

# Par 56 90W COB RGB

**ORDERCODE 43300** 



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SHOWELECTRONICS FOR PROFESSIONALS

#### Congratulations!

You have bought a great, innovative product from Showtec.

The Showtec Par 56 90W COB RGB brings excitement to any venue. Whether you want simple plug-&play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.

We design and manufacture professional light equipment for the entertainment industry. New products are being launched regularly. We work hard to keep you, our customer, satisfied.

For more information: <u>iwant@showtec.info</u>

You can get some of the best quality, best priced products on the market from Showtec. So next time, turn to Showtec for more great lighting equipment.

Always get the best -- with Showtec!

Thank you!



# Showtec

# Showtec Par 56 90W COB RGB ™ Product Guide

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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:

- Par 56 90W COB RGB with 1,30m powercable
- 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 your lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

# **Safety Instructions**

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

- be aualified
- 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 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 nonobservance 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.
- Do not open the device and do not modify the device.
- Never use anything to cover the ground contact.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never use the device during thunderstorms, unplug the device immediately.
- 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 LED's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes 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 or before cleaning! 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 powercord from time to time.
- Make sure that no side forces can impact on the truss system.
- The cable insert or the female part in the device must never be strained. There must always be sufficient cable to the device. Otherwise, the cable may be damaged which may lead to deadly electrical shocks.
- 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. Light effect must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use fuses of same type and rating only.
- This device can be installed on a flat surface or onto truss systems via the mounting bracket.
- The user is responsible for correct positioning and operating of the Par 56 90W COB RGB. 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!.

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 0.5 meter.
- The maximum ambient temperature  $t_a = 45^{\circ}$ C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 45° 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!

Improper installation can cause serious damage to people and property!

# 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 Par 56 90W COB RGB is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the Par 56 90W COB RGB, with the mounting-bracket, to the trussing system.
- The Par 56 90W COB RGB 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 Par 56 90W COB RGB, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.



The Par 56 90W COB RGB can be mounted in a hanging position (Fig. Above) or Upright (Fig. Below), using the support brackets. Mounting the Par 56 90W COB RGB with a clamp or any other mounting bracket is recommended, depending on the requirements of your application.



The Par 56 90W COB RGB can be placed on a flat stage floor or mounted to any kind of truss by a clamp. 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!





#### 🗥 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.nl 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:

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) A brief description of the symptoms

#### Claims

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings 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 notify 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 otherwise agreed in writing.

Complaints against us must be made known in writing or 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 of which the obligation is resulting.

# Description of the device

#### **Features**

The Showtec Par 56 90W COB RGB is a LED parcan with high output and great effects.

- · Never change lamps again!
- COB is a new technology of LED packaging for LED light engines
- Possible to achieve a very high light output without narrowing the beam angle
- Due to the special design of the mirror it is possible to project a light beam up to 70 degree's without getting different color shades or high spots on the projected surface. This effect is great for most applications where you would need an equally divided wash of light
- Powersupply: 100-240V / 50-60 Hz multi-voltage
- Power consumption: 98W max @FO
- Power connector: Schuko
- Control: Static Color, Built-in Programs, Auto Run, Sound-controlled, Master/Slave, DMX-512
- · Addressing: Digital addressing
- DMX Mode: 3, 6 and 7 channels mode
- DMX Connector: 3 pole XLR DMX IN and DMX OUT
- 90W COB LED Source
- Beam angle: 70° degrees
- Output: Lux @2m: R 360

G 380 B 490 RGB 1200

• Max distance: 10m

LED Quantity: 1 x 90W RGB COB

Dimmer: 0-100%Strobe: 0-20HzRefreshrate: 7,8 KHz

On Board: Display for easy Set Up

• IP Rating: IP-20

Cooling: Forced Cooling (Fan)

Fuse: T 2A / 250V

• Dimensions: 250 x 260 x 345 mm (LxWxH)

Weight: 2,4 kg

NOTE: Knowledge of DMX is required to fully utilize this unit.

