

LED Design Par 18 RGB ORDERCODE 42570



Congratulations!

You have bought a great, innovative product from Showtec.

The Showtec LED Design Par 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: iwant@showtec.info

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 LED Design $\mathbf{Par}^{\mathbf{m}}$ Product Guide

Warning	
Safety-instructions	2
Operating Determinations	
Rigging	
Return Procedure	
Claims.	5
Cidil 10	Ů
Description	6
Features	
DMX Channel Summary	
Overview	
Backside	
DUCKINE	/
Installation	8
Set Up and Operation	8
Fixture Linking	
Data Cabling	Ω
Control Panel	9
DMX Addressing without ID addressing	
DMX Addressing with ID Address.	
MENU OVERVIEW	
- Creating a static color	12
- Activating an Auto Program	
- DMX 512 Address	13
- Run Mode	14
- Personality	14
- ID Address	14
- Edit Custom	
- Changing the Settings	
- Activating the Password	
How to make your own Custom Program	16
Modes	17
STAGE 1	
ARC 1	
ARC 1+D	
ARC 1+D	17
DMX Value – ID Addresses	19
Beam Angles	20
Connection Cables	21
Connection Capital	۱ ک
Maintenance	21
Replacing the Fuse	22
Troubleshooting	22
Product Specifications	23

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:

- LED Design Par
- 1X IEC Powercable 1m.
- 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. It is estimated that a viable lifespan of 40,000 to 50,000 hours will be achieved under normal operational conditions. If improving on this 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 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 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.
- 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.
- Never leave various parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within children's reach, as they are potential sources of danger.
- Do not insert objects into air vents.
- Do not open the device and do not modify the device.
- Do not connect this device to a dimmerpack.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Do not switch the device on and off in short intervals, as this would reduce the system's life.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- 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 the external cable is damaged, it has to be replaced by a qualified technician.
- If the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. The device 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.
- The user is responsible for correct positioning and operating of the LED Design 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.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.



CAUTION! EYEDAMAGES!. Avoid looking directly into the light source. (meant especially for epileptics)!



OPERATING DETERMINATIONS

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

The minimum distance between light-output and the illuminated surface must be more than 1.5 meter. The maximum ambient temperature $t_a = 45$ °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, lamp explosion, crash etc.

You endanger your own safety and the safety of others!

Improper installation can cause serious damage to people and property!

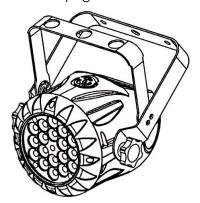
Rigging

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

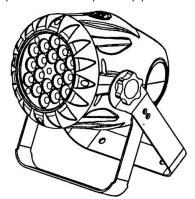
Do not attempt the installation yourself!
Always let the installation be carried out by an authorized dealer!

Procedure:

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



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



The LED Design Par 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!

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 LED Design Par is a LED system from Showtec.

- Power consumption: 30 Watt
- Fuse 1,5A 250V
- IEC Power connector
- Additional (IEC) power output: max 40 units @ 220V/ 20 units @ 120V connected in serie
- LED system: 18 x 1 Watt (6x Red, 6x Green, 6x Blue)
- Beam angle: 15°
- Operating mode: Auto, Custom, DMX
- DMX channels: 3, 4, 9 channels (with ID addressing)
- Operating modes: 3-channel: RGB control
 - 4-channel: RGB, dimmer
 - 9-channel: RGB, ID, dim, macro, strobe, automatic, custom
- Blackout/static/dimmer/strobe/pulse
- RGB color mixing with or without DMX controller
- Built-in automated programs via master/slave, DMX
- Recall custom programs via master/slave or DMX
- Menu settings: LCD display
- Control: DMX-512
- High-power, 1W (350mA) LEDs
- LCD display with password protection
- Adjustable barn doors to direct output
- Transfer custom programs between fixtures
- Double-bracket yoke doubles as floor stand

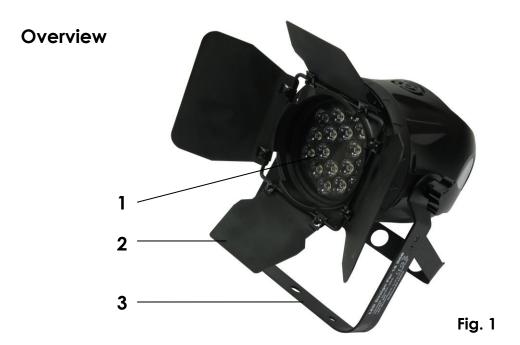
NOTE: Knowledge of DMX is required to fully utilize this unit.

