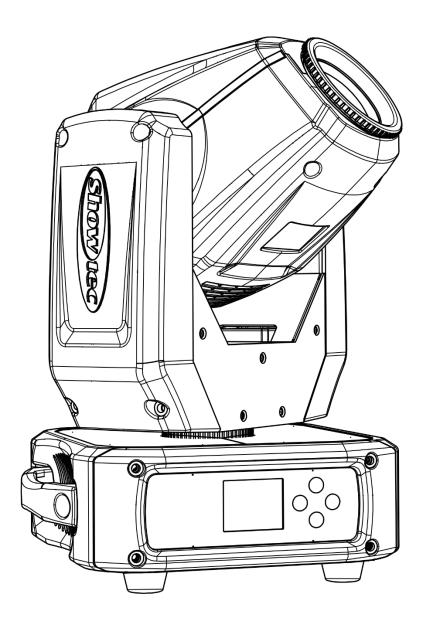


MANUAL



ENGLISH

Phantom 65

V1

Ordercode: 40070

Phantom 65

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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 Phantom 65
- Pro power cable (1,5 m)
- 1 x quick lock bracket
- 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 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, so that its functions are not impaired due to cracks or deep scratches.
- If device was dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water 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. Moving head 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 Phantom. 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.
- The maximum ambient temperature $t_a = 40$ °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!

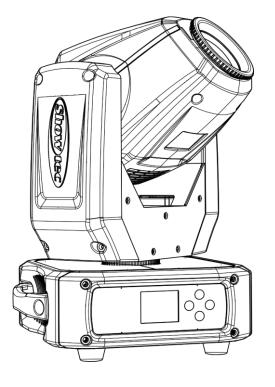
Rigging

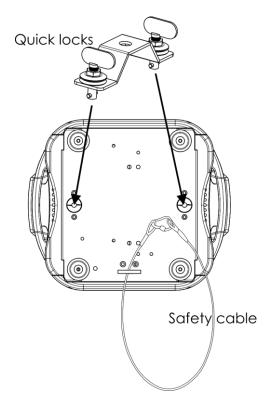
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

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

Procedure:

- If the Phantom is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the Phantom, with the mounting bracket, to the trussing system.
- The Phantom 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 site is secured and that there are not any unauthorized people around.





The Phantom can be placed on a flat stage floor or mounted to any kind of truss with quick locks and 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.

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

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

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





Return Procedure



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

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

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

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any 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 Phantom 65 is a moving head with high output and great effects.

- Input voltage: 100-240V AC, 50/60Hz
- Power consumption: 125W
 Light source: 1 x 65W White LED
 Light output: 1870 Lux @ 5 m
- Dimmer: 0-100%Strobe: 0-20HzBeam angle: 16°
- Focus: Manual focus
- DMX control: via standard DMX controller
- DMX channels: 8, 13 channels
- Built-in automatic programs + built-in sound-activated programs
- Reverse Pan / Tilt movement
- Special: Pan / Tilt movement blackout
- Pan 0° -- 540°, Tilt 0° -- 270°
- Pan/Tilt resolution: 16 bit
- Control: Stand alone, Manual, Sound-controlled, Master/Slave, DMX-512
- Color wheel: 8 dichroic colors + white
- Rotating gobo wheel: 6 metal gobos + 1 glass gobo
- Gobo size: Glass gobo: 23,75 mm (gobo size); 21 mm (image diameter); 1,31 mm (gobo thickness)
 Metal gobo: 24 mm (gobo size); 20 mm (image diameter); 0,29 mm (gobo thickness)
- Color functions: Split colors, Rainbow-flow effect
- Gobo functions: Gobo-flow effect, Gobo shake
- Rotation: Bi-directional
- Prism: 3-facet prism
- Housing: Metal & flame-retardant plastic
- Connection: 3-pin XLR IN/OUT, Pro power connector IN/OUT
- Fuse: F3AL/250V
- Dimensions: 230 x 200 x 365 mm (LxWxH)
- Weight: 6,2 kg

