

E.SHOW TW+



USER MANUAL

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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..



IMPORTANT INFORMATION!

- 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.

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. E.SHOW TW+

ROXX® Entertainment SHOW Series offers very high performance, weatherproof fixtures and features Single-Source-LEDs that produce an incredibly smooth lighting and uniform colors, providing a solution for any requirement. The LED variations range from a Tunable White over to a Full Color to a pure Tungsten and up to a Daylight version. Each one reaching an exceptionally good light quality with high CRI / TLCI and a massive light luminosity.

The E.SHOW TW+ (Tunable White Plus) convinces in every sort of application with excellent white tones and a wide color range due to its 6 color LED engine. The addition of Amber, Lime and Cyan extends the color spectrum by 15%, which immensely increases the light quality and color variety of the fixture. To ensure consistent colors throughout all fixtures and excellent whites as defined by the black body curve, ROXX® Color Calibration performs color matching across the entire range. Thanks to the specially developed ROXX® R.LOK® technology, the lenses can be changed easily and without any tools. This allows the beam angle to be conveniently adjusted, whether from 19°, 36°, 59° or elliptical 17°x24° and 19°x57°.

In addition to DMX and RDM control, Lumenradio's latest Wireless DMX technology (CRMx) enables wireless as well as flexible control plus integrating a Bluetooth interface allows direct controlling via unique ROXX.APP without additional hardware. Covering all possible requirements, the fixture includes an extensive range of accessories including 8-Way Barndoor, Honey Comb, Anti-Glare Shield, various lenses, Gel Frame, Omega Bracket and a specially developed Snapbag® and Snapgrid® by DoPchoice for an extremely even illumination of motifs in front of the camera.

3. GENERAL PRODUCT INFORMATION

3.1. Scope of delivery

- ⊕ 1x E.Show TW+
- ⊕ Power cord with plug (EU country specific, if not ordered differently)
- ⊕ 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

- 3CH CCT, 3/6/9/11/14CH RGB, 6/12/13/20CH DIRECT, 3/10CH HSI
- Stand Alone Functions including cinema effects, various auto programs, customisable scenes, CCT, LEE adjusted color macros and custom color templates (RGBALC)
- 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

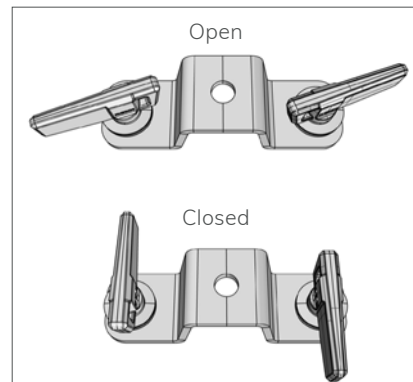
ROXX E.SHOW TW+ may be installed in any orientation. For this purpose the product provides several options:

Standing:

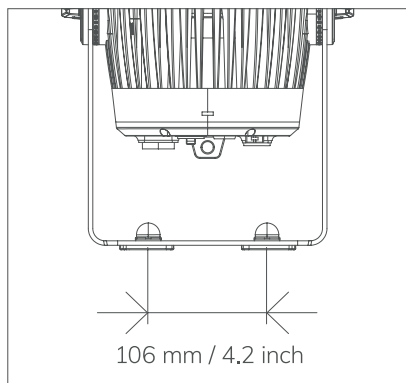
The fixtures yoke with its implemented rubber feet is designed to ensure a secure stand on nearly every plane surface with every possible angle/orientation of the lamp's head. Please take care that supporting surfaces are loadable and stable.

Hanging:

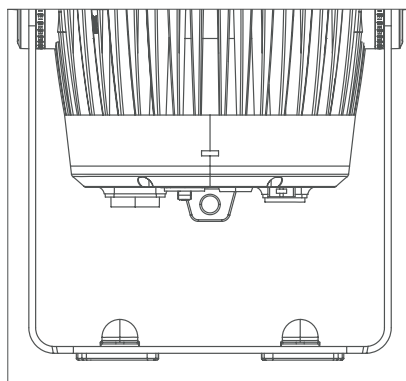
On the bottom the yoke provides 2 Camlock QuickRelease connectors. Here it's possible to click in the ROXX Omega Bracket ST (optional accessory) equipped with any suitable clamp.



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=13mm / 0,51 inch) provides a mounting point for more rigging options like a (Mini-) TV Spigot, to use the E.Show on a tripod or for example with a superclamp.

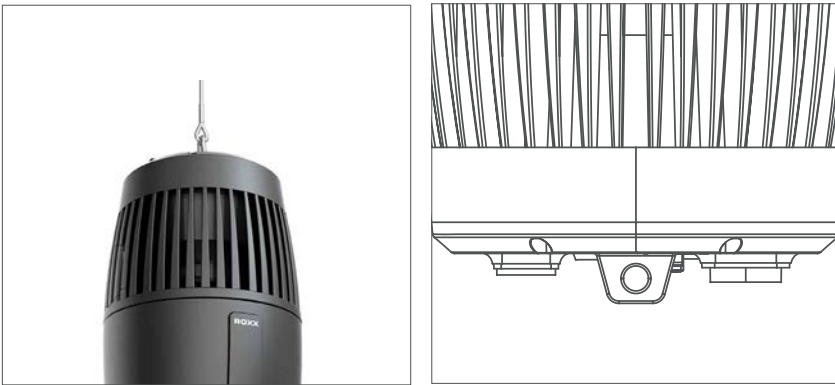


Pendant Light*:

The sophisticated and attractive design of the ROXX E.SHOW TW+ 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 E.Show.

ⓘ 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: GoreTex

F: Safety Eyelet

ⓘ *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. AC Power

The E.SHOW TW+ 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!

4.2.2. DMX Connection

The E.SHOW TW+ 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.

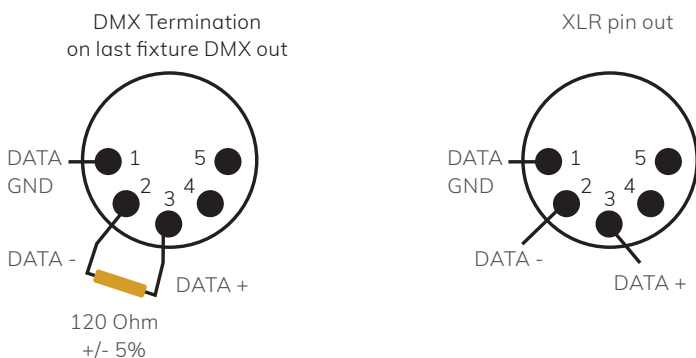
4.2.2.1. Cable Connection

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.

Standard microphone cable is not suitable for transmitting DMX.



4.2.2.2. Wireless Connection*

E.SHOW TW+ 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.