DMX Channel Summary

Stage 1	Channel	Description
	1	Dimmer
	2	Red
	3	Green
	4	Blue
	5	Color Macro
	6	Strobe
	7	Auto & Custom Programs
	8	Auto Speed Adjustment
	9	ID Address Selection

Arc 1	Channel	Description
	1	Red
	2	Green
	3	Blue

Arc 1+D	Channel	Description
	1	Dimmer
	2	Red
	3	Green
	4	Blue



- 1) 18 x 1 Watt (6x Red, 6x Green, 6x Blue)
- 2) Blinder
- 3) Mountingbracket for Truss mounting



Fig. 2

- 4) IEC Power Out
- 5) IEC Power In6) DMX signal connector (OUT)
- 7) DMX signal connector (IN)

Installation

Remove all packing materials from the LED Design Par. Check that 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

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.

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.

The LED Design Par uses 9 channels.

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

220V: 40 units may be connected in series120V: 20 units may be connected in series

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 Basic microphone 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.).



The LED Design Par has a total of 3 DMX channel configurations, referred to as **Personalities**. The 3 personalities are [STAGE 1, ARC1, ARC1+D].

Each of the different personalities can be accessed from the control panel.

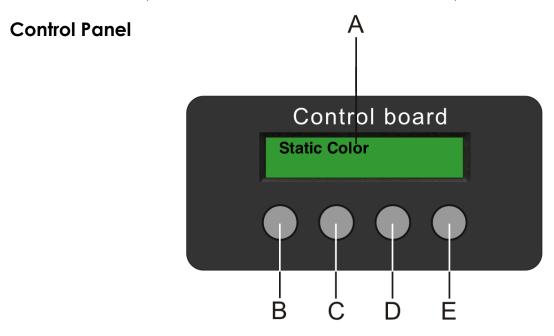
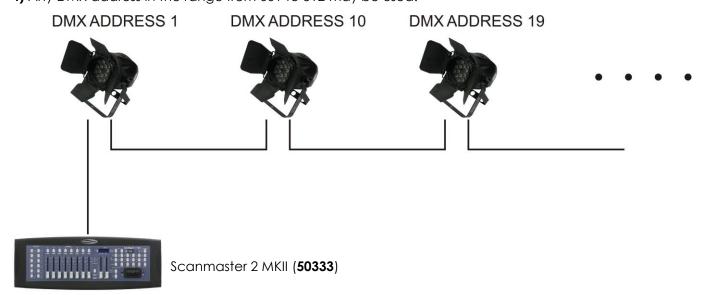


Fig. 5

- **A.** Display
- **B.** [SET] Button
- C. UP Button
- **D.** Down Button
- E. EXIT Button

DMX512 ADDRESSING WITHOUT ID ADDRESSING

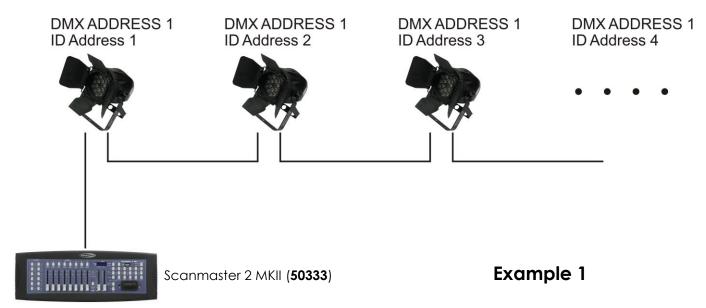
- 1) Connect a DMX controller (example 50333 Scanmaster 2 MKII) to the series of LED Design Pars.
- 2) Each LED Design Par has 9 DMX channels (DMX address LED Par #1=1, Par #2=10, Par #3=19, Par #4=28, etc.).
- 3) The ID address has not been set, so therefore when using the controller CH9 must be inactive (CH9=0). It is also possible to deactivate the ID address, by selecting ID OFF from the Settings menu.
- 4) Any DMX address in the range from 001 to 512 may be used.