Frontside

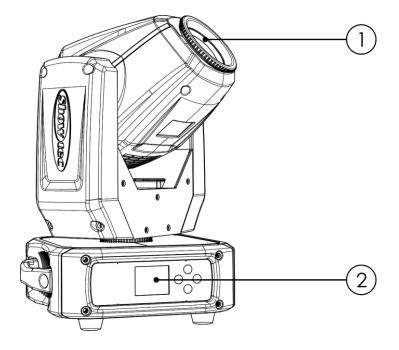


Fig. 01

- 01) 1 x 65W White LED
- 02) LCD display + control buttons



Backside

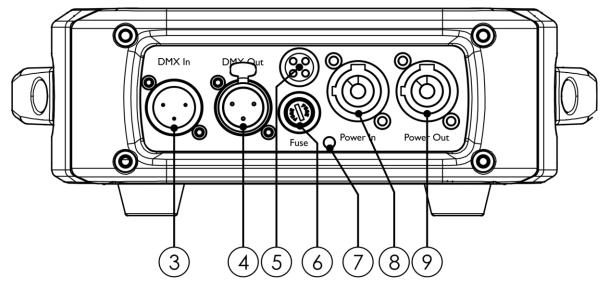


Fig. 02

- 03) 3-pin DMX signal connector IN
- 04) 3-pin DMX signal connector OUT
- 05) Built-in microphone
- 06) Fuse F3AL/250V
- 07) Ground/earth connection
- 08) 100-240V Pro power connector IN
- 09) 100-240V Pro power connector OUT

Installation

Remove all packing materials from the Phantom 65. 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:

- Stand-alone (Auto)
- Manual
- Sound-controlled
- Master/Slave
- DMX-512 (8CH, 13CH)

One Phantom (Auto, Manual)

- 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 Phantom is not connected with a DMX cable, it functions as a stand-alone device. Please see pages 14-15 for more information about the Auto mode and Manual mode.

One Phantom (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) Turn on the music. If the device is set to sound-control, then the Phantom will react to the beat of the music. Please see page 14 for more information about the sound-control options.

Multiple Phantoms (Master/Slave control)

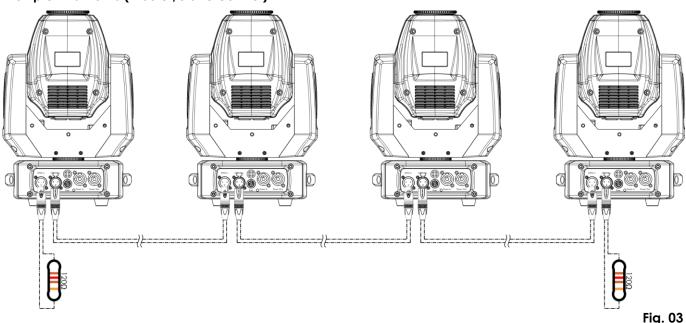
- 01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 02) Use a 3-pin XLR cable to connect the Phantom.

The pins:



- 01) Earth
- 02) Signal -
- 03) Signal +
- 03) Link the units as shown in fig. 03. 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 page 14-15 (Auto mode, Manual mode 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.

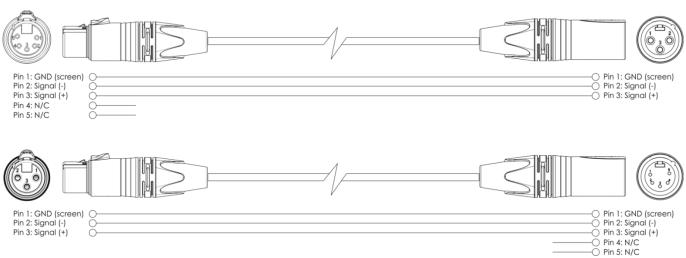
Multiple Phantoms (Master/Slave control)





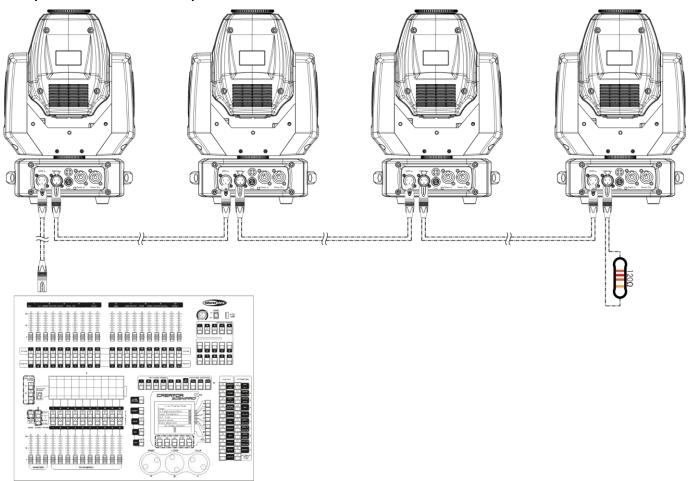
Multiple Phantoms (DMX Control)

- 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 Phantoms and other devices.



