USER MANUAL

eurolite®

LED PAR-64 HCL Floor

CAUTION!
Keep this device away from rain and moisture!
Never open the housing!

For your own safety, please read this user manual carefully before you initially start-up.

Every person involved with the installation, operation and maintenance of this device has to
- be qualified
- follow the instructions of this manual
- consider this manual to be part of the total product
- keep this manual for the entire service life of the product
- pass this manual on to every further owner or user of the product
- download the latest version of the user manual from the Internet

INTRODUCTION

Thank you for having chosen a EUROLITE LED PAR-64 HCL Floor. If you follow the instructions given in this manual, we are sure that you will enjoy this device for a long period of time.

Unpack your LED PAR-64 HCL Floor.

SAFETY INSTRUCTIONS

CAUTION!
Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!

This device has left our premises in absolutely perfect condition. In order to maintain this 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 user manual.

☞ **Important:**
Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

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.

Please make sure that there are no obvious transport damages. Should you notice any damages on the A/C connection cable or on the casing, do not take the device into operation and immediately consult your local dealer.

This device falls under protection-class I. The power plug must only be plugged into a protection class I outlet. The voltage and frequency must exactly be the same as stated on the device. Wrong voltages or power outlets can lead to the destruction of the device and to mortal electrical shock.

Always plug in the power plug last. The power plug must always be inserted without force. Make sure that the plug is tightly connected with the outlet.

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 touch them with wet hands, as this could lead to mortal electrical shock.

Never modify, bend, strain mechanically, put pressure on, pull or heat up the power cord. Never operate next to sources of heat or cold. Disregard can lead to power cord damages, fire or mortal electrical shock.

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 mortal damage.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

If extension cords are used, make sure that the core diameter is sufficient for the required power consumption of the device. All warnings concerning the power cords are also valid for possible extension cords.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord. Otherwise, the cable or plug can be damaged leading to mortal electrical shock. If the power plug or the power switch is not accessible, the device must be disconnected via the mains.

If the power plug or the device is dusty, the device must be taken out of operation, disconnected and then be cleaned with a dry cloth. Dust can reduce the insulation which may lead to mortal electrical shock. More severe dirt in and at the device should only be removed by a specialist.

There must never enter any liquid into power outlets, extension cords or any holes in the housing of the device. If you suppose that also a minimal amount of liquid may have entered the device, it must immediately be disconnected. This is also valid, if the device was exposed to high humidity. Also if the device is still running, the device must be checked by a specialist if the liquid has reduced any insulation. Reduced insulation can cause mortal electrical shock.

There must never be any objects entering into the device. This is especially valid for metal parts. If any metal parts like staples or coarse metal chips enter into the device, the device must be taken out of operation and disconnected immediately. Malfunction or short-circuits caused by metal parts may cause mortal injuries.

⚠️ **HEALTH HAZARD!**
Never look directly into the light source, as sensitive persons may suffer an epileptic shock (especially meant for epileptics)!

Keep away children and amateurs!

Never leave this device running unattended.

OPERATING DETERMINATIONS

This device is a lighting effect for creating decorative effects. This product allowed to be operated with an alternating voltage of 100-240 V, 50/60 Hz and was designed for indoor use only.
This device is designed for professional use, e.g. on stages, in discotheques, theatres etc.

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

Do not shake the device. Avoid brute force when installing or operating the device.

When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!

This device must never be operated or stockpiled in surroundings where splash water, rain, moisture or fog may harm the device. Moisture or very high humidity can reduce the insulation and lead to mortal electrical shocks. When using smoke machines, make sure that the device is never exposed to the direct smoke jet

and is installed in a distance of 0.5 meters between smoke machine and device. The room must only be saturated with an amount of smoke that the visibility will always be more than 10 meters.
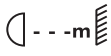
The ambient temperature must always be between -5° C and +45° C. Keep away from direct insulation (particularly in cars) and heaters.

The relative humidity must not exceed 50 % with an ambient temperature of 45° C.

This device must only be operated in an altitude between -20 and 2000 m over NN.

Never use the device during thunderstorms. Over voltage could destroy the device. Always disconnect the device during thunderstorms.