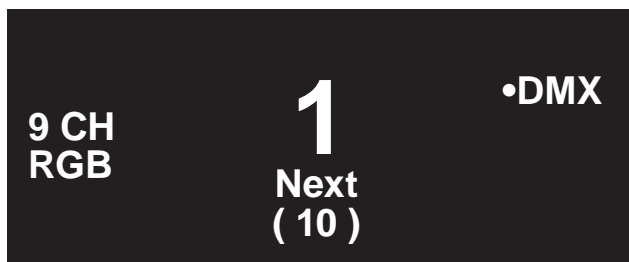
E.SHOW TW+ can act as a fully operative CRMX Receiver and be paired to an active wireless transmitter (CRMX) simultaneously as being connected to a cabled DMX. The device will prioritize cabled DMX input over wireless DMX and over Bluetooth. A small indicator in front of "DMX", "CRMX" or "BLE" gives 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.

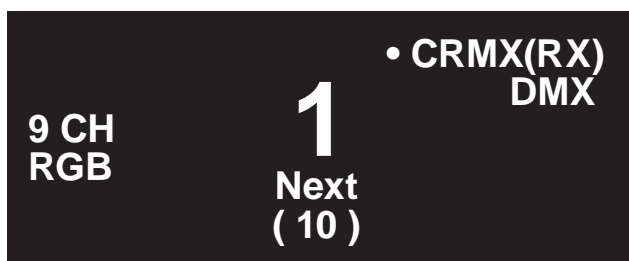
ⓘ ***Note: If you are using XLR for DMX and not Bluetooth we recommend to not connect to Bluetooth unless you need to since it can cause a few dropped DMX packets.**

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.

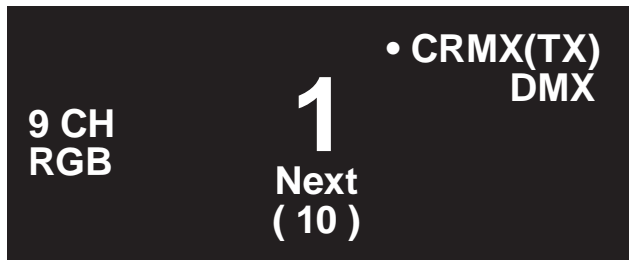


| | | |
|-----------------|----------|---|
| CRMX | Disabled | The indicator in front of "DMX" shows that DMX is active. |
| Operation Mode | n.a. | |
| Linked | No | |
| Receive Reset | No | |
| DMX | Enabled | |
| BLE (Bluetooth) | Disabled | |

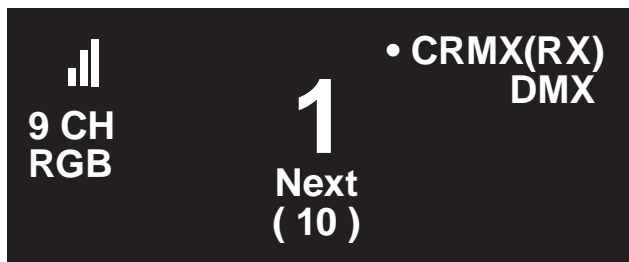


| | | |
|-----------------|------------|---|
| CRMX | Enabled | The indicator in front of "CRMX (RX)" shows that the fixture is now working in wireless DMX receive mode. |
| Operation Mode | RX | |
| Linked | No | |
| Receive Reset | Yes | "(RX)"= CRMX operating mode is set to receive |
| DMX | Disconnect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

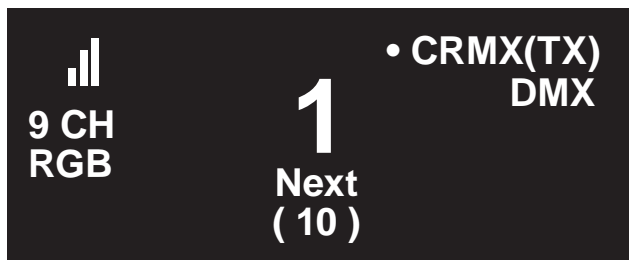
4.2.2.2. Wireless Connection



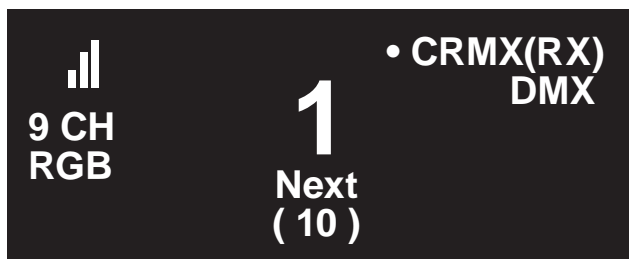
| | | |
|-----------------|------------|--|
| CRMX | Enabled | The indicator in front of "CRMX (TX)" shows that the fixture is now working in wireless DMX transmit mode. |
| Operation Mode | TX | |
| Linked | No | |
| Receive Reset | Yes | "(TX)"= CRMX operating mode is set to transmit |
| DMX | Disconnect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



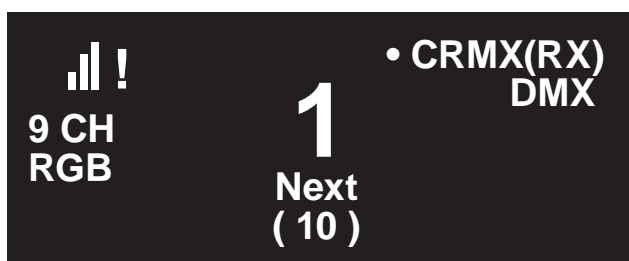
| | | |
|-----------------|------------|---|
| CRMX | Enabled | Once the fixture is linked to an external transmitter, the CRMX signal-symbol appears on upper left side. |
| Operation Mode | RX | |
| Linked | Yes | |
| Receive Reset | Yes | 1 dash= 1-30% signal strength 2 dashes= 31-70% signal strength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

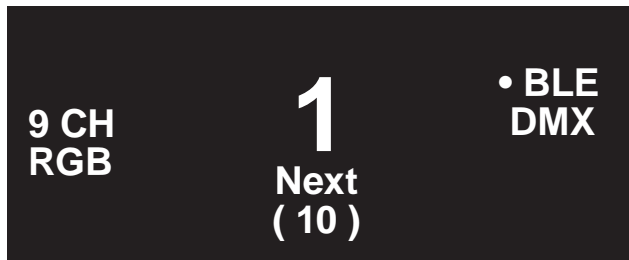


| | | |
|-----------------|-------------------|--|
| CRMX | Enabled | In case the external transmitter is switched off or out of signal range the signal-symbol starts to blink. |
| Operation Mode | RX | |
| Linked | Yes, out of range | |
| Receive Reset | Yes | |
| DMX | Disconnect | |
| BLE (Bluetooth)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