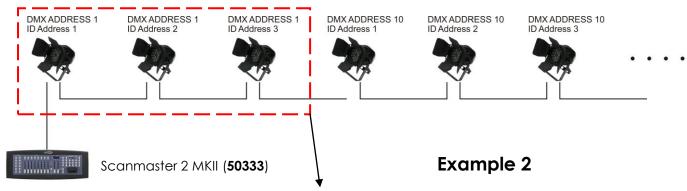
Note: When using the LED Design Pars, the CH9 ID function must be inactive (CH9=0).

DMX512 ADDRESSING WITH ID ADDRESS (STAGE MODE 1)

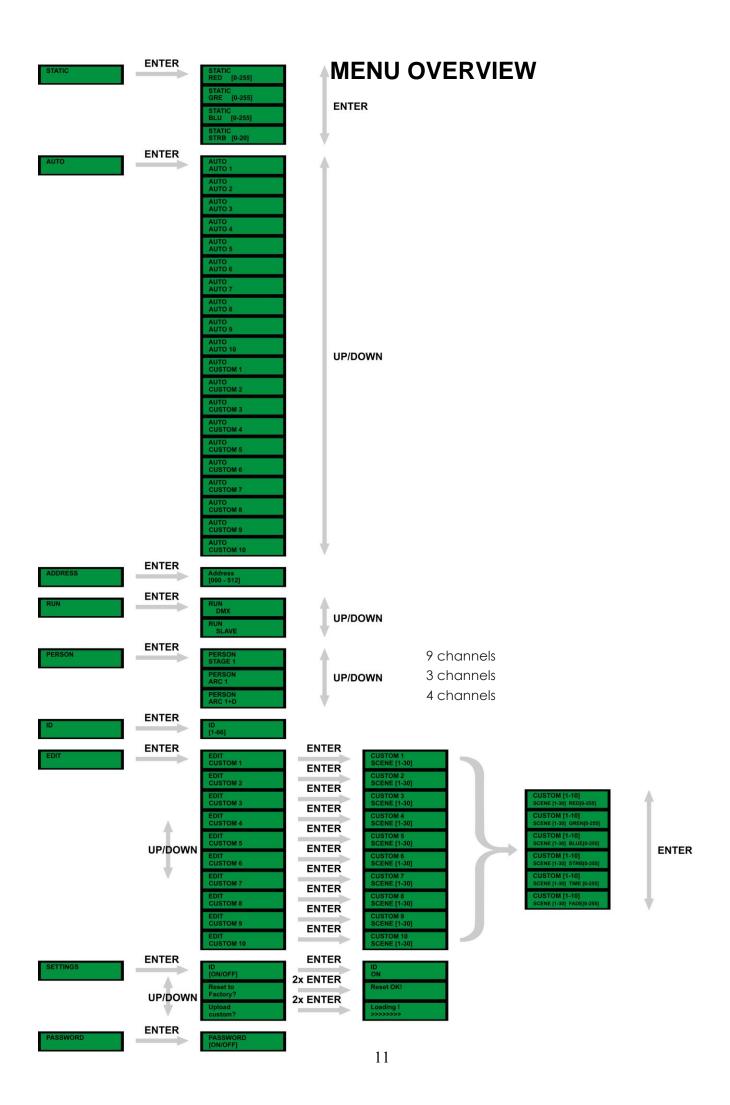
- 1) Connect a DMX controller (example 50333 Scanmaster 2 MKII) to the series of LED Design Pars.
- 2) Each LED Design Pars has 9 DMX channels (DMX address LED Par #1=1, Par #2=10, Par #3=19, Par #4=28, etc.).
- 3) Any DMX address in the range from 001 to 512 may be used.
- 4) Each DMX address may carry up to 66 separate ID addresses.
- 5) The ID Address should be set in the SETTINGS menu, on each unit in ascending values (i.e. 1,2,3...).
- 6) ID On should be set in the SETTINGS menu on each unit.
- 7) ID addresses are accessible from CH9 on the DMX512 controller.



