



P5 BEAMSPOT

Operating instructions

Version 1.08

Software >= 1.0.0

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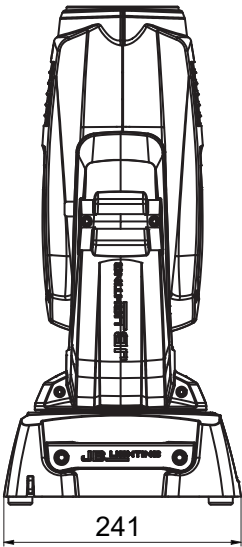
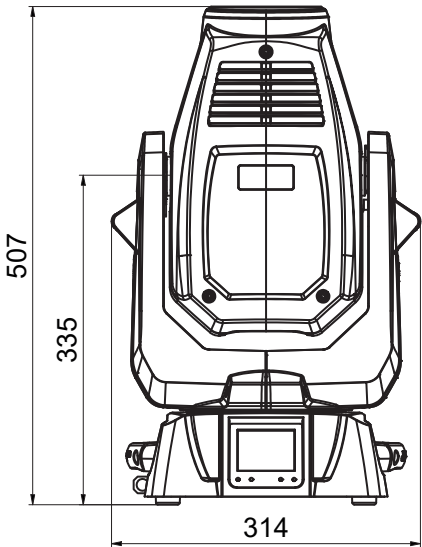
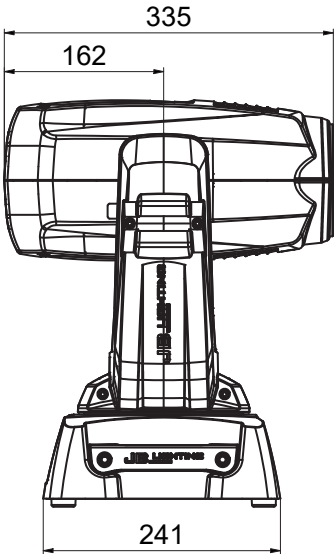
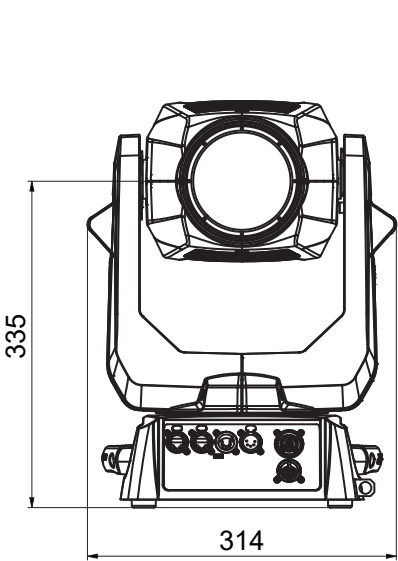
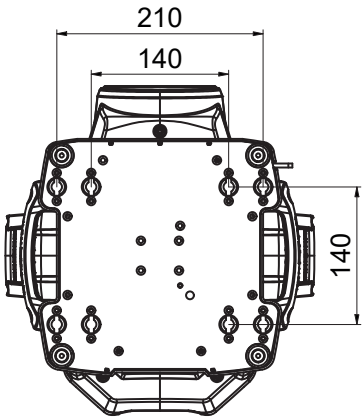
1. Introduction

1.1 P5 Beamspot

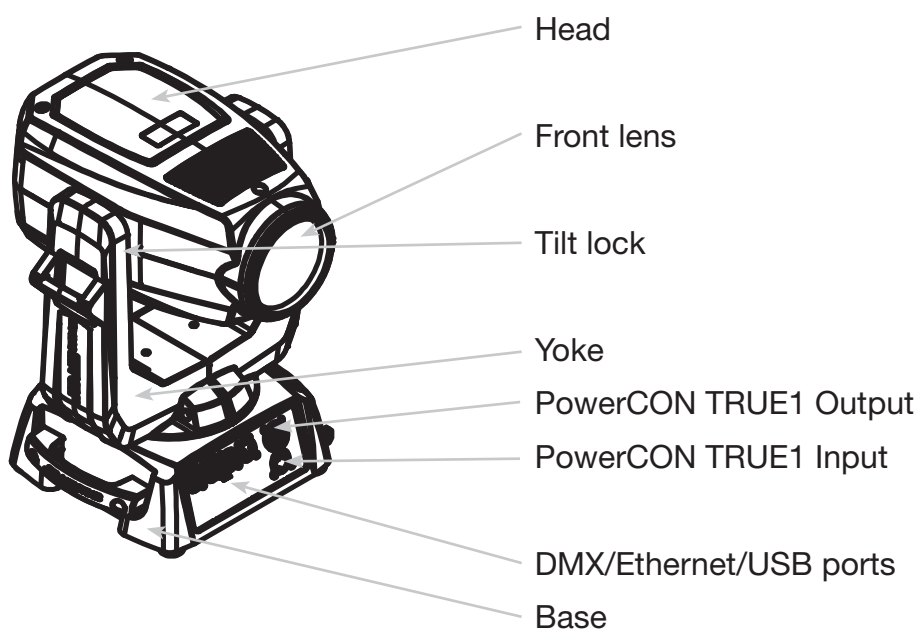
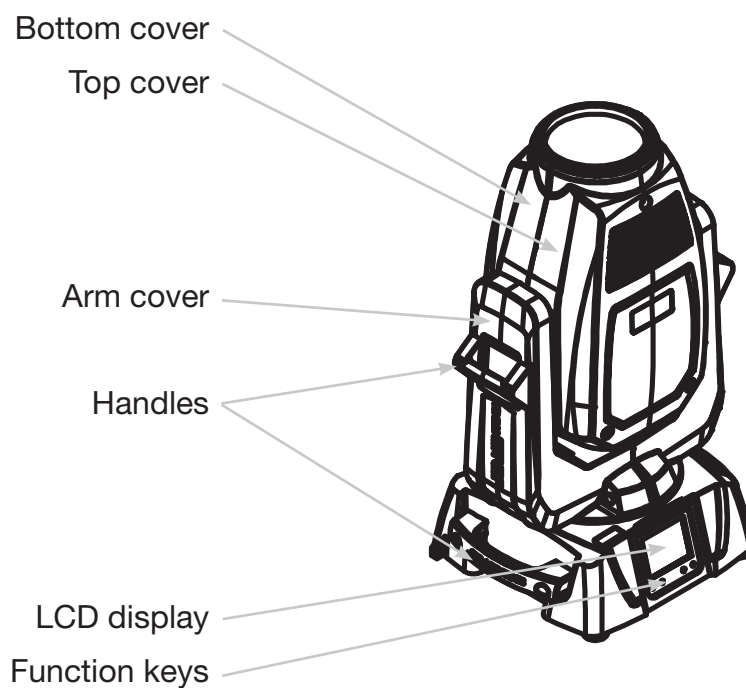
The P5 beam spot is only available in the light color HP (High Power). It can also be operated without any problems in the light colors 5800K (CRI> 90) and 3200K.



2. Dimensions



3. Product overview



4. Safety instructions



ATTENTION: For your own safety, please read these operating instructions carefully before first use.

This spotlight has left our company in excellent condition. To maintain this condition and to ensure safe operation, it is absolutely essential to observe the following safety instructions and warnings which are described in this operating manual.

The manufacturer accepts no liability for damage caused to the device by disregard of these operating instructions or unauthorised modifications.

Please note that damage caused by manual modifications to this unit is not covered by the warranty.



ATTENTION: This device is only suitable for professional use! Protection class IP 20
- only for use in dry environments (indoors)!

ATTENTION: JB-Lighting Lichtenlagentechnik GmbH does not authorise the use of its devices in life support systems. Life-supporting systems are systems whose purpose is to maintain or stabilise life and whose defect or malfunction may result in death or injury to persons.

The product in this manual complies with the following EU directives:

- Radio Equipment Directive 2014/53/EU (RED)
- Restriction of the use of certain hazardous substances 2011/65/EU (RoHS)



ATTENTION: Allow the device to cool down and disconnect the device from the mains before opening the device. Touching live parts (high voltage) can give you an electric shock.

Ensure that the mains voltage to be connected is not higher than that indicated on the type plate. This device should only be operated with the power source indicated on the type plate. If you are not sure what type of power supply you have, contact your dealer or power supplier.

Always disconnect the device from the power supply before carrying out cleaning work or before replacing fuses or parts.

The mains plug must always be accessible after the spotlight has been installed. Do not overload the sockets or extension cables as this could result in fire or electric shock. Do not place any objects on the power cable. Do not install the spotlight in such a way that people can trip over or step on the power cable. Make sure that the power cable can never be crushed or damaged by sharp edges. Check the unit and the power cable from time to time.

Leave maintenance work to a qualified technician!



ATTENTION: This fixture corresponds to protection class I. For this reason, this spotlight must be connected to a mains socket with earthing contact.

Never connect this device to a dimmer pack.

During first use, some smoke and odour may occur. This is normal and does not necessarily mean that the device is defective.

The device becomes hot during operation. Never touch the device with bare hands during operation!

When replacing fuses, only use the same types with identical values! Only have fuse replacement carried out by a qualified technician



ATTENTION: DAMAGE TO EYES! Do not look into the light source for long periods during operation. This can be harmful to the eyes. Attention: potentially hazardous radiation - Risk group 2 based on DIN EN 62471

If the device has been exposed to strong temperature fluctuations (e.g. after transport), the device must not be switched on immediately. The resulting condensation can damage your device. Leave the device switched off until it has reached room temperature.

If the P5 Beamspot is operated below 0°, gobo/prism swapping and gobo/prism rotation are reduced in speed. This is a protective mechanism of the P5 Beamspot, as at low temperatures the lubricant is relatively viscous in the rotational mechanism and can therefore cause the effect to be slurred. From indoor temperatures of 20° and upwards, the spotlight runs normally! This temperature is quickly reached under normal operation (LED engine on).