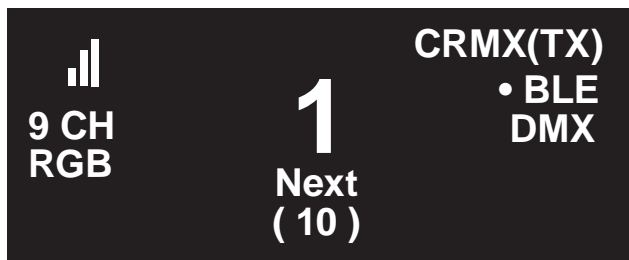


| | | |
|-----------------|-----------------|--|
| CRMX | Enabled | An exclamation appears and blinks although the external transmitter is switched on and is inside the signal range but no DMX is connected to the external transmitter. |
| Operation Mode | RX | |
| Linked | Yes, but no DMX | |
| Receive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

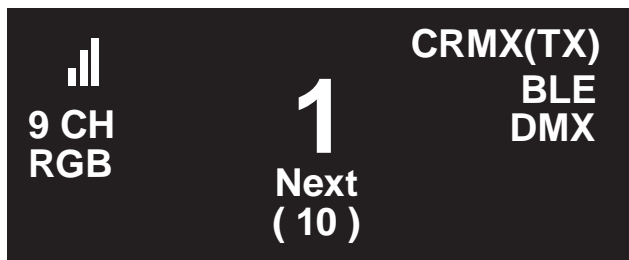
4.2.2.2. Wireless Connection



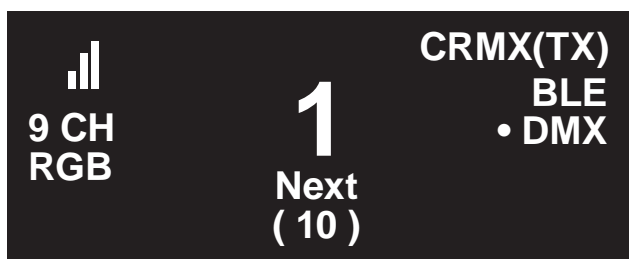
| | | |
|-----------------|------------------|---|
| CRMX | Disabled | The indicator infront of "BLE" shows that the fixture is now working in Bluetooth mode and is paired to ROXX App. |
| Operation Mode | n.a. | |
| Linked | No | |
| Receive Reset | No | |
| DMX | Disconnect | |
| BLE (Bluetooth) |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



| | | |
|-----------------|------------------|---|
| CRMX | Enabled | The indicator infront 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 | |



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



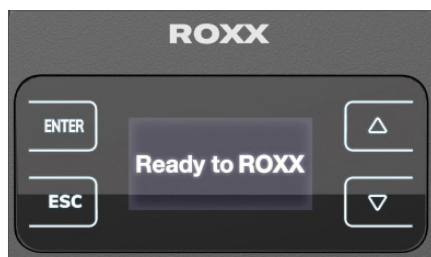
| | | |
|-----------------|---------|--|
| CRMX | Enabled | DMX is active. As CRMX TX is enabled and linked a full DMX universe is send out by CRMX (wireless DMX). |
| Operation Mode | TX | |
| Linked | Yes | |
| Receive Reset | No | |
| DMX | Connect | |
| BLE (Bluetooth) | Enabled | |

5. OPERATION

5.1 Start up*

Once the fixture is connected to AC power, 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.

***Note:**

During boot process the fan spins up quickly to blow out some possible dust from last use.

5.2 Control Display*

OLED Display with Touch-Sensitive controls



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*



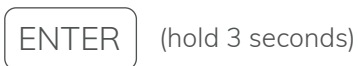
The fixture includes an auto display flip function by default.

To use the manual display flip function please disable the auto flip function under Settings / Display first. Once the auto display flip function is disabled you can 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:

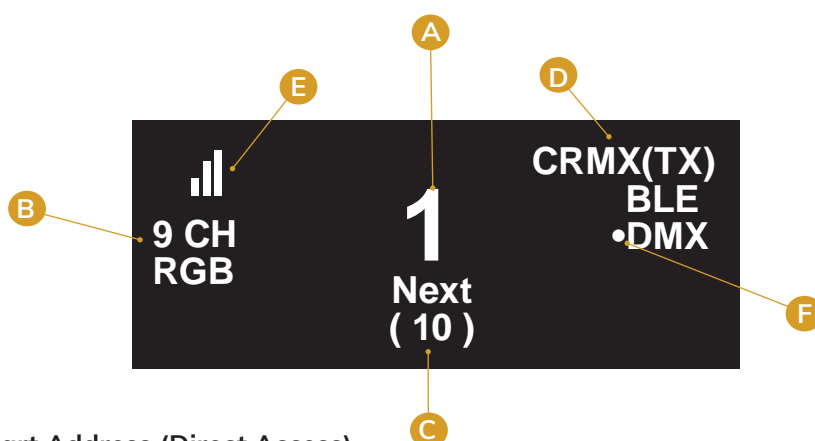
- A** DMX Address
- B** Operating Mode (DMX Mode, Quick Light or Standalone Mode)
- C** Next available DMX address depending on the fixtures DMX footprint
- D** External Data protocol (CRMX, DMX, BLE).
- E** CRMX status and strength
- F** The dot indicates the active protocol

Note:

CRMX (RX) CRMX Receiving Mode

CRMX (TX) CRMX Transmit Mode

BLE Bluetooth enabled



5.4.1 Set DMX Start Address (Direct Access)

At Home Screen the DMX address can be changed directly by using the up and down arrows. During this process the DMX address starts blinking, once it's confirmed by pressing ENTER it stops blinking.

If the DMX address will not be confirmed by ENTER within 10 seconds, the display will jump back and show the DMX address from before and stops blinking.

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

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

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> |

Auto 7-Color Fade

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 (RAW) 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.

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 |

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 "Factory Calibration" is selected under "Color Settings" inside Stand Alone, only values for RGB 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 3

| Editor |
|--------------|
| Program 1 |
| ➡ Program 2 |
| Program 3 |
| Dim <0-100> |
| Stop Program |

Level 4

| Program |
|-------------------|
| ➡ Scene 1 |
| Scene 2 |
| Scene 3 |
| ...max. 24 Scenes |

Level 5

| 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> |

Color Macro*

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

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 Macro |
|-------------------|
| Color Off |
| → Color Macros |
| Color Macro Chart |
| Dim <0-100> |

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 your desired color preset and confirm with ENTER.

At level 3 you can 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 R, G, B, A, L, C, Dimmer and Shutter.

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

| Quick 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> |

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 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

| 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

| Tunable White |
|------------------------------|
| 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.

User Color*

The standalone mode “User Color” allows to store up to 5 customized color presets out of Red, Green, Blue, Amber, Lime and Cyan, brightness and shutter.

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

| User Color |
|------------|
| Color 1 |
| Color 2 |
| Color 3 |
| Color 4 |
| Color 5 |

Level 4

| 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> |

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 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 Factory Calibrated or RAW. Factory color calibration of R, G, B, A, L and C 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 |
|-----------------------------|
| ➤ Factory Calibrated |
| 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.