- 04) 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.
- 05) Supply electric power: Plug electric mains power cords into each unit's Pro power 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 Phantoms DMX Set Up



Note: Link all cables before connecting electric power

Fig. 04



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 fixtures on a power link @ 110V: 7 fixtures

Maximum recommended number of fixtures on a power link @ 230V: 15 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

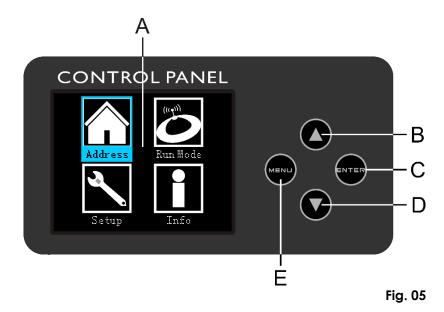
Ordercode: 40070

- 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 Phantom 65 can be operated with a controller in **control mode** or without the controller in **stand-alone mode**.

Control Panel



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

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 Phantom will respond to the controller.

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

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

Therefore, the DMX address of the first Phantom should be 1(001); the DMX address of the second Phantom should be 1+13=14 (014); the DMX address of the third Phantom should be 14+13=27 (027), etc. Please, be sure that you do not have any overlapping channels in order to control each Phantom correctly. If two or more Phantoms are addressed similarly, they will work similarly.

Controlling:

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

Note: After switching on, the Phantom 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 Phantom 65.
- 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 35 seconds



When no button is pressed for 35 seconds, the display will turn off. To light up the display, you have to press the MENU or ENTER button.

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



Menu Overview







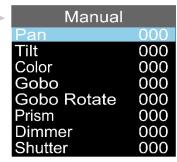


Running Mode

DMX 13CH
Slave Slave1
Auto
Sound
Manual

Advanced Setting

ENTER



Up/Down



Pan Reverse OFF
Tilt Reverse OFF
Screen Reverse OFF
Pan Angle 540
Tilt Angle 270
Dimmer Speed Fast
Sensitivity 001
Reset
Factory Reset



System Information Ver: V5

Running Mode: DMX Dmx Address: 001 Temperature: 039

Main Menu Options



DMX Addressing



DMX mode / Master-Slave / Auto / Sound-controlled / Manual



Pan and Tilt Reverse / Screen Reverse / Pan and Tilt Angle / Sound Sensitivity / Reset / Factory Reset



System Information

Upon start-up, the device will show its currently active mode, as well as the information concerning Pan and Tilt. Press the **MENU** or **ENTER** buttons to enter the main menu.



DMX Addressing

With this menu you can set the DMX address.



- 01) Press the **UP/DOWN** buttons, until the display shows Addr
- 02) Press the **ENTER** button to confirm. You can choose 512 different DMX addresses.
- 03) Press the **UP/DOWN** buttons to select the required address from 001-512.
- 04) Press the ENTER button to confirm the address.

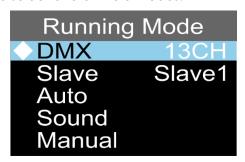


Built-in Programs Mode

You can run the auto programs when using the Phantom.



- 01) While in the main menu, press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to select one of the 5 modes:



1. DMX Mode

- 01) When the display shows DMX, press the **ENTER** button to open the menu.
- 02) Press the **UP/DOWN** buttons to toggle between the 2 channel modes:
 - 8 channels
 - 13 channels
- 03) Press the **ENTER** button to confirm your choice.

2. Slave Mode

- 01) Press the **UP/DOWN** buttons until the display shows SLAVE.
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to set the device as the first, second, third or fourth slave device (Slave1-Slave4).
- 04) Press the **ENTER** button to save changes.
- 05) The device is now operating in the slave mode. It means that it will react the same as the master device. You can connect up to 4 slave devices to one master device.