Do not shake or knock the device. Avoid brute force during installation or operation.

This light was designed for indoor use only. Do not expose this device to rain or moisture.

When choosing a mounting location, make sure that the device is not exposed to extreme heat, moisture or dust.

Ventilation openings and slots in the head and foot of the spotlight are used for ventilation to ensure reliable operation of the device and to protect it from overheating, these openings must not be covered.

Never cover the front lens when the spotlight is in use.

The openings should never be covered with substances or other objects so that the airways are blocked.

This device must not be operated in an environment without adequate ventilation.

The device may only be operated when the housing is closed and all screws/Camlocs are firmly tightened.

The device must always be secured with an additional safety device. The safety rope must comply with the regulations typical for the country.

Ensure that the area below the spotlight is clear during installation, alteration and removal.



ATTENTION: Allow a fixture distance of at least 0.5 metres from easily flammable material and the distance between the light emission and the surface to be illuminated must be at least 2.0 meters.

The maximum ambient temperature of 45°C must not be exceeded.



ATTENTION: The front lens must be replaced if it is visibly damaged to the extent that its function is impaired, e.g. by cracks or deep scratches!

Do not operate the device until you have become familiar with its functions. Prevent operation by persons who are not qualified to use the device. Most damage is the result of improper operation!

Please use the original packaging or specially adapted flight cases if the device is to be transported. When using the original packaging, the locks must not be closed!



ATTENTION: To avoid damaging the internal parts of the light head, never let sunlight shine directly into the front lens.

5. Installation

5.1 Unpacking the device

Contents of the packaging: This spotlight, two Omega brackets with original Camloc fasteners, powerCON-TRUE1 Schuko cable and a safety note. Open the packaging at the top and remove the powerCON TRUE1 cable, the inlay and the safety instructions. The Omega brackets are located under the spotlight. Check the P5 Beamspot for possible transport damage. This should be communicated immediately to the transport company.

5.2 Fitting the plug to the connection cable

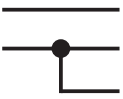
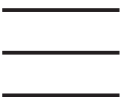
The P5 Beamspot is supplied with an assembled Schuko power cable with the powerCON-TRUE1 plug (only the powerCON-TRUE1 plug is included in the US version). The connection of the P5 Beamspot to the power supply (100-240 volts, 50 - 60 hertz) must comply with the connection rules of the respective country.

Connection in Germany/Europe:

Wire colour	Function	Symbol
Brown	Phase	“L”
Blue	Neutral wire	“N”
Green/Yellow	Protective earth	“PE” 

Connection outside Europe:

The P5 Beamspot may only be operated on the following power supply systems:

	Mains		P5
2 wires, 1 phase	L N		L N PE
3 wires, 1 phase	L N L		L N
4 wires, 3 phases	L ₁ L ₂ L ₃ N		L N PE

5.3 Mains connection

Connected loads: Voltage 200-240 V, frequency 50 - 60 Hz, power max. 350 VA

The electrical safety and function of the device can only be guaranteed if it is connected to a properly installed protective conductor system. It is very important that this basic safety requirement is met. If in doubt, have the electrical installation checked by a specialist. The manufacturer cannot be held responsible for damage caused by a missing or interrupted protective conductor (e.g. electric shock)! Only use the device when it is completely assembled so that no electrical components can be touched. **(Danger 100-240 V)**

If you have observed the listed points, you can plug in the devices or have them connected to the mains by a specialist.



ATTENTION: The P5 Beamspot can light up immediately if standalone operation is activated or a DMX signal is present!

5.4 Wiring the power feed-through



ATTENTION: Only have it carried out by a specialist!

The P5 Beamspot has a powerCON-TRUE1 out power output. Depending on the local conditions several devices can be linked by powerCON-TRUE1 in and powerCON-TRUE1 out. Connect a maximum of ten (when using 230V/16A) P5 Beamspots in a row.

Use an approved three-core cable with a cross-section of at least 1.5 mm². Cabling must be done with the original Neutrik coded plugs. The installation instructions of the manufacturer (www.neutrik.com) and the colour coding of the cable must be observed.

Wire colour	Function	Symbol
Brown	Phase	“L”
Blue	Neutral wire	“N”
Green/Yellow	Protective earth	“PE” 

5.5 Signal connections

5.5.1 DMX cabling

The DMX cabling (signal lines) should be done with a 4-pin cable with shielding. We recommend a DMX cable (110 Ohm, 2x0.22mm² or 4x0.22mm²). The plugs and sockets are 5-pin XLR connectors, which can be purchased in specialist shops.

Pin assignment:

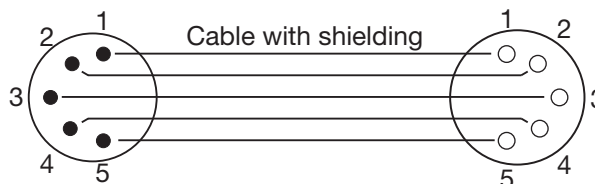
Pin1 = Ground/Shielding

Pin2 = DMX -

Pin3 = DMX +

Pin4 = not connected

Pin5 = not connected



The P5 Beamspot has a DMX-in and DMX-out connector. Now connect the DMX output of your controller to the 1st P5 Beamspot (Controller DMX-Out -> P5 Beamspot DMX-In). Then the 1st P5 Beamspot with the 2nd P5 Beamspot (P5 Beamspot DMX-Out -> P5 Beamspot DMX-In) and so on. In some cases it is advisable to insert a so-called end connector (XLR connector with a 120 Ohm resistor between pin 2 and pin 3). Whether an end connector is required depends on various factors, including the cable lengths used and the number of devices. However, as long as no problems occur in the DMX line, this is not necessary.

5.5.2 Ethernet cabling

Ethernet cabling can be done with standard network lines. The sockets on the device are Neutrik etherCON sockets. Special cables with etherCON connectors are recommended by Neutrik. The two sockets on the P5 are connected to each other via a switch. Up to 10 devices can be connected in series without any delay. The two Ethernet interfaces have a bypass function when the headlight is switched off, meaning the signal is also passed through when the device is without power. Of course, the spotlights can also be supplied in a star configuration via an external switch.

The received signal can be output via DMX. To do this, set the DMX OUTPUT CONFIG setting to ON in the PERSONALITY menu. After confirming with ENTER, the spotlight emits the entire universe received via DMX.



ATTENTION: Make sure that there is no signal at the DMX input at the same time !!

5.5.3 Wireless reception

The P5 Beamspot is equipped as standard with a **LumenRadio** CRMX receiver for wireless DMX. The receiver can process both DMX and RDM. If a cable and wireless connection are connected to the P5 Beamspot, the cable connection has priority! The received signal can be output via DMX. To do this, set the DMX OUTPUT CONFIG setting to ON in the PERSONALITY menu. After confirming with ENTER, the spotlight emits the entire universe received via DMX.



ATTENTION: Make sure that there is no signal at the DMX input at the same time !!

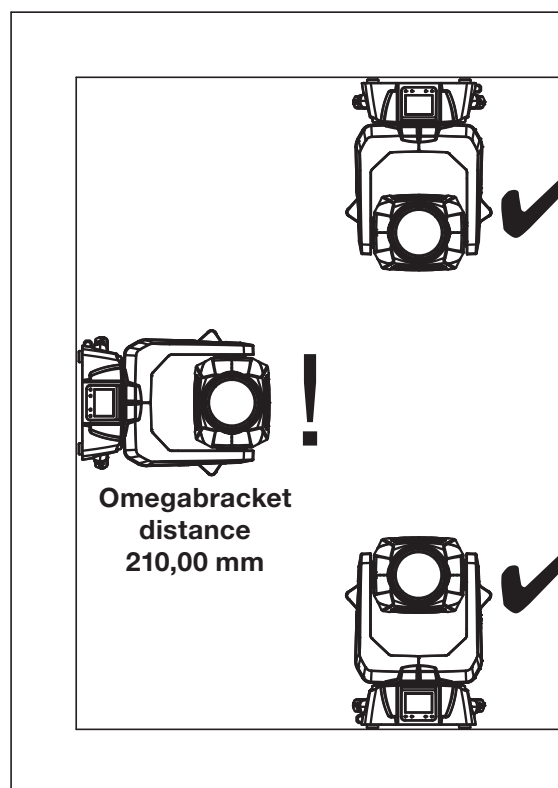
5.6 Mounting the devices



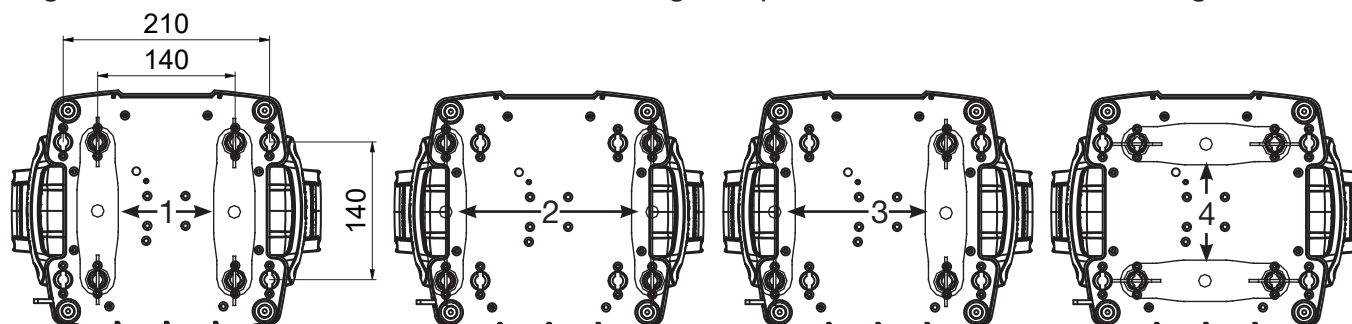
ATTENTION: Allow a fixture distance of at least 0.5 metres from easily flammable material and the distance between the light emission and the surface to be illuminated must be at least 2.0 meters.