Once Stand Alone mode is disabled at Master unit the display of Slave unit starts to blink.

5.4.5 Settings

Level 1

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

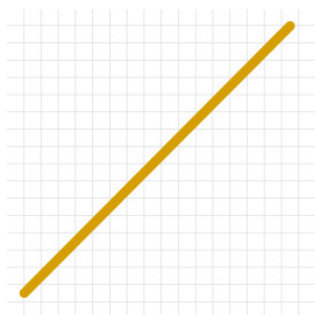
| Main Menu | Menu level 2 | Menu level 3 | Menu level 4 | Description |
|-----------|---|-----------------|--------------------|--|
| Settings | Wireless DMX | CRMX | <on/off> | On=CRMX enabled / Off= CRMX disabled |
| | | Operating Mode | <receive/transmit> | Receive= CRMX module as Receiver Transmit= 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) |
| | 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 minues of incativity 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 | | |
| | DMX 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 |

| Main Menu | Menu level 2 | Menu level 3 | Menu level 4 | Description |
|-----------|---|-----------------|---|---|
| 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. |
| | RAW Balance (affects RAW Mode in DMX and Stand Alone Modes "Editor", "Quick Color" and "User Color". | 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 > | |
| | LED Frequency | 800 Hz | | Select preferred LED PWM frequency |
| | | 1200 Hz | | |
| | | 2000 Hz | | |
| | | 3600 Hz | | |
| | | 12000 Hz | | |
| | | 25000 Hz | | |
| | Fan | Auto | | Adjust fan speed relative to internal fixture temperature, maximum 3000rpm |
| | | Silent | | Low fan speed for silent operation, maximum 2000rpm |
| | | Studio | | Low fan speed for silent operation, maximum 1500rpm |
| | | Fan Off | | Fan Off |
| | | Max. Power | | High fan speed for maximum cooling effect, maximum 4000rpm |
| | Redshift | On / Off | On= Activates Redshift, Off= Deactivates Redshift | Redshift function simulate traditional halogen fixtures while dimming down. Redshift affects only between 2700-3500K. |
| | 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. |

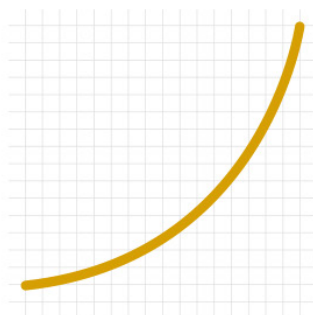
| Main Menu | Menu level 2 | Menu level 3 | Menu level 4 | Menu Level 5 | Description |
|-----------|----------------------|-----------------|--|--|---------------------------------|
| Settings | Factory / User Reset | User Reset List | DMX Mode. 3CH CCT, 3CH RGB, 6CH RGB, 9CH RGB , 11CH RGB, 14CH RGB, 6CH DIRECT, 12CH DIRECT, 13CH DIRECT, 20CH DIRECT, <3CH HSI, 10CH HSI | | Select your User Reset defaults |
| | | | 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> | |
| | | | 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)> | |
| | | | Dimmer Curve | <Linear, Exponential, Logarithmic, S-Curve> | |
| | | | Dimmer Response | <LED, Halogen> | |
| | | | LED Frequency | <800Hz, 1200Hz , 2000Hz, 3600Hz, 12000Hz, 25000Hz> | |
| | | | Redshift | <on/off> | |
| | | | Fan | <Auto, Silent, Studio, Fan Off, Max. Power> | |

Dimmer Curves

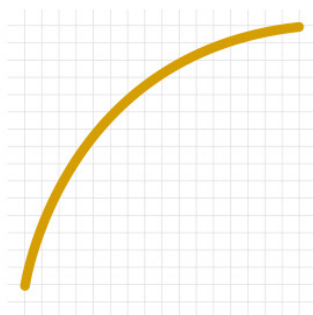
LINEAR



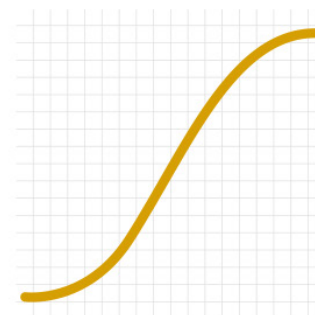
EXPONENTIAL



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 | 102xxxxxxxx | |
| | RDM UID | 0X6a6axxxxxxxxx | 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 |
| | Errors | Errors information | Display error codes |
| | Fan Speed | xxxx RPM | Display the current fan speed |

6. ACCESSORIES

6.1 Lenses

Available lenses for ROXX E.SHOW black with order numbers:



Narrow
Art.: 11207001



Medium
Art.: 11207101



Wide
Art.: 11207201



Elliptical Narrow
Art.: 11207301



Elliptical Wide
Art.: 11208201

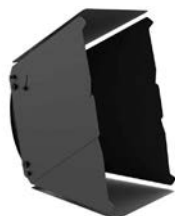
Lens matrix:

| | COLOR CODES E.SHOW | LENS CODE A.SHOW | SHOW TW+ (beam angle / field angle) | SHOW FC (beam angle / field angle) | SHOW T (beam angle / field angle) | SHOW D (beam angle / field angle) |
|----------------------|-----------------------|---------------------|---|--|---|---|
| Circular | | | | | | |
| NARROW | N | N | 19° / 36° | 17° / 34° | 24° / 38° | 24° / 38° |
| MEDIUM | M | M | 36° / 72° | 35° / 70° | 36° / 69° | 36° / 69° |
| WIDE | W | W | 59° / 88° | 59° / 88° | 54° / 85° | 54° / 85° |
| Elliptical | | | | | | |
| ELLIPTICAL NARROW | EN | EN | 17° / 24° 35° / 46° | 16° / 24° 34° / 45° | 21° / 27° 41° / 51° | 21° / 27° 41° / 51° |
| ELLIPTICAL WIDE | EW | EW | 19° / 57° 43° / 81° | 18° / 57° 42° / 80° | 22° / 57° 48° / 82° | 22° / 57° 48° / 82° |

