

B.SHOW mini TW+
B.SHOW mini FC



USER MANUAL

CONTENT

1. Safety Informations

| | |
|---|---|
| 1.1. General Preventive Measures | 4 |
| 1.2. Regulations for equipment that connects to power mains | 5 |
| 1.3. Technical warnsigns and explanation | 6 |
| 1.4. Battery Safety | 7 |

2. Introduction

| | |
|---------------------------------------|---|
| 2.1. About us | 8 |
| 2.2. B.SHOW mini TW+ / B.SHOW mini FC | 8 |

3. General Product Information

| | |
|------------------------|---|
| 3.1. Scope of delivery | 9 |
| 3.2. Control Functions | 9 |
| 3.3. Features | 9 |

4. Installation & Setup

| | |
|---|----|
| 4.1 Physical Installation and Rigging | 10 |
| 4.2 Connections | 11 |
| 4.2.1.1 AC Power | 12 |
| 4.2.1.2 Charging the battery, operating and storage | 12 |
| 4.2.2. DMX Connection | 13 |
| 4.2.2.1. Cable Connection | 13 |
| 4.2.2.2. Wireless Connection | 13 |

5. Operation

| | |
|-----------------------------|----|
| 5.1 Start up | 16 |
| 5.2 Control Display | 16 |
| 5.3 Display Short Cuts | 16 |
| 5.4 Configuration | 18 |
| 5.4.1 Battery Charge Status | 18 |
| 5.4.2 Selecting DMX Mode | 18 |
| 5.4.3 Stand Alone | 19 |
| 5.4.4 Slave Mode | 26 |
| 5.4.5 Settings | 26 |
| 5.4.6 System Info | 30 |

6. Accessories

| | |
|-----------------------|----|
| 6.1. Lenses | 31 |
| 6.2. More accessories | 32 |

7. Technical Data / Diagrams

| | |
|---|----|
| 7.1 Technical drawings and measurements | 33 |
| 7.2 IP Rating | 34 |
| 7.3 Technical Data - B.SHOW mini TW+ | 35 |
| 7.4 Technical Data - B.SHOW mini FC | 37 |
| 7.5 DMX-Charts / Color Macro Charts / CCT Chart | 40 |
| 7.6 RDM Templates | 70 |
| 7.7 Firmware Update | 73 |

8. Troubleshooting

77

9. Manufacturer's Declaration

74

1. SAFETY INFORMATION

1.1. General Preventive Measures

- 1.1.1. Please read, understand and follow the instructions.
- 1.1.2. Store the instructions and information in a safe place.
Best solution is the ring binder provided by ROXX®.
- 1.1.3. Follow all safety warnings. Under no circumstances remove safety warnings or other information from the equipment.
- 1.1.4. Don't use the equipment for any other intended purpose or manner.
- 1.1.5. Use only stable and compatible stands and/or brackets. Especially when fix installed.
Make sure the wall brackets are properly installed and safe. Make sure the device is securely installed and cannot fall.
- 1.1.6. Check the safety regulations applying for your country before and during installation.
- 1.1.7. Keep the device away from heat! Don't place/install near heaters, ovens or any source of heat.
Make sure that the device always is efficiently cooled and cannot overheat.
- 1.1.8. Always guarantee that ventilation and cooling slots are clean and not blocked.
- 1.1.9. Item must be away minimum 20cm from anything around and above it.
- 1.1.10. Do not use this device close to water.
- 1.1.11. Do not expose this equipment to flammable materials.
- 1.1.12. Make sure that no objects can fall into the device.
- 1.1.13. Only use this device with the accessories recommended by the manufacturer.
- 1.1.14. Always check the equipment for housing damages, so that no water can enter the device.
No containers containing liquids of any kind should be place on top of the unit.
- 1.1.15. Opening or modifying this device is only allowed by authorized and qualified persons.
- 1.1.16. All cables need to be checked after connecting the device in order to prevent damage or accidents.
- 1.1.17. Make sure that the device is transported safe and packed proper in order to prevent damage of any kind.
- 1.1.18. Once you notice improper function of your device due to damage, electric shock or anything similar,
immediately unplug the unit from the mains outlet and contact our service department.
- 1.1.19. Clean the device with a dry cloth.

- 1.1.20. Observe all disposal laws applicable in your country. Especially for the packaging.
- 1.1.21. Plastic bags are not a toy! Keep away from children!
- 1.1.22. Please note that changes or modifications which are not approved by the party responsible for compliance will void the user's authority to operate the device.

1.2 Regulations for equipment that connects to power mains

- 1.2.1. If an earthing contact is available in the used power cord, it must be used in combination with a power outlet, providing a protective ground. In no circumstances should the protective ground be deactivated.
- 1.2.2. Do not switch on the device immediately after it has been in strong different temperatures, especially after transport. Let the device acclimatize to the temperature in the room of usage first to prevent moisture and condensation.
- 1.2.3. Verify that the correct voltage and frequency are available in the area of operation, before connecting the unit to the mains outlet.
- 1.2.4. If the plug doesn't fit in your mains outlet, contact your electrician.
- 1.2.5. Make sure your power cord/adaptor/connector does not show signs of kinks/warps or is being stepped on.
- 1.2.6. Always disconnect the unit when not in use or being cleaned. Don't pull on the cord to disconnect. Only touch power connections with dry hands!
- 1.2.7. Don't switch the unit on/off rapidly. This may cause damage.
- 1.2.8. If a fuse needs to be replaced, ALWAYS make sure that exactly the same fuse will be used (type and rating). Repeatedly blown fuses need to be checked by an authorised service technician.
- 1.2.9. In the risk of lightning strike all units need to be unplugged from the mains in order to prevent damage.
- 1.2.10. During installation there must be a voltage free condition.
- 1.2.11. The device needs to be cleaned and serviced regularly and will credit this with a longer life cycle. Dust, dirt, moist, water, smoke, nicotine or anything similar inside the unit will cause damage/malfunction.
- 1.2.12. The unit needs to have at least 0,5m distance to anything flammable.
- 1.2.13. You have to make sure that any electrical installation applies to the laws of your country. Correct power cables and applying standards have to be used.

1.3. Technical warnsigns and explanation



In order to prevent the risk of an electric shock, under no circumstances remove the cover/back or open the unit in any way! No user serviceable parts are inside. Service, maintenance and repairs should only be done by qualified service personnel or the manufacturer.



Dangerous uninsulated voltage inside the device can cause an electrical shock when opened by unqualified personnel.



Important operating and maintenance instructions apply!



Do not operate this device in tropical climates.



CAUTION! Intense LED light source! Risk of eye damage. Do not look into the light source



The housing surface of the spotlight can heat up to temperatures as high as 70 °C in regular use. Ensure that it is not possible to come into contact with the housing unintentionally. Always allow sufficient time for the lamp to cool down before dismantling, carrying out maintenance work or charging etc..



The fixture has an integrated, non-removable battery, do not attempt to remove the battery. Do not open the headlamp. To replace the battery, take the device to an authorized service center.



Fully charge the battery again immediately after discharging. Batteries that are not fully charged lose capacity and service life.

For short to medium-term storage of the headlamp, fully charge the battery.

If the headlamp will not be used for a longer period of time, use the "Storage" function inside the device settings to charge the battery. This limits the maximum charging capacity to 40% and thus preserves the life of the battery.

Do not charge the battery of the B.SHOW mini TW+ / B.SHOW mini FC headlamp at ambient temperatures below 0°C / 32°F and above 40°C / 104°F.

If the headlamps are charged inside a flightcase, the case lid must remain open during the entire charging process in order to avoid heat accumulation.



- This is a product which has been developed for professional usage in event technology. It is not suitable as a household lighting.
- NEVER stare, not even temporarily, directly into the light source.
- Don't use magnifiers or any other optical instrument to look at the beam.
- The effects of this device, especially the stroboscope effect, can cause problems for sensitive people or may even cause epileptical seizures.

1.4. Battery Safety

- 1.** Keep the battery poles away from conductive objects, such as keys, jewelry, or other materials. Otherwise, the battery may be short-circuited, resulting in injury and burns.
- 2.** Never change the polarity of the battery's contacts.
- 3.** Keep the battery away from excessive heat and direct sunlight. Do not place it on or in heating devices, such as microwaves, ovens, or radiators. Batteries may explode if overheated.
- 4.** Do not attempt to modify or rework the battery, insert foreign objects into the battery, or immerse the battery in water or other liquids.
Do not attempt to modify or rework the battery, insert foreign objects into the battery, or immerse or come into contact with water or other liquids. Failure to do so may result in fire, explosion, or other hazardous dangerous situations.
- 5.** In case of battery acid leakage, make sure that it does not get on the skin or in the eyes. If it does, rinse immediately with clean water and consult a doctor.
- 6.** In case of deformation, color change or overheating of batteries during charging or storage, stop using the device immediately. Immediately stop using the device and remove the battery. If you continue to use the device, battery acid may leak or a fire or explosion may occur.
- 7.** Do not dispose of batteries in fire as they may explode. Damaged batteries may also explode.
- 8.** Dispose of used batteries in accordance with local regulations. Improper use of the battery may result in a fire, explosion, or other hazardous situation.
- 9.** Do not allow children or pets to chew, suck or suck on the battery. Doing so may cause damage or an explosion may occur.
- 10.** Do not smash or puncture the battery and do not subject it to high pressure. Otherwise, it may cause a short circuit or overheating.
- 11.** Do not drop the device or battery. If the device or battery is dropped, especially on a hard surface, it may be damaged.
- 12.** If the standby time of the device shortens significantly, replace the battery.
- 13.** If the device has a built-in, non-removable battery, do not attempt to remove the battery as the device may be damaged. otherwise the device may be damaged. To replace the battery, take the device to an authorized service center.

2. INTRODUCTION

2.1. About us

The name ROXX® came easily.

Combined with the concentrated knowledge and many years of experience, our three founders, who have been leaving their mark in the event and lighting industry for many years already, came together in 2020 to start this outstanding venture.

Product development, sales and marketing as well as the exceptional know-how and the profound rooting in the field of the professional lighting technology belong to our core competences and therefore guarantee extremely innovative and reliable products, excellent support and professional service in every aspect.

Designed & developed in Germany

ROXX® products are developed and designed in Germany. Always in tight consultation with our customers and experts who will eventually be working with these tools. This ensures innovative, easy-to-use and performance-oriented solutions, which provide added value for our customers.

Made to last

Recommended for permanent outdoor use, most ROXX® products feature additional corrosion protection and enhanced IP66 equipment protection, thereby providing that crucial extra for a wider range of applications. In addition to architectural or theme park applications, even fixed installations in coastal or offshore areas with high salt exposure can be reliably implemented over long periods of time.

2.2. B.SHOW mini TW+ / B.SHOW mini FC

With the SHOW mini series, ROXX® continues to meet the demand for very powerful, weatherproof lighting for the entertainment and architectural sectors and offers a battery version as an important innovation. The flexibility and variety of options previously offered by its bigger brother E.SHOW in terms of light quality, size and accessories is now even more pronounced thanks to the completely wireless application option, offering customers that certain extra freedom of choice. Thanks to the new B.SHOW mini, you can say goodbye to tangled cables for ultimate flexibility without compromise. The powerful lithium-ion battery ensures reliable operation and a runtime of up to 24 hours. The integrated battery management system protects against deep discharge and overcharging. The integrated CRMX transceiver module offers the latest wireless technology from Lumenradio, and the headlamp can also be conveniently controlled via Bluetooth using the ROXX.APP. The ROXX® B.SHOW mini series uses the already popular single-source LEDs that produce a very uniform, powerful light without colour or multi-shadows, and LED variants including a Tunable White (RGBALC) and a Full Colour (RGB+Lime) version. Both circular and elliptical emitting Micro Fresnel lenses can be changed easily, quickly and without tools, as usual, thanks to the specially developed and protected ROXX® R.LOK® technology. The beam angle can thus be conveniently adjusted, whether 14°, 23°, 35°, 52° or elliptical 30° x 15° and 46° x 17.5°.

3. GENERAL PRODUCT INFORMATION

3.1. Scope of delivery

- ⊕ 1x B.SHOW mini TW+ / B.SHOW mini FC
- ⊕ 1x Power cord with plug (EU country specific, if not ordered differently)
- ⊕ 1x Pendant luminaire closing caps

We're offering a wide range of professional accessories (optional). Please see under menu 6 or at our website www.roxxlight.com

3.2. Control Functions

- B.SHOW mini TW+:
3CH CCT, 3CH RGB, 6CH RGB, 9CH RGB, 11CH RGB, 14CH RGB, 6CH DIRECT, 12CH DIRECT, 13CH DIRECT, 20CH DIRECT, <3CH HSI, 10CH HSI
- B.SHOW mini FC :
3CH CCT, 3CH RGB, 6CH RGB, 9CH RGB, 11CH RGB, 14CH RGB, 4CH DIRECT, 8CH DIRECT, 11CH DIRECT, 16CH DIRECT, 3CH HSI, 10CH HSI
- Stand Alone Functions including cinema effects, various auto programs, customisable scenes, CCT, LEE adjusted color macros and custom color templates (RGLB)
- Master & Slave (by DMX and Wireless DMX)
- Wireless DMX (Lumenradio CRMX®)
- ROXX App - Bluetooth 5.0

3.3. Features



4. INSTALLATION & SETUP

4.1 Physical Installation and Rigging

ROXX B.SHOW mini TW+ / B.SHOW mini FC may be installed in any orientation. For this purpose the product provides several options:

Standing:

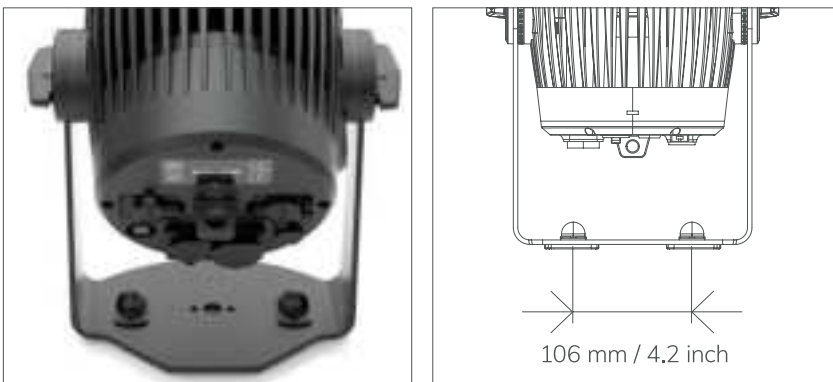
The fixtures yoke with its implemented rubber feet is designed to ensure a secure stand on nearly every plane surface with every possible angle/orientation of the lamp's head. Please take care that supporting surfaces are loadable and stable.

Hanging:

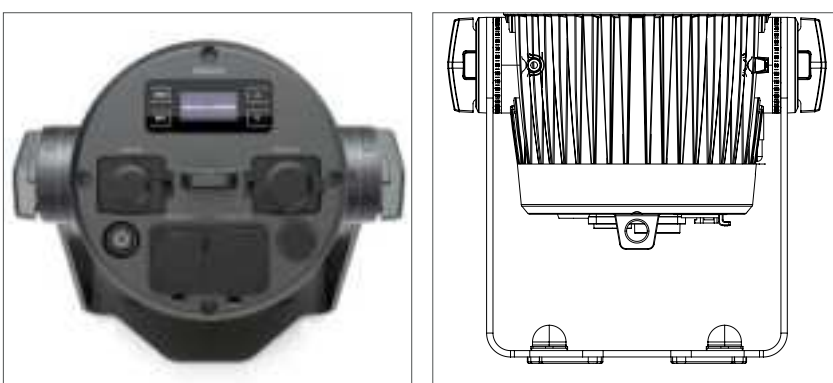
On the bottom the yoke provides 2 Camlock QuickRelease connectors. Here it's possible to click in the ROXX Omega Bracket ST (optional accessory) equipped with any suitable clamp.



Insert the two fasteners and turn each 90° clockwise to lock them. Please be sure that the fasteners are turned fully and snapped in.



A centric hole on the yoke's bottom ($d=13\text{mm}$ / 0,51 inch) provides a mounting point for more rigging options. Next to it, two additional holes allow the perfect connection of a TV spigot, to use the B.SHOW mini TW+ / B.SHOW mini FC on a tripod or for example with a superclamp.

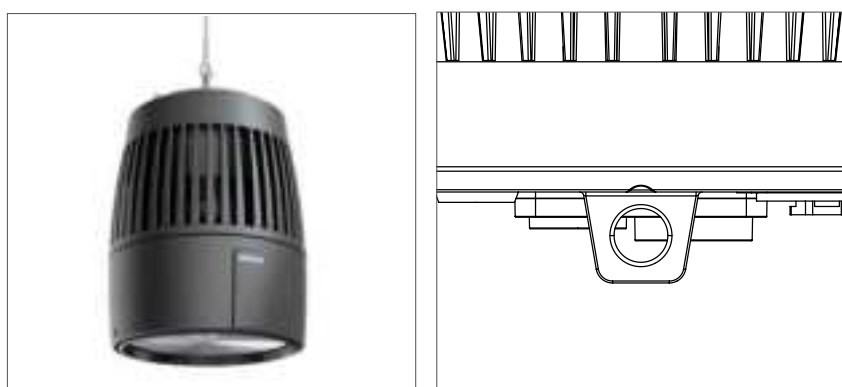


Pendant Light*:

The sophisticated and attractive design of the ROXX B.SHOW mini TW+ / B.SHOW mini FC makes the luminaire predestinated for the use as a pendant light, e.g. for exhibition booths, galas,... The position of the safety eyelet and the lamp body balancing makes that possible in a perfect way. Dismount the Yoke by turning out the both wing screws completely and detach them together with the Yoke and the scaled plastic parts. Seal the apertures with the 2pcs covering "Pendant Caps" (included). Use the safety eyelet for hanging down the ROXX B.SHOW mini TW+ / B.SHOW mini FC.

ⓘ Note:

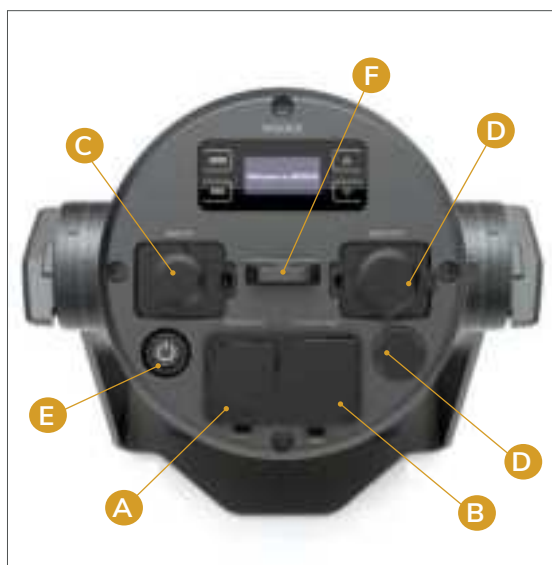
To hang down the fixture as a pendant light with only one wire and without the need of a secondary safety the setup has to be done as a „stationary installation“. Please mounting material, that is not dismountable without tools (e.g. halfcoupler with nut and chain link).



Also in this application, please take care of the current requirements and regulations for dimensioning and design of the used wires, clamps and all other possible mounting materials.

⚠ Always take care of an adequate distance between the fixture and surrounding surfaces and be sure to keep the fans outlets free for good ventilation.

4.2 Connections*



A: Mains In: IP65 Power input connector with rubber sealing cap. Connect using the provided power cable (when not in use, always close with rubber sealing cap).

B: Mains Out: IP65 Power output connector with rubber sealing cap. Provides power to additional fixtures. Ensure that the total power consumption of all daisy-chained devices connected do not exceed 8A (Ampere)! (when not in use, always close with rubber sealing cap).

C: DMX IN: Male IP65 5-pin XLR connector (when not in use, always close with rubber sealing cap).

D: DMX OUT: Female IP65 5-pin XLR connector when not in use, always close with rubber sealing cap).

E: Power On/Off

F: Safety Eyelet

G: Gore Tex

ⓘ *Note:

In order to provide protection from spraying water, in accordance with protection class IP65, special IP65-rated XLR connectors must be used correctly with the DMX input and output sockets, or they must be closed using the rubber sealing caps. When connected correctly, or when sealed correctly with the rubber sealing caps, the POWER IN and POWER OUT sockets are protected from spraying water, as in accordance with IP65.

4.2.1.1 AC Power

The ROXX B.SHOW mini TW+ / B.SHOW mini FC operates on any 100–260 V, 50/60 Hz AC mains power supply with a maximum power consumption of 220W.

Connect the fixture to AC power using the supplied cable or a similar one with Neutrik powerCON TRUE1 NAC3FX-W or a compatible type, to ensure the correct ingress protection (IP).

For temporary installations, the mains cable must be fitted with a grounded connector intended for exterior use. The fixture must be grounded/earthed and be able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection.

| Wire Color (EU models) | Wire Color (US models) | Conductor | Symbol |
|------------------------|------------------------|----------------|--------|
| Brown | Black | Live | L |
| Blue | White | Neutral | N |
| Yellow / Green | Green | Ground (earth) | ⊕ or ⊥ |



Warning!

Read “Safety Informations” starting on page 3 before connecting the fixtures to AC mains power!
Do not connect the fixture to an electrical dimmer system, as doing so may cause damage that is not covered by the product warranty!

4.2.1.2 Charging the battery, operating and storage

- As soon as the headlamp is connected to AC power the internal battery starts charging.
- The battery charge status is shown on the display both when the headlamp is on and when it is in standby mode.
- The charging time from 0% charge status to 100% charge status is approximately 5 hours.
- The battery runtime is approx. 7.5 hours for a two-color mix (both colors at 100%). The battery runtime can be extended up to 24 hours by using the runtime function with correspondingly reduced brightness.
- The headlamp automatically calculates the brightness based on the color setting and runtime used.
- After approximately 300 charging cycles (0% - 100%), the battery capacity is still approximately 70% of the nominal capacity.
- The electronic Battery Management System protects against overcharging and deep discharge.
- The battery may only be replaced with original accessories by an authorized service center.
- Do not charge the battery at ambient temperatures below 0°C and above 40°C.
- When operating the B.SHOW mini TW+ / B.SHOW mini FC floodlight with mains voltage, the ambient temperature must not fall below 0°C and must not exceed +40°C.
- When operating with internal rechargeable battery, the ambient temperature must not fall below -20°C and must not exceed +40°C.
- Immediately recharge the battery completely after discharging. Batteries that are not fully charged lose capacity and service life.
- For short to medium-term storage of the headlamp, fully charge the battery.
- If the headlamp will not be used for a longer period of time, use the "Storage" function inside the device settings to charge the battery. This limits the maximum charging capacity to 40% and thus preserves the life of the battery.
- If the headlamps are charged inside a flight-case, be aware the case lid must remain open during the entire charging process in order to avoid heat accumulation.
- When operating in a cold environment, battery life may be shorter than expected.
- Store the headlamp in a cool, dry place to allow optimal storage conditions for the battery.