3. Auto Mode

- 01) Press the **UP/DOWN** buttons until the display shows AUTO.
- 02) Press the **ENTER** button to activate the Auto mode.
- 03) The device will now run the built-in auto show.

4. Sound-controlled Mode

- 01) Press the **UP/DOWN** buttons until the display shows SOUND.
- 02) Press the **ENTER** button to activate the Sound-controlled mode.
- 03) The device will now react to the beat of the background music by means of the built-in microphone.



5. Manual Mode

- 01) Press the **UP/DOWN** buttons until the display shows MANUAL.
- 02) Press the ENTER button to activate the Manual mode.
- 03) The display will show:

Manual	
Pan	000
Tilt	000
Color	000
Gobo	000
Gobo Rotate	000
Prism	000
Dimmer	000
Shutter	000

- 04) Press the **UP/DOWN** buttons to choose one of the following options:
 - Pan (Pan position: 0-540°)
 - Tilt (Tilt position: 0-270°)
 - Color (0-255)
 - Gobo (0-255)
 - Gobo Rotate (0-255, clockwise, counterclockwise, gobo bounce)
 - Prism (0-255)
 - Dimmer (0-255, from dark to brightest)
 - Shutter (0-255)
- 05) Press the **ENTER** button to edit the desired option. The adjustment range for each option is between 0-255.
- 06) Press the **UP/DOWN** buttons to set the value.
- 07) Press the **ENTER** button to save changes.
- 08) The options correspond with the functions described in the DMX charts, pages 17-21.



Advanced Settings



- 01) While in the main menu, press the UP/DOWN buttons until the display shows
- 02) Press the ENTER button to open the menu.
- 03) The display will show:

Advanced Set	ting
Pan Reverse	OFF
Tilt Reverse	OFF
Screen Reverse	OFF
Pan Angle	540
Tilt Angle	270
Dimmer Speed	Fast
Sensitivity	001
Reset	
Factory Reset	

- 04) Press the **UP/DOWN** buttons to toggle between the following options:
 - Pan Reverse (ON/OFF)
 - Tilt Reverse (ON/OFF)
 - Screen Reverse (ON/OFF)
 - Pan Angle (180°/360°/540°)
 - Tilt Angle (90°/180°/270°)
 - Dimmer Speed (Fast/Smooth)
 - Sensitivity (001-100, from low to high sound sensitivity)
 - Reset (Pan/Tilt reset)
 - Factory Reset (Full reset, restores factory settings)
- 05) Press the **ENTER** button to edit the desired option.
- 06) Press the **UP/DOWN** buttons to set the value.
- 07) Press the **ENTER** button to save changes.

System Information

In this menu you can see the currently active mode, the DMX starting address, the current software version and the temperature of the device.

- 01) While in the main menu, press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu and view the parameters.

System Information
Ver: V5
Running Mode: DMX
Dmx Address: 001
Temperature: 039



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 – Dimmer intensity

0-255 From dark to brightest

Channel 4 - Strobe

Cildillici 4	SHODE
0-7	Not functional
8-15	Open
16-131	Synchronized strobe, from low to high frequency
132-167	Fast close/slow open strobe, from low to high frequency
168-203	Slow close/fast open strobe, from low to high frequency
204-239	Pulse strobe, from low to high frequency
240-250	Random strobe effect, from low to high frequency
251-255	Open

Channel 5 - Color wheel

Linear color change following the movement of the slider. Between 128-191 and 192-255, the color wheel rotates continuously (so-called "Rainbow" effect).

0-6	Open / White
7-13	Red
14-20	Yellow
21-27	Green
28-34	Light Blue
35-41	Orange
42-48	Pink
49-55	Light Green
56-64	UV
65-71	Split color White/Red
72-78	Split color Red/Yellow
79-85	Split color Yellow/Green
86-92	Split color Green/Light Blue
93-99	Split color Light Blue/Orange
100-106	Split color Orange/Pink
107-113	Split color Pink/Light Green
114-120	Split color Light Green/UV
121-127	Split color UV/White
128-191	Clockwise rotation (CW) rainbow effect from slow to fast
192-255	Counterclockwise rotation (CCW) rainbow effect from slow to fast



Phantom 65

Channel 6 -	- Rotatina	Gobo	wheel +	Gobo	Shake
-------------	------------	------	---------	------	-------

