MANUAL



ENGLISH

Par 64 Short Q4-18 V2

Ordercode: 42468

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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 Par 64 Short Q4-18 with a power cable (1,5 m)
- Filter frame
- 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.
- 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 Par. 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.

- 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 !!!
NEVER LOOK DIRECTLY INTO THE LIGHTSOURCE !!!

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 1,5 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 device is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the device, with the mounting bracket, to the trussing system.
- The device must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety cable.
- 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 Par 64 Short Q4-18 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.

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 Par 64 Short Q4-18 is an ultra-compact light effect with high output and great effects.
It is the ideal solution for small clubs and mobile DJs.

- Power Supply: 100–240 V AC
- Peak Power: 245 W
- Power Consumption: 200 W
- Light source: 18 x 4-in-1 LEDs
- Drive Current: 450 mA
- Refresh rate: 7,8 kHz
- Dimmer: 0–100 %
- Strobe: 0–20 Hz
- Beam Angle: 40°
- Lux: 3790 @ 2 m
- Max. Distance: 30 m
- Onboard: 4-digit LED display
- DMX Modes: 4, 5 or 8 channels
- Control protocol: DMX 512
- Cooling: Forced cooling(fan)
- Housing: Die-cast aluminum, powder-coated finish
- Connections: 3-pin DMX IN/OUT
- Control: Auto, Sound, Master/Slave, DMX
- Fuse: 1,5A / 250V
- Dimensions: 290 x 230 x 230 mm (LxWxH, excl bracket)
- Weight: 3,3 kg

Front



Fig. 01

01) Mounting bracket with adjustment screw
02) 18 x 4-in-1 LEDs

Back



Fig. 02

03) LED display + control buttons
04) Fuse 1,5A/250V
05) 3-pin DMX signal connector IN
06) 3-pin DMX signal connector OUT

Installation

Remove all packing materials from the Par 64 Short Q4-18. Check if all foam and plastic padding is removed. Connect all cables.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Setup and Operation

Follow the directions below, as they pertain to your preferred operation mode.
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120 V specification product on 230 V power, or vice versa.

Control Modes

There are 5 modes:

- Built-in programs
- Auto Run
- Sound-controlled
- Master/Slave
- DMX-512 (4CH, 5CH, 8CH)

One Par (Auto Mode and Built-in programs)

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 Par is not connected with a DMX cable, it functions as a stand-alone device.
04) See page 13–14 for more information about the Built-in programs and Auto Mode.

One Par (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 Par will react to the beat of the music.
04) Please see page 13 for more information about the sound-control options.

Multiple Pars (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 Par.

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 pages 13–14 (Built-in programs, Auto 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.

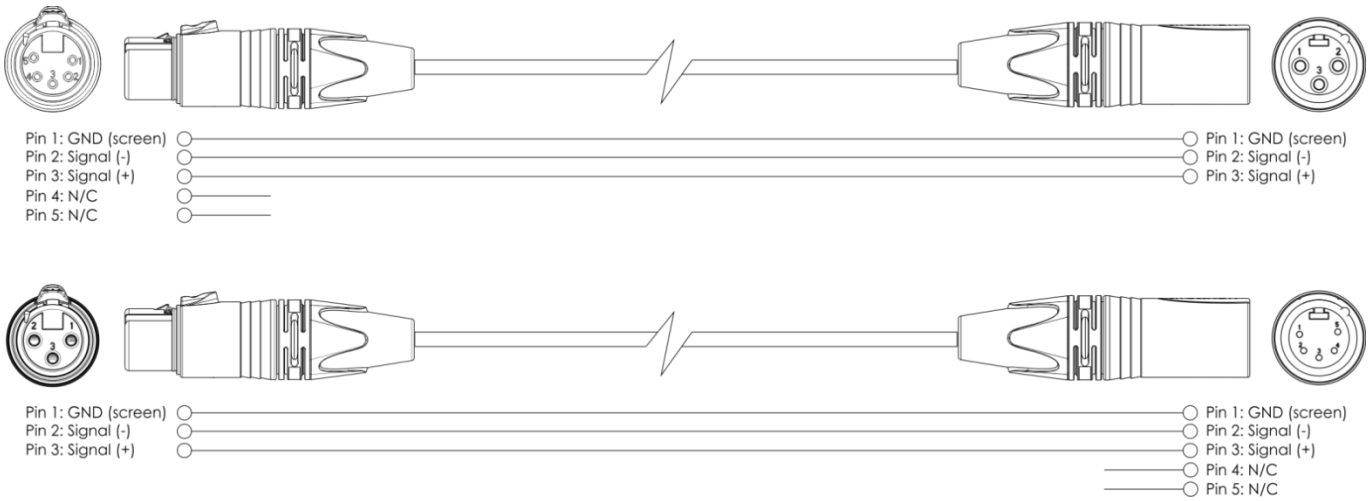
Multiple Pars (Master/Slave control)