The P5 Beamspot can be placed on the floor or hang on a trussing system. **Also a mounting horizontally to a truss system like in the picture is only allowed if the omega brackets are attached to the outer camlocks. (distance 210.00 mm)**

When placing the unit on the floor make sure that it stands on rigid ground, because the air inlets in the base must not be covered with anything!



To mount the unit on a trussing system use two of the original JB-Lighting omega brackets with original Camloc-connectors. You have following four possibilities to mount the omega brackets.



The Camlocs must snap in to be locked properly. Ensure that the structure (for example a truss system) to which you are attaching the fixture is secure. If you install the fixture to a hanging system (for example to a truss system) always attach a safety cable, that can hold at least 10 times the weight of the fixture. There is a corresponding eyelet on the fixture for the secondary safety device (see picture).



eyelet for the secondary safety device

6. Control panel

The P5 Beamspot has a graphic colour display that can be rotated 180° when installed in a suspended position. The display can be rotated in the PERSONALITY MENU or via shortcut ENTER + UP in the main screen.

All parameters of the P5 Beamspot can be set on the control panel (see menu overview page 16).

Function and operation of the display

The main menu provides information regarding the set DMX mode and, when the wireless mode is switched on, the field strength of the associated transmitter module. "ENTER" calls up a sub-menu or confirms an input. "ESC" is used to exit a function or a menu item. "UP" and "DOWN" are used to navigate within the menu and to enter values.



Special areas can only be called up using a specific key combination. To do this, press and hold the "ENTER" key and then use the opposite "ESC" key to access the menu. To exit the function, proceed in reverse order.

This applies in the SERVICE area for the FINE ADJUST function and in the STANDALONE area for the MODIFY, RUN and REMOTE functions.

The main menu can also be locked to prevent unintentional access. It is also locked by pressing the "ENTER" key (keep it pressed) and then additionally locking it with the opposite "ESC" key.

Display illumination as function display

The display illumination remains switched off during the reset. Slowly flashing display illumination when "JB-Lighting" is displayed means no DMX signal is present.

A very rapidly flashing display illumination when "JB-Lighting" is displayed means that a new error has been stored in the "ERROR LIST", also an error message in the display (e.g. *PAN TIMEOUT) indicates this current error. This error occurs during this reset or in the operation. This error is now automatically set to "read", but remains in the "ERROR LIST".

A rapidly flashing display illumination shows an error in the "ERROR LIST" is still in it but has already been confirmed or was automatically confirmed. Only when the error has been deleted from the ERROR LIST does the P5 Beamspot start again without error signalling.

If errors occur again and again contact the dealer / distributor or our service department.

If the P5 Beamspot receives a DMX signal, the display illumination goes out after 5 seconds.

Further settings for the display illumination see page 21 BACKLIGHT MODE.

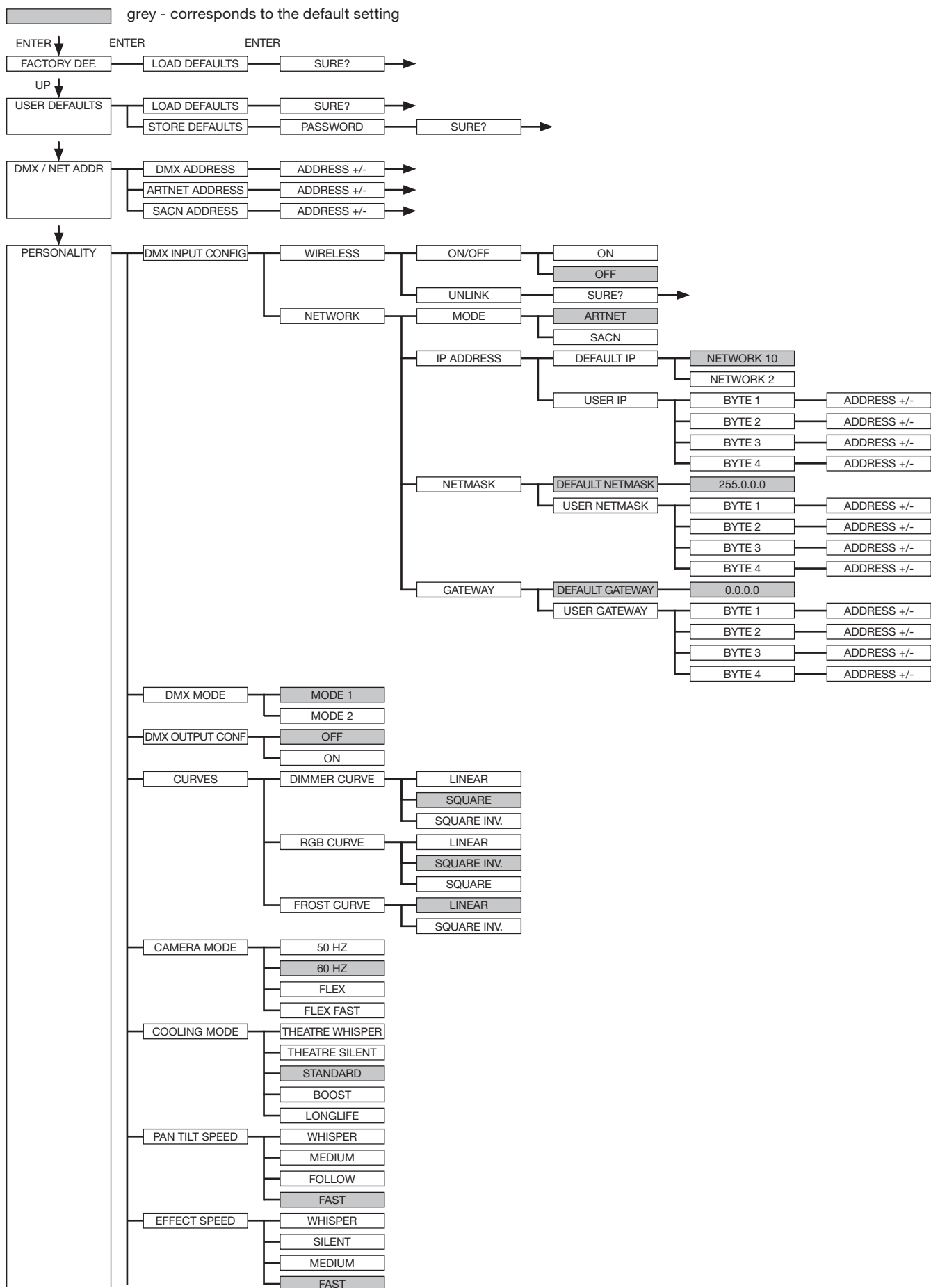
DMX addressing

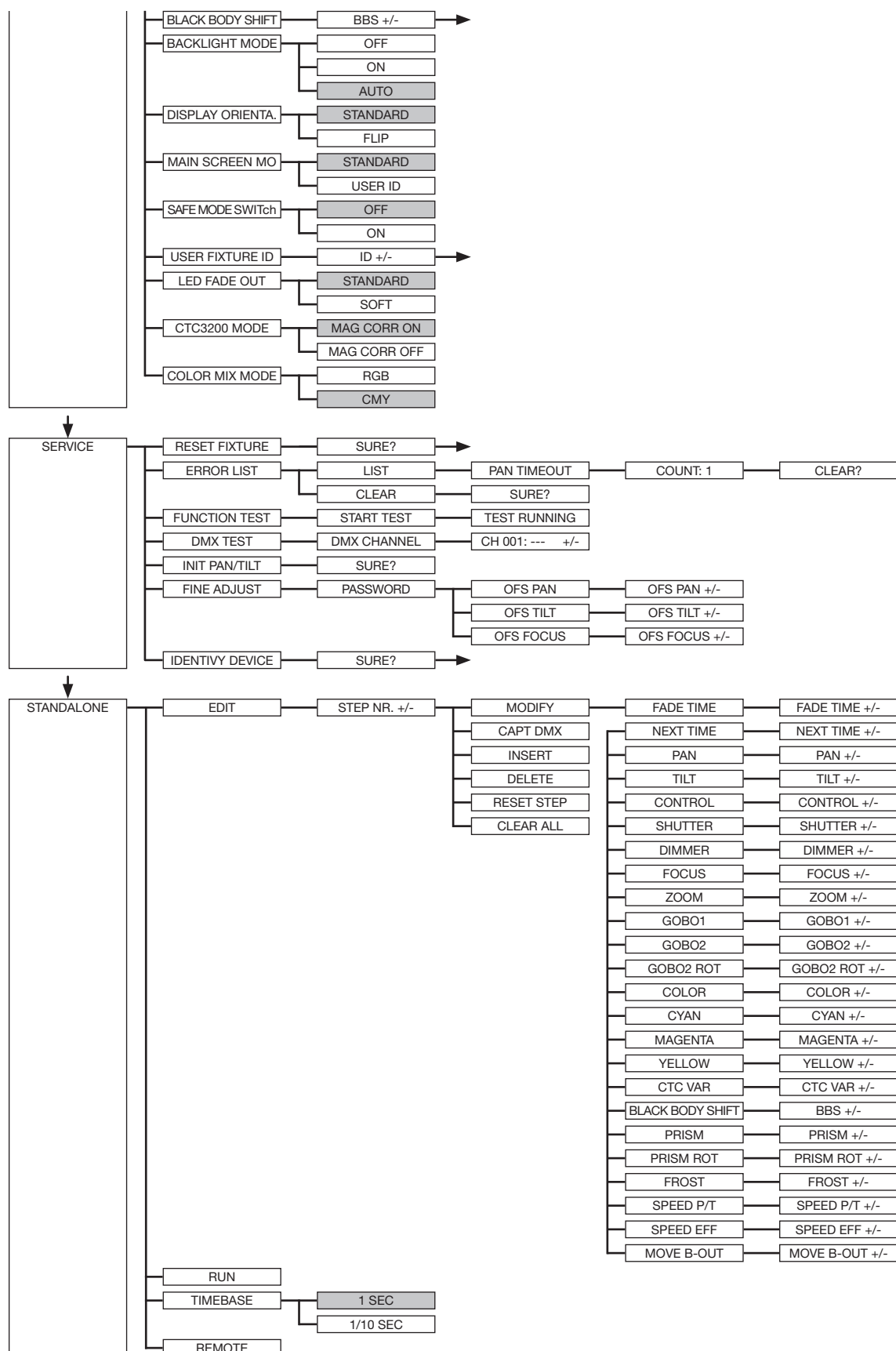
In the main menu, the DMX address can be set directly by pressing the up/down keys.