0-7	Open / White	
8-15	Gobo 1 (Glass)	
16-23	Gobo 2 (Metal)	
24-31	Gobo 3 (Metal)	6
32-39	Gobo 4 (Metal)	
40-47	Gobo 5 (Metal)	
48-55	Gobo 6 (Metal)	
56-63	Gobo 7 (Metal)	
64-71	Gobo Shake 7 from slow to fast	
72-79	Gobo Shake 6 from slow to fast	
80-87	Gobo Shake 5 from slow to fast	
88-95	Gobo Shake 4 from slow to fast	
96-103	Gobo Shake 3 from slow to fast	
104-111	Gobo Shake 2 from slow to fast	
112-119	Gobo Shake 1 from slow to fast	
120-127	Open / White	
128-191	Clockwise rotation (CW) rainbow effect from slow to fast	
192-255	Counterclockwise rotation (CCW) rainbow effect from slow to fast	



Channel 7 – Gobo rotation

Cildilici /	CODO TOTALION
0-7	No function
8-119	Clockwise rotation (CW) from slow to fast
120-231	Counterclockwise rotation (CCW) from slow to fast
232-255	Gobo bouncing, from quick short bounce to longer rotation bounce

Channel 8 – Prism

0-15	Not functional
16-255	Prism



13 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 fine 16 bit

Channel 4 - Tilt fine 16 bit

	Channel	5 –	PAN	/TILT	Speed
--	---------	-----	-----	-------	-------

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

Channel 6 – Dimmer intensity

0-255 From dark to brightest

Channel 7 - Strobe

0-7	Not functional
8-15	Open
16-131	Synchronized strobe, from low to high frequency
132-167	Fast close/slow open strobe, from low to high frequency
168-203	Slow close/fast open strobe, from low to high frequency
204-239	Pulse strobe, from low to high frequency
240-250	Random strobe effect, from low to high frequency
251-255	Open

Channel 8 - Color wheel

Linear color change following the movement of the slider. Between 128-191 and 192-255, the color wheel rotates continuously (so-called "Rainbow" effect).

0-6	Open / White
7-13	Red
14-20	Yellow
21-27	Green
28-34	Light Blue
35-41	Orange
42-48	Pink
49-55	Light Green
56-64	UV
65-71	Split color White/Red
72-78	Split color Red/Yellow
79-85	Split color Yellow/Green
86-92	Split color Green/Light Blue
93-99	Split color Light Blue/Orange
100-106	Split color Orange/Pink
107-113	Split color Pink/Light Green
114-120	Split color Light Green/UV
121-127	Split color UV/White
128-191	Clockwise rotation (CW) rainbow effect from slow to fast
192-255	Counterclockwise rotation (CCW) rainbow effect from slow to fast