The F-symbol means: this device can be installed on normal inflammable surfaces.

The symbol ⬑- - -m⬏ determines the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than the given value.

This device is only allowed for an installation via the mounting bracket. In order to safeguard sufficient ventilation, leave 50 cm of free space around the device.

The housing must never touch surrounding surfaces or objects.

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

Always fix the fixture with an appropriate safety bond.

The maximum ambient temperature T_a = 45° C must never be exceeded.

Operate the device only after having become familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!

Never use solvents or aggressive detergents in order to clean the device! Rather use a soft and damp cloth.

Please use the original packaging if the device is to be transported. Make sure that you pack the device in the original state.

Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.
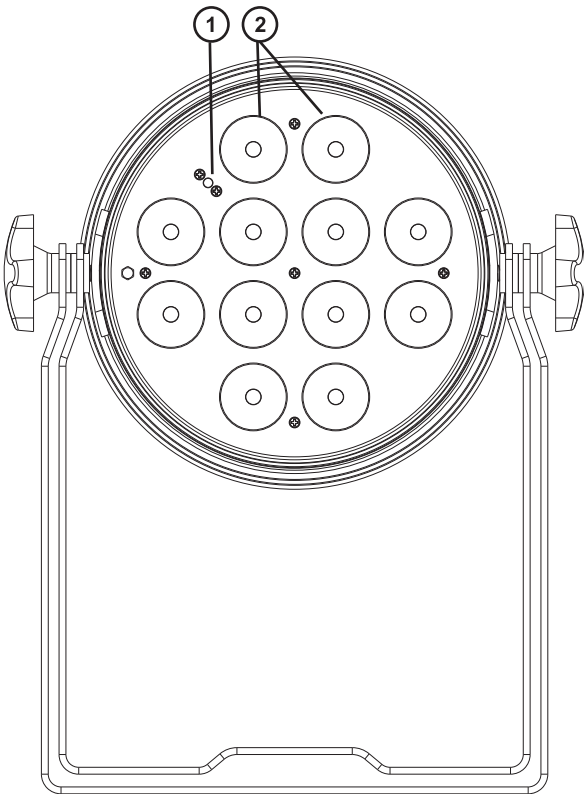
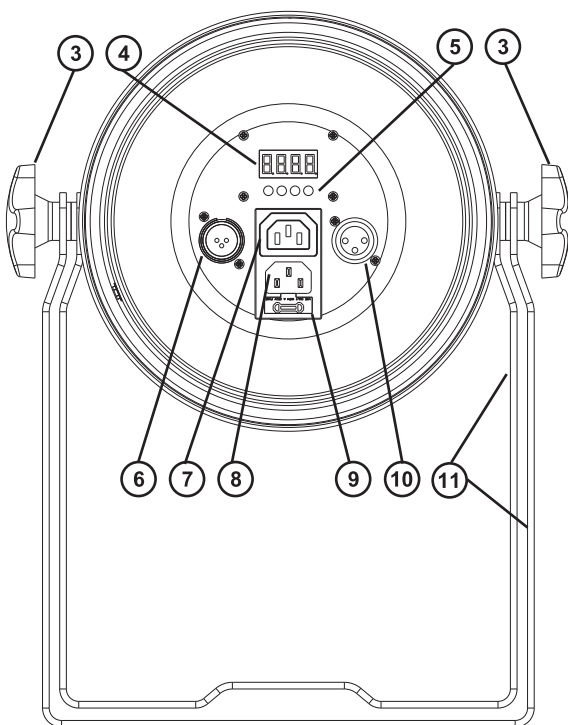# DESCRIPTION OF THE DEVICE

Features:

Versatile LED PAR-64 spot with 10 W LEDs (6in1 LEDs)
• Operable in stand-alone mode or via DMX interface
• DMX512 control possible via any commercial DMX controller (occupies max.10 channels)
• 4 or 10 DMX channels selectable for various applications
• Sound-control via built-in microphone
• Adjustable microphone sensitivity via control board
• Functions: Static colors, RGBAWUV color blend, UV effects, auto mode, sound control, internal programs, dimmer and strobe settings via DMX, Master/Slave
• Equipped with 12 x 10 W LEDs in red, green, blue, amber, white and UV
• Designed for hanging or standing installation
• Locking possibility at the mounting bracket
• Comfortable addressing and setting via control board with LED display and four operating buttons
• Additional controlling possibility via the EUROLITE IR-7 remote control, included in delivery
• Switch-mode power supply for operation between 100 and 240 volts
• Feed-through output allows to power up to 8 devices
• Ready for connection via included IEC power cord with safety power plug
• Silver or black housing available

Overview:

(1) Infrared sensor for the remote control
(2) Lenses with HCL LEDs

(3) Fixation screw
(4) Display
(5) Operation buttons
(6) DMX in
(7) Power output
(8) Power supply
(9) Fuse holder
(10)DMX out
(11) Brackets

INSTALLATION

The floor device can be installed on the ground or on the wall or ceiling.

Overhead rigging

> ⚠ **DANGER TO LIFE!**
> Please consider the EN 60598-2-17and the respective national standards during the installation!
> The installation must only be carried out by an authorized dealer!

The installation of the device has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g. an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.

When rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

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

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

Procedure:
The device should be installed outside areas where persons may walk by or be seated.

IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and.or damage to property.

The device has to be installed out of the reach of people.

If the device shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The device must never be fixed swinging freely in the room.

Caution: Devices may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do NOT install the device!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the device's weight.

> ⬦ **DANGER OF FIRE!**
> When installing the device, make sure there is no highly-inflammable
> material (decoration articles, etc.) within a distance of min. 0.5 m.

Mount the device with the mounting-bracket to your trussing system using an appropriate clamp.

For overhead use, always install an appropriate safety bond.

You must only use safety bonds and quick links complying with DIN 56927, shackles complying with DIN EN 1677-1 and BGV C1 carbines. The safety bonds, quick links, shackles and the carbines must be sufficiently dimensioned and used correctly in accordance with the latest industrial safety regulations (e. g. BGV C1, BGI 810-3).

Please note: for overhead rigging in public or industrial areas, a series of safety instructions have to be followed that this manual can only give in part. The operator must therefore inform himself on the current safety instructions and consider them.

The manufacturer cannot be made liable for damages caused by incorrect installations or insufficient safety precautions!

Pull the safety bond through the hole in the mounting-bracket and over the trussing system or a safe fixation spot. Insert the end in the quick link and tighten the safety screw.

The maximum drop distance must never exceed 20 cm.

A safety bond which already held the strain of a crash or which is defective must not be used again.

Adjust the desired inclination-angle via the mounting-bracket and tighten the fixation screws.

⚠ **DANGER TO LIFE!**
Before taking into operation for the first time, the installation has to be approved by an expert!

DMX512 control

⚠ **The wires must not come into contact with each other, otherwise the devices will not work at all, or will not work properly.** ⚠

⚠ **Please note, the starting address depends upon which controller is being used.** ⚠

Only use a DMX cable and 3-pin XLR plugs and connectors in order to connect the controller with the fixture or one fixture with another.

Occupation of the XLR connection:

DMX-output
XLR mounting-socket:

1: Ground
2: Signal (–)
3: Signal (+)

DMX-input
XLR mounting-plug:

1: Ground
2: Signal (–)
3: Signal (+)

If you are using controllers with this occupation, you can connect the DMX output of the controller directly with the DMX input of the first device in the DMX chain. If you wish to connect DMX controllers with other XLR outputs, you need to use adapter cables.

Building a serial DMX chain:
Connect the DMX output of the first device in the DMX chain with the DMX input of the next device. Always connect one output with the input of the next device until all devices are connected.

Caution: At the last fixture, the DMX cable has to be terminated. Plug the terminator with a 120 Ω resistor between Signal (–) and Signal (+) in the DMX output of the last fixture.

Master/Slave operation

The master/slave operation enables that several devices can be synchronized and controlled by one master device.

On the rear panel of the device you can find an XLR jack and an XLR plug, which can be used for connecting several devices.