6.2 More accessories



Accessory Holder
Art.: 11907401



8-way barndoor
Art.: 11907501



Honey comb
Art.: 11907601



Gel-frame
Art.: 11907701



Omega Bracket ST
Art.: 90900002



Softbox by DoPchoice
Art.: 11908301



Snapgrid by DoPchoice
Art.: 11908301



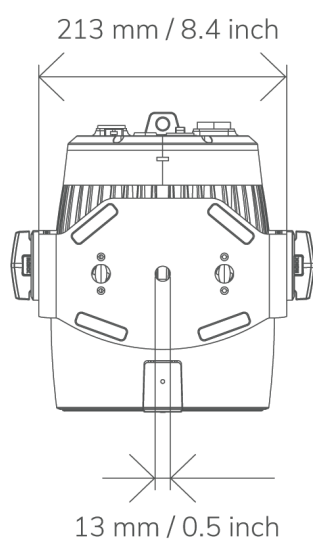
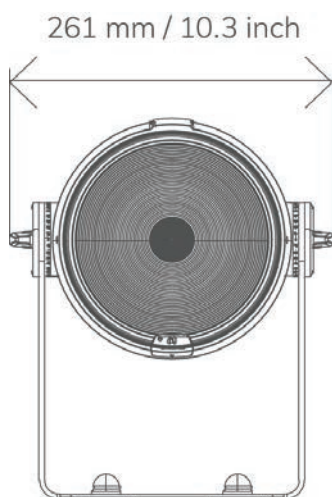
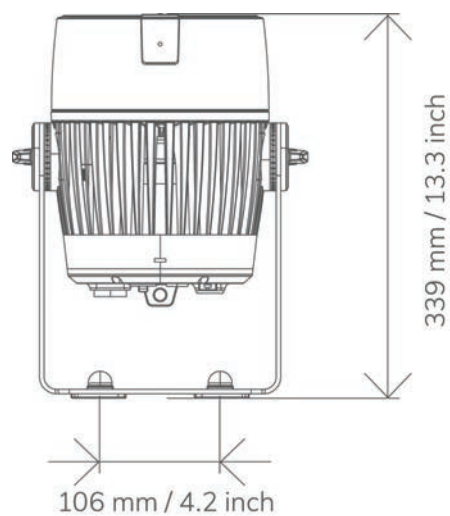
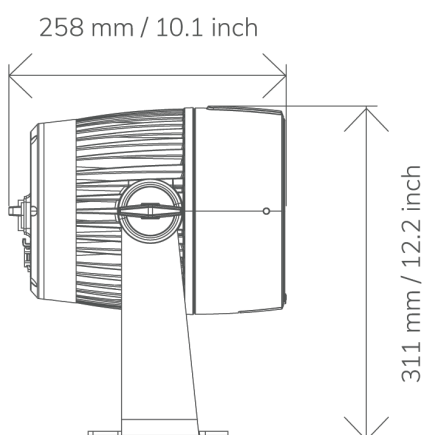
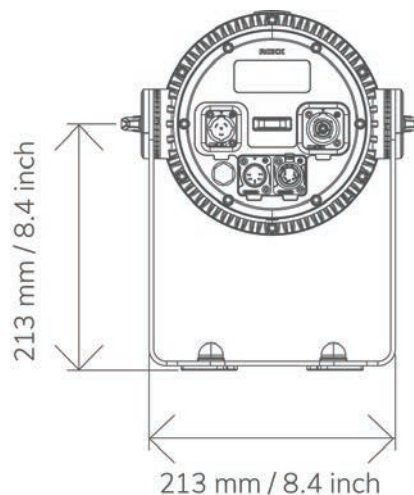
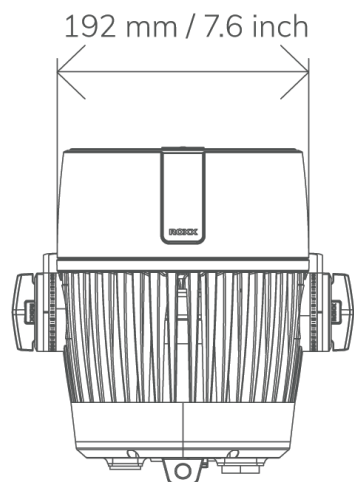
Full anti-glare shield
Art.: 11208401



Touring case 8
Art.: 11908001

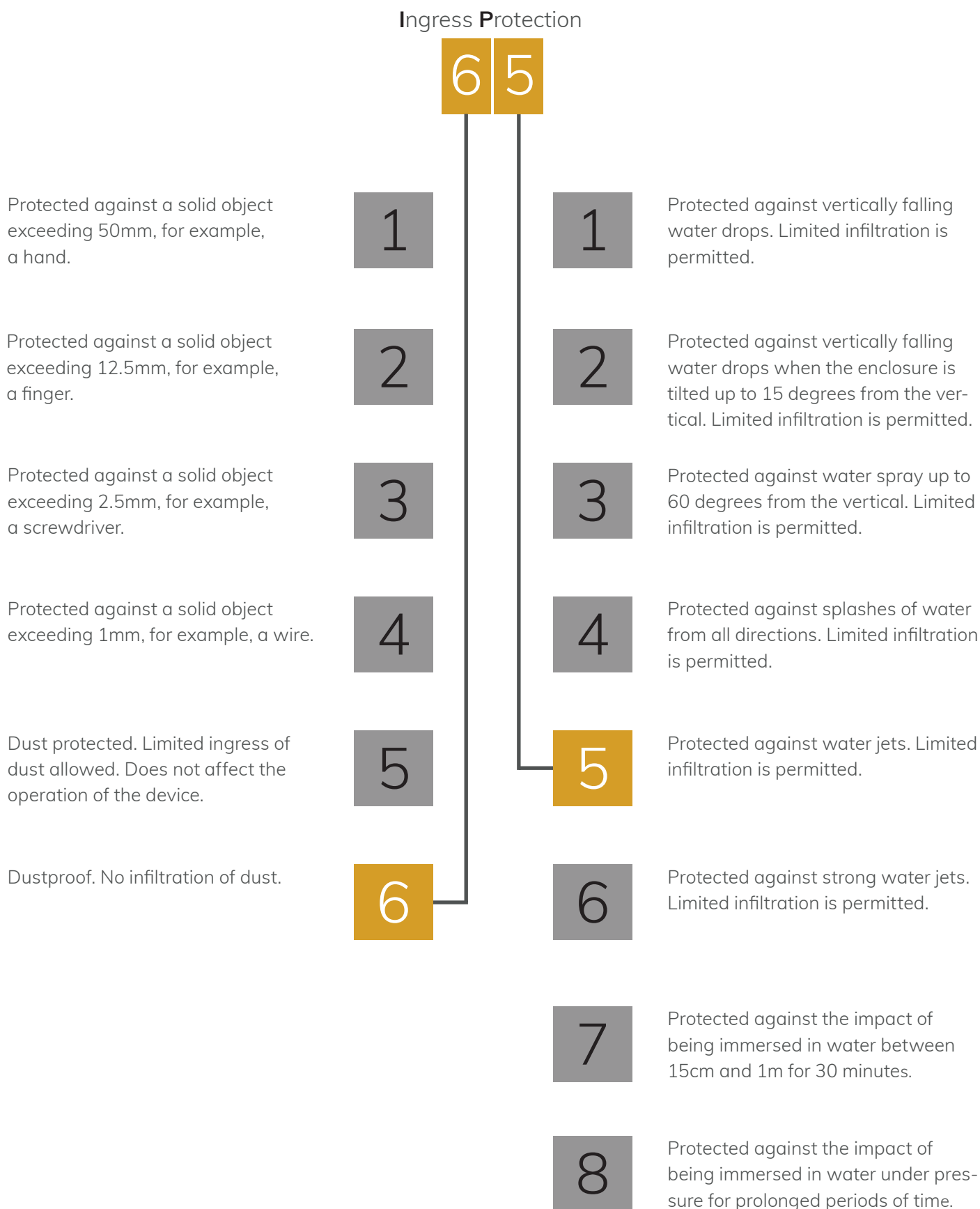
7. TECHNICAL DATA / DIAGRAMS

7.1 Technical drawings and measurements



7.2 IP Rating

ROXX products conform to officially classified IP standard levels. E.SHOW TW+ 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