0-7	Open / White	7
3-15	Gobo 1 (Glass)	
6-23	Gobo 2 (Metal)	
24-31	Gobo 3 (Metal)	6 (O) ((o))
32-39	Gobo 4 (Metal)	
10-47	Gobo 5 (Metal)	
18-55	Gobo 6 (Metal)	5
6-63	Gobo 7 (Metal)	4
4-71	Gobo Shake 7 from slow to fast	-
'2-79	Gobo Shake 6 from slow to fast	
30-87	Gobo Shake 5 from slow to fast	
88-95	Gobo Shake 4 from slow to fast	
6-103	Gobo Shake 3 from slow to fast	
04-111	Gobo Shake 2 from slow to fast	
12-119	Gobo Shake 1 from slow to fast	
20-127	Open / White	
28-191	Clockwise rotation (CW) rainbow effect from slow to fast	
92-255	Counterclockwise rotation (CCW) rainbow effect from slow to fast	
	10 – Gobo rotation	
)-7	No function	
3-119	Clockwise rotation (CW) from slow to fast	
20-231	Counterclockwise rotation (CCW) from slow to fast	
32-255	Gobo bouncing, from quick short bounce to longer rotation bounce	
Channel	11 Driem	
	1 1 = F118111	
)-15	Not functional	
)-15 6-255	Not functional	
)-15 6-255 Channel	Not functional Prism	
)-15 6-255 Channel)-7	Not functional Prism 12 – Channel Functions Not functional	
0-15 6-255 Channel 0-7 3-27	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement	
0-15 6-255 Channel 0-7 3-27 28-47	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement	
0-15 6-255 Channel 0-7 3-27 28-47 48-67	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement	
0-15 6-255 Channel 0-7 3-27 28-47 18-67 58-107	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement	
2-15 6-255 Channel 2-7 3-27 28-47 48-67 58-107 08-127	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement	nt
0-15 6-255 Channel 0-7 3-27 28-47 48-67 58-107 08-127 28-147	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement	nt
0-15 16-255 Channel 0-7 3-27 28-47 48-67 68-107 108-127 128-147 148-157	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan	nt
Channel D-7 3-27 28-47 48-67 68-107 108-127 128-147 148-157	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt	nt
Channel D-7 3-27 28-47 48-67 68-107 108-127 128-147 148-157 158-167	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt Reset Color wheel	nt
Channel D-7 3-27 28-47 48-67 58-107 108-127 128-147 148-157 158-167 168-177 178-187	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel	
D-15 16-255 Channel D-7 3-27 28-47 48-67 68-107 108-127 128-147 148-157 158-167 168-177 178-187	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset grism (CH11 must be on and then set to off, then the prism wheel	
D-15 16-255 Channel D-7 3-27 28-47 48-67 38-107 108-127 128-147 48-157 158-167 168-177 178-187 188-197	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during pan-Tilt/color wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset prism (CH11 must be on and then set to off, then the prism wheel Reset all	
D-15 16-255 Channel D-7 3-27 28-47 48-67 38-107 108-127 128-147 48-157 158-167 168-177 178-187 188-197	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset grism (CH11 must be on and then set to off, then the prism wheel	
Channel D-7 3-27 28-47 48-67 58-107 108-127 128-147 148-157 158-167 168-177 178-187 188-197 198-207	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset prism (CH11 must be on and then set to off, then the prism wheel Reset all Not functional	
Channel D-15 16-255 Channel D-7 3-27 28-47 48-67 38-107 108-127 128-147 148-157 158-167 178-187 188-197 198-207 208-255 Channel	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset gobo wheel Reset prism (CH11 must be on and then set to off, then the prism wheel Reset all Not functional	
0-15 6-255 Channel 0-7 3-27 28-47 18-67 38-107 08-127 28-147 48-157 58-167 68-177 78-187 88-197 98-207 208-255 Channel	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movemen Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset grism (CH11 must be on and then set to off, then the prism wheel Reset all Not functional 13 - Built-in Programs + Sound-controlled Programs No Function	
0-15 6-255 Channel 0-7 3-27 28-47 48-67 38-107 08-127 28-147 48-157 58-167 68-177 78-187 88-197 98-207 208-255 Channel	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movemen Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset prism (CH11 must be on and then set to off, then the prism wheel Reset all Not functional 13 - Built-in Programs + Sound-controlled Programs No Function Built-in Program 1	
0-15 6-255 Channel 0-7 3-27 28-47 48-67 58-107 08-127 28-147 48-157 58-167 68-177 78-187 88-197 98-207 208-255 Channel 0-7 3-23 24-39	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movemen Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset prism (CH11 must be on and then set to off, then the prism wheel Reset all Not functional 13 - Built-in Programs + Sound-controlled Programs No Function Built-in Program 1 Built-in Program 2	
0-15 6-255 Channel 0-7 3-27 28-47 48-67 08-127 28-147 48-157 58-167 68-177 78-187 88-197 98-207 208-255 Channel 0-7 3-23 24-39	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movemen Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset prism (CH11 must be on and then set to off, then the prism wheel Reset all Not functional 13 - Built-in Programs + Sound-controlled Programs No Function Built-in Program 1 Built-in Program 2 Built-in Program 3	
D-15 6-255 Channel D-7 3-27 28-47 48-67 38-107 08-127 28-147 48-157 58-167 68-177 78-187 88-197 98-207 208-255 Channel D-7 3-23 24-39 40-55 56-71	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset grism (CH11 must be on and then set to off, then the prism wheel Reset all Not functional 13 - Built-in Programs + Sound-controlled Programs No Function Built-in Program 1 Built-in Program 2 Built-in Program 3 Built-in Program 4	
D-15 16-255 16-255 16-255 16-255 D-7 3-27 28-47 48-67 68-107 108-127 128-147 148-157 158-167 178-187 188-197 198-207 208-255 Channel D-7 3-23 24-39 40-55 56-71 72-87	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset gobo wheel Reset prism (CH11 must be on and then set to off, then the prism wheel Reset all Not functional 13 - Built-in Programs + Sound-controlled Programs No Function Built-in Program 1 Built-in Program 2 Built-in Program 3 Built-in Program 4 Built-in Program 5	
2-15 6-255 2-27 8-47 8-67 8-107 08-127 28-147 48-157 58-167 68-177 78-187 88-197 98-207 108-255 24-39 10-55 66-71	Not functional Prism 12 - Channel Functions Not functional Blackout during Pan/Tilt movement Blackout during gobo wheel movement Blackout during Pan-Tilt/gobo wheel movement Blackout during color wheel movement Blackout during color wheel/gobo wheel movement Blackout during Pan-Tilt/color wheel movement/gobo wheel movement Reset Pan Reset Tilt Reset Color wheel Reset Gobo wheel Reset grism (CH11 must be on and then set to off, then the prism wheel Reset all Not functional 13 - Built-in Programs + Sound-controlled Programs No Function Built-in Program 1 Built-in Program 2 Built-in Program 3 Built-in Program 4	