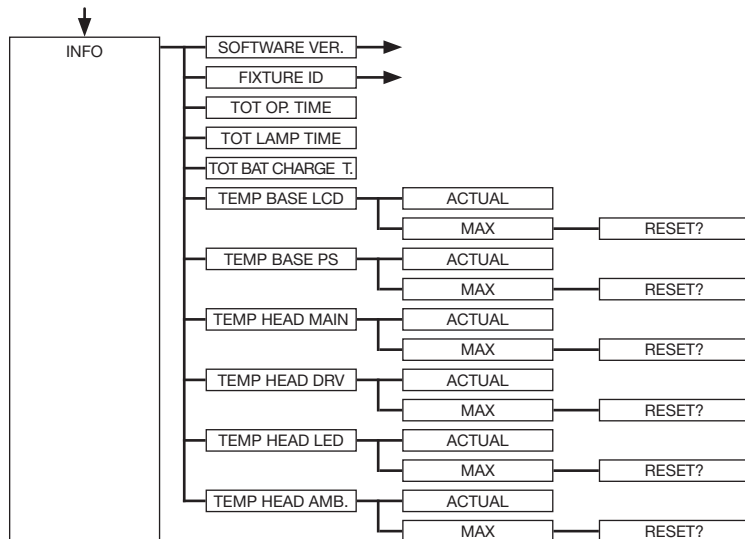
Display operation via battery backup

By pressing the left button below the display, the configuration battery operation of the headlamp is activated, so the headlamp can be configured without power. It is possible to configure all the settings displayed by the menu, for example the DMX address can be set.

6.1 Menu overview P5 Beamspot







6.2 FACTORY DEFAULTS - Factory settings

To reset P5 Beamspot to the factory settings, go to the menu item FACTORY DEFAULTS, LOAD DEFAULTS. After confirming the security prompt SURE? with pressing "ENTER" for 2 seconds, all parameters are reset to the factory settings.

6.3 USER DEFAULTS - User settings

If the user has set the P5 Beamspot in the PERSONALITY menu to their personal settings, these can be saved and loaded in the USER DEFAULTS menu. In order to prevent unintentional alteration of the data, you must enter the following password during the saving process: Buttons "ESC DOWN UP ENTER".

6.4 DMX / NET ADDRESS - DMX addressing / Artnet addressing / sACN addressing

The DMX addressing can be done either directly in the display. Press the "UP" or "DOWN" button to set the desired DMX address. The value is confirmed with the "ENTER" key. However, the DMX addressing can also be done within the menu item DMX / NET ADDR, and there under DMX ADDRESS.

To set the Artnet address, the menu item ARTNET ADDRESS must be selected in the DMX / NET ADDR menu. The Artnet address can now be set using the UP / DOWN buttons. The Artnet address is displayed in the form 000.00.00. This display corresponds to: Net.Subnet.Universum. The sACN address can then be selected in the DMX / NET ADDR -> sACN ADDRESS menu. The address can now be set using the UP / DOWN buttons. The sACN address is displayed in the form 00000.

6.5 PERSONALITY - Personal settings

DMX INPUT CONFIG

In this menu item the options WIRELESS and NETWORK are available.

Under WIRELESS -> ON / OFF the factory-installed radio DMX receiver module of Lumen-Radio can be activated or deactivated and via WIRELESS -> UNLINK the connection to the connected transmitter can be deleted. In order to connect the fixture to a transmitter, wireless must be set to ON on the fixture and the connection button must be pressed briefly on the transmitter. The transmitter is now looking for all fixtures where wireless is enabled and fixtures that are not connected to a transmitter. If the P5 Beamspot has successfully connected to the transmitter, the display shows a level indication of the current reception quality. If the P5 Beamspot is additionally connected via the DMX / etherCON connection sockets, these signals have priority over the radio link. Using the key shortcut ESC and DOWN, pressed in the main menu, the headlamp can be booked out of the booked transmitter (see page 24).

Under NETWORK -> MODE you can toggle between Artnet operation and sACN operation. For network operation, the IP address of the spotlight must be selected or set under NETWORK -> IP ADDRESS. Each headlight has a unique standard IP address.

Under IP ADDRESS -> DEFAULT IP this can be changed from the network 10.xxx.xxx.xxx to a network 2.xxx.xxx.xxx. For your own self-definable IP address, you can set your own desired IP address under IP ADDRESS -> USER-IP. This address is divided into BYTE1 to BYTE 4 and can be set one after the other.

Under NETWORK -> NETMASK, you can define the subnet mask for the P5. The default network mask is 255.0.0.0.

A gateway address can be set under NETWORK -> GATEWAY. The default gateway address is 0.0.0.0.

DMX MODE - setting the operation mode

The P5 Beamspot has 2 operating modes (see channel assignment for P5 Beamspot on page 26). All parameters of P5 Beamspot can be operated via mode 1. However, all channels (except pan/tilt) are controlled with 8 bits. By selecting Mode 2 - 16 Bit the gobo, prism rotation, CMY/CTO(CTB), dimmer, focus, zoom, the complete shutter slide unit as well as pan/tilt are controlled via 16 Bit.

DMX OUTPUT CONFIG - configuration of the DMX output

Under this menu item, the DMX output of the headlamp can be activated, that is a received Art-net, or wireless DMX signal can be output by activating this menu item -> ON via the DMX socket again. Make sure that there is no signal at the DMX input at the same time !!

CURVES - setting dimmer, RGB/CMY, frost curve

Dimmer curve:

The dimmer curve can be changed from SQUARE to LINEAR and to SQUARE INV.. The "exponential" dimmer curve (factory setting) causes the dimmer to fade in and out more smoothly.

RGB/CMY curve:

3 different curves can be set for the RGB/CMY curve: LINEAR, SQUARE INV. and SQUARE. LINEAR enables the color to be run in linearly. At SQUARE INV. retraction appears optically linear.

Frost curve:

The frost curves can be changed from linear to invers exponential (square inv.). The "invers exponential" frost curve causes the frost to fade in and out more smoothly.

CAMERA MODE - setting the repetition frequency of the LEDs

To avoid flickering during TV recordings, the P5 Beamspot can be adjusted from 50 HZ (PAL, Secam, repetition rate 100Hz) to 60 HZ (NTSC, repetition rate 100Hz) for different camera systems. Flex mode (repetition rate 600Hz is set when using different camera systems or when shooting with mobile phone cameras or similar non-professional cameras. A HighFlex mode is also available. In this mode, the repetition frequencies are set to 3 kHz, which is necessary to ensure smooth movements in dimmed lighting scenes. The factory setting of the P5 Beamspot is 60 Hertz. The changeover is also possible with the light mixing console via the control channel.

COOLING MODE - adjustment of brightness and fan volume

In the COOLING MODE menu item you can set the fan control and the brightness of the P5 Beamspot. The following settings are available.

THEATRE WHISPER: volume 29dB(a). In this mode, the spotlight runs at the same brightness up to an ambient temperature of 40°C. It is not necessary to speed up the fans in this mode.

THEATRE SILENT: from 40°C ambient temperature the spotlight regulates the fans a little up thus remains that the brightness is always the same level.

STANDARD: from an ambient temperature of approx. 36°C the fans run to cool the LED accordingly. The brightness remains constant up to 45°C ambient temperature.

BOOST: Brightness 9000 lm, the fans run a little stronger in this mode, from approx. 40° ambient temperature the fans run again accordingly.

LOGLIFE: the fans run a little stronger in this mode, from approx. 40° ambient temperature the fans run again accordingly. We would recommend this mode for permanent installations, as the LED module runs cooler and thus more “stress-free”.

There is no danger to the life of the device in any mode, as the P5 Beamspot has a temperature safety shutdown. In addition, the LED module is switched off from an ambient temperature of 60°C!

PAN TILT SPEED - setting pan/tilt speed

In the PAN TILT SPEED menu you can set the maximum speed, the acceleration and thus also the movement volume of the P5 Beamspot. The following setting options are available.

WHISPER: The speed of Pan / Tilt is reduced so much that a volume of 29dB (A) is not exceeded.

MEDIUM: The acceleration and deceleration ramps are set very soft so that the headlamp brakes softly and starts.

FOLLOW: The positioning and speed of pan/tilt are specially adapted to various follow systems.

FAST: The acceleration and deceleration ramps are set very hard so that the headlamp moves very fast and directly at maximum speed.