# Overview





#### **Backside**



- 1) LCD Display
- 2) DMX signal connector (IN) 3-pin
- 3) 3 Menu buttons (Mode, Up, Down)
- 4) DMX signal connector (OUT) 3-pin
- 5) Ground / Earth
- 6) Fuse T2A / 250V

Fig. 3

## 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. Damages caused by non-observance are not subject to warranty.

#### **Control Modes**

There are 6 modes for using the Par 56 90W COB RGB: • Static Color Mode

- Built-in Programs
- Auto Run Mode
- Sound-controlled
- Master/Slave
- DMX512 (3, 6 or 7 Channels)

#### One Par 56 90W COB RGB (Static Color Mode)

- 1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 2. Always use a safety cable (ordercode 70140 / 70141).
- 3. Plug the end of the electric mains power cord into a proper electric power supply socket.
- 4. When the Par 56 90W COB RGB is not connected by a DMX-cable, it functions as a stand-alone device. If device is set to the fixture is manually controlled. Please see page 15 for more information about the Static Color Mode.

## One Par 56 90W COB RGB (Built-in Programs)

- 1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 2. Always use a safety cable (ordercode 70140 / 70141).
- 3. Plug the end of the electric mains power cord into a proper electric power supply socket.
- 4. When the Par 56 90W COB RGB is not connected by a DMX-cable, it functions as a stand-alone device. If device is set to , then the fixture is manually controlled. Please see page 14 for more information about the Auto Run Mode.

#### One Par 56 90W COB RGB (Auto Run Mode)

- 1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 2. Always use a safety cable (ordercode 70140 / 70141).
- 3. Plug the end of the electric mains power cord into a proper electric power supply socket.
- **4.** When the Par 56 90W COB RGB is not connected by a DMX-cable, it functions as a stand-alone device. If device is set to the fixture is manually controlled. Please see page 13 for more information about the Auto Run Mode.

## One Par 56 90W COB RGB (Sound-control)

- 1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 2. Always use a safety cable (ordercode 70140 / 70141).
- 3. Plug the end of the electric mains power cord into a proper electric power supply socket.
- **4.** Turn on the music. If device is set to beat of the music. Please see page 15 for more information about the Sound control Mode.

#### Multiple LED Pars (Master/Slave control)

- 1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 2. Always use a safety cable (ordercode 70140 / 70141).
- 3. Use a 3-p XLR cable to connect the Par 56 90W COB RGB.

The pins:



- 1. Earth
- 2. Signal -
- 3. Signal +
- **4.** Link the units as shown in (Fig. 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. You can use the same functions on the master device (Built-in Programs, Auto Run, Sound-control) as described on page 13, 14, 15. This means on the master device you can set your desired operation Mode and all slave devices will react the same as the master device.



#### **Multiple LED Pars (DMX Control)**

- 1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 2. Always use a safety cable (ordercode 70140 / 70141).
- 3. Use a 3-p XLR cable to connect the LED Pars and other devices.

# Occupation of the XLR-connection:

# DMX-OUTPUT XLR mounting-socket:

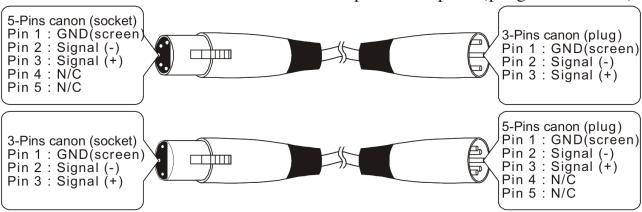
# DMX-input XLR mounting-plug



- 1 Ground
- 2 Signal (-)
- 3 Signal (+)

- 1 Ground
- 2 Signal (-)
- 3 Signal (+)

The transformation of the controller line of 3 pins and 5 pins (plug and socket)



- **4.** Link the units as shown in (figure 5), 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.
- **5.** 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.



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 on 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 one 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 LED Pars on a DMX data link: 30 fixtures

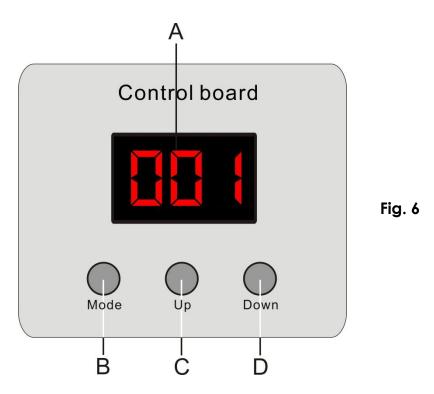
# **Data Cabling**

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 Certified DMX Data Cables**

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

#### **Control Panel**



**A.** LCD Display **B.** MODE button

C. Up Button

**D.** Down Button

#### **DMX Control Mode**

The fixtures are individually addressed controller.







on a data-link and connected to the

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 Par 56 90W COB RGB allows you to assign the DMX fixture address, which is the first channel from which the Par 56 90W COB RGB will respond to the controller. Please note when you use the controller, the unit has **7** channels.