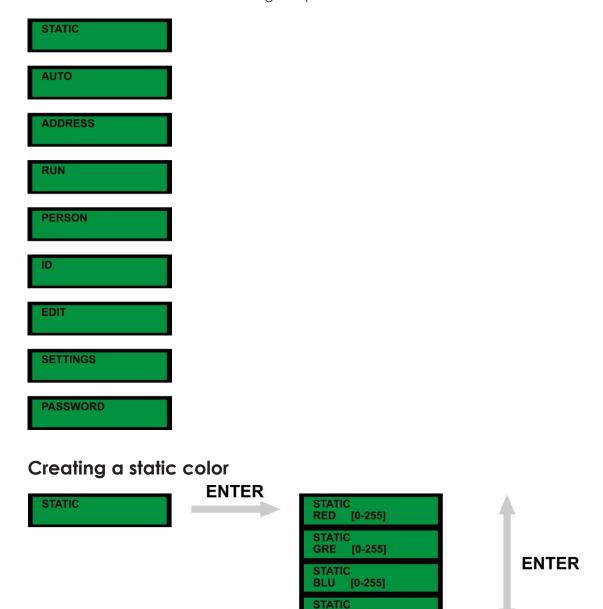
The figure above shows a simple DMX layout. All the LED Design Pars have different ID addresses which allows the user to collectively control the whole group of LED Design Pars with the same DMX address by setting CH9 to 0, or to control each LED Design Par independently by first selecting the DMX address and then by using CH9 to locate the target ID address.



The figure above shows a simple DMX layout. All 3 LED Design Pars have different ID addresses, which allows the user to collectively control a group of 3 LED Design Pars with the same DMX address by setting CH9 to 0, or to control each LED Design Par independently by first selecting the DMX address and then by using CH9 to locate the target ID address.



Press the MODE button to scroll through 9 options of the menu:



When you press ENTER in menu Static color, you have to use ENTER to scroll through this menu. Use the UP/DOWN buttons to change the static colors (Red, Green, Blue) or the strobe speed (0-20Hz). Press MODE to go 1 step back.

STRB [0-20]

You can combine RED, GREEN and BLUE to create an infinite range of colors (0-255).

Red

Set the value of the red LEDs (0-255).

Green

Set the value of the green LEDs (0-255).

Blue

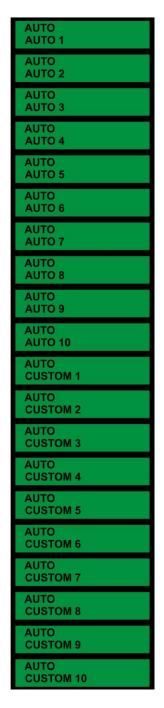
Set the value of the blue LEDs (0-255).

Strobe

Set the value of the flash (0-20Hz).

Activating an Auto Program

AUTO



UP/DOWN

When you press ENTER in menu Auto Program, you can choose one of the 10 built-in programs. You can also edit 10 custom programs.

DMX 512 Address



When you press ENTER in menu DMX 512 address you can set the DMX address. You can choose your DMX address between 0-512.

Run Mode ENTER RUN DMX **UP/DOWN** RUN SLAVE

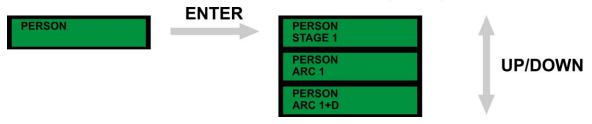
- Enter the RUN MODE mode to set the desired working mode:
 - DMX mode is used when working with a DMX512 controller to control the LED Par.
 - SLAVE mode is for using the device during a Master-Slave operation.