Choose the device which is to control the effects. This device then works as master device and controls all other slave devices, which are to be connected to the master device via a DMX-cable. Connect the OUT jack with the IN plug of the next device.

Press the MODE button to select the **SLAVE** mode. The devices set in this manner can now be controlled by the master unit.

Please see further instructions under *Operation.*

Connection between devices

On the rear panel, there is an IEC socket (Power Out). Connect the output with the input of the next fixture until all fixtures are connected.

Attention: It is recommended to renew the connection with the power mains after every **8** devices.

Connection with the mains

Connect the device to the mains with the enclosed power supply cable.

The occupation of the connection-cables is as follows:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	⏚

The earth has to be connected!

If the device will be directly connected with the local power supply network, a disconnection switch with a minimum opening of 3 mm at every pole has to be included in the permanent electrical installation.

The device must only be connected with an electric installation carried out in compliance with the IEC-standards. The electric installation must be equipped with a Residual Current Device (RCD) with a maximum fault current of 30 mA.

Lighting effects must not be connected to dimming-packs.

OPERATION

After you connected the spot to the mains, the EUROLITE LED PAR-64 HCL Floor starts running.

The display lights up and you can choose the desired mode via the buttons MODE, ENTER, UP and DOWN.

The device has two operating modes. It can be operated in stand-alone mode via the control board and the remote control or in DMX-controlled mode via any commercial DMX controller.
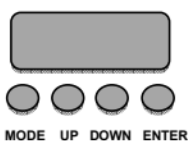
Stand-alone mode

In the stand-alone mode, the device can be used without controller.

Disconnect the device from the controller. Please refer to the instructions under chapter *Control Board*.

Control Board

The Control Board offers several features: you can easily set the starting address, run the pre-programmed program or select a DMX channel mode.

MODE UP DOWN ENTER

The main menu is accessed by pressing MODE until the display is lit. Browse through the menu by pressing UP or DOWN. Press ENTER in order to select the desired menu. You can change the selection by pressing UP or DOWN. Press ENTER in order to confirm. You can leave every mode by pressing MODE. The functions provided are described in the following sections.

Mode	Program	Description
Auto	Au-1	**Auto programs (Master mode)** Program 1 Program 2 Program 3
	Au-2	
	Au-3	
Sound	So-1	**Sound controlled mode (Master mode)** Program 1 Program 2 Program 3
	So-2	
	So-3	
Speed	SP 1—SP9	**Select the desired speed** (increasing)
Sensitivity	Se 1—Se9	**Microphone sensitivity** Sound controlled mode (increasing)
Silent scene	OFF	Program continues automatically during periods without music or bass-beat
	ON	Program does not automatically continue during periods without music or bass-beat
InFr	ON	**Control via IR remote** :enable
	OFF	**Control via IR remote** :disenable
Addr	4CH	**Setting DMX channel mode** **DMX address setting** d 001~d 512 4 channels DMX mode d 001~d 512 10 channels DMX mode
	10CH	
Slave	Slav	**Slave**
RGB	Red	000 - 255
	Green	000 - 255
	Blue	000 - 255
	White	000 - 255
	Amber	000 - 255
	UV	000 - 255
Color		**Color presets (Master-Mode)**
	C1	Red
	C2	Green
	C3	Blue
	C4	White
	C5	Amber
	C6	UV
	C7	Red + Green
	C8	Green + Blue
	C9	Blue + White
	C10	White + Amber
	C11	Amber + UV
	C12	Red + Blue + UV
	C13	Green + Amber
	C14	Red +Green + Blue
	C15	Red + Green + Blue + White
Dimming	dim 1 – dim9	0-100% for Auto mode, Sound mode and Color presets

DMX-CONTROLLED OPERATION

You can control the devices individually via your DMX-controller.

DMX-Mode

The device has two different DMX channel modes. The Control Board allows you, as described below, to assign the DMX channel mode.

Addressing

The Control Board allows you to assign the DMX fixture address, which is defined as the first channel from which the device will respond to the controller.

Press the MODE button until the display shows **Addr.** Press ENTER to confirm.