EFFECT SPEED - setting effect speed

In the menu item EFFECT SPEED you can set the maximum speed, the effects and thus also the volume of the effects of the P5 Beamspot. The following setting options are available.

WHISPER: The speed of the effects is reduced so much that a volume of 29dB (A) is not exceeded.

SILENT: The speed of the effects is slightly faster and thus a bit louder than with the Whisper setting.

MEDIUM: The acceleration and deceleration ramps of the effects are set very soft, so that the effects are very soft and thus cause little noise.

FAST: The acceleration and deceleration ramp effects are set to maximum speed. Very fast gobo and color changes are possible!

BLACK BODY SHIFT - Adjusting the green/magenta balance (+-Green)

With this option, the white point can be shifted towards green or magenta. With this option, the P5 Profile can be adapted to "old" headlights with a green/magenta shift.

BACKLIGHT MODE - setting the display backlight

This menu item controls the backlight of the display.

OFF: The backlight of the display is always off. The lighting only switches on when a button is pressed. Errors that are indicated by flashing are not displayed in this mode.

ON: The backlight of the display is always on.

AUTO: The backlight is switched on / off due to the action.

DISPLAY ORIENTATION - setting the display orientation

This menu item turns the display orientation. The display can also be rotated when the shortcut ENTER and UP is pressed in the main screen.

MAIN SCREEN MODE - view of the main screen

With this menu item the display of the main screen can be changed. Either the standard (STANDARD) screen is displayed with DMX address and DMX mode or the USER FIXTURE ID. This ID is used to number the headlights and to display this number in the display.

SAFE MODE SWITCH - setting of the safe mode switch

This setting locks the control channel. "ON" means functions are locked, "OFF" means functions are unlocked. To activate the control channel's functions set SAFE MODE SWITCH to "OFF", default value is "OFF".

To temporarily enable individual functions of the control channel, the dimmer and shutter must be set to DMX 000 for the COOLING MODE function.

To activate the remaining functions, simply send either DMX 010 (3.92%) or DMX 239 (93.73%) to the shutter channel.

USER FIXTURE ID - adjustment of the user fixture ID

Used to set the USER FIXTURE ID (0-65535). This can be displayed via MAIN SCREEN MODE and serves as an info display of the headlight number.

LED FADE OUT - type of dimming

Used to set how to dim the lower range from 0-5%.

STANDARD: When dimming the headlamp, all LED's dim out at the same time.

SOFT: When the headlamp is dimmed, the LED's are dimmed out in groups (in a row) one row after the other.

CTC3200 MODE - Setting the magenta correction for CTO

MAG CORR ON: some magenta is added to the CTO to get a better 3200K white.

MAG CORR OFF: only the pure CTO is brought in.

COLOR MIX MODE - selection of color mixing RGB or CMY

Select whether the color mixing of the fixture works via RGB or via CMY

6.6 STANDALONE operation

In standalone operation, up to 20 program steps can be stored in the P5 Beamspot, which can then run in an endless loop. The images can be saved in two ways. Either you program the desired DMX values directly on P5 Beamspot and save them, or you set the DMX values via a connected DMX console and then store them in the P5 Beamspot.

The menu items MODIFY, RUN and REMOTE can only be called up using a specific key combination. To do this, press and hold "ENTER", and also press "ESC". Before activating these menu items, remove all other devices in the DMX line that send DMX, e.g. consoles or other spotlights that are not configured as slave devices, as otherwise damage to the DMX drivers may occur.

Programming the standalone programme on the spotlight display:

Call up the STANDALONE, EDIT menu item. In the STEP NR+/- menu item, select the desired step and you can change it and its channel parameters in the following menu items: In the MODIFY menu item, set the desired lighting scene and position and determine the individual sequence times of the steps with FADE TIME and NEXT TIME (time for the complete step).

Use INSERT to insert an additional programming step. The DMX values of the previous step are copied to the new step.

Use DELETE to delete a step. The display shows STEP NR: 1/X. Use the selection keys to move to the desired step.

With RESET STEP you reset one step to its default values (DMX 000). The display shows STEP NR: 1/X. Use the selection keys to select your step. CLEAR ALL resets the complete standalone programming steps. Under MODIFY you will find STEP1/1 again. In the STANDALONE, TIMEBASE menu item you have the possibility to change the Fade Time and Next Time from 1 second to 1/10 second.

Accept the DMX values from an external console:

To accept the DMX values of a connected console, you must first enable the Capture DMX input. To do this, go to the CAPT DMX menu item. The display now shows CAPTURE DMX 01/01, press the Enter key to switch to START CAPTURE. Now the P5 Beamspot reacts to the signals from the external console.

Launch the standalone program:

Call up the STANDALONE menu and navigate to the RUN submenu. Confirm the selection by pressing the key combination "ENTER" (press and hold) and simultaneously "ESC". The display then shows: S-ALONE: 01/XX and the program runs in an endless loop.

Deactivation: Press and hold the "ESC" key and then also press "ENTER". The menu jumps back one level and RUN appears in the display.

Operation via master-slave function:

Connect the P5 Beamspot via DMX lines and activate the REMOTE menu item for all slave devices. To do this, navigate in the STANDALONE menu to the REMOTE sub-menu. Activate the REMOTE function by pressing and holding "ENTER", and also pressing "ESC". The spotlight is in slave mode when the display shows the status REMOTE INACTIVE or REMOTE ACTIVE.

REMOTE INACTIVE: The P5 Beamspot is in slave mode but does not receive a DMX signal.

REMOTE ACTIVE: The P5 Beamspot is in slave mode and receives a DMX signal.

The master device is programmed via the MODIFY menu item and started via RUN (press and hold "ENTER" and also press "ESC").

6.7 INFO-menu

The Info menu informs you about the respective software, the fixture id, about the total operating time and the different temperatures of the spotlight. The first two menu items in the Info area are the software version and the fixture ID, whereby the software version is an important source of information for our service requests, the fixture ID is less important source of internal information.

The following times are displayed in the menu:

TOT OPERATE TIME, the complete operating time of the fixture

TOT LAMP TIME, pure operating time of the LED module

TOT BAT CHARGE TIME, the complete charging time of the battery (battery backup)

The TOT OPERATE TIME and the TOT BAT CHARGE TIME can not be deleted! The following temperatures are also displayed:

TEMP BASE LCD, the temperature on the display board

TEMP BASE PS, the temperature of the power supply unit

TEMP HEAD MAIN, the temperature of the head board

TEMP HEAD DRV, the temperature of the LED driver board

TEMP HEAD LED, the temperature of the LED module

TEMP HEAD AMBIENT, the temperature in the head next to the air inlet (ambient temperature)

Both the current temperature and the maximum temperature are displayed. The maximum temperatures can be individually deleted.

6.8 Shortcuts - quick access

ESC + DOWN

Pressing the ESC and DOWN buttons in the main menu will log the fixture off the programmed Lumen Radio Wireless transmitter. The fixture is now ready to be logged in another transmitter.

ENTER + UP

If ENTER + UP is pressed in the main screen, the screen orientation is rotated by 180 °.

ENTER + ESC

By pressing the ENTER and ESC key, the fixture is locked for user input -> LOCKED. ESC and ENTER release the lock again!

7. Control options

7.1 DMX

7.1.1 Operating modes P5 Beamspot

The P5 Beamspot has 2 different DMX modes. The respective mode can be set in the PERSONALITY, DMX MODE menu item. The set mode is displayed in the main menu.

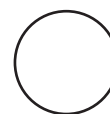
	Mode 1(M1)	Mode 2 (M2)
Channel 1	Pan	Pan
Channel 2	Pan fine	Pan fine
Channel 3	Tilt	Tilt
Channel 4	Tilt fine	Tilt fine
Channel 5	Control channel	Control channel
Channel 6	Shutter	Shutter
Channel 7	Dimmer	Dimmer
Channel 8	Focus	Fine dimmer
Channel 9	Zoom	Focus
Channel 10	Gobo 1	Fine focus
Channel 11	Gobo 2	Zoom
Channel 12	Gobo 2 rotation	Fine zoom
Channel 13	Colour wheel	Gobo 1
Channel 14	Cyan	Gobo 2
Channel 15	Magenta	Gobo 2 rotation
Channel 16	Yellow	Gobo 2 fine rotation
Channel 17	CTC	Colour wheel
Channel 18	Black body shift (tint)	Cyan
Channel 19	Prism 1	Fine cyan
Channel 20	Prism 1 rotation	Magenta
Channel 21	Frost 1	Fine magenta
Channel 22	Pan/tilt speed	Yellow
Channel 23	Effect speed	Fine yellow
Channel 24	Blackout Move	CTC
Channel 25	Reserved	Black body shift (tint)
Channel 26		Prism 1
Channel 27		Prism 1 rotation
Channel 28		Prism 1 fine rotation
Channel 29		Frost 1
Channel 30		Blackout Move
Channel 31		Reserved
Channel 32		Reserved