Mhen the fixtures are in Auto program operation, the RUN MODE does not work. 🔼



Personality

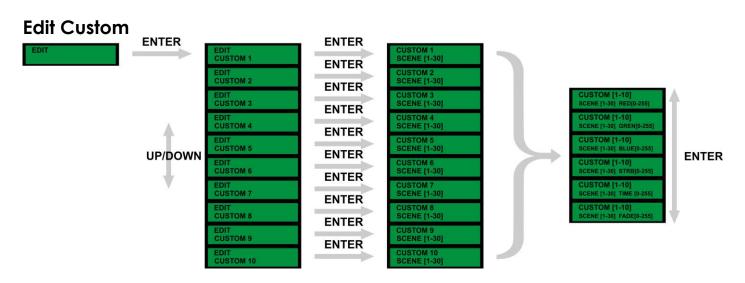
Enter the PERSONALITY mode to select DMX mode: STAGE 1, ARC 1, ARC 1+D.



STAGE 1: 9 channels ARC 1: 3 channels ARC 1+D: 4 channels

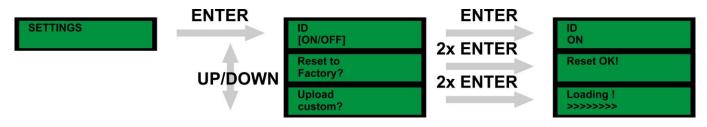


Enter the ID ADDRESS mode to set the desired ID ADDRESS; range ID1 – ID66.



- Enter the EDIT CUSTOM mode to edit the custom programs CUSTOM 1 CUSTOM 10.
- Each custom program has 30 steps, which can be edited.
- Each step allows the creation of a scene using RED, GREEN, BLUE, STROBE, TIMER & FADE.

Changing the Settings



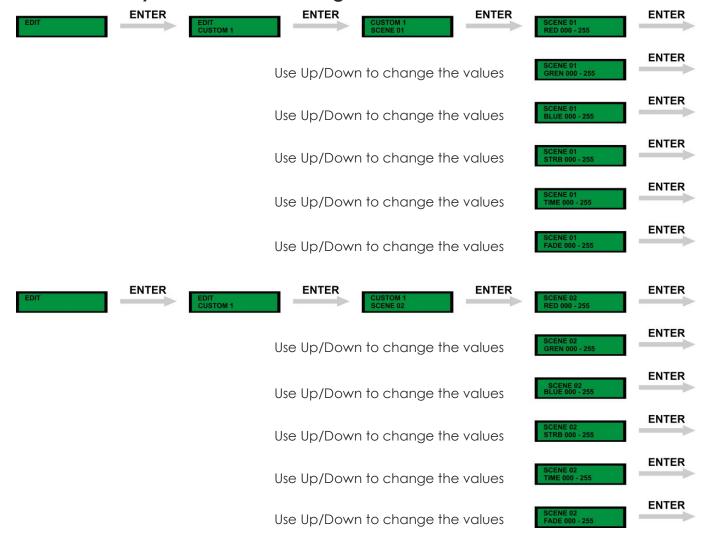
- Enter ID ON/OFF in order to work with an ID address function.
- In order to reset all current settings to the original factory setting select RESET TO FACTORY.
- Select UPLOAD to upload custom programs from the current MASTER device to the SLAVE devices.



- Enter the KEY-LOCK mode to select, whether the access password is On or Off.
- The Access Password: UP + DOWN + UP + DOWN .

When you have pressed ENTER in menu Password ON, it will take 30 seconds before the LED Par is locked. When the password is activated, the display will ask for password each time the fixture is powered on.

How to make your own Custom Program



And so you can add a maximum of 30 scenes.

After that you can start with Custom 2 and create a maximum of 30 scenes again.

You can repeat these steps, until you've reached Custom 10, step 30.