Fig. 03

Multiple Pars (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 Pars 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 the mains power cords 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 Pars DMX Setup

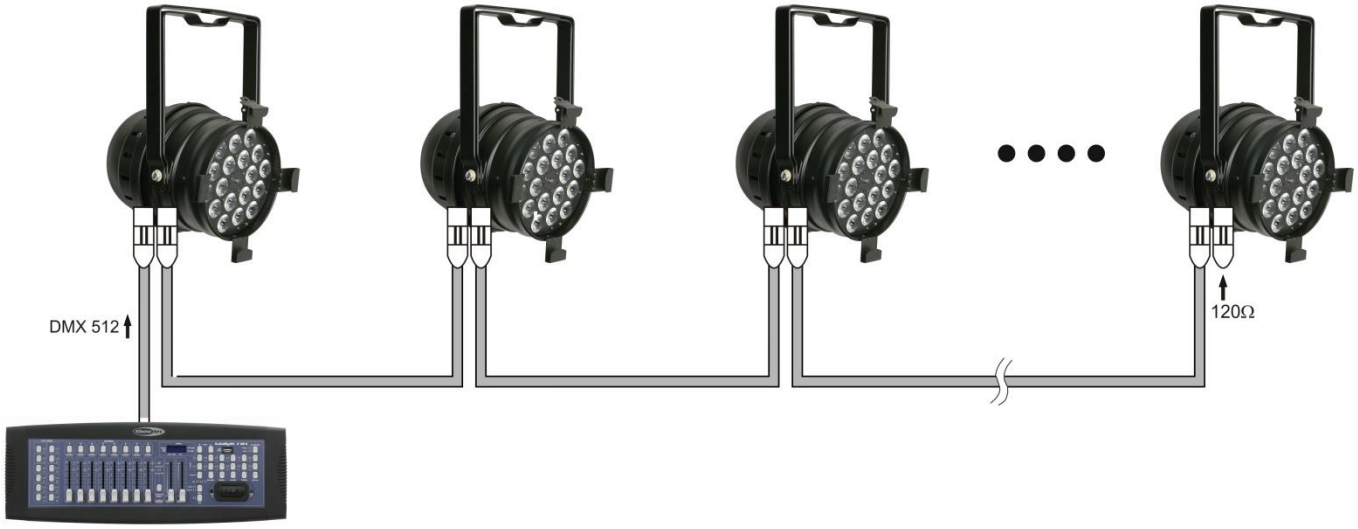


Fig. 04

Note : Link all cables before connecting electric power

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 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

Data Cabling

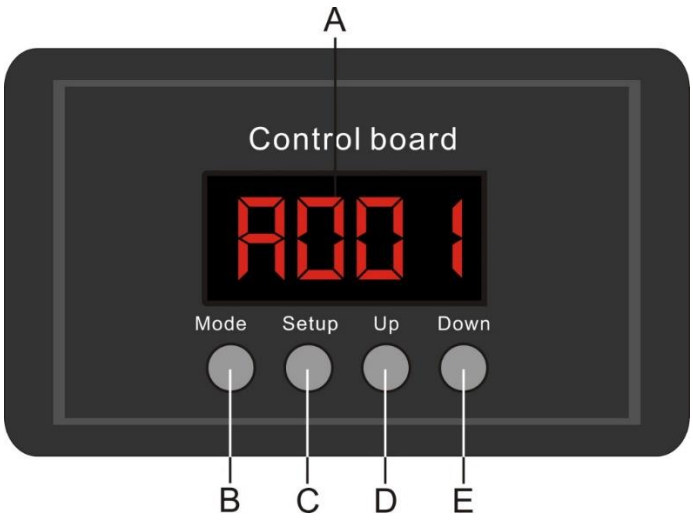
To link fixtures together, you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable, please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic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