Select the desired DMX Channel Mode 4CH/10CH and again press ENTER to confirm.

You can now set the desired address via the UP or DOWN buttons. Press ENTER once again to confirm.

Press the MODE button in order to return to the main menu.

Please, be sure that you don't have any overlapping channels in order to control each device correctly and independently from any other fixture on the DMX-chain.

If several devices are addressed similarly, they will work synchronically.

Controlling:

After having addressed the LED PAR-64 HCL Floor, you may now start operating it via your lighting controller.
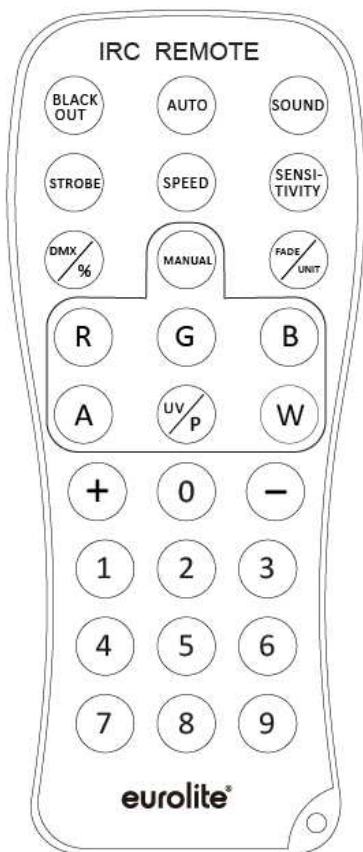
DMX protocol

4 channel mode

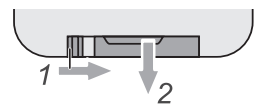| Channel:	Value:	Function:
1 Color Presets	000 - 009	No function
	010 - 019	Red
	020 - 029	Green
	030 - 039	Blue
	040 - 049	White
	050 - -059	Amber
	060 - 069	UV
	070 - 079	Red + Green
	080 - 089	Red + Blue
	090 - 099	Red + White
	100 - 109	Red + Amber
	110 - 119	Red + UV
	120 - 129	Green + Blue
	130 - 139	Green + White
	140 - 149	Green + Amber
	150 - 159	Green + UV
	160 - 169	Blue + White
	170 - 179	Blue + Amber
	180 - 189	Blue + UV
	190 - 199	White + Amber
	200 - 209	White + UV
	210 - 219	Amber + UV
	220 - 229	Red + Green + Blue
	230 - 239	Red + Blue + Amber
	240 - 249	Green + White + UV
	250 - 255	Red + Green + Blue + White + Amber + UV
2 Strobe	000 - 009	No function
	010 - 255	Strobe with increasing speed
3 Programs via DMX	000 - 009	No function
	010 - 199	Auto mode via DMX
	200 - 255	Sound mode via DMX
4 Speed via DMX	000 - 255	Increasing speed in Auto /Sound modes via DMX

10 channel mode

Channel:	Value:	Function:
1	000 - 255	Red
2	000 - 255	Green
3	000 - 255	Blue
4	000 - 255	White
5	000 - 255	Amber
6	000 - 255	UV
7 **Dimmer**	000 - 255	Increasing brightness
8 **Strobe**	000 - 009	No function
	010 - 255	Strobe with increasing speed
9 **Programs via DMX**	000 - 009	No function
	010 - 199	Auto mode via DMX
	200 - 255	Sound mode via DMX
10 **Speed via DMX**	000 - 255	Increasing speed in Auto /Sound modes via DMX

EUROLITE IR-7 remote control

1 The device must be activated for remote control. For this, under menu item InFr, press the ENTER button to confirm activation.

2 When actuating a button, always hold the remote control in the direction of the sensor. There must be visual connection between the remote control and the sensor.

3 The remote control is supplied with a battery inserted. An insulating foil between the battery and the battery contacts prevents the battery from being discharged during storage. Prior to the first operation remove the foil from the battery support on the rear side of the remote control. Otherwise operation of the remote control is not possible.