This means, it is possible to create 300 separate scenes.

DMX Control Stage 1

Channel	Value	Function
		Dimmer
1	000 – 255	0 - 100 %
2	000 – 255	Red 0 – 100 %; CH2 will control the TIME , if CH7 is set to custom 01-10 (only if CH7 121-220)
		Green
3	000 – 255	0 – 100 %; CH2 will control the FADE , if CH7 is set to custom 01-10 (only if CH7 121-220)
4	000 055	Blue
4	000 – 255	0 - 100 % Macro Colors
5	000 – 010	No Function
-	011 – 035	Red 100% / Green Up / Blue 0%
	036 – 060	Red Down / Green 100% / Blue 0%
	061 – 085	Red 0% / Green 100% / Blue Up
	086 – 110	Red 0% / Green Down / Blue 100%
	111 – 135	Red Up / Green 0% / Blue 100%
	136 – 160	Red 100% / Green 0% / Blue Down
	161 – 185	Red 100% / Green Up / Blue Up
	186 – 210	Red Down / Green Down / Blue 100%
	211 – 215	White 1: 3200K
	216 – 220	White 2: 3400K
	221 – 225	White 3: 4200K
	226 – 230	White 4: 4900K
	231 – 235	White 5: 5600K
	236 – 240	White 6: 5900K
	241 – 245	White 7: 6500K
	246 – 250	White 8: 7200K White 9: 8500K
	251 – 255	Strobe
6	000 – 010	No Function
· ·	011 – 255	0 – 20 Hz
	011 200	Auto + Custom
7	000 – 020	No Function
	021 – 030	Auto 1
	031 – 040	Auto 2
	041 – 050	Auto 3
	051 – 060	Auto 4
	061 – 070	Auto 5
	071 – 080	Auto 6
	081 – 090	Auto 7
	091 – 100	Auto 8
	101 – 110	Auto 9
	111 – 120	Auto 10
	121 – 130	Custom 1
	131 – 140	Custom 2
	141 – 150	Custom 3
	151 – 160 161 – 170	Custom 4 Custom 5
	171 – 180	Custom 6
	181 – 190	Custom 7
	191 – 190	Custom 8
	201 – 210	Custom 9
	211 – 220	Custom 10
	221 – 255	No Function
8	000 – 255	Auto Speed.
		Only for CH7 AUTO 1-AUTO 9
	I	I and the second

Channel 9 (ID address selection)						
000 – 009	All ID's	212	ID 23	235	ID 46	
010 - 019	ID 1	213	ID 24	236	ID 47	
020 - 029	ID 2	214	ID 25	237	ID 48	
030 - 039	ID 3	215	ID 26	238	ID 49	
040 - 049	ID 4	216	ID 27	239	ID 50	
050 - 059	ID 5	217	ID 28	240	ID 51	
060 - 069	ID 6	218	ID 29	241	ID 52	
070 - 079	ID 7	219	ID 30	242	ID 53	
080 - 089	ID 8	220	ID 31	243	ID 54	
090 - 099	ID 9	221	ID 32	244	ID 55	
100 - 109	ID 10	222	ID 33	245	ID 56	
110 – 119	ID 11	223	ID 34	246	ID 57	
120 - 129	ID 12	224	ID 35	247	ID 58	
130 – 139	ID 13	225	ID 36	248	ID 59	
140 - 149	ID 14	226	ID 37	249	ID 60	
150 – 159	ID 15	227	ID 38	250	ID 61	
160 – 169	ID 16	228	ID 39	251	ID 62	
170 – 179	ID 17	229	ID 40	252	ID 63	
180 – 189	ID 18	230	ID 41	253	ID 64	
190 – 199	ID 19	231	ID 42	254	ID 65	
200 - 209	ID 20	232	ID 43	255	ID 66	
210	ID 21	233	ID 44			
211	ID 22	234	ID 45			

MASTER DIMMER

- CH1 controls the intensity of the currently projected color.
- When the fader is at 255, the intensity of the output is at its maximum.