DAP Audio DMX Data Cables

- DAP Audio Basic microphone cable for allround use. bal. XLR/M 3-pin > XLR/F 3-pin. **Order code** FL01150 (1,5 m), FL013 (3 m), FL016 (6 m), FL0110 (10 m), FL0115 (15 m), FL0120 (20 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Order code** FL71150 (1,5 m), FL713 (3 m), FL716 (6 m), FL7110 (10 m).

The Par 64 Short Q4-18 can be operated with a DMX controller in **control mode** or without the DMX controller in **stand-alone mode.**

Control Panel



A) LED display
B) MODE button
C) SETUP button
D) UP button
E) DOWN button

Fig. 05

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 Par will respond to the controller.
Please note, when you use the controller, the unit has **8** channels.
When using multiple Pars, make sure you set the DMX addresses right.
Therefore, the DMX address of the first Par should be **1(001)**; the DMX address of the second Par should be **1+8=9 (009)**; the DMX address of the third Part should be **9+8=17 (017)**, etc. Please, be sure that you do not have any overlapping channels in order to control each Par correctly. If two or more Pars are addressed similarly, they will work similarly.

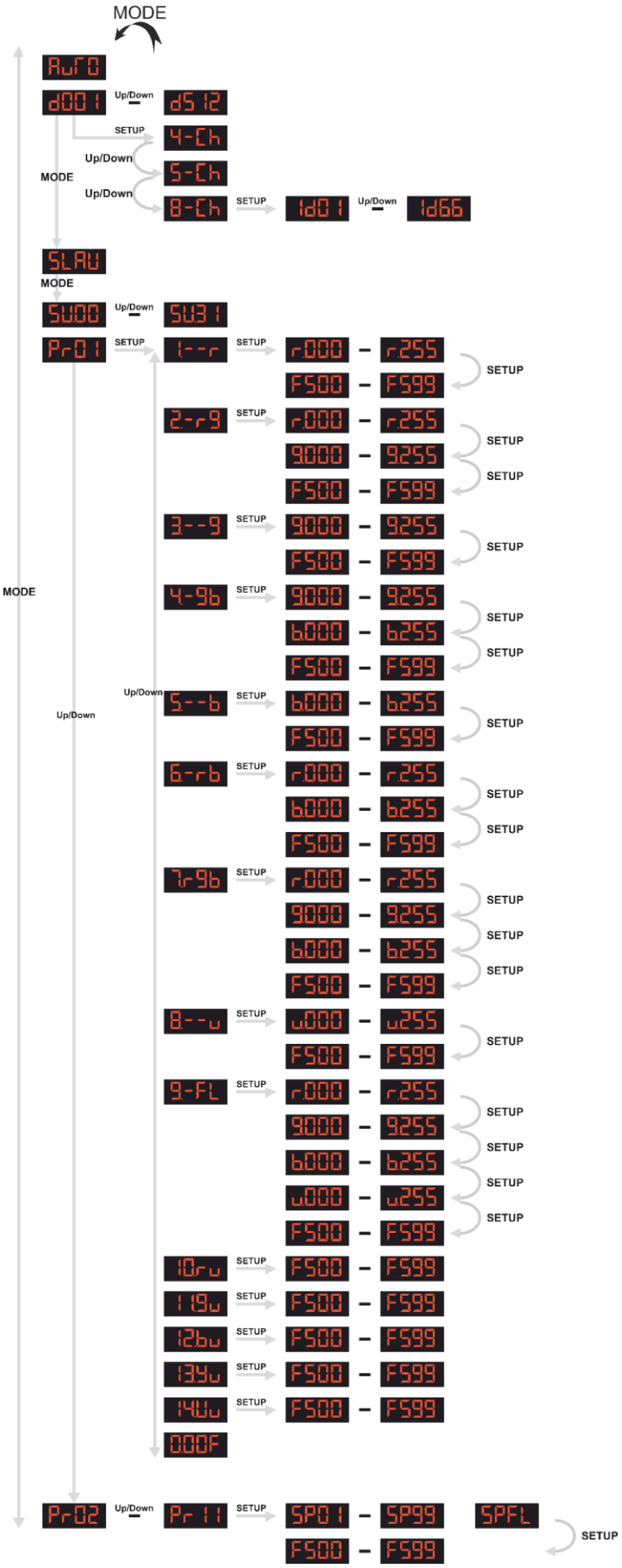
Controlling:

After having addressed all Pars, you may now start operating these via your lighting controller.
Note: After switching on, the Par 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 Par.
- The controller is switched off or defective, the cable or connector is defective, or the signal wires are swapped in the input connector.

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

Menu Overview



Main Menu Options



Auto



DMX address



Slave



Sound-controlled



Built-in programs

1. Auto Run Program

01) Press the **MODE** button until the display shows 

.
02) The device will run its auto program.

2. DMX Mode

In this menu you can set the DMX address.

01) Press the **MODE** button until the display shows 

.
02) You can choose 512 different DMX addresses. Press the **UP/DOWN** buttons to select the DMX starting address from 

Up/Down 

.
03) Press the **SETUP** button to set different DMX modes.



4 channels



5 channels



8 channels

04) Press the **SETUP** button one more time to set the ID of the Par (only in 8CH Mode)


Up/Down 

3. Slave Mode

01) When the display shows 

, the device functions a slave device. It will now react the same as its master.

4. Sound-controlled

01) Press the **MODE** button until the display shows 

Up/Down 

. Turn on the music and the Par will react to the beat of the music.
02) You can set the sensitivity from low to high, **SU.00–31**.

5. Built-in programs

01) Press the **MODE** button until the display shows 

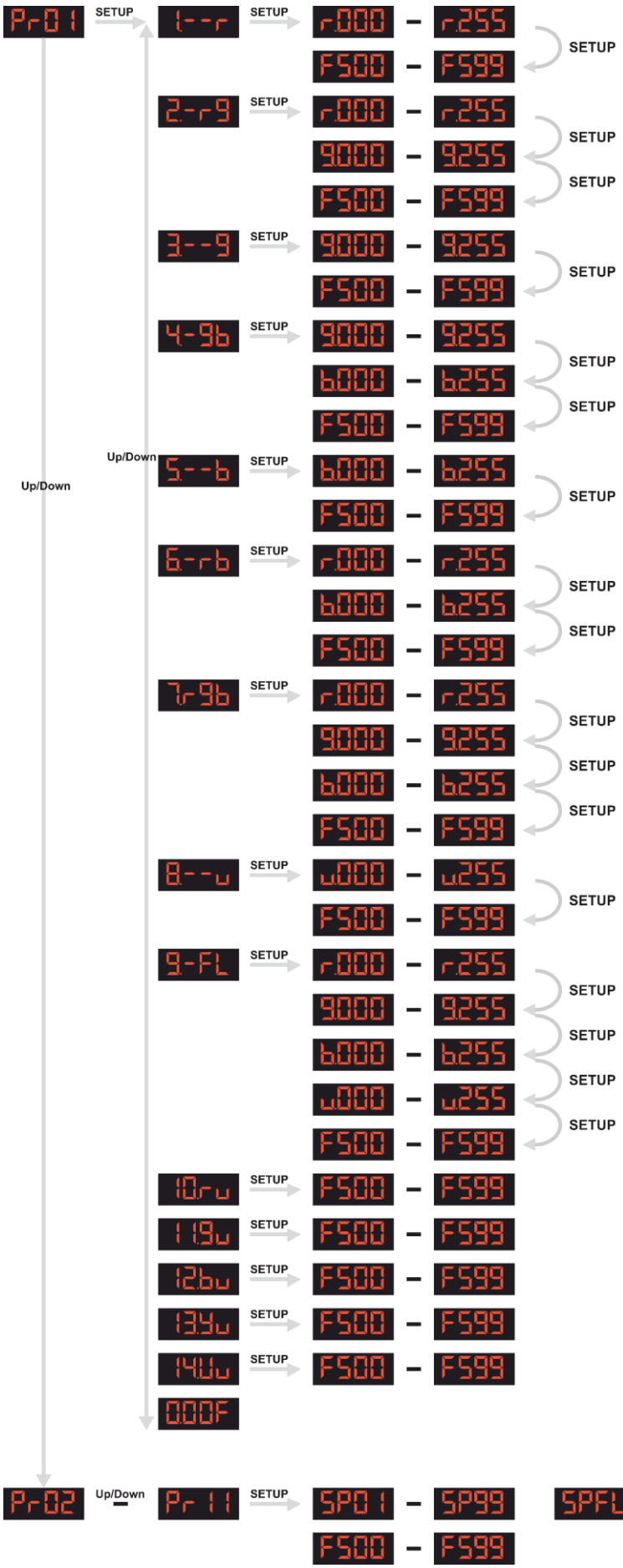
.
02) In this menu you can set the Built-in Program Mode. You can choose 11 built-in programs by using the **UP/DOWN** buttons.
03) Press the **SETUP** button to enter the built-in programs menu. You can choose 2 different submenus:





Up/Down 

When you choose Pr01, you have a lot more options than if you choose Pr02–Pr11.



Red from 000-255
Flash Frequency from 00-99
Red from 000-255
Green from 000-255
Flash Frequency from 00-99
Green from 000-255
Flash Frequency from 00-99
Green from 000-255
Blue from 000-255
Flash Frequency from 00-99
Blue from 000-255
Flash Frequency from 00-99
Red from 000-255
Blue from 000-255
Flash Frequency from 00-99
Red from 000-255
Green from 000-255
Blue from 000-255
Flash Frequency from 00-99
Cool White from 000-255
Flash Frequency from 00-99
Red from 000-255
Green from 000-255
Blue from 000-255
Cool White from 000-255
Flash Frequency from 00-99
Red/White Flash from 00-99
Green/White Flash from 00-99
Blue/White Flash from 00-99
Yellow/White Flash from 00-99
White Flash from 00-99
OFF
Speed 01-99 and FL
Flash Frequency from 00-99

DMX Channels

4 channels

Channel 1 – Red	
0–255	Gradual adjustment Red, from 0–100 %
Channel 2 – Green	
0–255	Gradual adjustment Green, from 0–100 %
Channel 3 – Blue	
0–255	Gradual adjustment Blue, from 0–100 %
Channel 4 – Cool White	
0–255	Gradual adjustment Cool White, from 0–100 %

5 channels

Channel 1 – Dimmer intensity	
0–255	Gradual adjustment, from dark to brightest 0–100 %
Channel 2 – Red Dimmer must be open	
0–255	Gradual adjustment Red, from 0–100 %
Channel 3 – Green Dimmer must be open	
0–255	Gradual adjustment Green, from 0–100 %
Channel 4 – Blue Dimmer must be open	
0–255	Gradual adjustment Blue, from 0–100 %
Channel 5 – Cool White Dimmer must be open	
0–255	Gradual adjustment Cool White, from 0–100 %

8 channels

Channel 1 – Dimmer intensity	
0–255	Gradual adjustment, from dark to brightest 0–100 %

Channel 2 – Red ⚠ CH7 must be set to 0 ⚠	
0–255	Gradual adjustment Red, from 0–100 %