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

Therefore, the DMX address of the first Par 56 90W COB RGB should be **1(001)**; the DMX address of the second Par 56 90W COB RGB should be **1+7=8 (008)**; the DMX address of the third Par 56 90W COB RGB should be **8+7=15 (015)**, etc. Please, be sure that you don't have any overlapping channels in order to control each Par 56 90W COB RGB correctly.

If two or more LED Pars are addressed similarly, they will work similarly.

#### Controlling:

After having addressed all Par 56 90W COB RGB fixtures, you may now start operating these via your lighting controller.

**Note:** After switching on, the Par 56 90W COB RGB 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 Par 56 90W COB RGB.
- 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'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.

#### Slave Mode Hold Mode Reset Auto Run Mode Up/Down **Hold Mode Hold Mode** Program 1: Red Flash **Hold Mode** Up/Down Program 2: Red+Yellow Flash **Hold Mode** Up/Down Program 3: Warm White+Yellow Flash Up/Down Program 4: Green Flash **Hold Mode** Up/Down Program 5: Green+Blue Flash **Hold Mode** Up/Down Program 6: Blue Flash Up/Down Up/<u>Down</u> **Hold Mode** Program 7: Red+Blue Flash Up/Down Up/Down **Hold Mode** Program 8: Red+Warm White Flash Hold Mode Up/Down Program 9: Red+Green Flash MODE **Hold Mode** Up/Down Program: Cool White+Warm White Flash **Hold Mode** Up/Down Program: Warm White Flash Flash Up/Down Program: Red+Green+Blue Flash Up/<u>Do</u>wn Hold Mode Up/Down Program 2-7: Program Speed Up/Down Program 2-7: Flash Speed Up/<u>Do</u>wn Hold Mode Up/Down **Manual Color Red Hold Mode** Up/<u>Do</u>wn Up/<u>Do</u>wn **Manual Color Green** Hold Mode Up/Down Up/Down **Manual Color Blue Hold Mode** Up/Down Flash Speed **Hold Mode** Up/Down **Sound-controlled Mode: Sensitivity** Hold Mode **DMX Mode Hold Mode** 3 Channel Mode Up/Down 6 Channel Mode Up/Down

Menu Overview MODE

7 Channel Mode

# **Main Menu Options**



The Par 56 90W COB RGB will automatically detect the presence of a DMX signal.

In order to receive a DMX signal, the controller must be attached to a DMX controller by a 3/5-pin DMX cable and the DMX controller must be turned on.

The Par 56 90W COB RGB system can operate as a 3, 6 or 7-channel DMX fixture.

#### 1. Slave Mode

1) Press the MODE button on the device, until the display shows



You can use the same functions on the master device as described on page 8.

This means, you can set your desired operation Mode on the master device and all slave devices will react the same as the master device.

#### 2. Reset

- 2) Press the MODE button on the device, until the display shows
- 58F
- 3) Press and hold the MODE button on the device, until the display shows
- 4) Now press the Up button, the display will blink twice, indicating the device is resetting.
- 5) Finally the display will briefly show **H** , indicating it is finished.

#### 3. Auto Run Program

1) Press the **MODE** button on the device, until the display shows



2) With this menu you can set the Auto Mode of the Par 56 COB.

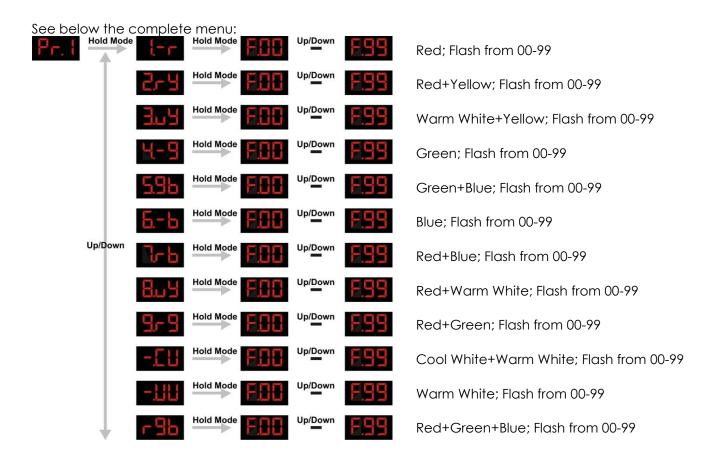
#### 4. Built-in Programs

- 1) Press the **MODE** button on the device, until the display shows
- 2) With this menu you can set the Built-in Program Mode of the Par 56 COB.