4.2.2. DMX Connection

The B.SHOW mini TW+ / B.SHOW mini FC is fully controllable by DMX (USITT DMX512-A standard, based on RS-485) and RDM. It can be connected using either DMX cables or via the built-in LumenRadio CRMX wireless system.



4.2.2.1. Cable Connection

If using a cabled DMX system, connect the DMX IN cable to the input connector (male 5-pin XLR connector) and DMX OUT cable to the output (female 5-pin XLR connectors). For outdoor installations, use only IP65-rated XLR connectors.

Use shielded twisted pair cable designed for RS-485 devices. The cables are daisy chained between the fixtures, and up to 32 fixtures can be connected to the same DMX link. Up to 300 meters (1000ft.) of cable is achievable with high quality DMX cables. All DMX links must be terminated in the last fixture by connecting a DMX termination plug to the last fixture's 5 pin DMX out connector.

4.2.2.2. Wireless Connection*

B.SHOW mini TW+ / B.SHOW mini FC is equipped with a LumenRadio™ Transceiver module.

This enables the fixture to work with the following connectivity options:

- ⊕ Working in Receiver Mode: receive wireless DMX- and RDM Signals via CRMX
- ⊕ Working in Transmitter Mode: transmit DMX (1 universe) to other units via CRMX
- ⊕ Full Control via Bluetooth 5.0 and ROXX App

The Fixture is able to send DMX-data received by CRMX or Bluetooth to its physical DMX-Output XLR Connector and hereafter, plugged in by cable, to any DMX-capable unit. For this please enable "Pass to DMX Out" inside Wireless DMX Settings.

B.SHOW mini TW+ / B.SHOW mini FC can act as a fully operative CRMX Receiver and be paired to an active wireless transmitter (CRMX) simultaneously as being connected to a cabled DMX. The device will prioritize cabled DMX input over wireless DMX and over Bluetooth. A small indicator in front of "DMX", "CRMX" or "BLE" gives an easy overview which protocol is currently active. Please see the display graphics below.

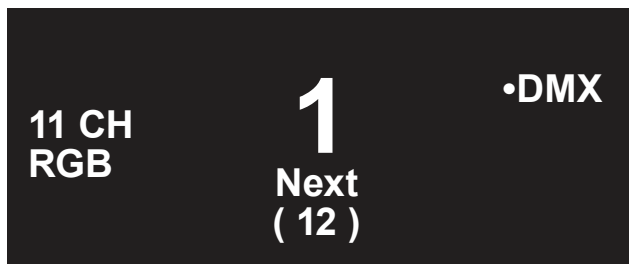
If using a wireless DMX system, ensure that the DMX input and the DMX output are properly sealed. Connect both DMX IN and DMX OUT, or seal, in order to maintain the fixture's IP65 rating.

***Note: If you are using XLR for DMX and not Bluetooth we recommend to not connect to Bluetooth unless you need to since it can cause a few dropped DMX packets.**

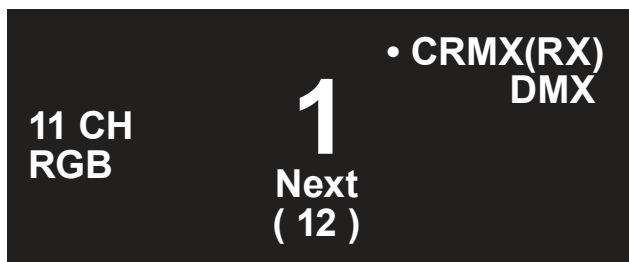
BLE and CRMX RX are not available simultaneously.

- If CRMX RX is enabled and BLE will be enabled after, CRMX automatically changes to TX mode.
- If CRMX TX operating mode is changed to RX, BLE will be disabled automatically.

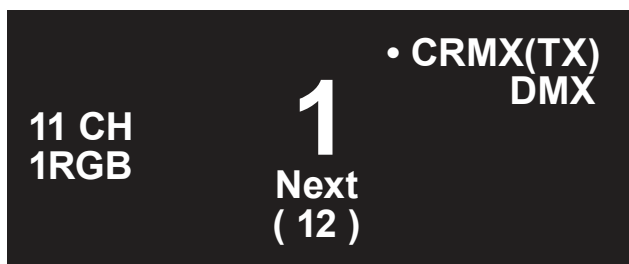
4.2.2.2. Wireless Connection



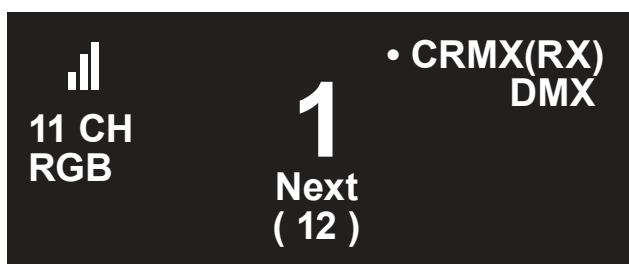
| | | |
|-----------------|----------------|---|
| CRMX | Disabled | The indicator in front of "DMX" shows that DMX is active. |
| Operation Mode | n.a. | |
| Linked | No | |
| Receive Reset | No | |
| DMX | Enabled | |
| BLE (Bluetooth) | Disabled | |



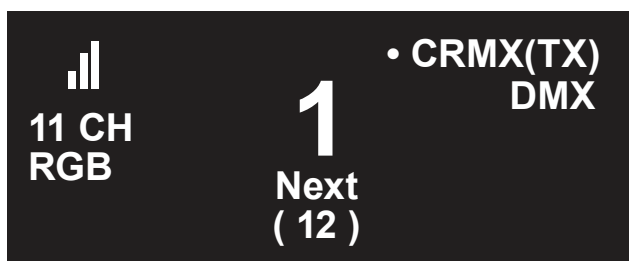
| | | |
|-----------------|----------------|--|
| CRMX | Enabled | The indicator in front of "CRMX (RX)" shows that the fixture is now working in wireless DMX receive mode. "(RX)"= CRMX operating mode is set to receive |
| Operation Mode | RX | |
| Linked | No | |
| Receive Reset | Yes | |
| DMX | Disconnect | |
| BLE (Bluetooth) | Disabled | |



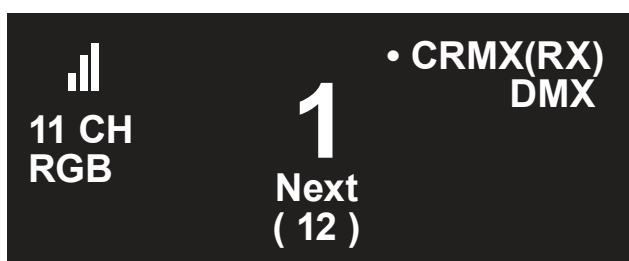
| | | |
|-----------------|----------------|--|
| CRMX | Enabled | The indicator in front of "CRMX (TX)" shows that the fixture is now working in wireless DMX transmit mode. "(TX)"= CRMX operating mode is set to transmit |
| Operation Mode | TX | |
| Linked | No | |
| Receive Reset | Yes | |
| DMX | Disconnect | |
| BLE (Bluetooth) | Disabled | |



| | | |
|-----------------|----------------|---|
| CRMX | Enabled | Once the fixture is linked to an external transmitter, the CRMX signal-symbol appears on upper left side. 1 dash= 1-30% signal strength 2 dashes= 31-70% signal strength 3 dashes= 71-100% signal strength |
| Operation Mode | RX | |
| Linked | Yes | |
| Receive Reset | Yes | |
| DMX | Disconnect | |
| BLE (Bluetooth) | Disabled | |

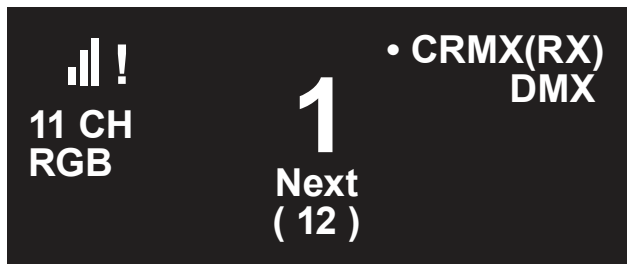


| | | |
|-----------------|----------------|---|
| CRMX | Enabled | Once the fixture is linked to an external transmitter, the CRMX signal-symbol appears on upper left side. 1 dash= 1-30% signal strength 2 dashes= 31-70% signal strength 3 dashes= 71-100% signal strength |
| Operation Mode | TX | |
| Linked | Yes | |
| Receive Reset | Yes | |
| DMX | Disconnect | |
| BLE (Bluetooth) | Disabled | |

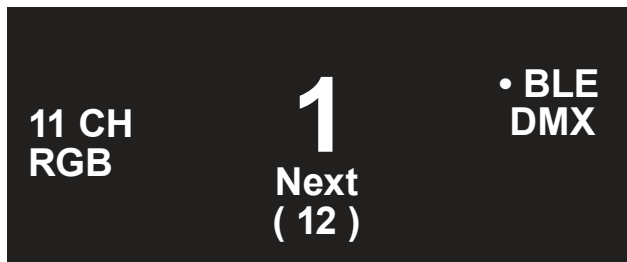


| | | |
|-----------------|--------------------------|--|
| CRMX | Enabled | In case the external transmitter is switched off or out of signal range the signal-symbol starts to blink. |
| Operation Mode | RX | |
| Linked | Yes, out of range | |
| Receive Reset | Yes | |
| DMX | Disconnect | |
| BLE (Bluetooth) | Disabled | |

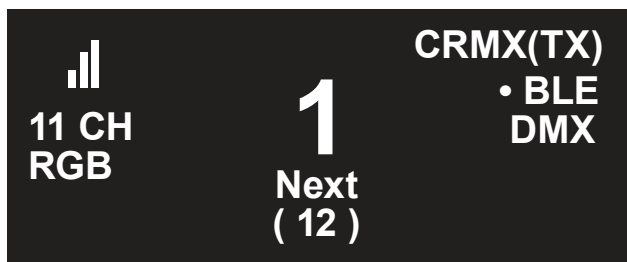
4.2.2.2. Wireless Connection



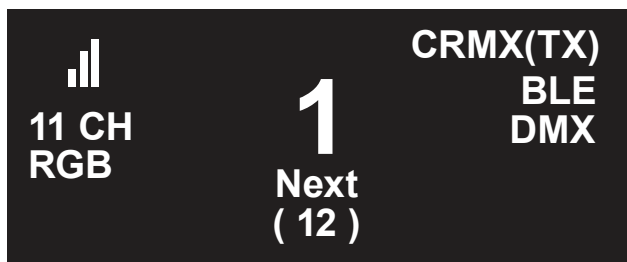
| | | |
|-----------------|-----------------|--|
| CRMX | Enabled | An exclamation appears and blinks although the external transmitter is switched on and is inside the signal range but no DMX is connected to the external transmitter. |
| Operation Mode | RX | |
| Linked | Yes, but no DMX | |
| Receive Reset | Yes | |
| DMX | Disconnect | |
| BLE (Bluetooth) | Disabled | |



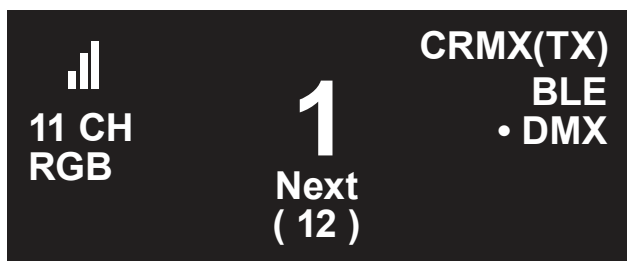
| | | |
|-----------------|------------------|--|
| CRMX | Disabled | The indicator in front of "BLE" shows that the fixture is now working in Bluetooth mode and is paired to ROXX App. |
| Operation Mode | n.a. | |
| Linked | No | |
| Receive Reset | No | |
| DMX | Disconnect | |
| BLE (Bluetooth) | Enabled + Paired | |



| | | |
|-----------------|------------------|--|
| CRMX | Enabled | The indicator in front of "BLE" shows that the fixture is now working in Bluetooth mode and is paired to ROXX App. |
| Operation Mode | TX | |
| Linked | Yes | |
| Receive Reset | No | |
| DMX | Disconnect | |
| BLE (Bluetooth) | Enabled + Paired | As CRMX TX is enabled and linked a full DMX universe is sent out by CRMX (wireless DMX). |



| | | |
|-----------------|---------------------|--|
| CRMX | Enabled | No indicator in front of "BLE", fixture is not paired to ROXX App. |
| Operation Mode | TX | |
| Linked | Yes | |
| Receive Reset | No | |
| DMX | Disconnect | |
| BLE (Bluetooth) | Enabled, not paired | |



| | | |
|-----------------|---------|---|
| CRMX | Enabled | DMX is active. As CRMX TX is enabled and linked a full DMX universe is sent out by CRMX (wireless DMX). |
| Operation Mode | TX | |
| Linked | Yes | |
| Receive Reset | No | |
| DMX | Connect | |
| BLE (Bluetooth) | Enabled | |

5. OPERATION

5.1 Start up*

Once the fixture is switched On, the boot process starts and the following information will appear on the display: "Ready to ROXX", the product name and the current software version.

After this process, the fixture is ready for operation, and starts in the previously enabled mode.



5.2 Control Display*

ENTER OLED Display with Touch-Sensitive controls

ESC Press **ENTER** to access the selection menu for system settings or confirm changes.

△ ▽ Press **ESC** to take a step back in the menu.

Press arrows to scroll up and down inside the menu and change values, such as DMX address.

Note:

For a smooth navigation thru the menu settings, please make sure the display surface is dry and dust free.

After approximately 1 minute of inactivity inside the menu settings, the display will automatically jump back to home screen.

5.3 Display Short Cuts*

Short Cuts

For some always recurring functions the fixture allows quick and user-friendly access at home screen over some display control short-cuts:



User Reset or Factory Reset*

Pressing ESC+ENTER simultaneously a Factory Reset or User Reset can be started.

By using the up/down arrows the Factory- or User Reset can be selected.

For confirming press ENTER, to jump back please press ESC.

Note:

After Factory Reset all fixture settings are set back to factory default values.

After User Reset all user selected reset functions and user default values will set back.

Also a short self-test will start immediately while dimming in and out each single color.

Display Off



Pressing ESC + arrow down simultaneously the display backlight function will set to off and the display will turn off immediately. Once a control is pressed the display backlight will turn on.

BLE enabled / disabled



Pressing ESC + Arrow Up simultaneously the Bluetooth will enabled or disabled. Confirm by pressing ENTER, step back by pressing ESC.

Manual display flip function*

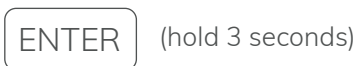


Use the manual display flip function by pressing arrow up + arrow down simultaneously. The display will rotate 180. By pressing both arrows simultaneously again the display will flip back.

*Note:

Once the display is flipped both Up / Down controls will work according to the display rotation.

Quick Light function



For easy and fast operation during setting the lights the fixture includes a user-friendly Quick Light function (Daylight 5600 Kelvin). If DMX, CRMX or Bluetooth is not assigned please press and hold ENTER for 3 seconds at homescreen, after the Quick Light function will appear.

Here dimmer can be adjusted from 0-100% by using up/down arrows, to take over the dimming value please press ENTER to confirm.

5.4 Configuration

Home Screen

After boot process the fixture is ready for operation and starts in the previously enabled mode. At home screen the following information will appear, depending on the current operating mode:

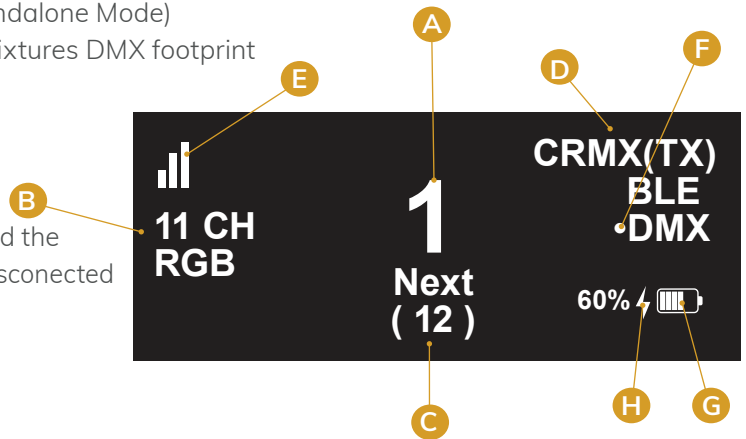
- A** DMX Address
- B** Operating Mode (DMX Mode, Quick Light or Standalone Mode)
- C** Next available DMX address depending on the fixtures DMX footprint
- D** External Data protocol (CRMX, DMX, BLE).
- E** CRMX status and strength
- F** The dot indicates the active protocol
- G** Battery Status
- H** The flash symbol indicates that AC power is and the battery is charging. It disappears if AC power is disconnected

Note:

CRMX (RX) CRMX Receiving Mode

CRMX (TX) CRMX Transmit Mode

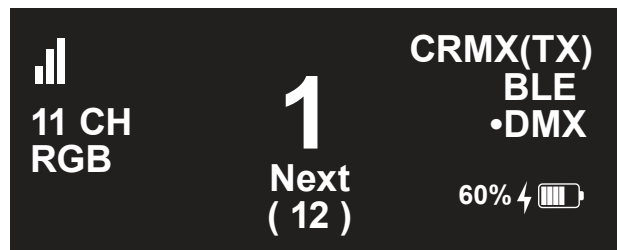
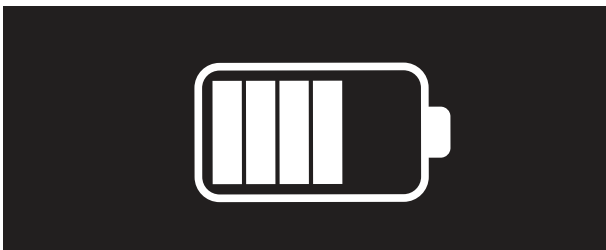
BLE Bluetooth enabled



5.4.1 Battery Charge Status

To recharge the internal battery, connect the fixture to the AC power.

The battery charge status is indicated by the battery symbol on the display in Standby Mode. Once the fixture is switched On, the battery status will be also displayed in percentage .



5.4.2 Selecting DMX Mode*

At home screen please press ENTER to access to the main menu (level 1).

While using UP / DOWN arrows, please select the menu item "DMX Mode" and confirm by pressing ENTER.

In the following sub-menu (level 2), you can now choose between 12 different DMX operating modes while using the UP/Down arrows and confirm by pressing ENTER or jump back by pressing ESC.

After confirmation the display will jump back to main menu (level 1). Press ESC for homescreen, here the selected DMX mode will be displayed.

***Note:**

For detailed information about the several DMX modes including channel assignment please see our DMX Control chart.

Level 1

| Menu |
|---|
| <ul style="list-style-type: none"> DMX Mode Stand Alone Slave Settings System Info |

Level 2 | B.SHOW mini TW+

| DMX Mode |
|---|
| <ul style="list-style-type: none"> 3CH CCT 3CH RGB 6CH RGB 9CH RGB 11CH RGB (default) 14CH RGB 6CH DIRECT 12CH DIRECT 13CH DIRECT 20CH DIRECT 3CH HSI 10CH HSI |

Level 2 | B.SHOW mini FC

| DMX Mode |
|---|
| <ul style="list-style-type: none"> 3CH CCT 3CH RGB 6CH RGB 9CH RGB 11CH RGB (default) 14CH RGB 4CH DIRECT 8CH DIRECT, 11CH DIRECT 16CH DIRECT 3CH HSI 10CH HSI |

5.4.3 Stand Alone*

Press ENTER to access to main menu (level 1).

While using the UP / DOWN arrows, please select the menu item "Stand Alone" and confirm by pressing ENTER.

In the following sub-menu (level 2), you can now choose between 6 different Stand Alone operating modes (Auto, Editor, Color Macro, Quick Color, Tunable White, User Color) ,Stop Stand Alone, Timer and Color Settings functions while using the UP/Down arrows and confirm by pressing ENTER or jump back by pressing ESC.

To finally use Stand Alone programs please make sure either DMX, CRMX RX or BLE is connected to the fixture, as these protocols have priority.

Stop Stand Alone

To stop a running Stand Alone mode immediately, please select "Stop Stand Alone" and confirm by pressing ENTER. The display will automatically jump back to level 1.

Level 1

| Menu |
|--|
| <ul style="list-style-type: none"> DMX Mode Stand Alone Slave Settings System Info |

Level 2

| Stand Alone Mode |
|---|
| <ul style="list-style-type: none"> Stop Stand Alone Auto Editor Color Macro Quick Color Tunable White User Color Timer Color Settings |

Auto*

Select "Auto" by using the up/down arrows and press ENTER. Here at sub-menu (level 3), you can choose between 10 different Auto Programs (7-Color Fade, 7-Color Jump, 15-Color Fade, 15-Color Jump, Police RB, Police B, Candle Light, Fireworks, Red Carpet and Welding) and Stop Program. Using the Up/Down arrows you can select one of the 10 auto programs and confirm by pressing ENTER or step back by ESC.

After confirming your preferred Auto Program, you can now adjust speed and brightness at level 4. To adjust speed, please use the UP / DOWN arrows to select the menu item "Speed", and confirm with ENTER. After use UP / DOWN

arrows to adjust the speed value between 000-100 and confirm by ENTER or jump back by ESC.

To adjust brightness please select "Dim" as per the procedure previously described and confirm with ENTER. After use UP / DOWN arrows again to adjust the brightness value between 000-100 and confirm by ENTER or jump back by ESC. Once it's confirmed or denied the display will automatically jump back to level 3.