104-119

120-135

136-151

Built-in Program 7

Built-in Program 8

Sound-controlled Program 1

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152-167	37 Sound-controlled Program 2	
168-183	33 Sound-controlled Program 3	
184-199	P9 Sound-controlled Program 4	
200-215	5 Sound-controlled Program 5	
216-231	31 Sound-controlled Program 6	
232-247	47 Sound-controlled Program 7	
248-255	55 Sound-controlled Program 8	

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 Phantom 65 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.

The cooling fans, color wheel, 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 the Fuse

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

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



Replacing a Gobo From the Rotating Gobo Wheel

- 01) Disconnect mains power supply and set the switch to OFF.
- 02) Make sure that the gobo you want to insert has the same size. For the right size, see below.



Fig. 06

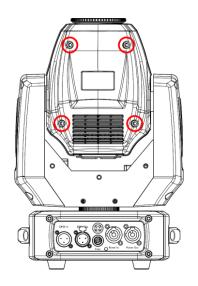


Fig. 07

- 03) Remove the lamp cover by unscrewing the 4 screws (see fig. 07).
- 04) Gently tilt the head so that the small metal housing can slide out more easily.
- 05) Turn the gobo wheel, with the gobo you want to remove, to the upside.
- 06) Gently lift up the gobo holder by 10° and then gently pull out the gobo from its position.







Fig. 08

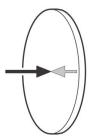
- 07) Very carefully take the gobo out of the gobo holder with a pair of pliers.
- 08) Place the new gobo in the gobo holder. Carefully put the pinchcock back. You can use a pair of pliers to press the pinchcock a little bit together.
- 09) Put the gobo holder back under the pressing snap and push it back.
- 10) Replace the maintenance caps and fasten all screws.



Glass Gobo Orientation

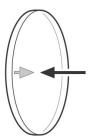
Coated glass gobos are inserted with the coating against the rim of the holder (away from the spring). Textured gobos are inserted with the smooth side against the spring. This provides the best results when combining rotating gobos.

Coated side



When an object is held up to the coated side there is no space between the object and its reflection. The back edge of the gobo cannot be seen when looking through the coated side.

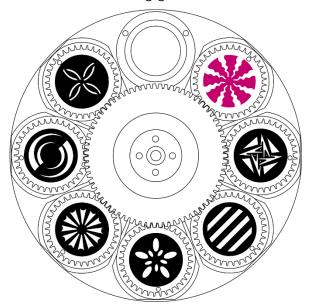
Uncoated side



When an object is held up to the uncoated side there is a space between the object and its reflection. The back edge of the gobo can be seen when looking through the uncoated side.

Rotating Gobo Wheel + Color Wheel

Rotating gobo wheel



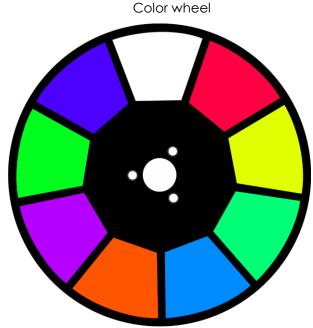


Fig. 09



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 Phantom to your Showtec dealer.
- 03) The fuse. Replace the fuse. See page 21 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 Phantom, as this may damage the unit and the warranty will become void.
- 06) Return the device to your Showtec dealer.