| Photometrics | |
|---|--|
| LED expected lifetime | 50.000 hours |
| Lightsource | 1x230W RGBALC |
| Type of optical system | reflector + interchangeable lens plates |
| LED PWM Frequency | selectable 800Hz, 1200Hz, 2000Hz, 3600Hz, 12kHz, 25kHz |
| Beam angles (50%) | 19° (with narrow lens) 36° (with medium lens) 59° (with wide lens) 17°x24° (with elliptical narrow lens) 19°x57° (with elliptical wide lens) |
| Maximum Field angles (10%) | 36° (with narrow lens) 72° (with medium lens) 88° (with wide lens) 35°x46° (with elliptical-narrow lens) 43°x81° (with elliptical-wide lens) |
| Color temperature range | 2.000K – 10.000K |
| Efficacy (max) | 49,8 lm/W |
| CRI/RA | 97 |
| TLCI | 98 |
| TM-30-15 | Rf 96 / Rg 103 |
| Luminous flux | 9049 lm |
| illuminance Lux @ 5m (narrow lens) | 1690 lx |
| illuminance Lux @ 5m (medium lens) | 471 lx |
| illuminance Lux @ 5m (wide lens) | 251 lx |
| illuminance Lux @ 5m (elliptical-narrow lens) | 1191 lx |
| illuminance Lux @ 5m (elliptical-wide lens) | 490 lx |
| Thermal Characteristics | |
| Cooling | Active, Forced Air, Temperature-regulated |
| Humidity (max.) | 95% |
| Temperature range, Operating | -20°C to 45°C |
| Temperature range, Start-up | -20°C to 50°C |
| Temperature range, Storage | -20°C to 80°C |
| Thermal Protection | Automatic overtemperature protection |
| Electrical Data | |
| AC power, max. | 90 – 285V 50/60Hz |
| AC Power, nominal | 100 – 260V 50/60Hz |
| Electrical Protection | Overload protection with automatic recover |
| Max Inrush Current | 50A |
| Max power consumption | 220W |
| Typical power consumption | 153W |
| Standby power | 6,7W |
| Max power thru @ 100 V | 8A |
| Max power thru @ 230 V | 8A |
| Power factor | 0,92 PF (230 V) / 0,99 PF (100V) |
| Power Supply Unit | Inbuilt auto-ranging electronic switch-mode |
| Power Linking | 4 units @ 120 V; 8 units @ 230 V |

7.3 Technical Data

| Operator & Controller | |
|----------------------------------|--|
| DMX channels | 3CH CCT, 3/6/9/11/14CH RGB, 6/12/13/20CH DIRECT, 3/10CH 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) |
| 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, backlighted controls |
| Strobe | 0-20Hz |
| DMX I/O | IP65 XLR 5-pin male/female |
| Power I/O | TRUE1 compatible input & link-thru sockets |
| Dimensions & Weight | |
| IP class | IP 65 |
| Net Dimensions (w x h x d) | 261 x 311 x 258 mm |
| Physical Head Straight Up Height | 339 mm |
| Net Dimensions inches | 10,3 x 12,2 x 10,1 inches |
| Net Weight | 5,7 kg (12,6 lbs) |
| Included / Optional | |
| Included items | 2x radiator caps for pendant installation 2m power cable |
| Color options | Black – RAL 9004 (Standard) White – RAL 9010 Custom color – any RAL |

7.4 DMX-Charts / Color Macro Charts / CCT Chart

| | |
|------------------------|-------------|
| 3CH CCT | 6CH DIRECT |
| 3CH RGB | 12CH DIRECT |
| 6CH RGB | 13CH DIRECT |
| 9CH RGB / Default Mode | 20CH DIRECT |
| 11CH RGB | 3CH HSI |
| 14CH RGB | 10CH HSI |

| 3 CH CCT MODE (Factory Calibrated) - 8bit | | | |
|--|------------|-----------|---|
| Ch. | Function | Value | Setting |
| 1 | Dimmer | 000-255 | 0 - 100% |
| 2 | CTC | 000 - 004 | 5600K |
| | | 005-226 | 2000K-6500K (please see detailed CTC chart) |
| | | 182-182 | 5600K |
| | | 226-226 | 6500K |
| | | 227-255 | 6621K-10.000K (please see detailed CTC chart) |
| 3 | Tint | 0 | no function |
| | | 001-127 | Magenta ⊕ Neutral |
| | | 128-128 | Neutral |
| | | 129-255 | Neutral ⊕ Green |
| | | | |
| 3 CH - RGB MODE (Factory Calibrated Mode) - 8bit | | | |
| 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 (Factory Calibrated) - 16bit | | | |
| 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 (Factory Calibrated Mode) - 8bit / Default Mode

| 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% |
| RGB fade to 100% = CTC | | | |
| 6 | CTC (affects RGB) | 000 - 004 | 5600K |
| | | 005-226 | 2000K-6500K (please see detailed CTC chart) |
| | | 182-182 | 5600K |
| | | 226-226 | 6500K |
| | | 227-255 | 6621K-10.000K (please see detailed CTC chart) |
| 7 | Tint (affects CTC, RGB) | 0 | no function |
| | | 001-127 | Magenta ⊕ Neutral |
| | | 128-128 | Neutral |
| | | 129-255 | Neutral ⊕ Green |
| 8 | Color Macro (override RGB, CTC) | | (please see detailed 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) |