To stop running a selected auto program please chose "Stop Program" at level 3 or "Stop Stand Alone" at level 2.

For returning back to homescreen please press ESC three times.

At homescreen the selected Stand Alone mode "Auto" and the selected program will be displayed.

***Note:**

Using arrows UP /DOWN at homescreen Auto programs can be directly changed according to the list.

Level 1

| Menu |
|---------------|
| DMX Mode |
| ➡ Stand Alone |
| Slave |
| Settings |
| System Info |

Level 2

| Stand Alone Mode |
|------------------|
| Stop Stand Alone |
| ➡ Auto |
| Editor |
| Color Macro |
| Quick Color |
| Tunable White |
| User Color |
| Timer |
| Color Settings |

Level 3

| Auto |
|--------------------|
| ➡ Stop Program |
| 7-Color Fade |
| 7-Color Jump |
| 15-Color Fade |
| 15-Color Jump..... |
| Police RB |
| Police B |
| Candle Light |
| Fireworks |
| Red Carpet |
| Welding |

Level 4

| Program |
|-----------------|
| ➡ Speed <0-100> |
| (Default 50) |
| Dim <0-100> |

Editor*

At Editor you have up to three customizable programs which can be defined and run from the menus.

Each of the three values contains twenty four user-definable scenes with its own values for RGBALC (B.SHOW mini TW+) or RGBAL (B.SHOW mini FC) or RGB (Calibrated) and shutter, playing continuously in a loop. Each scene has a definable fade-in time for the transition from one color to the other and wait-time. To define a program please press ENTER to access to main menu (level 1). While using the UP / DOWN arrows, please select the menu item "Stand Alone" and confirm by pressing ENTER.

Select "Editor" by using the up/down arrows and press ENTER.

Here at sub-menu (level 3) you can choose between Program 1-3, Dimmer and Stop Program.

Using the Up/Down arrows you can select program 1, 2 or 3 and confirm by pressing ENTER or step back by ESC.

After confirming your preferred program, you can now choose between Scene 1-24.

Select one of the scenes and press ENTER or step back by ESC.

At level 5 you can now set your color, shutter and fade / wait time in minutes and seconds. For creating a color jump please set value for "Fade Time" to 0, and "Wait Time" to at least 1 second.

Once it's set your first scene is programmed.

You can now jump back to level 3 by using ESC. Here your program will starts automatically.

For creating more scenes please use the same procedure.

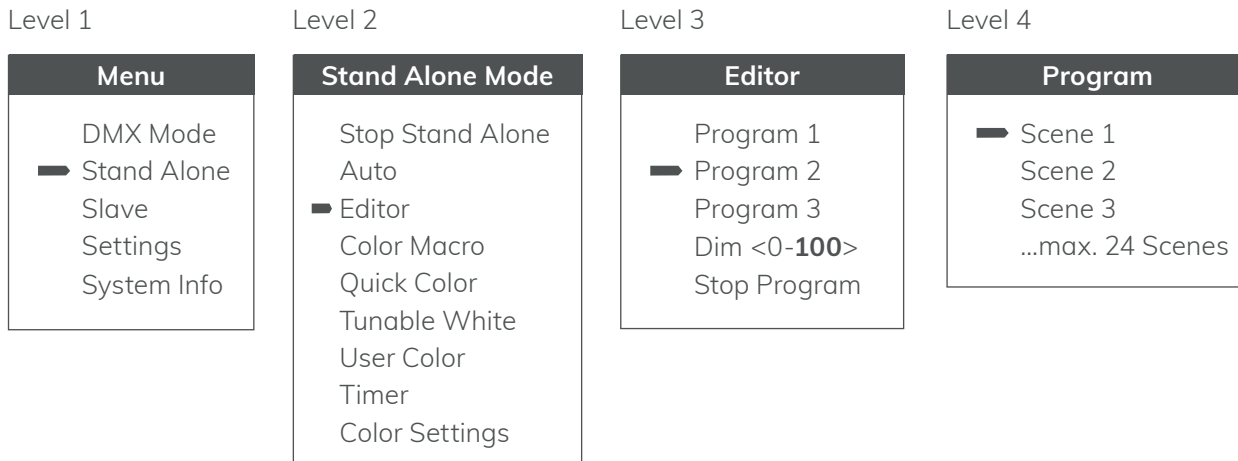
To stop an active program please press ESC and select "Stop Program" at level 3 or "Stop Stand Alone" at level 2.

To start again, please re-select your preferred program, it will starts automatically again.

To adjust the master brightness for program 1-3, you can use the item "Dimmer" at level 3 and select between 000-100 and confirm by ENTER or jump back by ESC.

***Note:** Once "Color Calibration" is selected under "Color Settings" inside Stand Alone, only values for RGB for the center LED are available here. Using UP / DOWN arrows at homescreen Editor program can be directly changed according to the list.

For choosing the right strobe effect please follow the Strobe Channel from our DMX chart at the end of this manual.



Level 5 - B.SHOW mini TW+

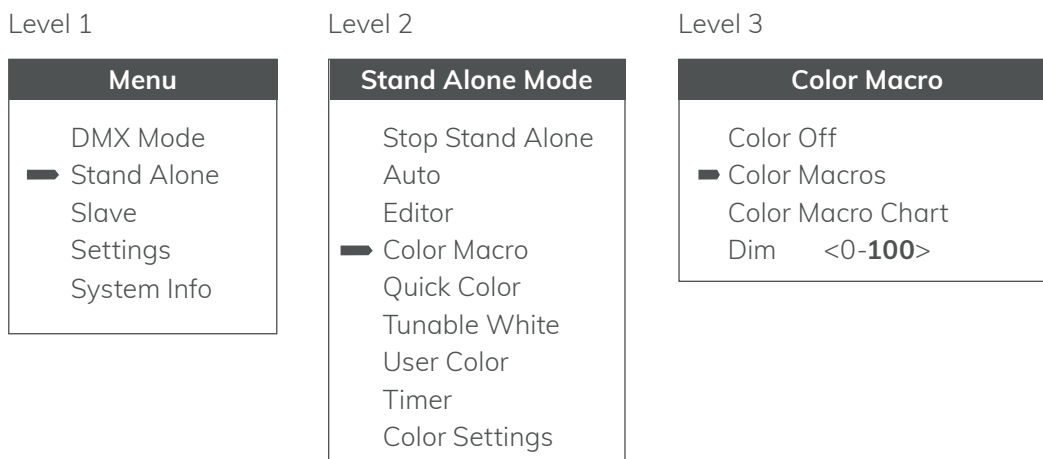
| Scene | |
|------------------|------------------|
| Red | <0-255> |
| Green | <0-255> |
| Blue | <0-255> |
| Amber | <0-255> |
| Lime | <0-255> |
| Cyan | <0-255> |
| Shutter | <0- 255 > |
| Fade Time (min.) | <0-480> |
| Fade Time (sec.) | <0-59> |
| Wait Time (min.) | <0-720> |
| Wait Time (min.) | <0-59> |

Level 5 - B.SHOW mini FC

| Scene | |
|------------------|------------------|
| Red | <0-255> |
| Green | <0-255> |
| Blue | <0-255> |
| Lime | <0-255> |
| Shutter | <0- 255 > |
| Fade Time (min.) | <0-480> |
| Fade Time (sec.) | <0-59> |
| Wait Time (min.) | <0-720> |
| Wait Time (min.) | <0-59> |

Color Macro*

44 different color macros (34x matched LEE color filters, 4 LED colors and 6 different Whites) are available as presets. For each the brightness can be adjusted separately.



To select a color macro please press ENTER to access to main menu (level 1).
While using the UP / DOWN arrows select the menu item "Stand Alone" and confirm by pressing ENTER. After please select the item "Color Macro" by using the up/down arrows and press ENTER again. Using UP and DOWN controls, select "Center" or "Halo" and confirm by pressing ENTER again.
At level 4 select your desired color preset and confirm with ENTER, adjust the brightness for the color preset between 000-100. Confirm by ENTER. For color blackout choose the item "Color Off".

Note: Using UP / DOWN arrows at homescreen Color Macros can be changed according to the list.

Level 4

| Gels - Color Macros for Standalone Mode | | | Gels - Color Macros for Standalone Mode | | | Gels - Color Macros for Standalone Mode | | |
|---|-------------------|----------------|---|----------------|---------------|---|---------------------------|----------------|
| Pos. | Gel Name | Color Number | Pos. | Gel Name | Color Number | Pos. | Gel Name | Color Number |
| 1 | Red | 100% Red LED | 17 | jade | LEE 323 | 33 | Special Med Lavender | LEE 343 |
| 2 | Fire | LEE 019 | 18 | Blue | 100% Blue LED | 34 | Ultimate Violet | LEE 707 |
| 3 | Medium Red | LEE 027 | 19 | Sky Blue | LEE 068 | 35 | Magical Magenta | LEE 795 |
| 4 | Primary Red | LEE 106 | 20 | Tokyo Blue | LEE 071 | 36 | Chrysalis Pink | LEE 798 |
| 5 | Med Amber | LEE 020 | 21 | Light Blue | LEE 118 | 37 | Specia KH Lavender | LEE 799 |
| 6 | Dark Amber | LEE 022 | 22 | Marine Blue | LEE 131 | 38 | Bulb White | 2700K |
| 7 | Deep Amber | LEE 104 | 23 | Med Blue | LEE 132 | 39 | Halogen White | 3200K |
| 8 | Orange | LEE 105 | 24 | Congo Blue | LEE 181 | 40 | Neutral White | 4200K |
| 9 | Deep Golden Amber | LEE 135 | 25 | Mikkel Blue | LEE 716 | 41 | Daylight White | 5600K |
| 10 | Yellow | LEE 101 | 26 | Rose Pink | LEE 002 | 42 | Cold White I | 6000K |
| 11 | Green | 100% Green LED | 27 | Med Pink | LEE 036 | 43 | Cold White II | 6300K |
| 12 | Lime Green | LEE 088 | 28 | Light Lavender | LEE 052 | 44 | Amber (only if available) | 100% Amber LED |
| 13 | Moss Green | LEE 089 | 29 | Lavender | LEE 058 | 45 | Lime (only if available) | 100% Lime LED |
| 14 | LEE Green | LEE 121 | 30 | Magenta | LEE 113 | 46 | Cyan (only if available) | 100% Cyan LED |
| 15 | Primary Green | LEE 139 | 31 | Mauve | LEE 126 | | | |
| 16 | Jas Green | LEE 738 | 32 | Smokey Pink | LEE 127 | | | |

Quick Color*

The standalone mode “Quick Color” allows a direct adjustment of the single LED colors Dimmer and Shutter.

| Level 1 | Level 2 | Level 3 B.SHOW mini TW+ | Level 3 B.SHOW mini FC |
|---|--|--|---|
| Menu | Stand Alone Mode | Quick Color | Quick Color |
| DMX Mode ■ Stand Alone Slave Set- tings | Stop Stand Alone Auto Editor Color Macro ■ Quick Color Tunable White User Color Timer Color Settings | Dimmer <0- 100 > Shutter <0- 255 > Red < 0 -255> Green < 0 -255> Blue < 0 -255> Amber < 0 -255> Lime < 0 -255> Cyan < 0 -255> | Dimmer <0- 100 > Shutter <0- 255 > Red < 0 -255> Green < 0 -255> Blue < 0 -255> Lime < 0 -255> |

To adjust your Quick Color please press ENTER to access to main menu (level 1).

While using the UP / DOWN arrows select the menu item “Stand Alone” and confirm

by pressing ENTER. After please select the item “Quick Color” by using the up/down arrows and press ENTER again.

Using UP and DOWN controls, select your desired color and confirm with ENTER.

After you can adjust the brightness for the color between 000-255 and confirm by ENTER.

Besides the individual color mix also a master dimmer for Center- and Halo LED can be adjusted between 000-100.

For strobe effects please adjust the Shutter value between 000-255.

ⓘ ***Note:** Please see detailed explanation for strobe effects inside DMX chart at the end of this manual.

If “Factory Calibration” is selected in “Color Settings” only R,G,B is available here.

Using UP/DOWN arrows at homescreen you can change Quick Color’s dimmer value.

Tunable White*

The standalone mode “Tuneable White” allows the color temperature (CCT) to be adjusted from 2.000K – 10.000K in 100K steps. Besides brightness and shutter also a +/- green and magenta correction is available.

| Level 1 | Level 2 | Level 3 |
|---|--|--|
| Menu | Stand Alone Mode | Tunable White |
| DMX Mode ■ Stand Alone Slave Settings System Info | Stop Stand Alone Auto Editor Color Macro Quick Color ■ Tunable White User Color Timer Color Settings | CCT < 5600 > TINT < 000 > (+/-127) Dimmer <0- 255 > Shutter <0- 255 > |

Starting from home screen press ENTER to access to main menu (level 1).

While using the UP / DOWN arrows select the menu item “Stand Alone” and confirm by pressing ENTER.

After please select the item “Tunable White” by using the up/down arrows and press ENTER again.

Using UP and DOWN controls to select your desired menu item, confirm by ENTER and adjust the desired value by up and down controls and confirm all entries with ENTER.

***Note:**

Tint values

000 = no function/neutral
001 - 127 = + green
-001 to - 127 = - green

***Note:** Using UP/DOWN arrows at homescreen the selected CCT value can be changed in +/- 100K steps.
Shutter: Please see detailed explanation for strobe effects inside DMX chart at the end of this manual.

Tunable White is only available for Center LED.

User Color*

The standalone mode "User Color" allows to store up to 5 customized color presets.

| Level 1 | Level 2 | Level 3 | Level 4 B.SHOW mini TW+ | Level 4 B.SHOW mini FC |
|--|---|--|---|--|
| Menu DMX Mode ➡ Stand Alone Slave Set- tings | Stand Alone Mode Stop Stand Alone Auto Editor Color Macro Quick Color Tunable White ■ User Color Timer Color Settings | User Color Color 1 Color 2 Color 3 Color 4 Color 5 | User Color Dimmer <0- 100 > Shutter <0- 255 > Red < 0 -255> Green < 0 -255> Blue < 0 -255> Amber < 0 -255> Lime < 0 -255> Cyan < 0 -255> | User Color Dimmer <0- 100 > Shutter <0- 255 > Red < 0 -255> Green < 0 -255> Blue < 0 -255> Lime < 0 -255> |

To define a User Color please press ENTER to access to main menu (level 1).

While using the UP / DOWN arrows, please select the menu item "Stand Alone" and confirm by pressing ENTER.

Select the item menu "User Color" by using the up/down controls and press ENTER.

Using UP and DOWN select your desired preset number (Color 1 -5) and confirm with ENTER.

Use UP and DOWN controls to select your desired color, confirm by ENTER and adjust the value by up and down controls between 000-255 and confirm all entries with ENTER.

With dimmer you can adjust the allover brightness of your User Color. Shutter allows several strobe effects. Once your color mix is ready, jump back by ESC. Your individual color is stored under the selected color preset now.

***Note:** All five User Colors are also available by DMX at Color Macro channel. Using one of the RGB DMX modes, only User Colors mixed out of RGB values are available. For Direct modes, both RGB and RGBALC (B.SHOW mini TW+) / RGBL (B.SHOW mini FC) User Colors are available.

For detailed information please see Color Macro Chart at the end of this manual.

Using UP/DOWN arrows at homescreen the Color Macros can be changed according to the list.

Shutter: Please see detailed explanation for strobe effects inside DMX chart at the end of this manual.

Timer*

Via the internal timer function, all Stand Alone modes except "Auto" and "Editor" can be conveniently faded in and out after the function is enabled in the previously activated standalone mode, without the need for an external controller. Also it remains active even the fixture is switched off and restarted. Simultaneously, the timer function is available via cable as well as via wireless DMX for master & slave operation.

The fade-in time can be set from 0 to 60 minutes, the dwell time from 1 to 24 hours and the fade-out time from 0 to 60 minutes.

Level 1

| Menu |
|---------------|
| DMX Mode |
| ■ Stand Alone |
| Slave |
| Settings |
| System Info |

Level 2

| Stand Alone Mode |
|------------------|
| Stop Stand Alone |
| Auto |
| Editor |
| Color Macro |
| Quick Color |
| Tunable White |
| User Color |
| ■ Timer |
| Color Settings |

Level 3

| Timer |
|---|
| Timer <On / Off > |
| Fade In < 0 -60 min> 1 minute steps |
| Dwell Time < 1 -24h> 1 hour steps |
| Fade Out < 0 -60 min> 1 minute steps |

To select "Timer" please press ENTER to access to main menu (level 1). While using the UP / DOWN arrows, please select the menu item "Stand Alone" and confirm by pressing ENTER.

Select the item menu "Timer" by using the up/down controls and press ENTER. Now you can activate / deactivate the Timer function, select "Fade In", "Dwell Time" or "Fade Out" for the individual settings and confirm with ENTER.

In each case a three-digit number field will be displayed. Use UP and DOWN to set the value as required from 000 to 060 minutes for "Fade In" and "Fade Out", or 001 to 024 hours for the "Dwell Time". Confirm by pressing ENTER again.

After all time settings have been configured, please activate the timer function by selecting the submenu item "Timer On/Off" using UP and DOWN, confirm with ENTER, select "On" and confirm with ENTER again.

To disable the timer function, please select "Off" and confirm by ENTER.

***Note:** Please don't forget to select one of the Stand Alone modes for "Startup Mode" at "Settings".

Color Settings*

Here at "Color Settings" you can chose your preferred working color mode for all Stand Alone color modes. Either "Color Calibration" or "RAW". Full Calibration RGBALC (B.SHOW mini TW+) / RGBL (B.SHOW mini FC) for a maximum of color consistency from unit to unit.

Please note If this function is activated only RGB is available at User Color and Quick Color. For a maximum of saturation please chose RAW mode.

Level 1

| Menu |
|---------------|
| DMX Mode |
| ➤ Stand Alone |
| Slave |
| Settings |
| System Info |

Level 2

| Stand Alone Mode |
|------------------|
| Stop Stand Alone |
| Auto |
| Editor |
| Color Macro |
| Quick Color |
| Tunable White |
| User Color |
| Timer |
| ➤ Color Settings |

Level 3

| Color Settings |
|---------------------|
| ➤ Color Calibration |
| RAW |

5.4.4 Slave Mode*


Slave Mode allows same model fixtures to be controlled by the “Master” fixture via DMX or wireless DMX (CRMX). The “Master” device should run in Stand Alone mode, all “Slave” devices should set to “Slave”.

Level 1

| Menu |
|-------------|
| DMX Mode |
| Stand Alone |
| ➤ Slave |
| Settings |
| System Info |

To select “Slave” please press ENTER to access to main menu (level 1).

While using the UP / DOWN arrows, please select the menu item “Slave” and confirm by pressing ENTER. Now this unit is set to “Slave”. Please connect the slave and the master devices (same model) either with a DMX cable or via wireless DMX and enable one of your preferred standalone mode on the master device. Once the Stand Alone mode is activated all slave devices will follow the master device. For using Master & Slave function via wireless DMX (CRMX), please activate CRMX transmit function at Master unit and CRMX receive function at all “Slave” units. For detailed CRMX information please read chapter “Wireless DMX”.