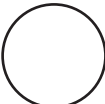
7.1.2 DMX channel functions P5 Beamspot

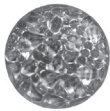
M1	M2	M3	Function	DMX
1	1		Pan (X) movement 541,44°	000-255
2	2		Pan (X) fine (16 Bit)	000-255
3	3		Tilt (Y) movement 281,00°	000-255
4	4		Tilt (Y) fine (16 Bit)	000-255
5	5		Control channel - Attention: The control channel functions are not locked by default. Note the PERSONALITY -> SAVE MODE SWITCH setting! To enable uniform dimming manually via faders for all light mixing consoles, 5 different settings for the DMX smoothing are available. If the DMX signal is interrupted or too few packets are sent on some DMX consoles, the response of the P5 can be adjusted with this channel. The Minimum DMX Smoothing setting should work on most popular consoles. The values for DMX smoothing must be sent permanent. For the other values, such as cooling mode, color temperature, zoom modes, camera mode, reset, the values must be applied for 2 seconds, then the device will be permanently switched (Same setting as in the PERSONALITY menu). Setting for minimal DMX smoothing (A dimmed shutter sequence is possible) Dimmer fade out via fader (fast - slow) not used Setting for minimum / medium DMX smoothing Dimmer fade out via fader (fast - slow) not used Setting for medium DMX smoothing Dimmer fade out via fader (fast - slow) not used Setting for medium / maximum DMX smoothing Dimmer fade out via fader (fast - slow) BACKLIGHT MODE - Display backlight configuration OFF - the backlight is always off until a key is pressed ON - the backlight is always on AUTO - the fixture controls the backlight automatically DISPLAY ORIENTATION - display flip or not STANDARD - the display can be read when the headlamp is on a surface FLIP - the display orientation is rotated by 180 °, hanging readable not used MAIN SCREEN MODE - view of the main screen STANDARD - the main screen displays the DMX address, the DMX mode, and when wireless is enabled, the field strength. USER FIXTURE ID - the main screen displays the user definable fixture ID / head-light number not used USER FIXTURE ID SET - Scheinwerfernummer setzen SET - the USER ID can be set. The headlamp takes the 16-bit value of Pan for the USER ID not used	000-007 008-031 032-039 040-063 064-071 072-095 096-103 104-104 105-105 106-106 107-107 108-108 109-109 110-110 111-111 112-112 113-113 114-127

		BLACK BODY SHIFT - set of green shift BLACK BODY SHIFT - The headlamp takes the 16-bit value of Pan for the BLACK BODY SHIFT. Values from -99 to +99 (DMX values 0 to 65535, 32768 is no shift) not used	116-116 117-127
		Setting for maximum DMX smoothing Dimmer fade out via fader (fast - slow)	128-135
		DIMMER CURVE - selection of dimmer curve LINEAR - linear dimmer curve SQUARE - exponential dimmer curve SQUARE INVERSE - exponential inverse dimmer curve not used	136-136 137-137 138-138 139-139
		RGB/CMY CURVE - selection of RGB/CMY curve LINEAR - linear RGB/CMY SQUARE INVERSE - Exponential inverse RGB/CMY curve SQUARE - Exponential RGB/CMY curve	140-140 141-141 142-142
		FROST CURVE - selection of frost curve LINEAR - linear frost curve SQUARE INVERSE - Exponential inverse frost curve not used	143-143 144-144 145-145
		PAN/TILT SPEED - selection of PAN/TILT speed WHISPER MEDIUM FOLLOW FAST	146-146 147-147 148-148 149-149
		EFFECT SPEED - selection of effect speed WHISPER SILENT MEDIUM FAST	150-150 151-151 152-152 153-153
		LED FADE OUT MODE - selection of dimming out STANDARD SOFT not used	154-154 155-155 156-157
		CTC3200K MODE - setting the magenta correction for CTO MAG CORR ON MAG CORR OFF	158-158 159-159
		COOLING MODE - Adjust the fan volume and brightness This takes place with dimmer / shutter set to closed (DMX 000) then after 2 seconds the fixture will switch this option, except the switch "SAFE MODE SWITCH" in the PERSONALITY menu is set to OFF, then the changeover can take place directly without dimmer and shutter having to be closed. THEATRE WHISPER THEATRE SILENT STANDARD BOOST LONGLIFE not used	160-160 161-161 162-162 163-163 164-164 165-184
		COLOR MIX MODE - selection of color mixing mode RGB or CMY RGB CMY not used	185-185 186-186 187-207

		CAMERA MODE - Setting the LED refresh rate 50Hz -> 100Hz 60Hz -> 120Hz FLEX -> 600Hz High FLEX -> 3kHz - 18kHz not used RESET - a basic reset of the fixture is carried out Reset nicht belegt	208-215 216-223 224-227 228-231 232-239 240-247 248-255
6	6	Shutter Shutter closed Shutter open Open pulsing shutter >20Hz (rapid - slow) Shutter open Fade effect with dimmer (slow - rapid) Shutter open Shutter closed Open pulsing shutter <20Hz (rapid - slow) Shutter open Close pulsing shutter >20Hz (rapid - slow) Shutter closed Shutter fade, 0% (rapid - slow) Shutter open Shutter fade, 100% (rapid - slow) Shutter closed Random shutter 100% (rapid - slow) Shutter open Random shutter 0% (rapid - slow) Shutter closed Random shutter fade, 0% (rapid- slow) Shutter open Random shutter fade, 100% (rapid- slow) Shutter open	000-015 016-095 096-110 111-111 112-125 126-126 127-126 128-142 143-143 144-158 159-159 160-174 175-175 176-190 191-191 192-206 207-207 208-222 223-223 224-238 239-239 240-254 255-255
7	7	Dimmer 0 - 100%	000-255
	8	Dimmer fine (16Bit)	000
8	9	Focus 0-100%	000-255
	10	Focus fine (16 Bit)	000-255
9	11	Zoom 0 -100% (near 3.4° - far 54°)	000-255
	12	Zoom fine (16 Bit)	000-255
10	13	Gobo wheel 1 Gobo 0 (Open) Gobo 1 (Bamboo2)	000-007 008-015



		Gobo 2 (Mystic Knot)		016-023
		Gobo 3 (Crescent)		024-031
		Gobo 4 (Breakup small)		032-039
		Gobo 5 (8 rings)		040-047
		Gobo 6 (Circle)		048-055
		Gobo 7 (Square)		056-063
		Gobo 8 (Dash horizontal)		064-071
		Gobo 9 (Dash Vertical)		072-079
		Gobo 10 (Dots)		080-087
		Gobo 11 (Reducer)		088-191
		Gobo wheel rotation (fast - slow) Gobo wheel rotation (fast - slow)		192-223 224-255
11	14	Gobo wheel 2 - rotating gobos		
		Gobo 0 (Open)		000-007
		Gobo 1 (Point Line)		008-015
		Gobo 2 (Sonar)		016-023
		Gobo 3 (Scorpion)		024-031

		Gobo 4 (Nightsky)		032-039
		Gobo 5 (Waves)		040-047
		Gobo 6 (Multicolor)		048-055
		Gobo 7 (Waterdrop)		056-127
		Gobo 0 shake (fast - slow)		128-135
		Gobo 1 shake (fast - slow)		136-143
		Gobo 2 shake (fast - slow)		144-151
		Gobo 3 shake (fast - slow)		152-159
		Gobo 4 shake (fast - slow)		160-167
		Gobo 5 shake (fast - slow)		168-175
		Gobo 6 shake (fast - slow)		176-183
		Gobo 7 shake (fast - slow)		184-191
		Gobo wheel rotation (fast - slow)		192-223
		Gobo wheel rotation (fast - slow)		224-255
12	15	Gobo positioning/rotation 2 Gobo positioning 0° - 540° Gobo rotation, right (rapid - slow) Stop gobo rotation Gobo rotation, left (slow - rapid)		000-191 192-222 223-224 225-255
	16	Gobo positioning/rotation 2 fine (16 Bit)		000-255
13	17	Color wheel Open (color shift gobo on) Open (color shift gobo off) Open / CTB CTB CTB / Red Red Red / Yellow Yellow Yellow / Magenta Magenta Magenta / Green Green Green / Orange Orange Orange / Dark Blue Dark Blue Dark Blue / Pink Pink Pink / UV UV UV / CTO CTO CTO / High CRI High CRI High CRI / Open		000-000 001-001 002-003 004-005 006-007 008-009 010-011 012-013 014-015 016-017 018-019 020-021 022-023 024-025 026-027 028-029 030-031 032-033 034-035 036-037 038-039 040-041 042-043 044-045 046-063

		Linear colors: Open - CTB - Red - Yellow - Magenta - Green - Orange - Dark Blue - Pink - UV - CTO - High CRI - Open Color cycle, right (rapid - slow) Color cycle, left (slow - rapid)	064-191 192-223 224-255
14	18	Cyan (RGB mode red), 8 Bit, 0-100%	000-255
	19	Cyan fine (RGB mode red fine), 16 Bit	000-255
15	20	Magenta (RGB mode green), 8 Bit, 0-100%	000-255
	21	Magenta fine (RGB mode green fine), 16 Bit	000-255
16	22	Yellow (RGB mode blue), 8 Bit, 0-100%	000-255
	23	Yellow fine (RGB mode blue fine), 16 Bit	000-255
17	24	CTC 2000 K - 13000 K / default: DMX068 = 6800K Off 2000 K 2100 K - 12900K in 100K steps DMX 20 = 2000K, DMX 21=2100K 13000K	000-000 001-020 021-129 130-255
18	25	Black body shift Off Minus green (-100% -> -1%) Neutral white Plus green (+1% -> +100%)	000-000 001-127 128-128 129-255
19	26	Prism Open Prism (3-facet circular) Prism step 1 Prism step 2 Prism step 3 Prism (3-facet circular)	000-007 008-015 016-023 024-031 032-039 040-255
20	27	Prism positioning/rotation/shake Prism positioning (0° - 540°) Prism shake 1 rapid Prism shake 2 Prism shake 3 Prism shake 4 medium Prism shake 5 Prism shake 6 Prism shake 7 slow Prism rotation, right (rapid -> slow) Stop prism rotation Prism rotation, left (slow -> rapid)	000-127 128-136 137-145 146-154 155-163 164-172 173-181 182-191 192-222 223-224 225-255
	28	Prism fine positioning/rotation/shake (16 Bit)	000-255
21	29	Frost (5° heavy frost) Frost 0-100%	000-255

22			Pan/tilt speed Real-time motion Delayed motion (rapid - slow)	000-003 004-255
23			Effects speed Real-time effects Delayed effects (rapid - slow)	000-003 004-255
24	30		Blackout Move Not assigned Blackout during pan/tilt (slow - fast) Blackout during Gobo, Color, Prism, CMY, Frost (slow - fast) Blackout during Gobo, Color, Prism, CMY, Frost, Zoom, Focus (slow - fast) Blackout during Gobo, Color, Prism, CMY, Frost, Pan/Tilt (slow - fast) Blackout during Gobo, Color, Prism, CMY, Frost, Zoom, Focus, Pan/Tilt (slow - fast)	000-095 096-127 128-159 160-191 192-223 224-255
25	31		Reserved not used	000-255
	32		Reserved not used	000-255

7.1.3 Control channel

Via the control channel different functions of the fixture can be switched. The following functions can be switched via the control channel.