Channel 2 – Macro Colors ⚠ CH7 must be set between 1–22 ⚠	
0	Off
1–5	Macro Color 1
6–11	Macro Color 2
12–17	Macro Color 3
18–23	Macro Color 4
24–29	Macro Color 5
30–35	Macro Color 6
36–41	Macro Color 7
42–47	Macro Color 8
48–53	Macro Color 9
54–59	Macro Color 10
60–65	Macro Color 11
66–71	Macro Color 12
72–77	Macro Color 13
78–83	Macro Color 14
84–89	Macro Color 15
90–95	Macro Color 16
96–101	Macro Color 17
102–107	Macro Color 18
108–113	Macro Color 19
114–119	Macro Color 20
120–125	Macro Color 21
126–131	Macro Color 22
132–137	Macro Color 23
138–143	Macro Color 24
144–149	Macro Color 25
150–155	Macro Color 26
156–161	Macro Color 27
162–167	Macro Color 28
168–173	Macro Color 29
174–179	Macro Color 30
180–185	Macro Color 31
186–191	Macro Color 32
192–197	Macro Color 33
198–203	Macro Color 34
204–209	Macro Color 35
210–215	Macro Color 36
216–221	Macro Color 37
222–227	Macro Color 38
228–233	Macro Color 39
234–239	Macro Color 40
240–245	Macro Color 41
246–251	Macro Color 42
252–255	Macro Color 43

Channel 2 – Program Speed ⚠ CH7 must be set between 23–252 ⚠	
0–255	Slow to fast

Channel 2 – Sound sensitivity ⚠ CH7 must be set between 253–255⚠	
0–255	Audio sensitivity from less sensitive to highly sensitive

Channel 3 – Green ⚠ Dimmer must be open ⚠	
0–255	Gradual adjustment Green, from 0–100 %

Channel 4 – Blue ⚠ Dimmer must be open ⚠	
0–255	Gradual adjustment Blue, from 0–100 %

Channel 5 – Cool White ⚠ Dimmer must be open ⚠	
0–255	Gradual adjustment Cool White, from 0–100 %

Channel 6 – Strobe ⚠ Dimmer and CH2, CH3, CH4 or CH5 must be open ⚠	
0–9	No function
10–255	Strobe flash frequency, from slow to fast (0–20 flashes/sec)

Channel 7 – Color Programs	
0	No Function
1–22	43 static color program Mode via Channel 2
23–45	Program 1 (gradual change)
46–68	Program 2 (gradual change)
69–91	Program 3 (color switch)
92–114	Program 4 (color switch)
115–137	Program 5 (fantasy change 1)
138–160	Program 6 (fantasy change 2)
161–183	Program 7 (red gradual change)
184–206	Program 8 (green gradual change)
207–229	Program 9 (blue gradual change)
230–252	Program 10 (cool white gradual change)
253–255	Sound-controlled

When CH7 is set to 0, CH2 controls the intensity of Red.
When CH7 is set to 1–22, CH2 controls the built-in programs.
When CH7 is set to 23–252, CH2 controls the speed of the programs from slow to fast.
When CH1 is set to 253–255, CH2 controls the audio sensitivity.

Channel 8 – ID	Address
0–9	ID 1–66
10–19	ID1
20–29	ID2
30–39	ID3
40–49	ID4
50–59	ID5
60–69	ID6
70–79	ID7
80–89	ID8
90–99	ID9
100–109	ID10
110–119	ID11
120–129	ID12
130–139	ID13
140–149	ID14
150–159	ID15
160–169	ID16
170–179	ID17
180–189	ID18
190–199	ID19
200–209	ID20
210	ID21
211	ID22
212	ID23
213	ID24
•	• •
•	• •
•	• •
251	ID62
252	ID63
253	ID64
254	ID65
255	ID66

Maintenance

The Par 64 Short Q4-18 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. 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.

The operator has to make sure that safety-related and machine-technical installations are to be inspected by an expert after every 4 years 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.

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.
01) Unplug the unit from electric power source.
02) Insert a screwdriver into the slot in the fuse cover. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). 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.

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 two potential problem areas: the power supply, the fuse.
01) Power supply. Check that the unit is plugged into an appropriate power supply.
02) The fuse. Replace the fuse. See page 19 for replacing the fuse.