 **Note:** All devices should use same software version.

5.4.5 Settings

Level 1

| Menu |
|-------------|
| DMX Mode |
| Stand Alone |
| Slave |
| ➤ Settings |
| System Info |

| Main Menu | Menu level 2 | Menu level 3 | Menu level 4 | Description |
|-----------|---|-----------------|--|--|
| Settings | Wireless DMX | CRMX | <on/off> | On=CRMX enabled / Off= CRMX disabled |
| | | Operating Mode | <receive/transmit> | Receive= CRMX module as Receiver Transmit= CRMX module as Transmitter |
| | | Transmit Link | <no/yes> | Yes= pair with CRMX devices. CRMX must be activated on all devices and the pairing must be picked up by a transmitter (Receive Reset). No= Linking disabled |
| | | Receive Reset | <no/yes> | Yes = retain transmitter pairing No = do not retain transmitter pairing |
| | | Pass to DMX Out | <no/yes> | Yes= incoming wireless DMX and BLE signal will be passed to wired DMX out No= incoming wireless DMX and BLE signal will not be passed to wired DMX out |
| | | Signal Strength | 0-100 | CRMX signal strength |
| | | BLE | <on/off> | On= BLE enabled / Off= BLE disabled |
| | | BLE Link | <no/yes> | Link = starts bluetooth advertising for at least 1 minute |
| | | BLE Password | <000000> | Set 6-digits user Password for connection to your mobile device (ROXXAPP) |
| | Battery | Runtime | 4 Hours 6 Hours 8 Hours 10 Hours 12 Hours 14 Hours 16 Hours 18 Hours 20 Hours 22 Hours 24 Hours | "Off" for maximum of brightness. Set runtime in 2h increments, based on fully charged battery |
| | | | Continuous | Continuous : charging up to 100% capacity, for short and medium term fixture storage. |
| | | | Storage | Charging up to just 40% capacity. Recommended for long term fixture storage and thus preserves the life of the battery. Once battery is charged to 40% the display backlight will be switched off automatically. |
| | Display | Auto Flip | <on/off> | On= Auto-Display-Flip-Function enabled Off= Auto-Display-Flip-Function disabled |
| | | Backlight | <on/off> | On= controls permanent on, display itself will deactivate after 60 minutes of inactivity Off= controls and display deactivation after approximately 1 minute of inactivity |
| | | Auto Lock | <on/off> | On= Automatically locks the controls after approximately 1 minute of inactivity. After attempted input the display shows: „Locked!“ Unlock process: press arrows up, down, up, down consecutively |
| | Startup Mode (using last adjustments of specific Standalone Modes) | DMX | | Select your default operating mode when fixture is powered on |
| | | Auto | | |
| | | Editor | | |
| | | Color Macro | | |
| | | Quick Color | | |
| | | Tunable White | | |
| | | User Color | | |

| | | | | |
|----------|---|-------------------------|--|---|
| Settings | DMX Fail | Hold | | Hold= last command retains |
| | | Blackout | | Blackout= Activates Blackout |
| | | Emergency Light | | Emergency Light= Fixtures changes to 5600K |
| | AC Fail | Hold | | Hold= last command retains |
| | | Blackout | | Blackout= Activates Blackout |
| | | Emergency Light | | Emergency Light= Fixtures changes to 5600K |
| | Dimmer Curve | Linear | | Linear= Light intensity increases linear with DMX value |
| | | Exponential | | Exponential= Light intensity can be set more smooth at lower DMX values and broadly at higher DMX values. |
| | | Logarithmic | | Light intensity can be broadly adjusted at lower DMX values and more smooth at higher DMX values |
| | | S-Curve | | Light intensity can be adjusted smoothly at lower and higher DMX values and broadly at medium DMX values |
| Settings | Dimmer Response | LED | | The LED responds abruptly to it's DMX values |
| | | Halogen | | The LED responds similar to a halogen fixture with soft changes at brightness. |
| | Color Calibration | Full Calibration | Color & CCT Calibration | |
| | | CCT Calibration | CCT only (RAW Colors) | |
| | B.SHOW mini TW+ RAW Balance (affects RAW Mode in DMX and Stand Alone Modes "Editor", "Quick Color" and "User Color". | RAW | | RGBALC (B.SHOW mini TW+) / RGBL (B.SHOW mini FC) with maximum value of brightness) |
| | | Red | <0-255> | individual color calibration for R,G,B,A,L and C |
| | | Green | <0-255> | |
| | | Blue | <0-255> | |
| | | Amber | <0-255> | |
| | | Lime | <0-255> | |
| | | Cyan | <0-255> | |
| | B.SHOW mini FC RAW Balance (affects RAW Mode in DMX and Stand Alone Modes "Editor", "Quick Color" and "User Color". | RAW | | RGBL with maximum value of brightness) |
| | | Red | <0-255> | individual color calibration for R,G,B and L |
| | | Green | <0-255> | |
| | | Blue | <0-255> | |
| | | Lime | <0-255> | |
| | LED Frequency | 800 Hz | | Select preferred LED PWM frequency |
| | | 1200 Hz | | |
| | | 2000 Hz | | |
| | | 3600 Hz | | |
| | | 12000 Hz | | |
| | | 25000 Hz | | |
| | Factory / User Reset | Factory Reset | Are you sure to reset? Confirm by pressing ENTER, cancel with ESC | Restores all factory defaults including User Colors, but no User defaults. |
| | | User Reset | Are you sure to reset? Confirm by pressing ENTER, cancel with ESC | Restores all User Reset according to the User Preset List. Timer Function and DMX adress restore to Factory default. Once User Reset is activated a fixture self test will start. |

| Main Menu | Menu level 2 | Menu level 3 | Menu level 4 | Menu Level 5 | Description |
|-----------|----------------------|-----------------|------------------------------------|---|---------------------------------|
| Settings | Factory / User Reset | User Reset List | DMX Mode B.SHOW mini TW+ | 3CH CCT / 3CH RGB / 6CH RGB, 9CH RGB / 11CH RGB / 14CH RGB / 6CH DIRECT / 12CH DIRECT / 13CH DIRECT / 20CH DIRECT / 3CH HSI / 10CH HSI | Select your User Reset defaults |
| | | | DMX Mode B.SHOW mini FC | 3CH CCT / 3CH RGB / 6CH RGB / 9CH RGB / 11CH RGB / 14CH RGB / 4CH DIRECT / 8CH DIRECT, 11CH DIRECT / 16CH DIRECT / 3CH HS / 10CH HSI | |
| | | | CRMX | <on/off> | |
| | | | CRMX Operating Mode. | <receive/transmit> | |
| | | | CRMX Receive Reset. | <no/yes> | |
| | | | BLE | <on/off> | |
| | | | BLE Link | <no/yes> | |
| | | | BLE Password | <000000> | |
| | | | CRMX Pass to DMX Out. | <no/yes> | |
| | | | Runtime | <off/4-24h> (8hours default) | |
| | | | Charging | <Continuous / Storage> | |
| | | | Display Flip | <on/off> | |
| | | | Backlight | <on/off> | |
| | | | Auto Lock | <on/off> | |
| | | | Startup Mode | <DMX/Auto/Editor/Color Macro, Quick Color, Tunable White User Color> | |
| | | | DMX Fail | <Hold/Blackout/Emergency (5600K)> | |
| | | | AC Fail | <Hold/Blackout/Emergency (5600K)> | |
| | | | Dimmer Curve | <Linear, Exponential, Logarithmic, S-Curve> | |
| | | | Dimmer Response | <LED, Halogen> | |
| | | | Color Calibration | Full Calibration / CCT Calibration | |
| | | | RAW Balance | RAW / User Calibration | |
| | | | LED Frequency | <800Hz, 1200Hz , 2000Hz, 3600Hz, 12000Hz, 25000Hz> | |

Dimmer Curves

LINEAR



EXPONENTIAL



LOGARITHMIC



S-CURVE



5.4.6 System Info

Level 1

| Menu |
|---------------|
| DMX Mode |
| Stand Alone |
| Slave |
| Settings |
| ▀ System Info |

| Main Menu | Menu level 2 | Menu level 3 | Menu level 4 |
|-------------|------------------|---|---|
| System Info | Firmware Version | vx.xx | Display installed firmware version |
| | Serial Number | B.SHOW mini TW+: 0118xxxxxxxxx B.SHOW mini FC: 0119xxxxxxxxx | |
| | RDM UID | B.SHOW mini TW+: 0X6a6a0118xxxx B.SHOW mini FC: 0X6a6a0119xxxx | Display unique RDM ID for identification |
| | Temperatures | Celsius LED : XXX°C or Fahrenheit LED : XXX °F | Display fixture temperature by celsius and fahrenheit |
| | Power on Time | Total: xxxxxhours | Display fixture total power on time |
| | LED on Time | Total: xxxxxhours | Display LED total power on time |
| | Voltage | x Voltage | Display the Battery Voltage |
| | Errors | Errors information | Display error codes |

6. ACCESSORIES

6.1 Lenses

Available lenses for ROXX B.SHOW mini TW+ / B.SHOW mini FC with order numbers:



Very Narrow
Art.: 11409701



Narrow
Art.: 11408901



Medium
Art.: 11409001



Wide
Art.: 11409101



Elliptical Narrow
Art.: 11409201



Elliptical Wide
Art.: 11409301

Lens matrix B.SHOW mini TW+:

| Lens | Beam / Field Angle | Distance | | | | | | | |
|--------------------|------------------------------|------------------------|----------------------------|------------------------|---------------------------|------------------------|---------------------------|------------------------|----------------------------|
| | | 3m/9.8ft | | 5m/16.4ft | | 7m/23ft | | 10m/32.8ft | |
| | | Illuminance cm/feet | Diameter cm/feet | Illuminance cm/feet | Diameter cm/feet | Illuminance cm/feet | Diameter cm/feet | Illuminance cm/feet | Diameter cm/feet |
| VN lens | 14° / 25° | 2960 | 73 / 2,4 | 1020 | 122 / 4,0 | 518 | 171 / 5,6 | 252 | 247 / 8,1 |
| N lens | 23° / 43° | 1798 | 122 / 4,0 | 652 | 204 / 6,7 | 339 | 283 / 9,3 | 168 | 405 / 13,3 |
| M lens | 35° / 69° | 603 | 189 / 6,2 | 217 | 314 / 10,3 | 114 | 442 / 14,5 | 57 | 631 / 20,7 |
| W lens | 52° / 86° | 320 | 293 / 9,6 | 116 | 488 / 16,0 | 62 | 683 / 22,4 | 30 | 975 / 32,0 |
| EN lens (v x h) | 30° / 58° x 15° / 34° | 1056 | 160 x 80 / 5,25t x 2,62 | 320 | 268 x 131 / 8,8 x 4,3 | 163 | 375 x 183 / 12,3 x 6,0 | 80 | 536 x 262 / 17,6 x 8,6 |
| EW lens (v x h) | 46° / 73,5° x 17,5° / 40° | 736 | 255 x 92 / 8,37 x 3,02 | 230 | 424 x 152 / 13,9 x 5,0 | 115 | 594 x 216 / 19,5 x 7,1 | 58 | 850 x 308 / 27,9 x 10,1 |

Lens matrix B.SHOW mini FC:

| Lens | Beam / Field Angle | Distance | | | | | | | |
|--------------------|------------------------------|------------------------|----------------------------|------------------------|---------------------------|------------------------|---------------------------|------------------------|----------------------------|
| | | 3m/9.8ft | | 5m/16.4ft | | 7m/23ft | | 10m/32.8ft | |
| | | Illuminance cm/feet | Diameter cm/feet | Illuminance cm/feet | Diameter cm/feet | Illuminance cm/feet | Diameter cm/feet | Illuminance cm/feet | Diameter cm/feet |
| VN lens | 14° / 25° | 2710 | 73 / 2,4 | 916 | 122 / 4,0 | 465 | 171 / 5,6 | 223 | 247 / 8,1 |
| N lens | 23° / 43° | 1550 | 122 / 4,0 | 556 | 204 / 6,7 | 290 | 283 / 9,3 | 141 | 405 / 13,3 |
| M lens | 35° / 69° | 550 | 189 / 6,2 | 196 | 314 / 10,3 | 101 | 442 / 14,5 | 50 | 631 / 20,7 |
| W lens | 52° / 86° | 305 | 293 / 9,6 | 109 | 488 / 16,0 | 56 | 683 / 22,4 | 28 | 975 / 32,0 |
| EN lens (v x h) | 30° / 58° x 15° / 34° | 930 | 160 x 80 / 5,25t x 2,62 | 320 | 268 x 131 / 8,8 x 4,3 | 163 | 375 x 183 / 12,3 x 6,0 | 80 | 536 x 262 / 17,6 x 8,6 |
| EW lens (v x h) | 46° / 73,5° x 17,5° / 40° | 640 | 255 x 92 / 8,37 x 3,02 | 230 | 424 x 152 / 13,9 x 5,0 | 115 | 594 x 216 / 19,5 x 7,1 | 58 | 850 x 308 / 27,9 x 10,1 |

6.2 More accessories



Accessory Holder
Art.: 11909401



8-Way Barndoor
Art.: 11909501



Honey Comb
Art.: 11909501



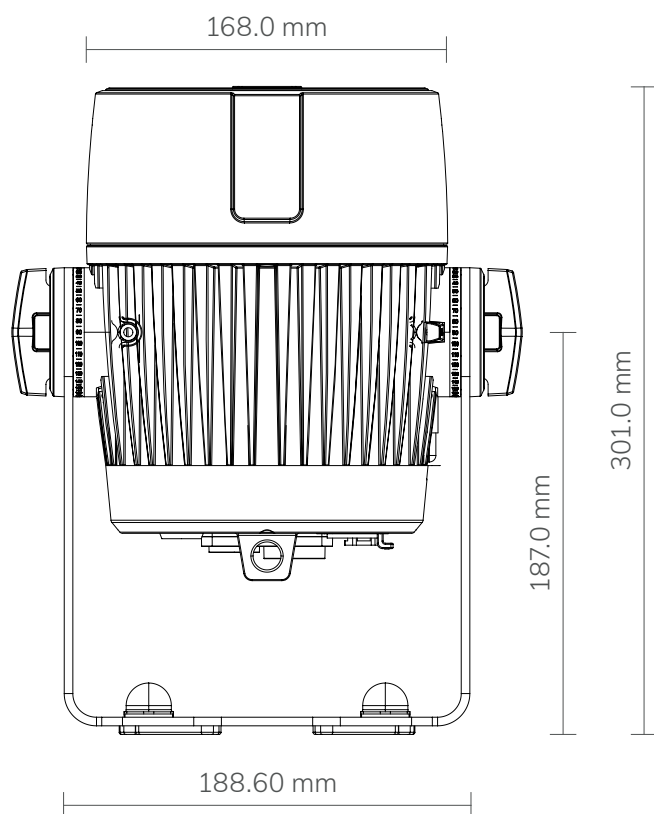
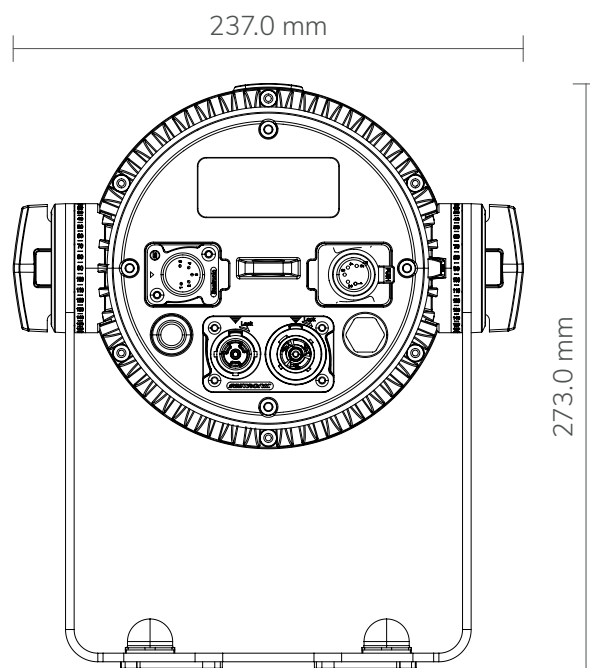
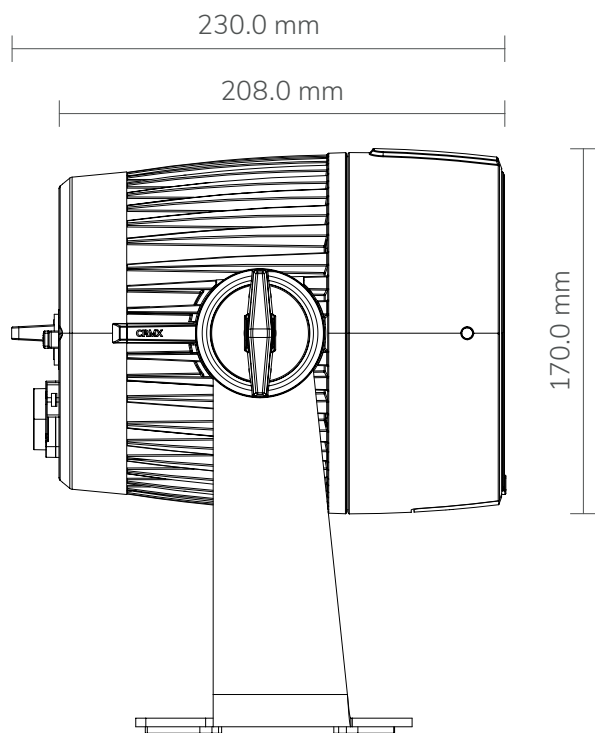
Omega Bracket ST
Art.: 90900002



Full Anti-Glare Shield
Art.: 11909801

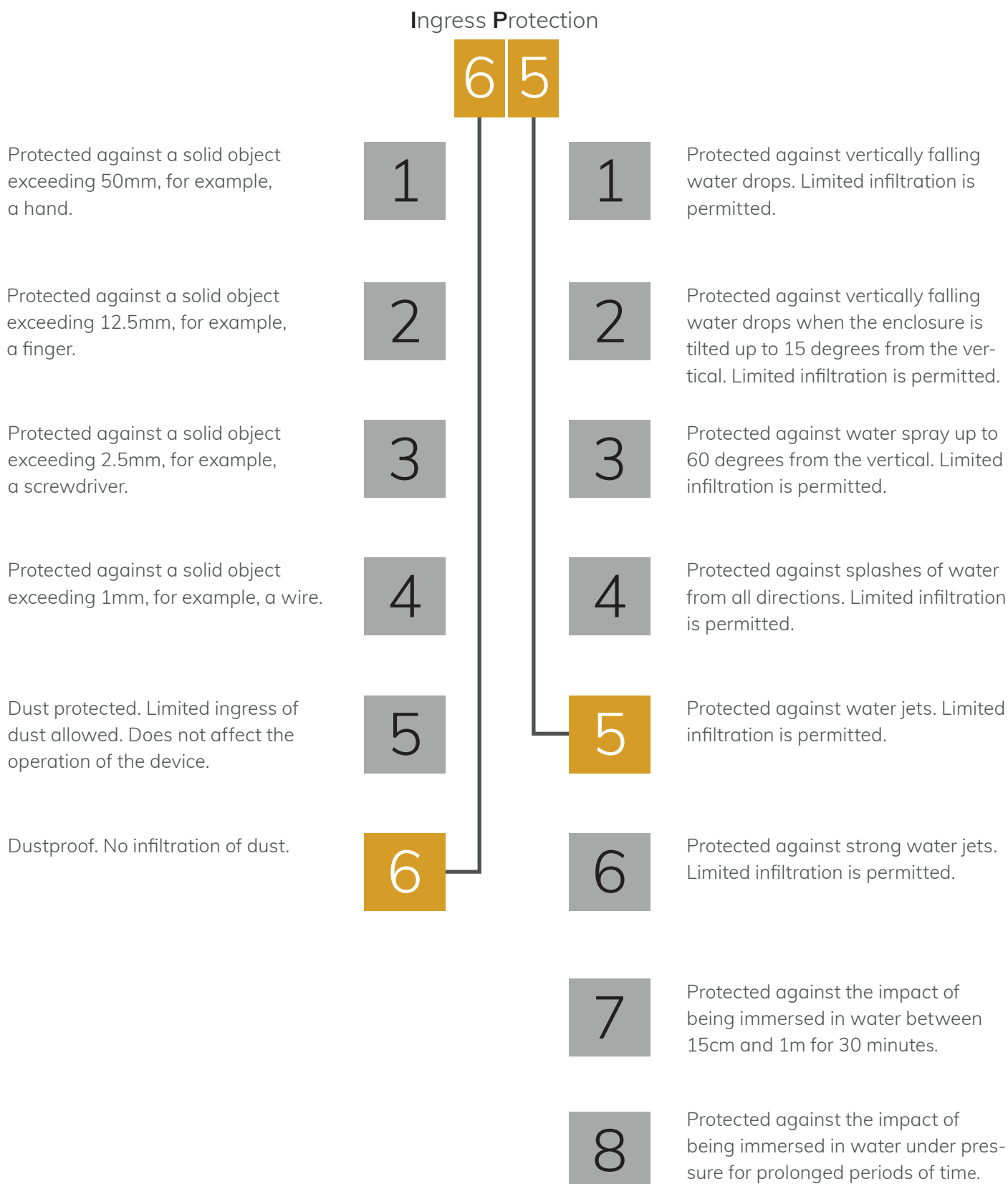
7. TECHNICAL DATA / DIAGRAMS

7.1 Technical drawings and measurements - ROXX B.SHOW mini TW+ / B.SHOW mini FC



7.2 IP Rating

ROXX products conform to officially classified IP standard levels. B.SHOW mini TW+ / B.SHOW mini FC is rated to IP65 when using the covers for the housing parts. IP stands for Ingress Protection and IP65, according to classified standard, means shielded against dust and high-pressure jets of water from any side.



7.3 Technical Data - B.SHOW mini TW+

| Photometrics | |
|---|---|
| LED expected lifetime | 50.000 hours |
| Lightsources | 1x200W RGBL |
| Type of optical system | reflector + interchangeable lens plates |
| LED PWM Frequency | selectable 800Hz, 1.200Hz, 2.000Hz, 3.600Hz, 12kHz, 25kHz |
| Beam angles (50%) | 14° (with VN lens) |
| | 23° (with N lens) |
| | 35° (with M lens) |
| | 52° (with W lens) |
| | 30° x 15° (with EN lens) |
| | 46° x 17,5° (with EW lens) |
| Maximum Field angles (10%) | 25° (with VN lens) |
| | 43° (with N lens) |
| | 69° (with M lens) |
| | 86° (with W lens) |
| | 58° x 34° (with EN lens) |
| | 73,5° x 40° (with EW lens) |
| Color temperature range | 2.000-10.000K |
| CRI/Ra | 93 |
| TLCI | 96 |
| Efficacy (max) | 41,88 lm/W |
| Luminous flux | 2.760 lm |
| illuminance Lux @ 3m (with VN lens) | 2960lx |
| illuminance Lux @ 3m (with N lens) | 1798lx |
| illuminance Lux @ 3m (with M lens) | 603lx |
| illuminance Lux @ 3m (with W lens) | 320lx |
| illuminance Lux @ 3m (with EN lens) | 1056lx |
| illuminance Lux @ 3m (with EW lens) | 736lx |
| Dimensions & Weight | |
| IP class | IP65 |
| Body material | Aluminum, Nylon |
| Lens material | Tempered glass front |
| Net dimensions (w x h x d) | 170 x 273 x 230mm |
| Net dimensions inches | 6,69 x 10,75 x 9,06 inches |
| Physical Head Straight Up Height | 310mm (12,20 inches) |
| Net weight (including Yoke) | 4,85 kg (10,69lbs) |
| Tilt | 360° |
| Tilt Locking System | Locking system with angle indicator |
| Thermal Characteristics | |
| Cooling | convection cooling |
| Humidity (max.) | 95% |
| Temperature range, Operating on Battery | -20°C to 40°C |

7.3 Technical Data - B.SHOW mini TW+

| | |
|---|---|
| Temperature range, Start-Up on Battery | -20° to 40°C |
| Temperature range, Operating on DC Power Supply | 0°C to 40°C |
| Temperature range, Start-Up on DC Power Supply | 0°C to 40°C |
| Temperature range, Storage | -10°C to 25°C |
| Temperature range, Charging | 0°C to 40°C |
| Thermal Protection | Automatic overtemperature protection |
| Electrical Data | |
| AC Power, max | 90 – 285V 50/60Hz |
| AC Power, nominal | 100 – 240V 50/60Hz |
| Electrical protection | Overload protection with automatic recover |
| Max Inrush Current | 1,102A |
| Max power consumption | 110W |
| Standby Power | 5,5W |
| Max power thru @ 100 V | 11A |
| Max power thru @ 230 V | 11A |
| Power Factor | 0.853 PF (230V) / 0.988 PF (120V) |
| Power Supply Unit | Inbuilt auto-ranging electronic switch-mode |
| Power Linking | 12 units @ 120 V; 22 units @ 230 V |
| Battery | N/A |
| Lifetime | 70% after 300 cycles |
| Battery Run Time | up to 24 hours |
| Charging Time (nominal) | 5h |
| Included / optional | |
| Included items | 2x radiator caps for pendant installation |
| | 2m power cord |
| Optional Accessories | Multiple Lens Plates (circular & elliptical), Safety-Free Accessory Adapter, 8-Way Barndoor, Honey Comb, Full Anti-Glare Shield, Gel-Frame, Omega Bracket with quater-turn fasteners, Touring Cases |
| Color options | Black – RAL 9004 (Standard) |
| | White – RAL 9010 (on request) |
| | Custom color – any RAL (on request) |
| Operator & Controller | |
| DMX Functions | Dimmer, Dimmer Fine, Shutter, Duration, Hue, Saturation, Red, Red Fine, Green, Green Fine, Blue, Blue Fine, Lime, Lime Fine, CCT, Tint, Color Macro, Color Macro Crossfade, Device Settings |
| DMX channels | 3CH CCT, 3CH RGB, 6CH RGB, 9CH RGB, 11CH RGB, 14CH RGB, 6CH DIRECT, 12CH DIRECT, 13CH DIRECT, 20CH DIRECT, 3CH HSI, 10CH HSI |
| DMX modes | 12 |
| Protocol | CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S |
| | USITT DMX512A |
| | RDM ANSI E1.20 |
| | Bluetooth Low Energy (BLE) |
| Setting and addressing | OLED graphical display / 4 controls |
| | RDM ANSI E1.20 |