Setting of DMX smoothing

BACKLIGHT MODE - display backlight

DISPLAY ORIENTATION - display orientation

MAIN SCREEN MODE - main screen view

USER FIXTURE ID SET - set headlight number

BLACK BODY SHIFT - set the green-magenta shift

DIMMER CURVE - dimmer curve adjustment

RGB/CMY CURVE - RGB/CMY curve adjustment

FROST CURVE - setting the frost curve

PAN / TILT SPEED - pan / tilt speed

EFFECT SPEED - effect speed

LED FADE OUT MODE - type of dimming

CTC3200 MODE - setting magenta correction at CTO

COLOR MIX MODE - Setting the control of the color mixture RGB or CMY

COOLING MODE - adjust the fan volume and brightness

CAMERA MODE - sets the LED refresh rate

RESET - a basic reset of the headlight is performed

For details, see DMX channel functions for the P5 Beamspot on page 26.

7.2 Artnet

The spotlight can be controlled via Artnet - ArtNET 4. To do this, set the Artnet address via the menu item DMX / NET ADDR -> ARTNET ADDRESS and also select it via the menu item PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> MODE -> ARTNET. In addition, define the IP address of the spotlight via PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> IP ADDRESS. Further details and setting options can be found on page 18

7.3 Streaming ACN

The headlight can be controlled via sACN - Streaming ACN. To do this, set the sACN address via the menu item DMX / NET ADDR -> SACN ADDRESS and also select it via the menu item PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> MODE -> SACN. In addition, define the IP address of the spotlight via PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> IP ADDRESS. Further details and setting options can be found on page 18

7.4 Wireless-DMX

The P5 Beamspot is equipped with a Lumen Radio CRMX receiver for wireless DMX. The receiver can process both DMX and RDM. If there is a cable and wireless connection to the P5 Beamspot, the cable connection has priority! The received signal can be output via the DMX connection. To do this, set the DMX OUTPUT CONFIG setting to ON in the PERSONALITY menu. After confirming with ENTER, the spotlight will output the entire universe received via wireless DMX.

7.5 RDM

The P5 Beamspot can communicate via RDM (Remote Device Management) in accordance with ESTA American National Standard E1.20-2006. RDM is a bidirectional communication protocol for use in DMX512 control systems. It is the open standard for the configuration and status monitoring of DMX-512 devices. The RDM protocol enables data packets to be inserted into a DMX-512 data stream without affecting existing non-RDM devices. It enables a console or dedicated RDM controller to send commands to specific devices and receive messages. The P5 can send and receive RDM via DMX and Artnet 4. The spotlight is also designed to send RDM via sACN and receive it via Artnet. The RDM functionality depends on the lighting control desk used, the operating instructions of the respective desk manufacturer must also be observed.

7.5.1 RDM-UID

Every P5 Beamspot has a factory-set RDM-UID (unique identification number), which makes it addressable and identifiable in RDM systems.

7.5.2 RDM-PIDs

The P5 Beamspot supports the RDM PIDs (parameter IDs) required by ESTA as well as manufacturer-specific PIDs.

7.5.3 Standard RDM parameter IDs

RDM parameter ID	GET	SET	DISCO- VERY	Note
RDM identification				
DISC_UNIQUE_BRANCH			✓	is used for fixture identification
DISC_MUTE			✓	is used for fixture identification
DISC_UN_MUTE			✓	is used for fixture identification
RDM status determination				
QUEUED_MESSAGE	✓			
STATUS_MESSAGES	✓			
STATUS_ID_DESCRIPTION	✓			
CLEAR_STATUS_ID		✓		
RDM information				
SUPPORTED_PARAMETERS	✓			
RDM configuration				
DEVICE_MODEL_DESCRIPTION	✓			
MANUFACTURER_LABEL	✓			
FACTORY_DEFAULTS		✓		
SOFTWARE_VERSION_LABEL	✓			
DMX_PERSONALITY		✓		
DMX_PERSONALITY_DESCRIPTION	✓			
DMX_START_ADDRESS		✓		
SENSOR_DEFINITION	✓			
DEVICE_HOURS	✓			
LAMP_HOURS	✓			
IDENTIFY_DEVICE		✓		
RESET_DEVICE		✓		
PERFORM_SELFTEST		✓		
SELFTEST_DESCRIPTION	✓			

7.5.4 Manufacturer specific RDM parameter IDs

RDM parameter ID	GET	SET	DISCO- VERY	Note
RDM configuration				
Battery Charge Hours	✓			
Error Number	✓			
Error	✓			
Select Next Error		✓		
Remove Error		✓		
Remove New Error Flag		✓		
User Defaults		✓		
User Fixture ID		✓		
Fixture Lock On/Off	✓	✓		
Dimmer Curve	✓	✓		
RGB Curve	✓	✓		
Frost Curve	✓	✓		
Camera Mode	✓	✓		
Cooling Mode	✓	✓		

Pan Tilt Speed	✓	✓		
Effect Speed	✓	✓		
Backlight Mode	✓	✓		
Disp Orientation	✓	✓		
Black Body Shift	✓	✓		
Main Screen Mode	✓	✓		
Safe Mode Switch	✓	✓		
LED Fade Out Mode	✓	✓		
CTC3200K Mode	✓	✓		
COLOR MIX MODE	✓	✓		

7.5.5 RDM sensor IDs

RDM sensor ID	GET	SET	DISCO- VERY	Note
RDM sensors				
Temp Sens Base LCD	✓			
Temp Sens Base PS	✓			
Temp Sens Head PCB	✓			
Temp Sens Head Drv	✓			
Temp Sens Head LED	✓			
Temp Sens Head Air	✓			

8. Service

8.1 Service menu

RESET FIXTURE

Upon the “Reset” command, P5 Beamspot will initialise to its initial values. It is the same procedure as after switching on the P5 Beamspot. If an error message appears in the display, this could be the first step to correct it.

ERROR LIST

The P5 Beamspot stores all occurring errors internally. An error message can have a harmless cause. If you experience frequent error messages, please contact your dealer or the JB-Lighting service department. All error messages are displayed with the respective frequency and can be deleted.

FUNCTION TEST

This function allows you to test all functions of the P5 Beamspot without using a light mixer. The pan/tilt reset is deactivated in the process.

DMX TEST

This menu item is used to test the DMX input. Use the function keys to select the DMX channel to be tested. The display shows the incoming value, at the same time the P5 Beamspot reacts accordingly.

INIT PAN TILT

The P5 Beamspot is calibrated in the pan/tilt position at the factory. If it loses this calibration, i.e. it strikes against the stop or no longer finds its position, it can be re-initialised using this function. This process takes about 3-4 minutes and ends with a reset of the spotlight.

FINE ADJUST

The FINE ADJUST area is protected by a key combination. Focus, pan and tilt are calibrated at the factory. If there are large deviations in the calibration between the individual headlights, this can be corrected in the FINE ADJUST menu. For more information please contact our service.

IDENTIFY DEVICE

The RDM command IDENTIFY DEVICE can be called up or deactivated via this menu item.

8.2 Changing gobos



ATTENTION: Allow the device to cool down and disconnect the device from the mains before opening the device. Touching live parts (high voltage) can give you an electric shock.

To open the device (from the right side) place the spotlight on a firm base as shown in the picture, the display (1) facing you, the tilt lock (2) is on the left side and the spotlight head facing away from you (3) (Or look through the grille into the spotlight from behind and find a round honeycomb showing the cover to be opened).

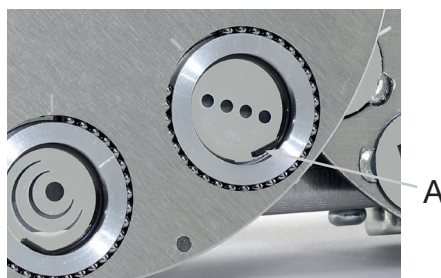
To lift off the cover, open the three camlocks by half a turn, Lift off the cover and release the safety cable using a Phillips screwdriver. Now open the two knurled screws (4) and remove the gobo insert. Check that the focus is moved direction to the front lense to remove the insert. The following figure (1) shows the gobo insert of the P5 Beamspot.

(1)



To change the rotating gobos remove only the clamping ring (A) with a pointed object replace the gobo and then put the clamping ring again. When installing glass gobos, make sure the white coated side faces the front lens.

(2)



When inserting original gobos, pay attention to the markings on the gobo, the gobo holder and the gobo wheel!

8.3 Gobo size

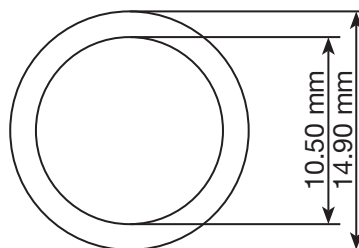
If you want to have your own gobos produced, please note the following dimensions:

Usable diameter, fixed gobowheel: 10.50 mm

Usable diameter, rotating gobowheel: 10.50mm

Outer diameter: 14.90 mm (+0/-0.1 mm)

Maximum thickness: 1.1 mm



8.4 Software update

The P5 Beamspot can be updated via a USB stick with micro-USB connection. To do this, copy the file directly into the root directory of the USB stick. Then press and hold the right key below the display, switch on the power of the P5 Beamspot as soon as the message “Insert USB stick” appears on the display release the key. Now plug in the USB stick on the back of the device below the signal connections and follow the instructions on the display. The P5 Beamspot completes the software update with a reset. You will find the latest software on our homepage.