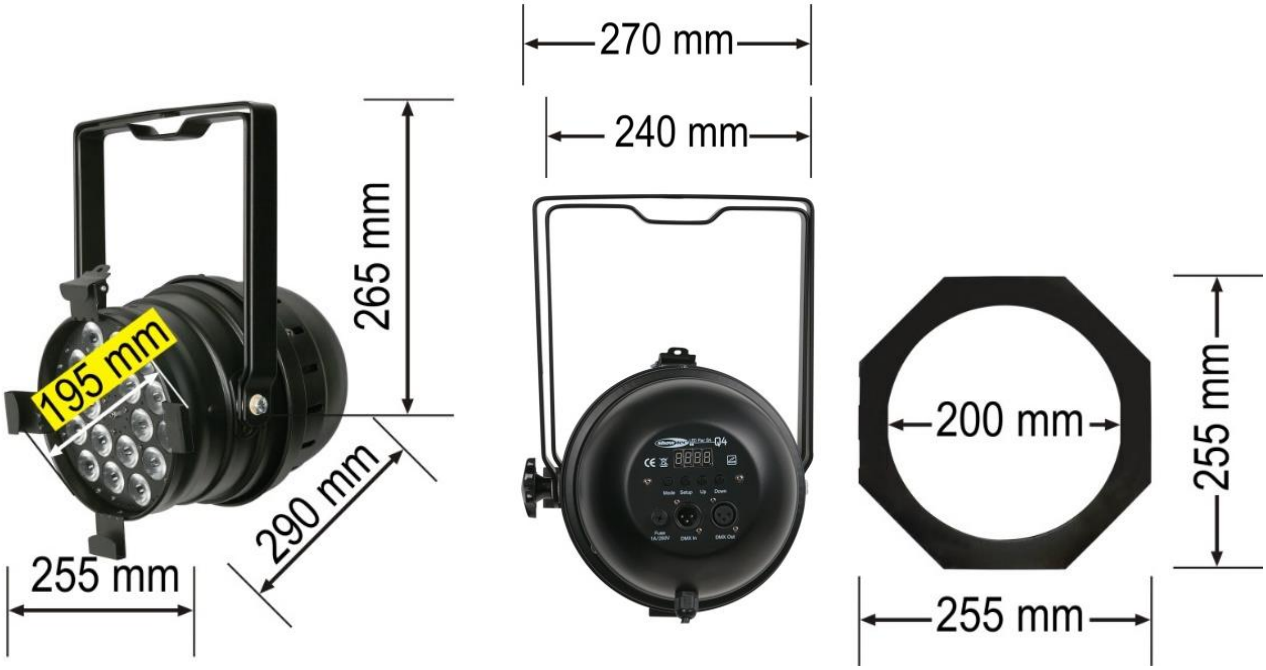
No Response to DMX

Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.
01) Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
02) 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)	Solution
One or more fixtures do not function at all	No power to the fixture	• Check if power is switched on and cables are plugged in
	Primary fuse blown	• Replace the 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 In 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 restored: 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
No light	The power supply settings do not match local AC voltage and frequency	• Disconnect fixture. Check settings and correct if necessary
	LEDs damaged	• Disconnect the fixture and return it to your dealer
Lamp cuts out intermittently.	Fixture is too hot	• Allow the fixture to cool down • 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 Specifications

Power Supply:	100–240 V AC
Peak Power:	245 W
Power Consumption:	200 W
Light source:	18 x 4-in-1 LEDs
Drive Current:	450 mA
Refresh rate:	7,8 kHz
Dimmer:	0–100 %
Strobe:	0–20 Hz
Beam Angle:	40°
Lux:	3790 @ 2 m
Max. Distance:	30 m
Onboard:	4-digit LED display
DMX Modes:	4, 5 or 8 channels
Control protocol:	DMX 512
Cooling:	Forced cooling(fan)
Housing:	Die-cast aluminum, powder-coated finish
Connections:	3-pin DMX IN/OUT
Control:	Auto, Sound, Master/Slave, DMX
Fuse:	1,5A / 250V
Dimensions:	290 x 230 x 230 mm (LxWxH, excl bracket)
Weight:	3,3 kg
Minimum distance:	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	1,3 m



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

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