7.3 Technical Data - B.SHOW mini TW+

| | |
|---|--|
| Standalone mode | Auto Program, Editor, Color Macro, Quick Color, Tunable White, User Color, Timer |
| Wireless DMX indicator | Lumenradio with RDM (CRMX) |
| controls | OLED graphical display |
| Strobe | 4 touch sensitive, backlighted controls |
| DMX I/O | 0-20Hz |
| Power In | IP65 XLR 5-pin male/female |
| Installation | |
| Mounting point on fixture | TRUE1 compatible input & link-thru sockets |
| Orientation | 1 x two quarter-turn locking points for optional Omega Bracket, centric hole 13mm (1/2"), 2x extra holes for TV Spigot |
| Rigging possibilities | Any |
| Safety features | Hanging or ceiling / pendant mount (Pendant blind caps included) |
| Minimum distance from flammable materials | rear mount for safety wire |
| | 0,3 meters (11,8 inch) |

7.3 Technical Data - B.SHOW mini FC

| Photometrics | |
|-------------------------------------|---|
| LED expected lifetime | 50.000 hours |
| Lightsource | 1x200W RGBL |
| Type of optical system | reflector + interchangeable lens plates |
| LED PWM Frequency | selectable 800Hz, 1.200Hz, 2.000Hz, 3.600Hz, 12kHz, 25kHz |
| Beam angles (50%) | 14° (with VN lens) |
| | 23° (with N lens) |
| | 35° (with M lens) |
| | 52° (with W lens) |
| | 30° x 15° (with EN lens) |
| | 46° x 17,5° (with EW lens) |
| Maximum Field angles (10%) | 25° (with VN lens) |
| | 43° (with N lens) |
| | 69° (with M lens) |
| | 86° (with W lens) |
| | 58° x 34° (with EN lens) |
| | 73,5° x 40° (with EW lens) |
| Color temperature range | 2.000-10.000K |
| CRI/Ra | 80 |
| Efficacy (max) | 43,56 lm/W |
| Luminous flux | 2.831 lm |
| illuminance Lux @ 3m (with VN lens) | 2710lx |
| illuminance Lux @ 3m (with N lens) | 1550lx |
| illuminance Lux @ 3m (with M lens) | 550lx |
| illuminance Lux @ 3m (with W lens) | 305lx |

7.3 Technical Data - B.SHOW mini FC

| | |
|---|---|
| illuminance Lux @ 3m (with EN lens) | 930lx |
| illuminance Lux @ 3m (with EW lens) | 640lx |
| Dimensions & Weight | |
| IP class | IP65 |
| Body material | Aluminum, Nylon |
| Lens material | Tempered glass front |
| Net dimensions (w x h x d) | 170 x 273 x 230mm |
| Net dimensions inches | 6,69 x 10,75 x 9,06 inches |
| Physical Head Straight Up Height | 310mm (12,20 inches) |
| Net weight (including Yoke) | 4,85 kg (10,69lbs) |
| Tilt | 360° |
| Tilt Locking System | Locking system with angle indicator |
| Thermal Characteristics | |
| Cooling | convection cooling |
| Humidity (max.) | 95% |
| Temperature range, Operating on Battery | -20°C to 40°C |
| Temperature range, Start-Up on Battery | -20° to 40°C |
| Temperature range, Operating on DC Power Supply | 0°C to 40°C |
| Temperature range, Start-Up on DC Power Supply | 0°C to 40°C |
| Temperature range, Storage | -10°C to 25°C |
| Temperature range, Charging | 0°C to 40°C |
| Thermal Protection | Automatic overtemperature protection |
| Electrical Data | |
| AC Power, max | 90 – 285V 50/60Hz |
| AC Power, nominal | 100 – 240V 50/60Hz |
| Electrical protection | Overload protection with automatic recover |
| Max Inrush Current | 1,102A |
| Max power consumption | 110W |
| Standby Power | 5,5W |
| Max power thru @ 100 V | 11A |
| Max power thru @ 230 V | 11A |
| Power Factor | 0.853 PF (230V) / 0.988 PF (120V) |
| Power Supply Unit | Inbuilt auto-ranging electronic switch-mode |
| Power Linking | 12 units @ 120 V; 22 units @ 230 V |
| Battery | N/A |
| Lifetime | 70% after 300 cycles |
| Battery Run Time | up to 24 hours |
| Charging Time (nominal) | 5h |

7.3 Technical Data - B.SHOW mini FC

| Included / optional | |
|---|--|
| Included items | 2x radiator caps for pendant installation |
| | 2m power cord |
| Optional Accessories | Multiple Lens Plates (circular & elliptical), Safety-Free Accessory Adapter, 8-Way Barndoor, Honey Comb, Full Anti-Glare Shield, Gel-Frame, Omega Bracket with quarter-turn fasteners, Touring Cases |
| Color options | Black – RAL 9004 (Standard) |
| | White – RAL 9010 (on request) |
| | Custom color – any RAL (on request) |
| Operator & Controller | |
| DMX Functions | Dimmer, Dimmer Fine, Shutter, Duration, Hue, Saturation, Red, Red Fine, Green, Green Fine, Blue, Blue Fine, Lime, Lime Fine, CCT, Tint, Color Macro, Color Macro Crossfade, Device Settings |
| DMX channels | 3CH CCT, 3CH RGB, 6CH RGB, 9CH RGB, 11CH RGB, 14CH RGB, 4CH DIRECT, 8CH DIRECT, 11CH DIRECT, 16CH DIRECT, 3CH HSI, 10CH HSI |
| DMX modes | 12 |
| Protocol | CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S |
| | USITT DMX512A |
| | RDM ANSI E1.20 |
| | Bluetooth Low Energy (BLE) |
| Setting and addressing | OLED graphical display / 4 controls |
| | RDM ANSI E1.20 |
| Standalone mode | Auto Program, Editor, Color Macro, Quick Color, Tunable White, User Color, Timer |
| Wireless DMX | Lumenradio with RDM (CRMX) |
| indicator | OLED graphical display |
| controls | 4 touch sensitive, backlit controls |
| Strobe | 0-20Hz |
| DMX I/O | IP65 XLR 5-pin male/female |
| Power In | TRUE1 compatible input & link-thru sockets |
| | |
| Installation | |
| Mounting point on fixture | 1 x two quarter-turn locking points for optional Omega Bracket, centric hole 13mm (1/2"), 2x extra holes for TV Spigot |
| Orientation | Any |
| Rigging possibilities | Hanging or ceiling / pendant mount (Pendant blind caps included) |
| Safety features | rear mount for safety wire |
| Minimum distance from flammable materials | 0,3 meters (11,8 inch) |

7.5 DMX Chart B.SHOW mini TW+

| | |
|--------------------------------|--------------------|
| 3CH CCT | 6CH DIRECT |
| 3CH RGB | 12CH DIRECT |
| 6CH RGB | 13CH DIRECT |
| 9CH RGB | 20CH DIRECT |
| 11CH RGB (default mode) | 3CH HSI |
| 14CH RGB | 10CH HSI |

| 3 CH CCT MODE (Color Calibration) | | | | |
|-------------------------------------|------------|-----------|---------------------------------------|--|
| Ch. | Function | Value | Setting | |
| 1 | Dimmer | 000-255 | 0 - 100% | |
| 2 | CTC | 000 - 004 | 5600K | |
| | | 005-226 | 2000K-6500K linear in 20-21K steps | |
| | | 182-182 | 5600K | |
| | | 226-226 | 6500K | |
| | | 227-255 | 6621K-10.000K linear in 120-121K step | |
| 3 | Tint | 0 | no function | |
| | | 001-127 | Magenta -> Neutral | |
| | | 128-128 | Neutral | |
| | | 129-255 | Neutral -> Green | |
| | | | | |
| 3 CH - RGB MODE (Color Calibration) | | | | |
| Ch. | Function | Value | Setting | |
| 1 | Red | 000-255 | 0 - 100% | |
| 2 | Green | 000-255 | 0 - 100% | |
| 3 | Blue | 000-255 | 0 - 100% | |
| | | | | |
| 6 CH RGB MODE - (Color Calibration) | | | | |
| Ch. | Function | Value | Setting | |
| 1 | Red | 000-255 | 0 - 100% | |
| 2 | Red Fine | 000-255 | 0 - 100% | |
| 3 | Green | 000-255 | 0 - 100% | |
| 4 | Green Fine | 000-255 | 0 - 100% | |
| 5 | Blue | 000-255 | 0 - 100% | |
| 6 | Blue Fine | 000-255 | 0 - 100% | |
| | | | | |

9 CH RGB MODE - (Color Calibration)

| Ch. | Function | Value | Setting |
|-----|--|-----------|--|
| 1 | Dimmer | 000-255 | 0 - 100% |
| 2 | Shutter | 000 - 019 | Shutter close |
| | | 020 - 024 | Shutter open |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) |
| | | 065 - 069 | Shutter open |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) |
| | | 085 - 089 | Shutter open |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) |
| | | 105 - 109 | Shutter open |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) |
| | | 125 - 129 | Shutter open |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) |
| | | 145 - 149 | Shutter open |
| | | 150 - 164 | Strobe 6: random closing pulse (fast ⊕ slow) |
| | | 165 - 169 | Shutter open |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) |
| | | 185 - 189 | Shutter open |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) |
| | | 205 - 209 | Shutter open |
| | | 210 - 224 | Strobe 9: sine wave (fast ⊕ slow) |
| | | 225 - 229 | Shutter open |
| | | 230 - 244 | Strobe 10: burst (fast ⊕ slow) |
| | | 245 - 255 | Shutter open |
| 3 | Red | 000-255 | 0 - 100% |
| 4 | Green | 000-255 | 0 - 100% |
| 5 | Blue | 000-255 | 0 - 100% |
| 6 | CTC (affects RGB) | 000 - 004 | 5600K |
| | | 005-226 | 2000K-6500K linear in 20-21K steps |
| | | 182-182 | 5600K |
| | | 226-226 | 6500K |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps |
| 7 | Tint (affects CTC and RGB) | 0 | no function |
| | | 001-127 | Magenta -> Neutral |
| | | 128-128 | Neutral |
| | | 129-255 | Neutral -> Green |
| 8 | Color Macro (override RGB/CTC) | | Please see color macro chart |
| 9 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | No function |
| | | 006-105 | 0,1s - 10s (0,1s steps) |
| | | 106-214 | 11s - 119s (1s steps) |
| | | 215-244 | 2m - 4m50s (10s steps) |
| | | 245-255 | 5m - 15m (1m steps) |

according to CTC chart

11 CH RGB Mode (Color Calibration) default mode

| | | | | |
|-----------|--|-----------|--|---|
| 1 | Dimmer Center | 000-255 | 0 - 100% | |
| 2 | Shutter | 000 - 019 | Shutter close | |
| | | 020 - 024 | Shutter open | |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) | |
| | | 065 - 069 | Shutter open | |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) | |
| | | 085 - 089 | Shutter open | |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) | |
| | | 105 - 109 | Shutter open | |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) | |
| | | 125 - 129 | Shutter open | |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) | |
| | | 145 - 149 | Shutter open | |
| | | 150 - 164 | Strobe 6:random closing pulse (fast ⊕ slow) | |
| | | 165 - 169 | Shutter open | |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) | |
| | | 185 - 189 | Shutter open | |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) | |
| | | 205 - 209 | Shutter open | |
| | | 210 - 224 | Strobe 9:sine wave (fast ⊕ slow) | |
| | | 225 - 229 | Shutter open | |
| 230 - 244 | Strobe 10: burst (fast ⊕ slow) | | | |
| 245 - 255 | Shutter open | | | |
| 3 | Duration (only affects to channel 2 - Strobe 1 025-064) | 000-255 | 0 - 100% | (only affects to channel 2 - Strobe 1 - 025-064) |
| 4 | Red | 000-255 | 0 - 100% | |
| 5 | Green | 000-255 | 0 - 100% | |
| 6 | Blue | 000-255 | 0 - 100% | |
| 7 | CTC (affects RGB) | 000 - 004 | 5600K | |
| | | 005-226 | 2000K-6500K linear in 20-21K steps | |
| | | 182-182 | 5600K | |
| | | 226-226 | 6500K | |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps | |
| 8 | Tint (affects CTC and RGB) | 0 | No function | |
| | | 001-127 | Magenta -> Neutral | |
| | | 128-128 | Neutral | |
| | | 129-255 | Neutral -> Green | |
| 9 | Color Macro (override RGB/CTC) | | Please see color macro chart | |

| | | | | |
|----|---|-----------|--|--|
| 10 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | no function | |
| | | 006-105 | 0,1s - 10s (0,1s steps) | |
| | | 106-214 | 11s - 119s (1s steps) | |
| | | 215-244 | 2m - 4m50s (10s steps) | |
| | | 245-255 | 5m - 15m (1m steps) | |
| 11 | Device Settings (please see remark *1) | 000-029 | No function | |
| | | 030-034 | Linear Dimmer Curve (hold 3s) | |
| | | 035-039 | Exponential Dimmer Curve (hold 3s) | |
| | | 040-044 | Logarithmic Dimmer Curve (hold 3s) | |
| | | 045-049 | S-Curve Dimmer Curve (hold 3s) | |
| | | 050-054 | Dimmer Response LED (Hold 1,5s) | |
| | | 055-059 | Dimmer Response Halogen (Hold 1,5s) | |
| | | 060-094 | No function | |
| | | 095-099 | LED Frequency 800Hz (hold 3s) | |
| | | 100-104 | LED Frequency 1200Hz (hold 3s) | |
| | | 105-109 | LED Frequency 2000Hz (hold 3s) | |
| | | 110-114 | LED Frequency 3600Hz (hold 3s) | |
| | | 115-119 | LED Frequency 12kHz (hold 3s) | |
| | | 120-124 | LED Frequency 25kHz (hold 3s) | |
| | | 125-129 | No function | |
| | | 130-134 | Runtime Off (hold 3s) | |
| | | 135-139 | Runtime 8h (hold 3s) | |
| | | 140-144 | Runtime 12h (hold 3s) | |
| | | 145-149 | Runtime 16h (hold 3s) | |
| | | 150-154 | Runtime 20h (hold 3s) | |
| | | 155-159 | No function | |
| | | 160-164 | Redshift On (Hold 1,5s) | Redshift affects only between 2700-3500K |
| | | 165-169 | Redshift Off (Hold 1,5s) | |
| | | 170-174 | Full Calibration (Colors & CCT / Hold 3s) | |
| | | 175-179 | CCT Calibration (CCT only / RAW Colors / Hold 3s) | |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults | |
| | | 185-189 | User Reset (hold 3s) - except User Colors. | |
| | | 190-255 | No function | |

14 CH RGB Mode (Color Calibration)

| Ch. | Function | Value | Setting |
|-----|--|-----------|--|
| 1 | Dimmer Center | 000-255 | 0 - 100% |
| 2 | Dimmer Fine | 000-255 | 0 - 100% |
| 3 | Shutter | 000 - 019 | Shutter close |
| | | 020 - 024 | Shutter open |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) |
| | | 065 - 069 | Shutter open |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) |
| | | 085 - 089 | Shutter open |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) |
| | | 105 - 109 | Shutter open |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) |
| | | 125 - 129 | Shutter open |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) |
| | | 145 - 149 | Shutter open |
| | | 150 - 164 | Strobe 6: random closing pulse (fast ⊕ slow) |
| | | 165 - 169 | Shutter open |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) |
| | | 185 - 189 | Shutter open |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) |
| | | 205 - 209 | Shutter open |
| | | 210 - 224 | Strobe 9: sine wave (fast ⊕ slow) |
| | | 225 - 229 | Shutter open |
| | | 230 - 244 | Strobe 10: burst (fast ⊕ slow) |
| | | 245 - 255 | Shutter open |
| 4 | Red | 000-255 | 0 - 100% |
| 5 | Red Fine | 000-255 | 0 - 100% |
| 6 | Green | 000-255 | 0 - 100% |
| 7 | Green Fine | 000-255 | 0 - 100% |
| 8 | Blue | 000-255 | 0 - 100% |
| 9 | Blue Fine | 000-255 | 0 - 100% |
| 10 | CTC (affects RGB/Fine) | 000 - 004 | 5600K |
| | | 005-226 | 2000K-6500K linear in 20-21K steps (please see detailed CTC chart) |
| | | 182-182 | 5600K |
| | | 226-226 | 6500K |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps (please see detailed CTC chart) |
| 11 | Tint (affects CTC and RGB/Fine) | 0 | No function |
| | | 001-127 | Magenta -> Neutral |
| | | 128-128 | Neutral |
| | | 129-255 | Neutral -> Green |
| 12 | Color Macro (overri- de RGB+Fine/CTC) | | Please see color macro chart |

according to CTC chart

| | | | | |
|----|---|-----------|--|--|
| 13 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | no function | |
| | | 006-105 | 0,1s - 10s (0,1s steps) | |
| | | 106-214 | 11s - 119s (1s steps) | |
| | | 215-244 | 2m - 4m50s (10s steps) | |
| | | 245-255 | 5m - 15m (1m steps) | |
| 14 | Device Settings (please see remark *1) | 000-029 | No function | |
| | | 030-034 | Linear Dimmer Curve (hold 3s) | |
| | | 035-039 | Exponential Dimmer Curve (hold 3s) | |
| | | 040-044 | Logarithmic Dimmer Curve (hold 3s) | |
| | | 045-049 | S-Curve Dimmer Curve (hold 3s) | |
| | | 050-054 | Dimmer Response LED (Hold 1,5s) | |
| | | 055-059 | Dimmer Response Halogen (Hold 1,5s) | |
| | | 060-094 | No function | |
| | | 095-099 | LED Frequency 800Hz (hold 3s) | |
| | | 100-104 | LED Frequency 1200Hz (hold 3s) | |
| | | 105-109 | LED Frequency 2000Hz (hold 3s) | |
| | | 110-114 | LED Frequency 3600Hz (hold 3s) | |
| | | 115-119 | LED Frequency 12kHz (hold 3s) | |
| | | 120-124 | LED Frequency 25kHz (hold 3s) | |
| | | 125-129 | No function | |
| | | 130-134 | Runtime Off (hold 3s) | |
| | | 135-139 | Runtime 8h (hold 3s) | |
| | | 140-144 | Runtime 12h (hold 3s) | |
| | | 145-149 | Runtime 16h (hold 3s) | |
| | | 150-154 | Runtime 20h (hold 3s) | |
| | | 155-159 | No function | |
| | | 160-164 | Redshift On (Hold 1,5s) | Redshift affects only between 2700-3500K |
| | | 165-169 | Redshift Off (Hold 1,5s) | |
| | | 170-174 | Full Calibration (Colors & CCT / Hold 3s) | |
| | | 175-179 | CCT Calibration (CCT only / RAW Colors / Hold 3s) | |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults | |
| | | 185-189 | User Reset (hold 3s) - except User Colors. | |
| | | 190-255 | No function | |

6 CH - DIRECT MODE (RAW Balance)

| Ch. | Function | Value | Setting |
|-----|----------|---------|----------|
| 1 | Red | 000-255 | 0 - 100% |
| 2 | Green | 000-255 | 0 - 100% |
| 3 | Blue | 000-255 | 0 - 100% |
| 4 | Amber | 000-255 | 0 - 100% |
| 5 | Lime | 000-255 | 0 - 100% |
| 6 | Cyan | 000-255 | 0 - 100% |

12 CH - DIRECT MODE (RAW Balance)

| Ch. | Function | Value | Setting |
|-----|------------|---------|----------|
| 1 | Red | 000-255 | 0 - 100% |
| 2 | Red Fine | 000-255 | 0 - 100% |
| 3 | Green | 000-255 | 0 - 100% |
| 4 | Green Fine | 000-255 | 0 - 100% |
| 5 | Blue | 000-255 | 0 - 100% |
| 6 | Blue Fine | 000-255 | 0 - 100% |
| 7 | Amber | 000-255 | 0 - 100% |
| 8 | Amber Fine | 000-255 | 0 - 100% |
| 9 | Lime | 000-255 | 0 - 100% |
| 10 | Lime Fine | 000-255 | 0 - 100% |
| 11 | Cyan | 000-255 | 0 - 100% |
| 12 | Cyan Fine | 000-255 | 0 - 100% |