4 If the range of the remote control decreases (10 meters as a maximum), replace the battery. For this purpose, on the rear side of the remote control press the small bar with the groove to the right and at the same time remove the battery support. For operation, one 3 V button cell type CR 2025 is required. When inserting, pay attention that the positive pole of the button cell shows upwards in the support.

CAUTION!
Danger of explosion when battery is replaced improperly. Only replace by the same type.
Please dispose of old and used batteries properly. Batteries are hazardous waste and should not be disposed of with regular domestic waste!

No.	Key (Step 1)	Step 2	Description
1	**BLACKOUT**		Blackout
2	**AUTO**	**+/-**	Internal programs
3	**SOUND**	**+/-**	Sound controlled internal programs
4	**STROBE**	**+/-**	Strobe effect - available for AUTO / SOUND programs
5	**SPEED**	**+/-**	Select the desired speed for AUTO / SOUND programs
6	**SENSITIVITY**	**+/-**	Microphone sensitivity
7	**DMX/%**		Enables or disables DMX mode on the device
8	**MANUAL**		Choose R/G/B/A/W/UV
		+/-	Adjust brightness manually
9	**FADE**		Fading (**on or off**) for AUTO / SOUND / MANUAL programs
10	**Number: 1-9**		Adjust brightness for AUTO / SOUND / MANUAL programs

CLEANING AND MAINTENANCE

⚠ **DANGER TO LIFE!**
Disconnect from mains before starting maintenance operation!

We recommend a frequent cleaning of the device. Please use a soft lint-free and moistened cloth. Never use alcohol or solvents!

There are no serviceable parts inside the device except for the fuse. Maintenance and service operations are only to be carried out by authorized dealers.

Replacing the fuse

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.

Before replacing the fuse, unplug mains lead.

Procedure:

Step 1: Open the fuse-holder on the rear panel with a fitting screwdriver.
Step 2: Remove the old fuse from the fuse-holder.
Step 3: Install the new fuse in the fuse-holder.
Step 4: Replace the fuse-holder in the housing.

Should you need any spare parts, please use genuine parts.

If the power supply cable of this device becomes damaged, it has to be replaced by a special power supply cable available at your dealer.

Should you have further questions, please contact your dealer.

TECHNICAL SPECIFICATIONS

Power supply:	100-240 V AC, 50/60 Hz ~
Power consumption:	125 W
DMX-control-channels:	4/10
DMX-512-connection:	3-pin XLR
Sound-control:	via built-in microphone
LED type:	10 W LED RGBAWUV
Number of LEDs:	12
Beam angle:	33°
Maximum ambient temperature T_a:	45° C
Maximum housing temperature T_c:	60° C
Min.distance from flammable surfaces:	0.5 m
Min.distance to lighted object:	0.3 m
Fuse:	T 2 A, 250V
Dimensions (LxWxH):	277 x 296 x 375 mm
Weight:	2.8 kg

Accessory:
TH-200 Theatre clamp silver _____No. 58000740
TPC-10 Coupler, silver _____No. 59006856
Safety bond 3x600 silver _____No. 58010250
Safety bond AG-5 3x600mm up to 5kg sil __No. 58010360
Safety bond A 3x600mm up to 5kg, silver __No. 58010310
DMX cable XLR 3pin 5m bk Neutrik_____No. 30227812
DMX cable XLR 3pin 5m bl _____No. 3022785K
DMX cable XLR 3pin 5m bk Hicon _____No. 30307458
DMX cable XLR 3pin 5m bk Neutrik_____No. 30307471
IEC extension 3x1.0 5m bk_____No. 30235202
IR-7 Remote control _____No. 50530561
DMX LED Operator 6 controller _____No. 70064506
Flightcase 4x PAR-64 spot short _____No. 31000800
Flightcase 4x PAR-64 spot long _____No. 31000810
Flightcase 4x PAR-64 spot long clamp_____No. 31000815
Flightcase EP-64 4x PAR-64 spot short____No. 31005060
Flightcase EP-64 4x PAR-64 spot long ____No. 31000580
Flightcase 8x PAR-64/ML-56 _____No. 31000820

Please note: All information is subject to change without prior notice. 01.06.2016 ©