8.5 Testing of electrical equipment

According to the German Social Accident Insurance (DGUV) Regulation 3 / Regulation 4, electrical systems and equipment must be subjected to regular inspections. The fixing screw of the DMX 5-pin socket can be used as measuring point for insulation and residual current measurement. The screw is connected to all sheet metal parts via a contact washer.



PE measuring point

8.6 Cleaning the device



ATTENTION: Allow the device to cool down and disconnect the device from the mains before opening the device. Touching live parts (high voltage) can give you an electric shock.

You should check the function of the fans in the head and foot at regular intervals. Above all, you should make sure that the air inlets and the inside of the P5 Beamspot are free of fluff and dust. Also make sure that the dust filters in the covers are clean.

Open the head cover (3x camlocks with a half turn) and the bottom plate on the foot. You can clean the P5 Beamspot with a brush and a vacuum cleaner. Also vacuum the dust protection mats in the lids. If the dust protection mats are no longer clean, they must be replaced. In addition, you can remove the gobo insert (1) by loosening the knurled screws (2) and sliding the focus carriage towards the lens. Then you can clean the color filters, glass gobos and CMY discs with a soft cloth and a little window cleaner. To clean the frost flap, prism and zoom/focus unit, remove the four screws (3) and then the cover (4). Ensure that you do not bend or damage any parts during cleaning. After cleaning, replace the cover, tighten the screws (3) and reinsert the gobo module into the device. Then reattach the base plate and the head cover.



8.7 Service and maintenance



ATTENTION: Allow the device to cool down and disconnect the device from the mains before opening the device. Touching live parts (high voltage) can give you an electric shock.

8.7.1 Inspection of lubricated moving parts

On the P5 Beamspot, the zoom / focus guide rails and the rotating gobos should be checked for sufficient lubrication at regular intervals - once a year. To do this, open the head cover (4x camlocks with half a turn), the zoom cover (3 Phillips screws) see (4) and remove the gobo insert (2 knurled screws).

Please note that the rotating gobos and the guide rails do not run dry; if necessary, the rotating gobos must be oiled with a special syringe and the guide rails with a brush with our special silicone oil.

After the gobos and the rails have been checked or oiled, reinsert the slot and close the zoom cover again. After completing the work, replace the head cover on the headlight and test all the functions of the headlight.

8.7.2 Checking the plastic parts

The plastic parts of the P5 Beamspot should be checked regularly for damage and the onset of cracks. If a plastic part is cracked, do not use this fixture until the damaged part is replaced. Cracks or other damage to the plastic parts can be caused by transport or manipulation by third parties, as well as the aging process can affect plastic materials.

This check is required for both permanent installations and when preparing rental equipment. All damaged plastic parts must be replaced immediately! Defective plastic parts can also lead to further damage in the headlight.

9. Overview of error codes for all fixtures

PAN TIMEOUT	Pan	
TILT TIMEOUT	Tilt	
GOBO1 TIMEOUT	Gobo wheel 1 position	
GOBO2 TIMEOUT	Gobo wheel 2 position	
GROT2 TIMEOUT	Gobo wheel 2 rotation	
COLOR TIMEOUT	Color wheel	
CYAN TIMEOUT	Cyan	
MAGENT TIMEOUT	Magenta	
YELLOW TIMEOUT	Yellow	
ZOOM TIMEOUT	Zoom	
FOCUS TIMEOUT	Focus	
PRISM TIMEOUT	Prism 1 (circular)	
PRISMROT TIMEOUT	Prism 1 rotation	
FAN B1 ER	Error Fan Base 1	
FAN H1 ER	Error Fan Head 1	
TSENS BPS ER	Sensor Error Base Power Supply AC/DC	
TSENS BLCD ER	Sensor Error Base LCD	
TSENS HMAIN ER	Sensor Error Head Main PCB	
TSENS HDRV ER	Sensor Error Head LED Driver PCB	
TSENS HLED ER	Sensor Error Head LED	
TSENS HAIR ER	Sensor Error Head Air (Ambient)	
HIGH TEMP BLCD	High Temperature Base LCD PCB	
HIGH TEMP BPS	High Temperature Base PSU AC/DC	
HIGH TEMP HMAIN	High Temperature Head Main PCB	
HIGH TMP HDRV	High Temperature Head LED Driver PCB	
HIGH TMP H LED	High Temperature Head LED Module	
HIGH TEMP HEAD AIR	High Temperature Head Air (Ambient)	
CPU1 NOT RESPONDING	CPU Display PCB	
CPU2 NOT RESPONDING	CPU Pan/Tilt PCB	
CPU3 NOT RESPONDING	CPU Main Head PCB	
CPU4 NOT RESPONDING	CPU Main Head PCB	

If the slide in module in the fixture is missing or not plugged in correctly, "BUS" will be shown on the display to inform you that the slide in module is missing.

10. JB-Lighting user network

Do you want to rent out your JB-Lighting products or rent additional ones?

Then join our User Network! Become part of our JB Community!

Other members can easily filter by location or postal code, distance, and the JB product they need – allowing them to rent your offered moving heads. Let's go!

Here you can find our user network:

https://www.jb-lighting.de/JBUserNetwork?utm_source=handbuch&utm_medium=print&utm_campaign=qr_code_handbuch



11. Specifications

Dimensions and weight

Length	241 mm
Width	314 mm
Height	507 mm
Net weight	10.9 kg

Electronic system

Mains connection	200-240 V AC, 50-60Hz
Maximum power consumption	350 VA
Power consumption in standby	55 VA

Temperature

Maximum ambient temperature	45 °C
Minimum ambient temperature	0 °C

Optics, Photometric Data

Light source	White light LED module 200W
Luminous intensity HP	9000 Lumen @ 20°C

Effects

Pan	541.44°
Tilt	281.00°
Zoom	2.4° - 50°

Construction

Colour	black
Housing	PC ABS
Protection class	IP 20
Plug-in technology	yes

Installation

Installation site	indoors
Holder	2x Omega brackets
Position	any
Minimum fixture distance to flammable objects	0.5 m
Minimum distance between the light emission and the surface to be illuminated	2,0 m

Connections

Power input	Neutrik powerCON TRUE1
Power feed-through	Neutrik powerCON TRUE1
DMX/RDM in/out USITT DMX512	5-pin, in/out XLR
Ethernet in/out	Neutrik etherCON
Micro-USB	Software update

12. EU Declaration of Conformity

The manufacturer

JB-Lighting Lichtenlagentechnik GmbH
Sallersteigweg 15
89134 Blaustein-Wipplingen



hereby declares under its sole responsibility that the following product

Product name **P5 Beamspot**

meets the essential requirements of the following EU directives:

2014/53/EU (RED)	Radio Equipment Directive
2011/65/EU (RoHS)	Restriction of the use of certain hazardous substances

The following harmonized standards were applied:

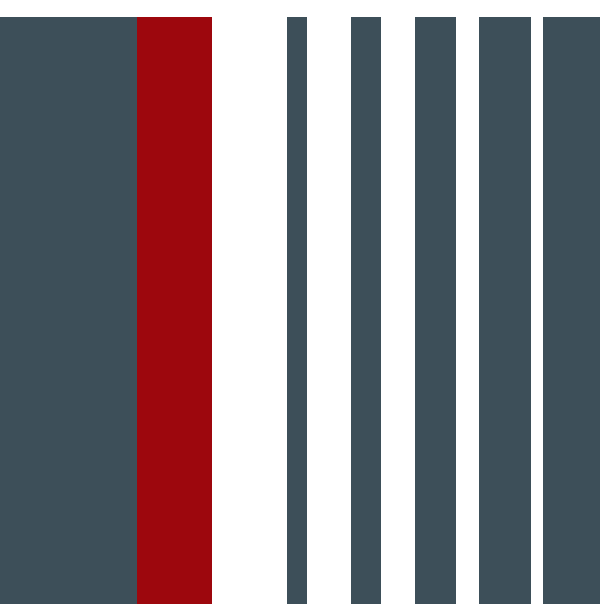
EN 300 328 V2.2.2	Data transmission equipment for operation in the 2.4 GHz band
DIN EN IEC 60598-1:2022	Luminaires Part 1: General requirements and tests
DIN EN IEC 60598-2-17:2018	Luminaires Part 2-17: Particular requirements – Luminaires for Stage lighting, television and film studios (outdoor and indoor)
DIN EN 55032:2022	Electromagnetic compatibility of multimedia devices and equipment - Requirements for emitted interference
DIN EN 55035:2018/A11:2022	Electromagnetic compatibility of multimedia devices - Requirements for immunity to interference
EN 61000-3-2:2023	(EMC) Part 3-2: Limits for harmonic currents (device input current ≤ 16 A per conductor)
EN 61000-3-3:2023	(EMC) Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with a rated current ≤ 16 A per phase
EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic equipment with regard to the restriction of hazardous substances

The product is classified in limit value class A (industrial) in accordance with EN 61000-6.

Authorized representative for technical documentation: Jule Braungardt

Blaustein, den 01.01.2026

Jürgen Braungardt
Managing director

A decorative graphic on the left side of the page consisting of a series of vertical bars of varying heights and colors. From left to right, there is a tall dark grey bar, a tall red bar, and then five shorter dark grey bars of equal height.

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