  You can choose 7 built-in programs

  "Up/Down Up/Down , by using the Up / Down buttons."
- **3)** Press and hold the **MODE** button to enter the built-in programs Menu. You can choose 2 different sub menus:

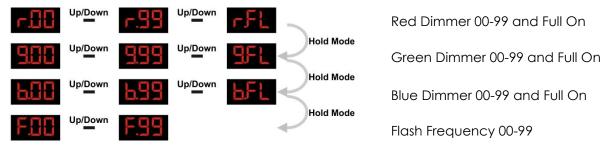






#### 5. Static Color Mode

- 1) Press the MODE button on the device, until the display shows
- 2) Now press and hold the MODE button on the device, to enter the menu settings.
- **3)** With these menus you can set the Static Color Mode of the Par 56 90W COB RGB and the flash rate. There are 3 different Static Colors settings.



4) Press and hold down the MODE button buttons to switch between these 4 menus.

#### 6. Sound control Mode

- 1) Press the MODE button on the device, until the display shows

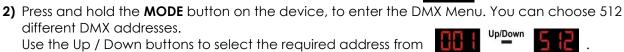
  Turn on the music and the Par 56 90W COB RGB will react to the beat of the music.
- 2) Press and hold the MODE button on the device, to change the menu settings.
- 3) Use the Up/Down buttons to adjust the sound sensitivity level from **S.00 S.31**. 00 being the least sensitive and 31 being the most sensitive.





#### 7. DMX Mode

1) Press the MODE button on the device, until the display shows



**3)** Press and hold the **MODE** button on the device a second time, to select the number of channels, you want to use.

You can choose 3 different channel settings.



Use the Up / Down buttons to change between 3, 6 or 7 channel mode.

# **DMX Channels**

# 3 Channels



#### Channel 1 - Red

0-255	Red from 0 - 100%
0 200	RCG HOTTO 100/0

#### Channel 2 – Green

- 6		
- 1	0-255	Green from 0 – 100%
	()- /.j.j	Green from 0 – 100%
- 1	0 200	

#### Channel 3 – Blue

l 0-255	Blue from 0 – 100%
0-233	bloc from 0 100/0

# 6 Channels **ELH**



#### Channel 1 – Master Dimmer

	0-255	Brightness from 0 to 100%
--	-------	---------------------------

#### Channel 2 - Red

0-255	Red from 0 - 100%
0 200	Rod Holli o 100/0

#### Channel 3 – Green

0-255	Green from 0 – 100%
I U-ZJJ	1 GIEEN NOM 0 - 100%

#### Channel 4 – Blue

0-255	Blue from 0 – 100%
I U-255	I Blue trom 0 – 100%

#### Channel 5 – Sound Active, use CH6 to set the Audio Sensitivity

0-9	No Function
10-255	Sound-controlled

# Channel 6 – Strobe, only when CH1, CH2, CH3 and CH4 are set between 1-255 1



0-19	No function
20-255	Strobe, from slow to fast

# Channel 6 – Audio Sensitivity, only when CH5 is set between 10 - 255 🔨



0-255 Sensitivity from least sensitive to	most sensitive

# 7 Channels

#### Channel 1 – Master Dimmer

0-255	Brightness from 0 to 100%
0-255	Blighiness norm one 100%

#### Channel 2 - Red

$\wedge$ $\wedge$ $\Gamma$ $\Gamma$		
$1 \cap 255$	Red from 0 – 100%	
	1 Red from 0 = 100%	
1 U-ZJJ		