13 CH - DIRECT MODE (RAW Balance)

| Ch. | Function | Value | Setting |
|-----|---------------|-----------|--|
| 1 | Dimmer Center | 000-255 | 0 - 100% |
| 2 | Shutter | 000 - 019 | Shutter close |
| | | 020 - 024 | Shutter open |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) |
| | | 065 - 069 | Shutter open |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) |
| | | 085 - 089 | Shutter open |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) |
| | | 105 - 109 | Shutter open |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) |
| | | 125 - 129 | Shutter open |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) |
| | | 145 - 149 | Shutter open |
| | | 150 - 164 | Strobe 6: random closing pulse (fast ⊕ slow) |
| | | 165 - 169 | Shutter open |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) |
| | | 185 - 189 | Shutter open |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) |
| | | 205 - 209 | Shutter open |
| | | 210 - 224 | Strobe 9: sine wave (fast ⊕ slow) |
| | | 225 - 229 | Shutter open |
| | | 230 - 244 | Strobe 10: burst (fast ⊕ slow) |
| | | 245 - 255 | Shutter open |

| | | | | |
|----|---|-----------|--|--|
| 3 | Red | 000-255 | 0 - 100% | |
| 4 | Green | 000-255 | 0 - 100% | |
| 5 | Blue | 000-255 | 0 - 100% | |
| 6 | Amber | 000-255 | 0 - 100% | |
| 7 | Lime | 000-255 | 0 - 100% | |
| 8 | Cyan | 000-255 | 0 - 100% | |
| 9 | CTC (affects RGBALC) | 000 - 004 | RAW | |
| | | 005-226 | 2000K-6500K linear in 20-21K steps | |
| | | 182-182 | 5600K | |
| | | 226-226 | 6500K | |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps | |
| 10 | Tint (affects CTC and RGBALC) | 0 | no function | |
| | | 001-127 | Magenta -> Neutral | |
| | | 128-128 | Neutral | |
| | | 129-255 | Neutral -> Green | |
| 11 | Color Macro (over-ride RGBALC/CTC) | | Please see color macro chart | |
| 12 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | No function | |
| | | 006-105 | 0,1s - 10s (0,1s steps) | |
| | | 106-214 | 11s - 119s (1s steps) | |
| | | 215-244 | 2m - 4m50s (10s steps) | |
| | | 245-255 | 5m - 15m (1m steps) | |
| 13 | Device Settings (please see remark *1) | 000-029 | No function | |
| | | 030-034 | Linear Dimmer Curve (hold 3s) | |
| | | 035-039 | Exponential Dimmer Curve (hold 3s) | |
| | | 040-044 | Logarithmic Dimmer Curve (hold 3s) | |
| | | 045-049 | S-Curve Dimmer Curve (hold 3s) | |
| | | 050-054 | Dimmer Response LED (Hold 1,5s) | |
| | | 055-059 | Dimmer Response Halogen (Hold 1,5s) | |
| | | 060-069 | No function | |
| | | 070-074 | RAW Mode (hold 3s) | |
| | | 075-079 | User Calibration Mode (hold 3s) | |
| | | 080-094 | No function | |
| | | 095-099 | LED Frequency 800Hz (hold 3s) | |
| | | 100-104 | LED Frequency 1200Hz (hold 3s) | |
| | | 105-109 | LED Frequency 2000Hz (hold 3s) | |
| | | 110-114 | LED Frequency 3600Hz (hold 3s) | |
| | | 115-119 | LED Frequency 12kHz (hold 3s) | |
| | | 120-124 | LED Frequency 25kHz (hold 3s) | |
| | | 125-129 | No function | |
| | | 130-134 | Runtime Off (hold 3s) | |
| | | 135-139 | Runtime 8h (hold 3s) | |
| | | 140-144 | Runtime 12h (hold 3s) | |

| | | | | |
|-----------------------------------|--|-----------|--|--|
| 13 | Device Settings (please see remark *1) | 145-149 | Runtime 16h (hold 3s) | |
| | | 150-154 | Runtime 20h (hold 3s) | |
| | | 155-159 | No function | |
| | | 160-164 | Redshift On (Hold 1,5s) | Redshift affects only between 2700-3500K |
| | | 165-169 | Redshift Off (Hold 1,5s) | |
| | | 170-179 | No function | |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults | |
| | | 185-189 | User Reset (hold 3s) - except User Colors. | |
| | | 190-255 | No function | |
| | | | | |
| 20 CH - DIRECT MODE (RAW Balance) | | | | |
| Ch. | Function | Value | Setting | |
| 1 | Dimmer Center | 000-255 | 0 - 100% | |
| 2 | Dimmer Fine | 000-255 | 0 - 100% | |
| 3 | Shutter | 000 - 019 | Shutter close | |
| | | 020 - 024 | Shutter open | |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) | |
| | | 065 - 069 | Shutter open | |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) | |
| | | 085 - 089 | Shutter open | |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) | |
| | | 105 - 109 | Shutter open | |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) | |
| | | 125 - 129 | Shutter open | |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) | |
| | | 145 - 149 | Shutter open | |
| | | 150 - 164 | Strobe 6:random closing pulse (fast ⊕ slow) | |
| | | 165 - 169 | Shutter open | |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) | |
| | | 185 - 189 | Shutter open | |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) | |
| | | 205 - 209 | Shutter open | |
| | | 210 - 224 | Strobe 9:sine wave (fast ⊕ slow) | |
| | | 225 - 229 | Shutter open | |
| | | 230 - 244 | Strobe 10: burst (fast ⊕ slow) | |
| | | 245 - 255 | Shutter open | |
| 4 | Red | 000-255 | 0 - 100% | |
| 5 | Red Fine | 000-255 | 0 - 100% | |
| 6 | Green | 000-255 | 0 - 100% | |
| 7 | Green Fine | 000-255 | 0 - 100% | |
| 8 | Blue | 000-255 | 0 - 100% | |
| 9 | Blue Fine | 000-255 | 0 - 100% | |
| 10 | Amber | 000-255 | 0 - 100% | |

| | | | | | |
|----|--|-----------|--|--|------------------------|
| 11 | Amber Fine | 000-255 | 0 - 100% | | |
| 12 | Lime | 000-255 | 0 - 100% | | |
| 13 | Lime Fine | 000-255 | 0 - 100% | | |
| 14 | Cyan | 000-255 | 0 - 100% | | |
| 15 | Cyan Fine | 000-255 | 0 - 100% | | |
| 16 | CTC (affects RGBALC/ Fine) | 000 - 004 | RAW | | according to CTC chart |
| | | 005-226 | 2000K-6500K linear in 20-21K steps | | |
| | | 182-182 | 5600K | | |
| | | 226-226 | 6500K | | |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps | | |
| 17 | Tint (affects CTC and RGBALC/Fine) | 0 | No function | | |
| | | 001-127 | Magenta -> Neutral | | |
| | | 128-128 | Neutral | | |
| | | 129-255 | Neutral -> Green | | |
| 18 | Color Macro (override RGBALC+Fine/CTC) | | Please see color macro chart | | |
| 19 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | No function | | |
| | | 006-105 | 0,1s - 10s (0,1s steps) | | |
| | | 106-214 | 11s - 119s (1s steps) | | |
| | | 215-244 | 2m - 4m50s (10s steps) | | |
| | | 245-255 | 5m - 15m (1m steps) | | |
| 20 | Device Settings (please see remark *1) | 000-029 | No function | | |
| | | 030-034 | Linear Dimmer Curve (hold 3s) | | |
| | | 035-039 | Exponential Dimmer Curve (hold 3s) | | |
| | | 040-044 | Logarithmic Dimmer Curve (hold 3s) | | |
| | | 045-049 | S-Curve Dimmer Curve (hold 3s) | | |
| | | 050-054 | Dimmer Response LED (Hold 1,5s) | | |
| | | 055-059 | Dimmer Response Halogen (Hold 1,5s) | | |
| | | 060-069 | No function | | |
| | | 070-074 | RAW Mode (hold 3s) | | |
| | | 075-079 | User Calibration Mode (hold 3s) | | |
| | | 080-094 | No function | | |
| | | 095-099 | LED Frequency 800Hz (hold 3s) | | |
| | | 100-104 | LED Frequency 1200Hz (hold 3s) | | |
| | | 105-109 | LED Frequency 2000Hz (hold 3s) | | |
| | | 110-114 | LED Frequency 3600Hz (hold 3s) | | |
| | | 115-119 | LED Frequency 12kHz (hold 3s) | | |
| | | 120-124 | LED Frequency 25kHz (hold 3s) | | |
| | | 125-129 | No function | | |
| | | 130-134 | Runtime Off (hold 3s) | | |
| | | 135-139 | Runtime 8h (hold 3s) | | |
| | | 140-144 | Runtime 12h (hold 3s) | | |

| | | | | |
|----|--|---------|--|--|
| 20 | Device Settings (please see remark *1) | 145-149 | Runtime 16h (hold 3s) | |
| | | 150-154 | Runtime 20h (hold 3s) | |
| | | 155-159 | No function | |
| | | 160-164 | Redshift On (Hold 1,5s) | |
| | | 165-169 | Redshift Off (Hold 1,5s) | Redshift affects only between 2700-3500K |
| | | 170-179 | No function | |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults | |
| | | 185-189 | User Reset (hold 3s) - except User Colors | |
| | | 190-255 | No function | |

3 CH - HSI MODE (Color Calibration)

| Ch. | Function | Value | Setting |
|-----|------------|---------|--------------------|
| 1 | Dimmer | 000-255 | 0 - 100% |
| 2 | Hue | 000-255 | 0° (RED) Thru 360° |
| 3 | Saturation | 000-255 | 0 - 100% |

10 CH - HSI MODE (Color Calibration)

| Ch. | Function | Value | Setting |
|-----|-------------|-----------|--|
| 1 | Dimmer | 000-255 | 0 - 100% |
| 2 | Dimmer Fine | 000-255 | 0 - 100% |
| 3 | Shutter | 000 - 019 | Shutter close |
| | | 020 - 024 | Shutter open |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) |
| | | 065 - 069 | Shutter open |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) |
| | | 085 - 089 | Shutter open |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) |
| | | 105 - 109 | Shutter open |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) |
| | | 125 - 129 | Shutter open |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) |
| | | 145 - 149 | Shutter open |
| | | 150 - 164 | Strobe 6: random closing pulse (fast ⊕ slow) |
| | | 165 - 169 | Shutter open |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) |
| | | 185 - 189 | Shutter open |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) |
| | | 205 - 209 | Shutter open |
| | | 210 - 224 | Strobe 9: sine wave (fast ⊕ slow) |
| | | 225 - 229 | Shutter open |
| | | 230 - 244 | Strobe 10: burst (fast ⊕ slow) |
| | | 245 - 255 | Shutter open |

| | | | | | |
|----|--|-----------|---|--|--|
| 4 | Hue | 000-255 | 0° (RED) Thru 360° | | |
| 5 | Saturation | 000-255 | 0 - 100% (CTC-->HUE) | | |
| 6 | CTC (affects HUE and Saturation) --> CTC no effect if Saturation to 100% | 000 - 004 | 5600K | | |
| | | 005-226 | 2000K-6500K linear in 20-21K steps | | |
| | | 182-182 | 5600K | | |
| | | 226-226 | 6500K | | |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps | | |
| 7 | Tint (affects CTC, HUE and Saturation). --> Tint no effect if Saturation to 100% | 0 | No function | | |
| | | 001-127 | Magenta -> Neutral | | |
| | | 128-128 | Neutral | | |
| | | 129-255 | Neutral -> Green | | |
| 8 | Color Macro (override HUE/ SATURATION/CTC) | | Please see color macro chart | | |
| 9 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | No function | | |
| | | 006-105 | 0,1s - 10s (0,1s steps) | | |
| | | 106-214 | 11s - 119s (1s steps) | | |
| | | 215-244 | 2m - 4m50s (10s steps) | | |
| | | 245-255 | 5m - 15m (1m steps) | | |
| 10 | Device Settings (please see remark *1) | 000-029 | No function | | |
| | | 030-034 | Linear Dimmer Curve (hold 3s) | | |
| | | 035-039 | Exponential Dimmer Curve (hold 3s) | | |
| | | 040-044 | Logarithmic Dimmer Curve (hold 3s) | | |
| | | 045-049 | S-Curve Dimmer Curve (hold 3s) | | |
| | | 050-054 | Dimmer Response LED (Hold 1,5s) | | |
| | | 055-059 | Dimmer Response Halogen (Hold 1,5s) | | |
| | | 060-094 | No function | | |
| | | 095-099 | LED Frequency 800Hz (hold 3s) | | |
| | | 100-104 | LED Frequency 1200Hz (hold 3s) | | |
| | | 105-109 | LED Frequency 2000Hz (hold 3s) | | |
| | | 110-114 | LED Frequency 3600Hz (hold 3s) | | |
| | | 115-119 | LED Frequency 12kHz (hold 3s) | | |
| | | 120-124 | LED Frequency 25kHz (hold 3s) | | |
| | | 125-129 | No function | | |
| | | 130-134 | Runtime Off (hold 3s) | | |
| | | 135-139 | Runtime 8h (hold 3s) | | |
| | | 140-144 | Runtime 12h (hold 3s) | | |
| | | 145-149 | Runtime 16h (hold 3s) | | |
| | | 150-154 | Runtime 20h (hold 3s) | | |
| | | 155-159 | No function | Redshift affects only between 2700-3500K | |
| | | 160-164 | Redshift On (Hold 1,5s) | | |
| | | 165-169 | Redshift Off (Hold 1,5s) | | |
| | | 170-174 | Full Calibration (Colors & CCT / Hold 3s) | | |

| | | | |
|-----------|--|--|--|
| | | 175-179 | CCT Calibration (CCT only / RAW Colors / Hold 3s) |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults |
| | | 185-189 | User Reset (hold 3s) - except User Colors |
| | | 190-255 | No function |
| remark *1 | | After adjustments please set the value back to 000 to avoid any disturbance by endless function call. | |

7.5 DMX Chart B.SHOW mini FC

| | |
|--------------------------------|--------------------|
| 3CH CCT | 4CH DIRECT |
| 3CH RGB | 8CH DIRECT |
| 6CH RGB | 11CH DIRECT |
| 9CH RGB | 16CH DIRECT |
| 11CH RGB (default mode) | 3CH HSI |
| 14CH RGB | 10CH HSI |

| 3 CH CCT MODE (Color Calibration) | | | | |
|-------------------------------------|--------------------|-----------|--|--|
| Ch. | Function | Value | Setting | |
| 1 | Dimmer | 000-255 | 0 - 100% | |
| 2 | CTC | 000 - 004 | 5600K | |
| | | 005-226 | 2000K-6500K linear in 20-21K steps | |
| | | 182-182 | 5600K | |
| | | 226-226 | 6500K | |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps | |
| 3 | Tint (affects CCT) | 0 | no function | |
| | | 001-127 | Magenta -> Neutral | |
| | | 128-128 | Neutral | |
| | | 129-255 | Neutral -> Green | |
| | | | | |
| 3 CH - RGB MODE (Color Calibration) | | | | |
| Ch. | Function | Value | Setting | |
| 1 | Red | 000-255 | 0 - 100% | |
| 2 | Green | 000-255 | 0 - 100% | |
| 3 | Blue | 000-255 | 0 - 100% | |
| | | | | |
| 6 CH RGB MODE - Color Calibration | | | | |
| Ch. | Function | Value | Setting | |
| 1 | Red | 000-255 | 0 - 100% | |
| 2 | Red Fine | 000-255 | 0 - 100% | |
| 3 | Green | 000-255 | 0 - 100% | |
| 4 | Green Fine | 000-255 | 0 - 100% | |
| 5 | Blue | 000-255 | 0 - 100% | |
| 6 | Blue Fine | 000-255 | 0 - 100% | |
| | | | | |

9 CH RGB MODE - Color Calibration

| Ch. | Function | Value | Setting |
|-----|--|-----------|---|
| 1 | Dimmer | 000-255 | 0 - 100% |
| 2 | Shutter | 000 - 019 | Shutter close |
| | | 020 - 024 | Shutter open |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) |
| | | 065 - 069 | Shutter open |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) |
| | | 085 - 089 | Shutter open |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) |
| | | 105 - 109 | Shutter open |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) |
| | | 125 - 129 | Shutter open |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) |
| | | 145 - 149 | Shutter open |
| | | 150 - 164 | Strobe 6: random closing pulse (fast ⊕ slow) |
| | | 165 - 169 | Shutter open |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) |
| | | 185 - 189 | Shutter open |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) |
| | | 205 - 209 | Shutter open |
| | | 210 - 224 | Strobe 9: sine wave (fast ⊕ slow) |
| | | 225 - 229 | Shutter open |
| | | 230 - 244 | Strobe 10: burst (fast ⊕ slow) |
| | | 245 - 255 | Shutter open |
| 3 | Red | 000-255 | 0 - 100% |
| 4 | Green | 000-255 | 0 - 100% |
| 5 | Blue | 000-255 | 0 - 100% |
| 6 | CTC (affects RGB) | 000 - 004 | 5600K |
| | | 005-226 | 2000K-6500K linear in 20-21K steps |
| | | 182-182 | 5600K |
| | | 226-226 | 6500K |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps |
| 7 | Tint (affects CTC and RGB) | 0 | No function |
| | | 001-127 | Magenta -> Neutral |
| | | 128-128 | Neutral |
| | | 129-255 | Neutral -> Green |
| 8 | Color Macro (override RGB/CTC) | | Please use color macros from ROXX color macro chart |
| 9 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | No function |
| | | 006-105 | 0,1s - 10s (0,1s steps) |
| | | 106-214 | 11s - 119s (1s steps) |
| | | 215-244 | 2m - 4m50s (10s steps) |
| | | 245-255 | 5m - 15m (1m steps) |

according to CTC chart

11 CH RGB Mode (Color Calibration) default mode

| | | | |
|---|--|-----------|---|
| 1 | Dimmer | 000-255 | 0 - 100% |
| 2 | Shutter | 000 - 019 | Shutter close |
| | | 020 - 024 | Shutter open |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) |
| | | 065 - 069 | Shutter open |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) |
| | | 085 - 089 | Shutter open |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) |
| | | 105 - 109 | Shutter open |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) |
| | | 125 - 129 | Shutter open |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) |
| | | 145 - 149 | Shutter open |
| | | 150 - 164 | Strobe 6: random closing pulse (fast ⊕ slow) |
| | | 165 - 169 | Shutter open |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) |
| | | 185 - 189 | Shutter open |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) |
| | | 205 - 209 | Shutter open |
| | | 210 - 224 | Strobe 9: sine wave (fast ⊕ slow) |
| | | 225 - 229 | Shutter open |
| | | 230 - 244 | Strobe 10: burst (fast ⊕ slow) |
| | | 245 - 255 | Shutter open |
| 3 | Duration (only affects to channel 2 - Strobe 1 025-064) | 000-255 | 0 - 100% |
| 4 | Red | 000-255 | 0 - 100% |
| 5 | Green | 000-255 | 0 - 100% |
| 6 | Blue | 000-255 | 0 - 100% |
| 7 | CTC (affects RGB) | 000 - 004 | 5600K |
| | | 005-226 | 2000K-6500K linear in 20-21K steps |
| | | 182-182 | 5600K |
| | | 226-226 | 6500K |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps |
| 8 | Tint (affects CTC and RGB) | 0 | no function |
| | | 001-127 | Magenta -> Neutral |
| | | 128-128 | Neutral |
| | | 129-255 | Neutral -> Green |
| 9 | Color Macro (override RGB/CTC) | | Please use color macros from ROXX color macro chart |

according to CTC chart

| | | | | |
|----|---|-----------|--|--|
| 10 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | No function | |
| | | 006-105 | 0,1s - 10s (0,1s steps) | |
| | | 106-214 | 11s - 119s (1s steps) | |
| | | 215-244 | 2m - 4m50s (10s steps) | |
| | | 245-255 | 5m - 15m (1m steps) | |
| 11 | Device Settings (please see remark *1) | 000-029 | No function | |
| | | 030-034 | Linear Dimmer Curve (hold 3s) | |
| | | 035-039 | Exponential Dimmer Curve (hold 3s) | |
| | | 040-044 | Logarithmic Dimmer Curve (hold 3s) | |
| | | 045-049 | S-Curve Dimmer Curve (hold 3s) | |
| | | 050-054 | Dimmer Response LED (Hold 1,5s) | |
| | | 055-059 | Dimmer Response Halogen (Hold 1,5s) | |
| | | 060-094 | No function | |
| | | 095-099 | LED Frequency 800Hz (hold 3s) | |
| | | 100-104 | LED Frequency 1200Hz (hold 3s) | |
| | | 105-109 | LED Frequency 2000Hz (hold 3s) | |
| | | 110-114 | LED Frequency 3600Hz (hold 3s) | |
| | | 115-119 | LED Frequency 12kHz (hold 3s) | |
| | | 120-124 | LED Frequency 25kHz (hold 3s) | |
| | | 125-129 | No function | |
| | | 130-134 | Runtime Off (hold 3s) | |
| | | 135-139 | Runtime 8h (hold 3s) | |
| | | 140-144 | Runtime 12h (hold 3s) | |
| | | 145-149 | Runtime 16h (hold 3s) | |
| | | 150-154 | Runtime 20h (hold 3s) | Redshift affects only between 2700-3500K |
| | | 155-159 | No function | |
| | | 160-164 | Redshift On (Hold 1,5s) | |
| | | 165-169 | Redshift Off (Hold 1,5s) | |
| | | 170-174 | Full Calibration (Colors & CCT / Hold 3s) | |
| | | 175-179 | CCT Calibration (CCT only / RAW Colors / Hold 3s) | |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults | |
| | | 185-189 | User Reset (hold 3s) - except User Colors | |
| | | 190-255 | No function | |