RED, GREEN AND BLUE SELECTION

- Channels 2, 3 and 4 control the overall intensity of each respective color.
- Channels 2, 3 and 4 can be combined to create an unlimited range of colors.

COLOR MACROS & WHITE BALANCE

- Channel 5 selects the required COLOR MACRO and whites in different colors.
- Channel 5 has priority over channels 2, 3, 4 and 6.
- Channel 1 is used to control the intensity of the COLOR MACRO.

STROBE

- CH6 is the strobe channel and controls the strobe effects of CH2, CH3, CH4 and CH5.
- The strobe is with an adjustable speed with a maximum of 20Hz.

ID ADDRESS SELECTION

- CH9 is used to select the target ID address.
- Each independent DMX address may have up to 66 independent ID addresses.
- ID address "0" allows control of all fixtures simultaneously.

AUTO

- Channel 7 selects the preset AUTO and CUSTOM programs (1-10).
- Channel 7 has priority over channels 2, 3, and 4.
- When activating the custom AUTO programs 1-10, it is possible to control the **Step Time** (**CH2**) and **Fade Time** (**CH3**).

DMX Control ARC 1

Channel	Value	Function
		Red
1	000 – 255	0 - 100 %
		Green
2	000 – 255	0 - 100 %
		Blue
3	000 – 255	0 - 100 %

DMX Control ARC 1+D

Channel	Value	Function
		Dimmer
1	000 – 255	0 - 100 %
		Red
2	000 – 255	0 - 100 %
		Green
3	000 – 255	0 - 100 %
		Blue
4	000 – 255	0 - 100 %

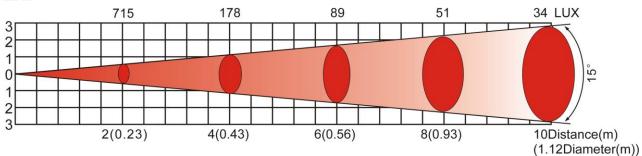
DMX Value – ID Addresses

DMX	ID addresses
0-9	Select all ID addresses
10-19	ID address #1
20-29	ID address #2
30-39	ID address #3
40-49	ID address #4
50-59	ID address #5
60-69	ID address #6
70-79	ID address #7
80-89	ID address #8
90-99	ID address #9
100-109	ID address #10
110-119	ID address #11
120-129	ID address #12
130-139	ID address #13
140-149	ID address #14
150-159	ID address #15
160-169	ID address #16
170-179	ID address #17
180-189	ID address #18
190-199	ID address #19
200-209	ID address #20
210	ID address #21
211	ID address #22
212	ID address #23
213	ID address #24
214	ID address #25
215	ID address #26
216	ID address #27
217	ID address #28
218	ID address #29
219	ID address #30
220	ID address #31
221	ID address #32
222	ID address #33

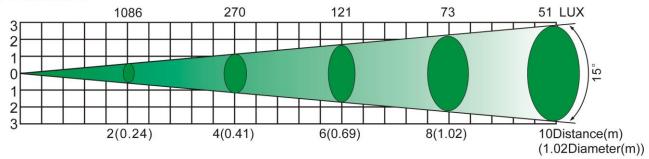
DMX	ID addresses
223	ID address #34
224	ID address #35
225	ID address #36
226	ID address #37
227	ID address #38
228	ID address #39
229	ID address #40
230	ID address #41
231	ID address #42
232	ID address #43
233	ID address #44
234	ID address #45
235	ID address #46
236	ID address #47
237	ID address #48
238	ID address #49
239	ID address #50
240	ID address #51
241	ID address #52
242	ID address #53
243	ID address #54
244	ID address #55
245	ID address #56
246	ID address #57
247	ID address #58
248	ID address #59
249	ID address #60
250	ID address #61
251	ID address #62
252	ID address #63
253	ID address #64
254	ID address #65
255	ID address #66