#### Channel 3 - Green

0.255	Constant forms 0 100M
I U-255	Green from 0 – 100%

#### Channel 4 - Blue

#### Channel 5 – Sound Active, use CH6 to set the Audio Sensitivity

0-24	No Function
25-49	Built-in Program 1
50-74	Built-in Program 2
75-99	Built-in Program 3
100-124	Built-in Program 4
125-149	Built-in Program 5
150-174	Built-in Program 6
175-199	Built-in Program 7
200-255	Sound-controlled

# Channel 6 – Program Speed, only when CH5 is set between 25 - 199 🛕



0-255	Speed from slow to fast
-------	-------------------------

# Channel 7 – Strobe, only when CH1, CH2, CH3 and CH4 are set between 1-255 🔨



0-19	No function
20-255	Strobe, from slow to fast

# Channel 7 – Audio Sensitivity, only when CH5 is set between 200 - 255 🔨



-		
	0-255	Sensitivity from least sensitive to most sensitive

#### 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 Par 56 90W COB RGB 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.

#### 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. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). 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

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 LEDs, the fuse.

- 1. Power supply. Check that the unit is plugged into an appropriate power supply.
- 2. The LEDs. Return the Par 56 90W COB RGB to your Showtec dealer.
- 3. The fuse. Replace the fuse. See page 14 for replacing the fuse.
- 4. If all of the above appears to be O.K., plug the unit in again.
- **5.** If you are unable to determine the cause of the problem, do not open the Par 56 90W COB RGB, as this may damage the unit and the warranty will become void.
- 6. Return the device to your Showtec dealer.

#### No Response to DMX

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

- 1. Check the DMX setting. Make sure that DMX addresses are correct.
- 2. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
- **3.** 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
	No power to the fixture	Check that power is switched on
One or more		and cables are plugged in.
fixtures are completely dead.	Primary fuse blown.	Replace fuse.
Fixtures reset	The controller is not connected.	Connect controller.
correctly, but all respond erratically or not at all to the controller.	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	Install a phase reversing cable between the controller and the first fixture on the link.
	Poor data quality	Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	<ul> <li>Inspect connections and cables.</li> <li>Correct poor connections. Repair or replace damaged cables.</li> </ul>
Fixtures reset	Data link not terminated with 120 Ohm termination plug.	Insert termination plug in output jack of the last fixture on the link.
correctly, but some respond	Incorrect addressing of the fixtures.	Check address setting.
erratically or not at all to the controller.	One of the fixtures is defective and disturbs data transmission on the link.	<ul> <li>Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together.</li> <li>Have the defective fixture serviced by a qualified technician.</li> </ul>
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	• Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
Shutter closes suddenly	The color wheel has lost its index position and the fixture is resetting the effect.	Contact a technician for servicing the problem persists.
No light	Fixture is too hot.	<ul> <li>Allow fixture to cool.</li> <li>Clean fan.</li> <li>Make sure air vents at control panel and front lens are not blocked.</li> <li>Turn up the air conditioning .</li> </ul>
	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 Specification**

Model: Showtec Par 56 90W COB RGB

- Never change lamps again!
- COB is a new technology of LED packaging for LED light engines
- Possible to achieve a very high light output without narrowing the beam angle
- Due to the special design of the mirror it is possible to project a light beam up to 70 degree's without getting different color shades ore high spots on the projected surface. This effect is great for most applications where you would need an equally divided wash of light
- Powersupply: 100-240V / 50-60 Hz multi-voltage
- Power consumption: 98W max @FO
- Power connector: Schuko
- Control: Static Color, Built-in Programs, Auto Run, Sound-controlled, Master/Slave, DMX-512
- · Addressing: Digital addressing
- DMX Mode: 3, 6 and 7 channels mode
- DMX Connector: 3 pole XLR DMX IN and DMX OUT
- 90W COB LED Source
- 7 DMX channels
- Multi-voltage
- Beam angle: 70° degrees
  - Output: Lux @2m: R 360 G 380

B 490 RGB 1200

Max distance: 10m

LED Quantity: 1 x 90W RGB COB

Dimmer: 0-100%Strobe: 0-20HzRefreshrate: 7,8 KHz

On Board: Display for easy Set Up

• IP Rating: IP-20

Cooling: Forced Cooling (Fan)

• Fuse: T 2A / 250V

Dimensions: 250 x 260 x 345 mm (LxWxH)

Weight: 2,4 kg

# 260 mm 238 mm 210 mm 124 mm

#### 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.



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