11 CH RGB Mode (Factory Calibrated) - 8bit

| 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 | Duration (only affects to channel 2 - Strobe 1 025-064) | 000-255 | 0 - 100% | |
| 4 | Red | 000-255 | 0 - 100% | RGB fade to 100% = CTC |
| 5 | Green | 000-255 | 0 - 100% | |
| 6 | Blue | 000-255 | 0 - 100% | |
| 7 | CTC (affects RGB) | 000 - 004 | 5600K | |
| | | 005-226 | 2000K-6500K (please see detailed CTC chart) | |
| | | 182-182 | 5600K | |
| | | 226-226 | 6500K | |
| | | 227-255 | 6621K-10.000K (please see detailed CTC chart) | |
| 8 | Tint (affects CTC, RGB) | 0 | no function | |
| | | 001-127 | Magenta ⊕ Neutral | |
| | | 128-128 | Neutral | |
| | | 129-255 | Neutral ⊕ Green | |
| 9 | Color Macro (override RGB, CTC) | | (please see detailed 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 | Fan Auto (hold 3s) |
| | | 135-139 | Fan Silent (hold 3s) |
| | | 140-144 | Fan Studio (hold 3s) |
| | | 145-149 | Fan Off (hold 3s) |
| | | 150-154 | Fan High Power (hold 3s) |
| | | 155-159 | No function |
| | | 160-164 | Redshift On (hold 1,5s / 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) |
| | | 190-255 | No function |
| 14 CH RGB Mode (Factory Calibrated) - 16bit | | | |
| 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 | Red | 000-255 | 0 - 100% | RGBALC Fade to 100% = CTC |
| | | 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 (please see detailed CTC chart) | | | |
| | | 182-182 | 5600K | | | |
| | | 226-226 | 6500K | | | |
| | | 227-255 | 6621K-10.000K (please see detailed CTC chart) | | | |
| 11 | Tint (affects CTC, RGB) | 0 | no function | | | |
| | | 001-127 | Magenta ⊕ Neutral | | | |
| | | 128-128 | Neutral | | | |
| | | 129-255 | Neutral ⊕ Green | | | |
| 12 | Color Macro (override RGB, CTC) | | (please see detailed color macro 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 | Fan Auto (hold 3s) |
| | | 135-139 | Fan Silent (hold 3s) |
| | | 140-144 | Fan Studio (hold 3s) |
| | | 145-149 | Fan Off (hold 3s) |
| | | 150-154 | Fan High Power (hold 3s) |
| | | 155-159 | No function |
| | | 160-164 | Redshift On (hold 1,5s / 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) |
| | | 190-255 | No function |
| | | | |
| 6 CH - DIRECT MODE (RAW) - 8bit | | | |
| 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) - 16bit

| 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) - 8bit

| 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% |

RGBALC Fade to 100% = CTC

| | | | | |
|----|--|-----------|--|---------------------------|
| 6 | Amber | 000-255 | 0 - 100% | RGBALC Fade to 100% = CTC |
| 7 | Lime | 000-255 | 0 - 100% | |
| 8 | Cyan | 000-255 | 0 - 100% | |
| 9 | CTC (affects RGBALC) | 000 - 004 | RAW | |
| | | 005-226 | 2000K-6500K (please see detailed CTC chart) | |
| | | 182-182 | 5600K | |
| | | 226-226 | 6500K | |
| | | 227-255 | 6621K-10.000K (please see detailed CTC chart) | |
| 10 | Tint (affects CTC, RGBALC) | 0 | no function | |
| | | 001-127 | Magenta ⊕ Neutral | |
| | | 128-128 | Neutral | |
| | | 129-255 | Neutral ⊕ Green | |
| 11 | Color Macro (overri- de RGBALC, CTC) | | (please see detailed 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 | No function | |
| | | 080-084 | Factory Calibrated Mode (hold 3s) | |
| | | 085-094 | 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 | Fan Auto (hold 3s) | |
| | | 135-139 | Fan Silent (hold 3s) | |
| | | 140-144 | Fan Studio (hold 3s) | |
| | | 145-149 | Fan Off (hold 3s) | |

| | | | | |
|-----------------------------------|--|-----------|---|---------------------------|
| 13 | Device Settings (please see remark *1) | 150-154 | Fan High Power (hold 3s) | |
| | | 155-159 | No function | |
| | | 160-164 | Redshift On (hold 1,5s / 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) | |
| | | 190-255 | No function | |
| | | | | |
| 20 CH - DIRECT MODE (RAW) - 16bit | | | | |
| 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 | Red | 000-255 | 0 - 100% | RGBALC Fade to 100% = CTC |
| 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% | RGBALC Fade to 100% = CTC |
| 13 | Lime Fine | 000-255 | 0 - 100% | |
| 14 | Cyan | 000-255 | 0 - 100% | |
| 15 | Cyan Fine | 000-255 | 0 - 100% | |
| 16 | CTC (affects RGBALC) | 000 - 004 | RAW | |
| | | 005-226 | 2000K-6500K (please see detailed CTC chart) | |
| | | 182-182 | 5600K | |
| | | 226-226 | 6500K | |
| | | 227-255 | 6621K-10.000K (please see detailed CTC chart) | |
| 17 | Tint (affects CTC, RGBALC) | 0 | no function | |
| | | 001-127 | Magenta ⊕ Neutral | |
| | | 128-128 | Neutral | |
| | | 129-255 | Neutral ⊕ Green | |
| 18 | Color Macro (override RGBALC, CTC) | | (please see detailed 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 | No function | |
| | | 080-084 | Factory Calibrated Mode (hold 3s) | |
| | | 085-094 | 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 | Fan Auto (hold 3s) | |
| | | 135-139 | Fan Silent (hold 3s) | |

| | | | |
|---|--|-----------|---|
| 20 | Device Settings (please see remark *1) | 140-144 | Fan Studio (hold 3s) |
| | | 145-149 | Fan Off (hold 3s) |
| | | 150-154 | Fan High Power (hold 3s) |
| | | 155-159 | No function |
| | | 160-164 | Redshift On (hold 1,5s / 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) |
| | | 190-255 | No function |
| | | | |
| 3 CH - HSI MODE (Factory Calibrated) - 8bit | | | |
| 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 (Factory Calibrated) - 16bit | | | |
| 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, Saturation) | 000 - 004 | 5600K |
| | | 005-226 | 2000K-6500K (please see detailed CTC chart) |
| | | 182-182 | 5600K |
| | | 226-226 | 6500K |
| | | 227-255 | 6621K-10.000K (please see detailed CTC chart) |
| 7 | Tint (affects CTC, HUE, Saturation) | 0 | no function |
| | | 001-127 | Magenta ⊕ Neutral |
| | | 128-128 | Neutral |
| | | 129-255 | Neutral ⊕ Green |
| 8 | Color Macro (override HUE, Saturation, CTC) | | (please see detailed 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 | Fan Auto (hold 3s) |
| | | 135-139 | Fan Silent (hold 3s) |
| | | 140-144 | Fan Studio (hold 3s) |
| | | 145-149 | Fan Off (hold 3s) |
| | | 150-154 | Fan High Power (hold 3s) |
| | | 155-159 | No function |
| | | 160-164 | Redshift On (Hold 1,5s / affects only between 2700-3500K) |

| | | | |
|---|--|---------|--|
| 10 | Device Settings (please see remark *1) | 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) |
| | | 190-255 | No function |
| Remark *1 - After adjustments please set the value back to 000 to avoid any disturbance by endless function call. | | | |