14 CH RGB Mode (Color Calibration)

| Ch. | Function | Value | Setting |
|-----|-------------------------------------|-----------|---|
| 1 | Dimmer | 000-255 | 0 - 100% |
| 2 | Dimmer Fine | 000-255 | 0 - 100% |
| 3 | Shutter | 000 - 019 | Shutter close |
| | | 020 - 024 | Shutter open |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) |
| | | 065 - 069 | Shutter open |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕) |
| | | 085 - 089 | Shutter open |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) |
| | | 105 - 109 | Shutter open |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) |
| | | 125 - 129 | Shutter open |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) |
| | | 145 - 149 | Shutter open |
| | | 150 - 164 | Strobe 6: random closing pulse (fast ⊕ slow) |
| | | 165 - 169 | Shutter open |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) |
| | | 185 - 189 | Shutter open |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) |
| | | 205 - 209 | Shutter open |
| | | 210 - 224 | Strobe 9: sine wave (fast ⊕ slow) |
| | | 225 - 229 | Shutter open |
| | | 230 - 244 | Strobe 10: burst (fast ⊕ slow) |
| | | 245 - 255 | Shutter open |
| 4 | Red | 000-255 | 0 - 100% |
| 5 | Red Fine | 000-255 | 0 - 100% |
| 6 | Green | 000-255 | 0 - 100% |
| 7 | Green Fine | 000-255 | 0 - 100% |
| 8 | Blue | 000-255 | 0 - 100% |
| 9 | Blue Fine | 000-255 | 0 - 100% |
| 10 | CTC (affects RGB) | 000 - 004 | 5600K |
| | | 005-226 | 2000K-6500K linear in 20-21K steps |
| | | 182-182 | 5600K |
| | | 226-226 | 6500K |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps |
| 11 | Tint (affects CTC and RGB) | 0 | no function |
| | | 001-127 | Magenta -> Neutral |
| | | 128-128 | Neutral |
| | | 129-255 | Neutral -> Green |
| 12 | Color Macro (override RGB+Fine/CTC) | | Please use color macros from ROXX color macro chart |

according to CTC chart

| | | | | | |
|----------------------------------|---|-----------|--|--|--|
| 13 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | No function | | |
| | | 006-105 | 0,1s - 10s (0,1s steps) | | |
| | | 106-214 | 11s - 119s (1s steps) | | |
| | | 215-244 | 2m - 4m50s (10s steps) | | |
| | | 245-255 | 5m - 15m (1m steps) | | |
| 14 | Device Settings (please see remark *1) | 000-029 | No function | | |
| | | 030-034 | Linear Dimmer Curve (hold 3s) | | |
| | | 035-039 | Exponential Dimmer Curve (hold 3s) | | |
| | | 040-044 | Logarithmic Dimmer Curve (hold 3s) | | |
| | | 045-049 | S-Curve Dimmer Curve (hold 3s) | | |
| | | 050-054 | Dimmer Response LED (Hold 1,5s) | | |
| | | 055-059 | Dimmer Response Halogen (Hold 1,5s) | | |
| | | 060-094 | No function | | |
| | | 095-099 | LED Frequency 800Hz (hold 3s) | | |
| | | 100-104 | LED Frequency 1200Hz (hold 3s) | | |
| | | 105-109 | LED Frequency 2000Hz (hold 3s) | | |
| | | 110-114 | LED Frequency 3600Hz (hold 3s) | | |
| | | 115-119 | LED Frequency 12kHz (hold 3s) | | |
| | | 120-124 | LED Frequency 25kHz (hold 3s) | | |
| | | 125-129 | No function | | |
| | | 130-134 | Runtime Off (hold 3s) | | |
| | | 135-139 | Runtime 8h (hold 3s) | | |
| | | 140-144 | Runtime 12h (hold 3s) | | |
| | | 145-149 | Runtime 16h (hold 3s) | | |
| | | 150-154 | Runtime 20h (hold 3s) | | |
| | | 155-159 | No function | | |
| | | 160-164 | Redshift On (Hold 1,5s) | Redshift affects only between 2700-3500K | |
| | | 165-169 | Redshift Off (Hold 1,5s) | | |
| | | 170-174 | Full Calibration (Colors & CCT / Hold 3s) | | |
| | | 175-179 | CCT Calibration (CCT only / RAW Colors / Hold 3s) | | |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults | | |
| | | 185-189 | User Reset (hold 3s) - except User Colors | | |
| | | 190-255 | No function | | |
| | | | | | |
| 4 CH - DIRECT MODE (RAW Balance) | | | | | |
| Ch. | Function | Value | Setting | | |
| 1 | Red | 000-255 | 0 - 100% | | |
| 2 | Green | 000-255 | 0 - 100% | | |
| 3 | Blue | 000-255 | 0 - 100% | | |
| 4 | Lime | 000-255 | 0 - 100% | | |

8 CH - DIRECT MODE (RAW Balance)

| Ch. | Function | Value | Setting |
|-----|------------|---------|----------|
| 1 | Red | 000-255 | 0 - 100% |
| 2 | Red Fine | 000-255 | 0 - 100% |
| 3 | Green | 000-255 | 0 - 100% |
| 4 | Green Fine | 000-255 | 0 - 100% |
| 5 | Blue | 000-255 | 0 - 100% |
| 6 | Blue Fine | 000-255 | 0 - 100% |
| 7 | Lime | 000-255 | 0 - 100% |
| 8 | Lime Fine | 000-255 | 0 - 100% |

11 CH - DIRECT MODE (RAW Balance)

| Ch. | Function | Value | Setting |
|-----|----------|-----------|--|
| 1 | Dimmer | 000-255 | 0 - 100% |
| 2 | Shutter | 000 - 019 | Shutter close |
| | | 020 - 024 | Shutter open |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) |
| | | 065 - 069 | Shutter open |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) |
| | | 085 - 089 | Shutter open |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) |
| | | 105 - 109 | Shutter open |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) |
| | | 125 - 129 | Shutter open |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) |
| | | 145 - 149 | Shutter open |
| | | 150 - 164 | Strobe 6: random closing pulse (fast ⊕ slow) |
| | | 165 - 169 | Shutter open |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) |
| | | 185 - 189 | Shutter open |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) |
| | | 205 - 209 | Shutter open |
| | | 210 - 224 | Strobe 9: sine wave (fast ⊕ slow) |
| | | 225 - 229 | Shutter open |
| | | 230 - 244 | Strobe 10: burst (fast ⊕ slow) |
| | | 245 - 255 | Shutter open |
| 3 | Red | 000-255 | 0 - 100% |
| 4 | Green | 000-255 | 0 - 100% |
| 5 | Blue | 000-255 | 0 - 100% |
| 6 | Lime | 000-255 | 0 - 100% |

| | | | | |
|----|--|-----------|--|------------------------|
| 7 | CTC (affects RGBL) | 000 - 004 | RAW | according to CTC chart |
| | | 005-226 | 2000K-6500K linear in 20-21K steps | |
| | | 182-182 | 5600K | |
| | | 226-226 | 6500K | |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps | |
| 8 | Tint (affects CTC and RGBL) | 0 | no function | |
| | | 001-127 | Magenta -> Neutral | |
| | | 128-128 | Neutral | |
| | | 129-255 | Neutral -> Green | |
| 9 | Color Macro (override RGBL/CTC) | | Please use color macros from ROXX color macro chart | |
| 10 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | No function | |
| | | 006-105 | 0,1s - 10s (0,1s steps) | |
| | | 106-214 | 11s - 119s (1s steps) | |
| | | 215-244 | 2m - 4m50s (10s steps) | |
| | | 245-255 | 5m - 15m (1m steps) | |
| 11 | Device Settings (please see remark *1) | 000-029 | No function | |
| | | 030-034 | Linear Dimmer Curve (hold 3s) | |
| | | 035-039 | Exponential Dimmer Curve (hold 3s) | |
| | | 040-044 | Logarithmic Dimmer Curve (hold 3s) | |
| | | 045-049 | S-Curve Dimmer Curve (hold 3s) | |
| | | 050-054 | Dimmer Response LED (Hold 1,5s) | |
| | | 055-059 | Dimmer Response Halogen (Hold 1,5s) | |
| | | 060-069 | No function | |
| | | 070-074 | RAW Mode (hold 3s) | |
| | | 075-079 | User Calibrated Mode (hold 3s) | |
| | | 080-094 | No function | |
| | | 095-099 | LED Frequency 800Hz (hold 3s) | |
| | | 100-104 | LED Frequency 1200Hz (hold 3s) | |
| | | 105-109 | LED Frequency 2000Hz (hold 3s) | |
| | | 110-114 | LED Frequency 3600Hz (hold 3s) | |
| | | 115-119 | LED Frequency 12kHz (hold 3s) | |
| | | 120-124 | LED Frequency 25kHz (hold 3s) | |
| | | 125-129 | No function | |

| | | | | |
|-----------------------------------|--|-----------|--|--|
| 11 | Device Settings (please see remark *1) | 130-134 | Runtime Off (hold 3s) | |
| | | 135-139 | Runtime 8h (hold 3s) | |
| | | 140-144 | Runtime 12h (hold 3s) | |
| | | 145-149 | Runtime 16h (hold 3s) | |
| | | 150-154 | Runtime 20h (hold 3s) | |
| | | 155-159 | No function | |
| | | 160-164 | Redshift On (Hold 1,5s) | Redshift affects only between 2700-3500K |
| | | 165-169 | Redshift Off (Hold 1,5s) | |
| | | 170-179 | No function | |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults | |
| | | 185-189 | User Reset (hold 3s) - except User Colors | |
| | | 190-255 | No function | |
| | | 185-189 | User Reset (hold 3s) - except User Colors. | |
| | | 190-255 | No function | |
| | | | | |
| 16 CH - DIRECT MODE (RAW Balance) | | | | |
| Ch. | Function | Value | Setting | |
| 1 | Dimmer | 000-255 | 0 - 100% | |
| 2 | Dimmer Fine | 000-255 | 0 - 100% | |
| 3 | Shutter | 000 - 019 | Shutter close | |
| | | 020 - 024 | Shutter open | |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) | |
| | | 065 - 069 | Shutter open | |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) | |
| | | 085 - 089 | Shutter open | |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) | |
| | | 105 - 109 | Shutter open | |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) | |
| | | 125 - 129 | Shutter open | |
| | | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) | |
| | | 145 - 149 | Shutter open | |
| | | 150 - 164 | Strobe 6:random closing pulse (fast ⊕ slow) | |
| | | 165 - 169 | Shutter open | |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) | |
| | | 185 - 189 | Shutter open | |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) | |
| | | 205 - 209 | Shutter open | |
| | | 210 - 224 | Strobe 9:sine wave (fast ⊕ slow) | |
| | | 225 - 229 | Shutter open | |
| 3 | Shutter | 230 - 244 | Strobe 10: burst (fast ⊕ slow) | |
| | | 245 - 255 | Shutter open | |
| 4 | Red | 000-255 | 0 - 100% | |
| 5 | Red Fine | 000-255 | 0 - 100% | |

| | | | | | |
|----|--|-----------|---|--|------------------------|
| 6 | Green | 000-255 | 0 - 100% | | |
| 7 | Green Fine | 000-255 | 0 - 100% | | |
| 8 | Blue | 000-255 | 0 - 100% | | |
| 9 | Blue Fine | 000-255 | 0 - 100% | | |
| 10 | Lime | 000-255 | 0 - 100% | | |
| 11 | Lime Fine | 000-255 | 0 - 100% | | |
| 12 | CTC (affects RGBL) | 000 - 004 | RAW | | according to CTC chart |
| | | 005-226 | 2000K-6500K linear in 20-21K steps | | |
| | | 182-182 | 5600K | | |
| | | 226-226 | 6500K | | |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps | | |
| 13 | Tint (affects CTC and RGBL) | 0 | No function | | |
| | | 001-127 | Magenta -> Neutral | | |
| | | 128-128 | Neutral | | |
| | | 129-255 | Neutral -> Green | | |
| 14 | Color Macro (override RGBL,CTC) | | Please use color macros from ROXX color macro chart | | |
| 15 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | No function | | |
| | | 006-105 | 0,1s - 10s (0,1s steps) | | |
| | | 106-214 | 11s - 119s (1s steps) | | |
| | | 215-244 | 2m - 4m50s (10s steps) | | |
| | | 245-255 | 5m - 15m (1m steps) | | |
| 16 | Device Settings (please see remark *1) | 000-029 | No function | | |
| | | 030-034 | Linear Dimmer Curve (hold 3s) | | |
| | | 035-039 | Exponential Dimmer Curve (hold 3s) | | |
| | | 040-044 | Logarithmic Dimmer Curve (hold 3s) | | |
| | | 045-049 | S-Curve Dimmer Curve (hold 3s) | | |
| | | 050-054 | Dimmer Response LED (Hold 1,5s) | | |
| | | 055-059 | Dimmer Response Halogen (Hold 1,5s) | | |
| | | 060-069 | No function | | |
| | | 070-074 | RAW Mode (hold 3s) | | |
| | | 075-079 | User Calibrated Mode (hold 3s) | | |
| | | 080-094 | No function | | |
| | | 095-099 | LED Frequency 800Hz (hold 3s) | | |
| | | 100-104 | LED Frequency 1200Hz (hold 3s) | | |

| | | | | |
|--------------------------------------|--|-----------|--|--|
| 16 | Device Settings (please see remark *1) | 105-109 | LED Frequency 2000Hz (hold 3s) | |
| | | 110-114 | LED Frequency 3600Hz (hold 3s) | |
| | | 115-119 | LED Frequency 12kHz (hold 3s) | |
| | | 120-124 | LED Frequency 25kHz (hold 3s) | |
| | | 125-129 | No function | |
| | | 130-134 | Runtime Off (hold 3s) | |
| | | 135-139 | Runtime 8h (hold 3s) | |
| | | 140-144 | Runtime 12h (hold 3s) | |
| | | 145-149 | Runtime 16h (hold 3s) | |
| | | 150-154 | Runtime 20h (hold 3s) | |
| | | 155-159 | No function | |
| | | 160-164 | Redshift On (Hold 1,5s) | Redshift affects only between 2700-3500K |
| | | 165-169 | Redshift Off (Hold 1,5s) | |
| | | 170-179 | No function | |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults | |
| | | 185-189 | User Reset (hold 3s) - except User Colors | |
| | | 190-255 | No function | |
| | | 170-179 | No function | |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults | |
| | | 185-189 | User Reset (hold 3s) - except User Colors | |
| | | 190-255 | No function | |
| | | | | |
| 3 CH - HSI MODE (Color Calibration) | | | | |
| Ch. | Function | Value | Setting | |
| 1 | Dimmer | 000-255 | 0 - 100% | |
| 2 | Hue | 000-255 | 0° (RED) Thru 360° | |
| 3 | Saturation | 000-255 | 0 - 100% | |
| | | | | |
| 10 CH - HSI MODE (Color Calibration) | | | | |
| Ch. | Function | Value | Setting | |
| 1 | Dimmer | 000-255 | 0 - 100% | |
| 2 | Dimmer Fine | 000-255 | 0 - 100% | |
| 3 | Shutter | 000 - 019 | Shutter close | |
| | | 020 - 024 | Shutter open | |
| | | 025 - 064 | Strobe 1 (fast ⊕ slow) | |
| | | 065 - 069 | Shutter open | |
| | | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) | |
| | | 085 - 089 | Shutter open | |
| | | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) | |
| | | 105 - 109 | Shutter open | |
| | | 110 - 124 | Strobe 4: random strobe (fast ⊕ slow) | |
| | | 125 - 129 | Shutter open | |

| | | | | |
|----|--|-----------|---|------------------------|
| 3 | Shutter | 130 - 144 | Strobe 5: random opening pulse (fast ⊕ slow) | |
| | | 145 - 149 | Shutter open | |
| | | 150 - 164 | Strobe 6:random closing pulse (fast ⊕ slow) | |
| | | 165 - 169 | Shutter open | |
| | | 170 - 184 | Strobe 7: burst pulse (fast ⊕ slow) | |
| | | 185 - 189 | Shutter open | |
| | | 190 - 204 | Strobe 8: random burst pulse (fast ⊕ slow) | |
| | | 205 - 209 | Shutter open | |
| | | 210 - 224 | Strobe 9:sine wave (fast ⊕ slow) | |
| | | 225 - 229 | Shutter open | |
| | | 230 - 244 | Strobe 10: burst (fast ⊕ slow) | |
| | | 245 - 255 | Shutter open | |
| 4 | Hue | 000-255 | 0° (RED) Thru 360° | |
| 5 | Satuation | 000-255 | 0 - 100% | |
| 6 | CTC (affects HUE and Saturation) --> CTC no effect if Saturation to 100% | 000 - 004 | 5600K | according to CTC chart |
| | | 005-226 | 2000K-6500K linear in 20-21K steps | |
| | | 182-182 | 5600K | |
| | | 226-226 | 6500K | |
| | | 227-255 | 6621K-10.000K linear in 120-121K steps | |
| 7 | Tint (affects CTC, HUE and Saturation). --> Tint no effect if Saturation to 100% | 0 | no function | |
| | | 001-127 | Magenta -> Neutral | |
| | | 128-128 | Neutral | |
| | | 129-255 | Neutral -> Green | |
| 8 | Color Macro (override HUE/ SATURATION/CTC) | | Please use color macros from ROXX color macro chart | |
| 9 | Color Macro Crossfade (Transition Time between Color Macros) | 000 - 005 | No function | |
| | | 006-105 | 0,1s - 10s (0,1s steps) | |
| | | 106-214 | 11s - 119s (1s steps) | |
| | | 215-244 | 2m - 4m50s (10s steps) | |
| | | 245-255 | 5m - 15m (1m steps) | |
| 10 | Device Settings (please see remark *1) | 000-029 | No function | |
| | | 030-034 | Linear Dimmer Curve (hold 3s) | |
| | | 035-039 | Exponential Dimmer Curve (hold 3s) | |
| | | 040-044 | Logarithmic Dimmer Curve (hold 3s) | |
| | | 045-049 | S-Curve Dimmer Curve (hold 3s) | |
| | | 050-054 | Dimmer Response LED (Hold 1,5s) | |
| | | 055-059 | Dimmer Response Halogen (Hold 1,5s) | |
| | | 060-094 | No function | |
| | | 095-099 | LED Frequency 800Hz (hold 3s) | |
| | | 100-104 | LED Frequency 1200Hz (hold 3s) | |
| | | 105-109 | LED Frequency 2000Hz (hold 3s) | |
| | | 110-114 | LED Frequency 3600Hz (hold 3s) | |
| | | 115-119 | LED Frequency 12kHz (hold 3s) | |

| | | | | |
|----|--|---------|---|--|
| 10 | Device Settings (please see remark *1) | 120-124 | LED Frequency 25kHz (hold 3s) | |
| | | 125-129 | No function | |
| | | 130-134 | Runtime Off (hold 3s) | |
| | | 135-139 | Runtime 8h (hold 3s) | |
| | | 140-144 | Runtime 12h (hold 3s) | |
| | | 145-149 | Runtime 16h (hold 3s) | |
| | | 150-154 | Runtime 20h (hold 3s) | |
| | | 155-159 | No function | |
| | | 160-164 | Redshift On (Hold 1,5s) | Redshift affects only between 2700-3500K |
| | | 165-169 | Redshift Off (Hold 1,5s) | |
| | | 170-174 | Full Calibration (Colors & CCT / Hold 3s) | |
| | | 175-179 | CCT Calibration (CCT only / RAW Colors / Hold 3s) | |
| | | 180-184 | Factory Reset (hold 3s) - except User Reset defaults | |
| | | 185-189 | User Reset (hold 3s) - except User Colors | |
| | | 190-255 | No function | |
| | remark *1 | | After adjustments please set the value back to 000 to avoid any disturbance by endless function call. | |

7.5 Color Macro Chart for DMX

| Gels - Color Macros for DMX | | |
|-----------------------------|-------------------|----------------|
| DMX value | Gel Name | Color Number |
| 000-005 | no function | |
| 006-008 | Red | 100% Red LED |
| 009-011 | Fire | LEE 019 |
| 012-014 | Medium Red | LEE 027 |
| 015-017 | Primary Red | LEE 106 |
| 018-020 | Med Amber | LEE 020 |
| 021-023 | Dark Amber | LEE 022 |
| 024-026 | Deep Amber | LEE 104 |
| 027-029 | Orange | LEE 105 |
| 030-032 | Deep Golden Amber | LEE 135 |
| 033-035 | Yellow | LEE 101 |
| 036-038 | Green | 100% Green LED |
| 039-041 | Lime Green | LEE 088 |
| 042-044 | Moss Green | LEE 089 |
| 045-047 | LEE Green | LEE 121 |
| 048-050 | Primary Green | LEE 139 |
| 051-053 | Jas Green | LEE 738 |
| 054-056 | Jade | LEE 323 |
| 057-059 | Blue | 100% Blue LED |
| 060-062 | Sky Blue | LEE 068 |
| 063-065 | Tokyo Blue | LEE 071 |
| 066-068 | Light Blue | LEE 118 |
| 069-071 | Marine Blue | LEE 131 |
| 072-074 | Med Blue | LEE 132 |
| 075-077 | Congo Blue | LEE 181 |
| 078-080 | Mikkel Blue | LEE 716 |
| 081-083 | Rose Pink | LEE 002 |
| 084-086 | Med Pink | LEE 036 |
| 087-089 | Light Lavender | LEE 052 |
| 090-092 | Lavender | LEE 058 |
| 093-095 | Magenta | LEE 113 |
| 096-098 | Mauve | LEE 126 |
| 099-101 | Smokey Pink | LEE 127 |