Beam Angles

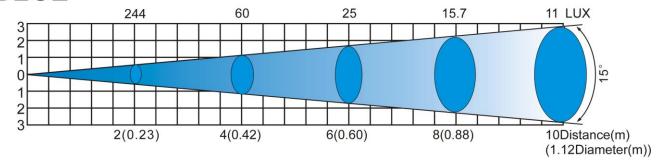
RED



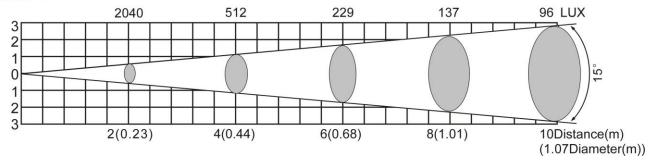
GREEN



BLUE



RGB



Connection Cables

Take care of the connector cables, always holding them by the connectors and avoiding knots and twists when coiling them: This gives the advantage of increasing their life and reliability, which is always to your advantage. Periodically check that your cables are in good condition, that they are correctly wired and that all their contacts are perfectly efficient: a great number of problems are caused entirely by using unsuitable or faulty cables.

Occupation of the XLR-connection:

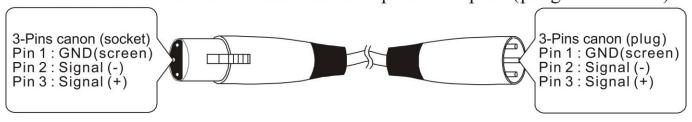
DMX-OUTPUT XLR mounting-socket:

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

DMX-input XLR mounting-plug



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



Maintenance

The LED Desgin Par 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. Wipe the front glass panel clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. The front glass panel will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly. Do not immerse in liquid. Keep connections clean. Disconnect electric power, and then wipe the DMX 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-relating 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-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.

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

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.

- 1. If the device does not operate properly, unplug the device.
- 2. Check the fuse, power from the wall, all cables etc.
- 3. If all of the above appears to be O.K., plug the unit in again.
- **4.** If you are unable to determine the cause of the problem, do not open the device, as this may damage the unit and the warranty will become void.
- 5. Return the device to your Showtec dealer.

Product Specification

Power Supply: AC 90V-240V, 50/60 Hz

Power consumption: 30 Watt

Fuse 1,5A 250V IEC Power

LED/unit: 6x 1W Red

6x 1W Green 6x 1W Blue

Beam angle: 15°

Standalone mode: Built-in programs

master-slave

Operating mode: Auto, Custom, DMX

DMX-512: Channels: 3, 4, 9 channels (with ID addressing)

Dimmer: 0-100%

Dimensions: 240 x 210 x 160 mm (LxWxH)

Weight: 2,5 kg

Operating modes: 3-channel: RGB control

4-channel: RGB, dimmer

9-channel: RGB, ID, dim, macro, strobe, automatic, custom

• Blackout/static/dimmer/strobe/pulse

• RGB color mixing with or without DMX controller

• Built-in automated programs via master/slave, DMX

• Recall custom programs via master/slave or DMX

• Menu settings: LCD display

• Control: DMX-512

• High-power, 1W (350mA) LEDs

RGB color mixing with or without DMX controller

Color temperature presets (3,200°K – 8.500°K) or create your own color temperature

Additional Features

Additional power output: max 40 units @ 220V/ 20 units @ 120V connected in serie LCD display with password protection

- Adjustable barn doors to direct output
- Transfer custom programs between fixtures
- Double-bracket yoke doubles as floor stand

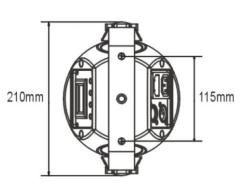
LUX Values

	2m.	4m.	6m.	8m.	10m.
Red	715	178	89	51	34
Green	1086	270	121	73	51
Blue	244	60	25	15,7	11
RGB	2040	512	229	137	96

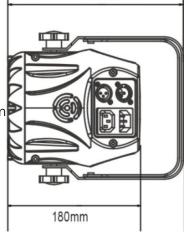
Design and product specifications are subject to change without prior notice.



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









© 2009 Showtec.