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 |

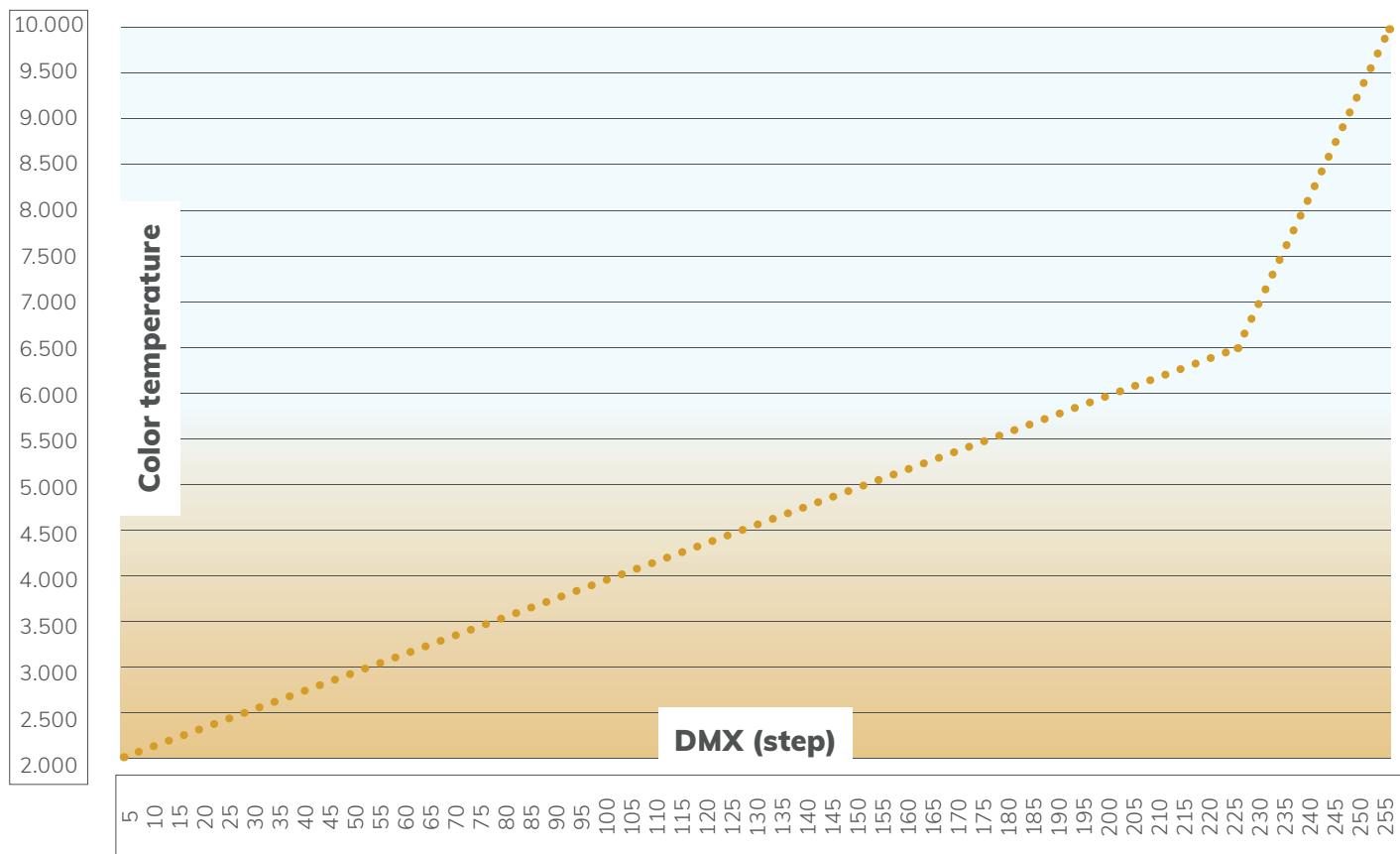
| Gels - Color Macros for DMX | | |
|-----------------------------|------------------------------------|----------------|
| 093-095 | Magenta | LEE 113 |
| 096-098 | Mauve | LEE 126 |
| 099-101 | Smokey Pink | LEE 127 |
| 102-104 | Special Med Lavender | LEE 343 |
| 105-107 | Ultimate Violet | LEE 707 |
| 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 (only if available) | 100% White LED |
| 138-140 | Amber (only if available) | 100% Amber LED |
| 141-143 | Lime (only if available) | 100% Lime LED |
| 144-146 | Cyan (only if available) | 100% Cyan LED |
| 147-149 | User Color 1 | |
| 150-152 | User Color 2 | |
| 153-155 | User Color 3 | |
| 156-158 | User Color 4 | |
| 159-161 | User Color 5 | |
| 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 |

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 |

CTC channel DMX / Color temperature



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 | | |

7.5 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 E.SHOW TW+ |
| Model: | E.SHOW TW+ |
| Manufacturer: | ROXX |
| ID: | 6A6Ah |
| Device ID: | 0102 xxxx |

***Note:** During RDM identifying process E.SHOW TW+ flashes white to blue color alternately.

RDM functions

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

| PID | Function | Action | Values |
|----------|----------------------|--------------------------|--|
| 0x00F0 | DMX Start Adress | Set | 001-512 |
| 0x00E0 | DMX Personality | Set | 12x DMX modes |
| 0x00E1 | DMX Slots | read | n.a. |
| 0x8012 | Display Backlight | Set | 0= Off / 1= On |
| 0x8010 | Fan Mode | Set | 1= Auto / 2= Silent / 3= Studio / 4= Fan Off / 5= Max. Power |
| 0x8030 | Dimmer Curve | Set | 1= Linear / 2= Exponential / 3= Logarithmic / 4= S-Curve |
| 0x8031 | Dimmer Response | Set | 1= LED / 2= Halogen |
| 0x8018 | CRMX Operating Mode | Set (Receive / Transmit) | 0= RX / 1= TX |
| 0x8019 | CRMX Receive Reset | Yes/No | 0= No / 1= Yes |
| 0x801A | CRMX Transmit Link | Yes/No | 0= No / 1= Yes |
| 0x801B | CRMX Pass to DMX out | Yes/No | 0= No / 1= Yes |
| 0x801C | Bluetooth | On/Off | 0= Off / 1= On |
| 0x801D | Bluetooth Link | Yes/No | 0= No / 1= Yes |
| 0x8040 | LED Frequency (PWM) | Set | 1= 800Hz / 2= 1200Hz / 3= 2000Hz / 4= 3600Hz / 5= 12kHz / 6= 25kHz |
| 0x801E | Factory Reset | Yes/No | 0= No / 1= Yes |
| 0x801F | User Reset | Yes/No | 0= No / 1= Yes |
| 0x0401 | Lamp hours | read | n.a. |
| 0x0400 | Device hours | read | n.a. |
| 0x8011 | DMX Fail | Set | 1= Hold / 2= Blackout / 3= Emergency |
| 0x8032 | Redshift | Yes/No | 0= Off / 1= On |
| none | Software Version | read | n.a. |
| Sensor 1 | LED Temperature | 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 | |

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 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.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment 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.

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