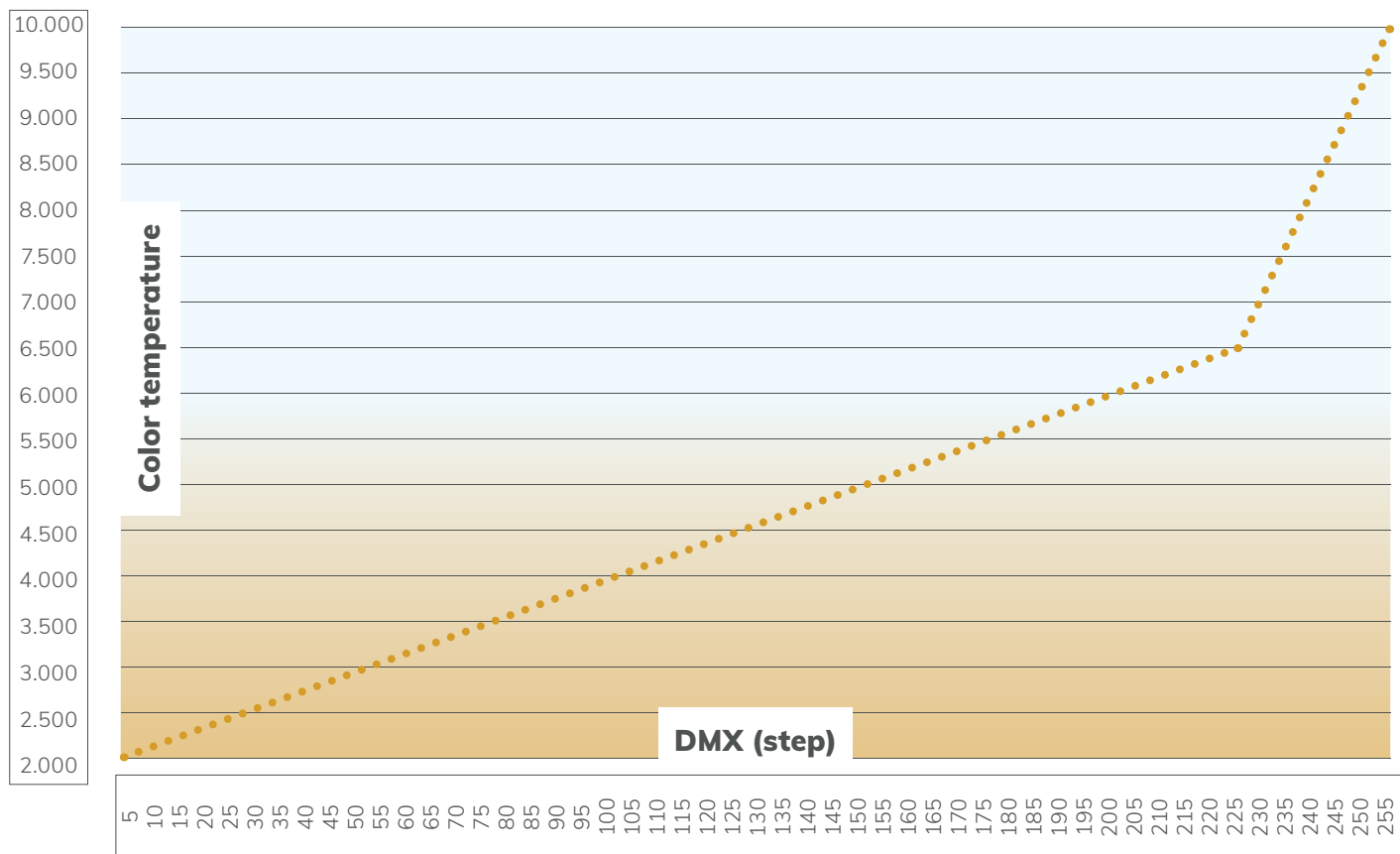
| Gels - Color Macros for DMX | | |
|-----------------------------|--|-----------------------------------|
| DMX value | Gel Name | Color Number |
| 102-104 | Special Med Lavender | LEE 343 |
| 105-107 | Ultimate Violet | LEE 707 |
| 108-110 | Magical Magenta | LEE 795 |
| 111-113 | Chrysalis Pink | LEE 798 |
| 114-116 | Specia KH Lavender | LEE 799 |
| 117-119 | Bulb White | 2700K |
| 120-122 | Halogen White | 3200K |
| 123-125 | Neutral White | 4200K |
| 126-128 | Daylight White | 5600K |
| 129-131 | Cold White I | 6000K |
| 132-134 | Cold White II | 6300K |
| 135-137 | White (if not availble use no function) | 100% White LED |
| 138-140 | Amber (if not availble use no function) | 100% Amber LED |
| 141-143 | Lime (if not availble use no function) | 100% Lime LED |
| 144-146 | Cyan (if not availble use no function) | 100% Cyan LED |
| 147-149 | User Color 1 | (if not availble use no function) |
| 150-152 | User Color 2 | (if not availble use no function) |
| 153-155 | User Color 3 | (if not availble use no function) |
| 156-158 | User Color 4 | (if not availble use no function) |
| 159-161 | User Color 5 | (if not availble use no function) |
| 162-164 | Color Jumping stop | |
| 165-209 | Color Jumping speed slow @ fast | color 1-37 |
| 210-255 | Color fading speed slow @ fast | color 1-37 |

7.5 Color Macro Chart for Stand Alone

| Gels - Color Macros for Standalone Mode | | |
|---|-------------------|----------------|
| Position | Gel Name | Color Number |
| 1 | Red | 100% Red LED |
| 2 | Fire | LEE 019 |
| 3 | Medium Red | LEE 027 |
| 4 | Primary Red | LEE 106 |
| 5 | Med Amber | LEE 020 |
| 6 | Dark Amber | LEE 022 |
| 7 | Deep Amber | LEE 104 |
| 8 | Orange | LEE 105 |
| 9 | Deep Golden Amber | LEE 135 |
| 10 | Yellow | LEE 101 |
| 11 | Green | 100% Green LED |
| 12 | Lime Green | LEE 088 |
| 13 | Moss Green | LEE 089 |
| 14 | LEE Green | LEE 121 |
| 15 | Primary Green | LEE 139 |
| 16 | Jas Green | LEE 738 |
| 17 | Jade | LEE 323 |
| 18 | Blue | 100% Blue LED |
| 19 | Sky Blue | LEE 068 |
| 20 | Tokyo Blue | LEE 071 |
| 21 | Light Blue | LEE 118 |
| 22 | Marine Blue | LEE 131 |
| 23 | Med Blue | LEE 132 |
| 24 | Congo Blue | LEE 181 |
| 25 | Mikkel Blue | LEE 716 |
| 26 | Rose Pink | LEE 002 |
| 27 | Med Pink | LEE 036 |
| 28 | Light Lavender | LEE 052 |

| Gels - Color Macros for Standalone Mode | | |
|---|---------------------------|----------------|
| Position | Gel Name | Color Number |
| 29 | Lavender | LEE 058 |
| 30 | Magenta | LEE 113 |
| 31 | Mauve | LEE 126 |
| 32 | Smokey Pink | LEE 127 |
| 33 | Special Med Lavender | LEE 343 |
| 34 | Ultimate Violet | LEE 707 |
| 35 | Magical Magenta | LEE 795 |
| 36 | Chrysalis Pink | LEE 798 |
| 37 | Specia KH Lavender | LEE 799 |
| 38 | Bulb White | 2700K |
| 39 | Halogen White | 3200K |
| 40 | Neutral White | 4200K |
| 41 | Daylight White | 5600K |
| 42 | Cold White I | 6000K |
| 43 | Cold White II | 6300K |
| 44 | Amber (only if available) | 100% Amber LED |
| 45 | Lime (only if available) | 100% Lime LED |
| 46 | Cyan (only if available) | 100% Cyan LED |

7.5 CTC channel DMX / Color temperature



7.5 CTC-Chart

| DMX (Step) | Color Temp (°K) | DMX (Step) | Color Temp (°K) | DMX (Step) | Color Temp (°K) | DMX (Step) | Color Temp (°K) | DMX (Step) | Color Temp (°K) | DMX (Step) | Color Temp (°K) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 0 | 5600 | 43 | 2774 | 86 | 3649 | 129 | 4525 | 172 | 5400 | 215 | 6276 |
| 1 | 5600 | 44 | 2794 | 87 | 3670 | 130 | 4545 | 173 | 5421 | 216 | 6296 |
| 2 | 5600 | 45 | 2814 | 88 | 3690 | 131 | 4566 | 174 | 5441 | 217 | 6317 |
| 3 | 5600 | 46 | 2835 | 89 | 3710 | 132 | 4586 | 175 | 5462 | 218 | 6337 |
| 4 | 5600 | 47 | 2855 | 90 | 3731 | 133 | 4606 | 176 | 5482 | 219 | 6357 |
| 5 | 2000 | 48 | 2876 | 91 | 3751 | 134 | 4627 | 177 | 5502 | 220 | 6378 |
| 6 | 2020 | 49 | 2896 | 92 | 3771 | 135 | 4647 | 178 | 5523 | 221 | 6398 |
| 7 | 2041 | 50 | 2916 | 93 | 3792 | 136 | 4667 | 179 | 5543 | 222 | 6419 |
| 8 | 2061 | 51 | 2937 | 94 | 3812 | 137 | 4688 | 180 | 5563 | 223 | 6439 |
| 9 | 2081 | 52 | 2957 | 95 | 3833 | 138 | 4708 | 181 | 5584 | 224 | 6459 |
| 10 | 2102 | 53 | 2977 | 96 | 3853 | 139 | 4729 | 182 | 5604 | 225 | 6480 |
| 11 | 2122 | 54 | 2998 | 97 | 3873 | 140 | 4749 | 183 | 5624 | 226 | 6500 |
| 12 | 2143 | 55 | 3018 | 98 | 3894 | 141 | 4769 | 184 | 5645 | 227 | 6621 |
| 13 | 2163 | 56 | 3038 | 99 | 3914 | 142 | 4790 | 185 | 5665 | 228 | 6741 |
| 14 | 2183 | 57 | 3059 | 100 | 3934 | 143 | 4810 | 186 | 5686 | 229 | 6862 |
| 15 | 2204 | 58 | 3079 | 101 | 3955 | 144 | 4830 | 187 | 5706 | 230 | 6983 |
| 16 | 2224 | 59 | 3100 | 102 | 3975 | 145 | 4851 | 188 | 5726 | 231 | 7103 |
| 17 | 2244 | 60 | 3120 | 103 | 3995 | 146 | 4871 | 189 | 5747 | 232 | 7224 |
| 18 | 2265 | 61 | 3140 | 104 | 4016 | 147 | 4891 | 190 | 5767 | 233 | 7345 |
| 19 | 2285 | 62 | 3161 | 105 | 4036 | 148 | 4912 | 191 | 5787 | 234 | 7466 |
| 20 | 2305 | 63 | 3181 | 106 | 4057 | 149 | 4932 | 192 | 5808 | 235 | 7586 |
| 21 | 2326 | 64 | 3201 | 107 | 4077 | 150 | 4952 | 193 | 5828 | 236 | 7707 |
| 22 | 2346 | 65 | 3222 | 108 | 4097 | 151 | 4973 | 194 | 5848 | 237 | 7828 |
| 23 | 2367 | 66 | 3242 | 109 | 4118 | 152 | 4993 | 195 | 5869 | 238 | 7948 |
| 24 | 2387 | 67 | 3262 | 110 | 4138 | 153 | 5014 | 196 | 5889 | 239 | 8069 |
| 25 | 2407 | 68 | 3283 | 111 | 4158 | 154 | 5034 | 197 | 5910 | 240 | 8190 |
| 26 | 2428 | 69 | 3303 | 112 | 4179 | 155 | 5054 | 198 | 5930 | 241 | 8310 |
| 27 | 2448 | 70 | 3324 | 113 | 4199 | 156 | 5075 | 199 | 5950 | 242 | 8431 |
| 28 | 2468 | 71 | 3344 | 114 | 4219 | 157 | 5095 | 200 | 5971 | 243 | 8552 |
| 29 | 2489 | 72 | 3364 | 115 | 4240 | 158 | 5115 | 201 | 5991 | 244 | 8672 |
| 30 | 2509 | 73 | 3385 | 116 | 4260 | 159 | 5136 | 202 | 6011 | 245 | 8793 |
| 31 | 2529 | 74 | 3405 | 117 | 4281 | 160 | 5156 | 203 | 6032 | 246 | 8914 |
| 32 | 2550 | 75 | 3425 | 118 | 4301 | 161 | 5176 | 204 | 6052 | 247 | 9034 |
| 33 | 2570 | 76 | 3446 | 119 | 4301 | 162 | 5197 | 205 | 6072 | 248 | 9155 |
| 34 | 2590 | 77 | 3466 | 120 | 4342 | 163 | 5217 | 206 | 6093 | 249 | 9276 |
| 35 | 2611 | 78 | 3486 | 121 | 4362 | 164 | 5238 | 207 | 6113 | 250 | 9397 |
| 36 | 2631 | 79 | 3507 | 122 | 4382 | 165 | 5258 | 208 | 6133 | 251 | 9517 |
| 37 | 2652 | 80 | 3527 | 123 | 4403 | 166 | 5278 | 209 | 6154 | 252 | 9638 |
| 38 | 2672 | 81 | 3548 | 124 | 4423 | 167 | 5299 | 210 | 6174 | 253 | 9759 |
| 39 | 2692 | 82 | 3568 | 125 | 4443 | 168 | 5319 | 211 | 6195 | 254 | 9879 |
| 40 | 2713 | 83 | 3588 | 126 | 4464 | 169 | 5339 | 212 | 6215 | 255 | 10000 |
| 41 | 2733 | 84 | 3609 | 127 | 4484 | 170 | 5360 | 213 | 6235 | | |
| 42 | 2753 | 85 | 3629 | 128 | 4505 | 171 | 5380 | 214 | 6256 | | |

7.6 RDM Templates*

The ROXX Show series features support for various RDM functions.

RDM (Remote Device Management) is a protocol enhancement to USITT DMX512 that allows bi-directional communication between the fixtures and the controller over a standard DMX line. This protocol will allow configuration, status monitoring and management. You will need a RDM controller to get control over the supported parameters. See the tables below for supported RDM features.

| | |
|---|---------------------------------------|
| Label: | ROXX B.SHOW mini TW+ / B.SHOW mini FC |
| Model: | B.SHOW mini TW+ / B.SHOW mini FC |
| Manufacturer: | ROXX |
| ID: B.SHOW mini TW+ | 0X6a6a0118xxxx |
| ID: B.SHOW mini FC | 0X6a6a0119xxxx |
| Device ID (B.SHOW mini TW+ / B.SHOW mini FC): | 0118xxxxxxxxx / 0119xxxxxxxxx |

***Note:** During RDM identifying process B.SHOW mini TW+ / B.SHOW mini FC flashes white to blue color alternately.

RDM functions B.SHOW mini TW+

For easy identifying B.SHOW mini TW+ during RDM process the unit will jump from white color to blue color every second.

| PID | Function | Action | Values |
|-----|----------------------|--------------------------|---|
| | DMX Start Adress | Set | 001-512 |
| | DMX Personality | Set | DMX modes |
| | DMX Slots | read | n.a. |
| | Master / Slave | Set | 0= Master / 1= Slave |
| | CRMX Operating Mode | Set (Receive / Transmit) | 0= RX / 1= TX |
| | CRMX Receive Reset | Yes/No | 0= No / 1= Yes |
| | CRMX Transmit Link | Yes/No | 0= No / 1= Yes |
| | CRMX Pass to DMX out | Yes/No | 0= No / 1= Yes |
| | Bluetooth | On/Off | 0= Off / 1= On |
| | Bluetooth Link | Yes/No | 0= No / 1= Yes |
| | Runtime | Set | 0= Off / 1= 4h / 2= 6h / 3= 8h / 4= 10h / 5= 12h / 6= 14h / 7=16h / 8=18h / 9=20h / 10= 22h / 11= 24h |
| | Charging | Set | 0= Continous / 1= Storage |
| | Display Auto Flip | Set | 0= Off / 1= On |
| | Display Backlight | Set | 0= Off / 1= On |
| | Display Lock | Set | 0= Off / 1= On |
| | Startup Mode | Set | 0= DMX / 1= AUTO / 2= Editor / 3= Color Macro / 4= Quick Color / 5= Tunable White / 6= User Color |
| | DMX Fail | Set | 1= Hold / 2= Blackout / 3= Emergency |
| | AC Fail | Set | 1= Hold / 2= Blackout / 3= Emergency |
| | Dimmer Curve | Set | 1= Linear / 2= Exponential / 3= Logarithmic / 4= S-Curve |
| | Dimmer Response | Set | 1= LED / 2= Halogen |

| | | | |
|--|-------------------------|--------|--|
| | Color Calibration | Set | 0=Full Calibration / 1=CCT Calibration |
| | RAW Balance | Set | 0= RAW / 1= User Calibration |
| | User Calibration- Red | Set | |
| | User Calibration- Green | Set | |
| | User Calibration- Blue | Set | |
| | User Calibration- Amber | Set | |
| | User Calibration- Lime | Set | |
| | User Calibration- Cyan | Set | |
| | LED Frequency (PWM) | Set | 1= 800Hz / 2= 1200Hz / 3= 2000Hz / 4= 3600Hz / 5= 12kHz / 6= 25kHz |
| | Redshift | Set | 0= Off / 1= On |
| | Factory Reset | Yes/No | 0= No / 1= Yes |
| | User Reset | Yes/No | 0= No / 1= Yes |
| | Firmware Version | Read | n.a. |
| | Serial Number | Read | n.a. |
| | LED Temperature | Read | n.a. |
| | Device Power on Time | Read | n.a. |
| | LED on Time | Read | n.a. |
| | Voltage | Read | n.a. |

RDM functions - B.SHOW mini FC

For easy identifying B.SHOW mini FC mini during RDM process the unit will jump from white color to blue color every second.

| PID | Function | Action | Values |
|-----|----------------------|--------------------------|---|
| | DMX Start Adress | Set | 001-512 |
| | DMX Personality | Set | DMX modes |
| | DMX Slots | read | n.a. |
| | Master / Slave | Set | 0= Master / 1= Slave |
| | CRMX Operating Mode | Set (Receive / Transmit) | 0= RX / 1= TX |
| | CRMX Receive Reset | Yes/No | 0= No / 1= Yes |
| | CRMX Transmit Link | Yes/No | 0= No / 1= Yes |
| | CRMX Pass to DMX out | Yes/No | 0= No / 1= Yes |
| | Bluetooth | On/Off | 0= Off / 1= On |
| | Bluetooth Link | Yes/No | 0= No / 1= Yes |
| | Runtime | Set | 0= Off / 1= 4h / 2= 6h / 3= 8h / 4= 10h / 5= 12h / 6= 14h / 7=16h / 8=18h / 9=20h / 10= 22h / 11= 24h |
| | Charging | Set | 0= Continous / 1= Storage |

| | | | |
|--|-------------------------|--------|---|
| | Display Auto Flip | Set | 0= Off / 1= On |
| | Display Backlight | Set | 0= Off / 1= On |
| | Display Lock | Set | 0= Off / 1= On |
| | Startup Mode | Set | 0= DMX / 1= AUTO / 2= Editor / 3= Color Macro / 4= Quick Color / 5= Tunable White / 6= User Color |
| | DMX Fail | Set | 1= Hold / 2= Blackout / 3= Emergency |
| | AC Fail | Set | 1= Hold / 2= Blackout / 3= Emergency |
| | Dimmer Curve | Set | 1= Linear / 2= Exponential / 3= Logarithmic / 4= S-Curve |
| | Dimmer Response | Set | 1= LED / 2= Halogen |
| | Color Calibration | Set | 0=Full Calibration / 1=CCT Calibration |
| | RAW Balance | Set | 0= RAW / 1= User Calibration |
| | User Calibration- Red | Set | |
| | User Calibration- Green | Set | |
| | User Calibration- Blue | Set | |
| | User Calibration- Lime | Set | |
| | LED Frequency (PWM) | Set | 1= 800Hz / 2= 1200Hz / 3= 2000Hz / 4= 3600Hz / 5= 12kHz / 6= 25kHz |
| | Redshift | Set | 0= Off / 1= On |
| | Factory Reset | Yes/No | 0= No / 1= Yes |
| | User Reset | Yes/No | 0= No / 1= Yes |
| | Firmware Version | Read | n.a. |
| | Serial Number | Read | n.a. |
| | LED Temperature | Read | n.a. |
| | Device Power on Time | Read | n.a. |
| | LED on Time | Read | n.a. |
| | Voltage | Read | n.a. |

Sensors

RDM enables various readouts for remote device monitoring. See the table below for sensors and sensor types. Please note: The RDM controller communicates with the fixtures to show only the available sensors for this fixture. The table is subject to change without notice.

| Name | |
|------------------|--------------|
| Temperature | xx°C / xxx°F |
| Software Version | SW-Version |
| Errors | |

7.7 Firmware Update

To update B.SHOW mini TW+ / B.SHOW mini FC mini to newest firmware, please use ROXX update box and make sure the fixtures are connected to DC power.

Please download update instructions here:
<https://roxxlight.com/support/>

8. TROUBLESHOOTING

Did you try turning the device off and on again?

| Problem | Reason | Solution |
|--------------------------------|---|--|
| Device is not responding. | No power. | Check cable connections and conform that power is switched on. |
| | Fuse defect. | Contact your qualified service technician / manufacturer. |
| Device has turned off. | Power failure or power was turned off. | Check power supply, fuse, connections, switches. |
| Device has stopped responding. | DMX cable correct? | Check cables. |
| | Wireless connection got cut off. | Check wireless transmitter and connection signals. |
| Device operates strangely. | DMX cable inverted (pins correct?) | Use a phase inverter or different cables. |
| | DMX cable terminated? | If not, install DMX termination at the end of the cable. |
| | Stand Alone program running? | Stop internal Stand Alone. |
| No Bluetooth Connectivity | No Bluetooth Connectivity | Please make sure your mobile device is inside the connectivity range of maximum 10-15m. |
| | Bluetooth is disabled at your mobile device | Please enable Bluetooth at your mobile device settings. |
| | Mobile device has wrong Bluetooth Pin | Please use same Bluetooth Pin to connect ROXX. APP with the fixture. Current BLE Pin can be read out inside fixture's wireless DMX settings. |
| | Mobile device has different Bluetooth connectivity | As only one Bluetooth connectivity can be active, please make sure your mobile device is currently not connected to some other devices. |
| | Different mobile device is still connected to the fixture | Please disconnect other mobile device from fixture. |
| | No Bluetooth Advertisement | Please send new BLE advertisement by enable "BLE Link" inside Settings of the fixture. |
| | Bluetooth module has hang up | Please enable Factory Reset at the fixture to re-start the Bluetooth module. |

9. MANUFACTURER'S DECLARATION

Manufacturer's Warranty & Limitations of Liability

Please find our warranty conditions and limitations of liability inside our manufacturer's declaration at www.roxxlight.com/support

Requesting Warranty-Service

To request warranty service for your product, please contact:

ROXX GmbH,

Hansestr. 91, 51149 Köln

Email: info@roxxlight.com or the ROXX authorized reseller in your country, from where you purchased your product.

Correct Disposal of this product



This is for the European Union and European countries with electrical waste collection systems. When this label is shown on the product or brochure it means that the item cannot be disposed with household waste. In order to prevent damage to the environment or human health please do not dispose this product uncontrolled. Make sure to act responsible, recycle this product separately from other types of waste to enable lasting reuse of resources. Private users please contact the retailer where you purchased this product or your local authorities to find out where and how proper recycling of this item is possible. Business users please contact your supplier or check the terms and conditions of your purchasing contract. Make sure not to mix this product with other commercial waste.

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

The device has been evaluated to meet general RF exposure requirement.

The device can be used in the portable exposure condition with restriction

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

CE Compliance

The equipment marketed by ROXX GmbH complies (where applicable) with the essential requirements and other specifications of the following Directives:

- 2014/53/EU (RED)
- 2014/30/EU (EMC)
- 2014/35/EU (LVD)
- 2011/65/EU (RoHS)

The complete EU- and UK-Declaration of Conformity can be found at www.roxxlight.com/support, or you can also request it at info@roxxlight.com