No Response to DMX

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

- 01) Check the DMX 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.



Phantom 65

Problem	Probable cause(s)	Remedy	
One or more	No power to the fixture.	Check if power is switched on and	
fixtures do not	D. J	cables are plugged in.	
function at all	Primary fuse blown.	Replace fuse.	
Fixtures reset	The controller is not connected.	Connect controller.Install a phase reversing cable between	
correctly, but all respond erratically	3-pin XLR Out of the controller does not match XLR Out of the first fixture	 Install a phase reversing cable between the controller and the first fixture on the 	
or not at all to the	on the link (i.e. signal is reversed).	link.	
controller.	or me link (i.e. signal is reversed).	III IK.	
	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	Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.	
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.	 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 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 cut	Fixture is too hot.	 Allow fixture to cool. Clean fan. Make sure air vents are not blocked. Turn up the air conditioning. 	
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 Pha	intom 65	
Input voltage:	100-240V AC		
Power consumption:	125W (full output)		
DMX linking:	30pcs		
Fuse:	F3AL/250V		
Dimensions:	230 x 200 x 365 mm (LxWxH)		
Weight:	6,2 kg		
···oig····	- U/2 N.G		
Operating and Programming:	i		
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)		
DMX Mode:	8, 13 channels		
Signal input:	3-pin XLR IN		
Signal output:	3-pin XLR OUT		
Electro-mechanical effects:			
Light source:	1 x 65W White		
Light output:	1870 Lux @ 5	<u>m</u>	
Focus:	Manual		
Beam angle:	16°		
Dimmer:	0-100%		
Strobe:	0-20Hz		
Housing:	Metal & flam	e-retardant plastic	
DMX control:	via standard DMX controller		
Onboard:	LCD display for easy setup		
User-selectable Pan range:	540°/360°/180°		
User-selectable Tilt range:	270°/180°/90°		
Special: Pan/Tilt movement blackout		ement blackout	
·	Reverse Pan/Tilt movement		
Pan/Tilt resolution:	16 bit		
Color wheel:	8 dichroic co	lors + white	
Color functions:	Rainbow-flow effect, split colors, bi-directional rotation		
Rotating gobo wheel:		os + 1 glass gobo	
Gobo size:		3,75 mm (gobo size); 21 mm (image diameter); 1,31 mm	
	(gobo thickness)		
	Metal gobo: 2	24 mm (gobo size); 20 mm (image diameter); 0,29 mm (gobo	
	thickness)		
Gobo functions:	Gobo-flow effect, Gobo shake		
Control:	Stand alone,	Manual, Sound-controlled, Master/Slave, DMX-512	
Prism:	3-facet prism		
Connections:	3-pin XLR IN/0	OUT, Pro power connector IN/OUT	
Cooling:	Cooling fan		
Max. ambient temperature t_a :		40°C	
Max. housing temperature t_B :		70°C	
Minimum distance:			
Minimum distance: Minimum distance from flammal	olo curfocos:	0,5 m	
		•	
Minimum distance to lighted obj	eci.	1 m	

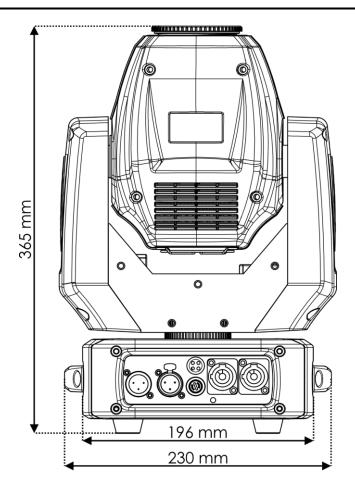
Design and product specifications are subject to change without prior notice.

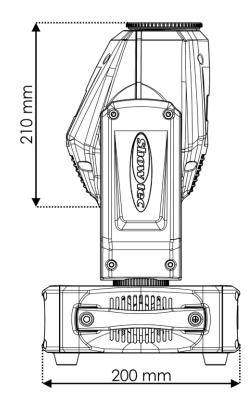


Website: www.Showtec.info
Email: service@highlite.com



Dimensions







Phantom 65 Notes



Ordercode: 40070



Ordercode: 40070





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