat-head screwdriver into a slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

No Light, No Movement - All Products

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

Response: Suspect three potential problem areas: the power supply, the lamp, the fuse.

1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The LEDs. Return the device to your Showtec dealers.
3. The fuse. Replace the fuse. See page 17 for replacing the fuse.

No Response to DMX

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

1. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
2. 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.

See next page for more problem solving.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	No power to the fixture	· Check that power is switched on And cables are plugged in.
	Primary fuse blown.	· Replace fuse.
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	· Connect 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.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	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.
	Bad data link connection	· Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	· Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures.	· Check address setting.
	One of the fixtures is defective and disturbs data transmission on the link.	· Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. · Have the defective fixture serviced by a qualified technician.
	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 gobo wheel has lost its index position and the fixture is resetting the effect.	· Contact a technician for servicing if the problem persists.
No light	The power supply settings do not match local AC voltage and frequency.	· Disconnect fixture. Check settings and correct if necessary.
	LEDs broken	· Disconnect fixture and return to your dealer.
Lamp cuts out intermittently.	Fixture is too hot.	· Allow fixture to cool. · Clean fan. · Make sure air vents at control panel and front lens are not blocked. · Turn up the air conditioning.
	The power supply settings do not match local AC voltage and frequency.	· Disconnect fixture. Check settings and correct if necessary.

Product Specification

Model: Showtec Micro Spot
Voltage: 240V-50Hz (CE)
Power: 50W
Fuse: 1A / 250V
Dimensions: 175x175x225mm (LxWxH)
Weight: 3,74 kg

Operation and Programming

Signal pin OUT: pin 1 earth, pin 2 (-), pin 3 (+)
Set Up and Addressing: LED control panel
DMX Channels: 5 / 13
Signal input 3-pin XLR male
Signal output 3-pin XLR female

Electro-mechanical effects

Static Gobos: 9 metal gobos and open
All lenses are anti-reflection coated
High luminous-efficiency parabolic system
Strobe-effect with variable speed (1 flash -- 10 flashes/sec.)
DMX-control via standard DMX-controller
Sound-controlled via built-in microphone
Pan 0° -- 540°
Tilt 0° -- 270°

Gobos

Glass gobo: heat-resistant and intensify glass; dichroic glass coating
Max. ambient temperature t_a : 40°C; Max. housing temperature t_B : 80°C

Minimum distance:

Minimum distance from flammable surfaces: 0.5m
Minimum distance to lighted object: 1.3m



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



Website: www.Highlite.nl

Email: service@highlite.nl





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