

# **ROXX NEO** mini



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# 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 used in combination with an power outlet, providing a protective ground. In no circustances 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 temparature 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/adapter/connector does not show signs of kinks/warps or is being stepped on.
- 1.2.6. Allwas 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 exact 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 lighting strike all units need to be unpluged 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 applys 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 IMFORMATION!**

- This is a product which has been developed for professional usage in event technology. It is not suitable as a houshold 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, expecially 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. NEO mini

Illuminate your world with NEO mini, a cutting-edge lighting fixture that combines unparalleled performance with versatility and convenience. With  $10 \times 60 \text{W}$  RGBL LEDs, NEO mini generates an astounding  $16.590 \text{lx} \otimes 5 \text{m}$ , calibrated at 5600 K, ensuring your space is bathed in brilliant light. Crafted with precision, the fixture features a specially developed  $9^{\circ}$  TIR lens, ensuring high illuminance even over extended distances while guaranteeing seamless color mixing for captivating displays. Enhance your lighting setup further with optional magnetic filters, offering a range of circular and elliptical beam angles, along with a smoked clear filter tailored for impeccable camera applications.

NEO mini boasts a CRI/Ra and TLCI higher 85, ensuring accurate color reproduction that breathes life into your surroundings. Built to withstand the elements, NEO mini has a certified IP65 rating, making it suitable for both indoor and outdoor use.

The integrated CRMX transceiver and Bluetooth module offer seamless wireless DMX setup according to industry standards, along with direct control via the intuitive ROXX.APP, streamlining your workflow and enhancing efficiency.

Experience hassle-free addressing and configuration with NEO mini's integrated Near Field Communication (NFC), even when fixture power is not available. This innovative feature revolutionizes your daily work processes, making light setup faster, easier, and more satisfying than ever before. The specially developed copper heat pipe cooling system ensures stable luminous intensity, even in high ambient temperatures. With temperature-controlled fan modes, including fan-off mode for silent operation, NEO mini is ideal for any stage, TV, and film application. The fixture offers linear CTC control from 2000K to 10,000K, ensuring versatility for any lighting scenario. The user-friendly 2" TFT display, complemented by backlighted buttons, provides direct access to dimmer, CCT, gels, app control, and CRMX functions, simplifying operation for users of all levels.

Designed with convenience in mind, NEO mini features integrated handles on both the head and yoke, allowing for comfortable transportation. Multiple mounting locations offer creative rigging options, while 16-bit dimming control ensures smooth, perfect fades for seamless transitions. Experience seamless transitions with 16-bit dimming control, ensuring smooth, perfect fades every time. Plus, adjustable PWM frequencies up to 25kHz guarantee flicker-free operation, providing optimal lighting conditions for any shoot.

## 3. GENERAL PRODUCT INFORMATION

## 3.1. Scope of delivery

- ⊕ 1x NEO mini
- ⊕ Power cord with plug (EU country specific, if not ordered differently)

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

#### 3.2. Control Functions

- 3CH CCT, 3CH RGB, 6CH RGB, 8CH RGB, 11CH RGB, 15CH RGB, 4CH DIRECT, 8CH DIRECT, 9CH DIRECT, 12CH DIRECT, 17CH DIRECT, 10CH HSI
- Stand Alone Functions including cinema effects, various auto programs, customisable scenes, CCT, LEE adjusted color macros and custom color templates
- 6 extra display controls for direct access of wireless settings, dimmer, CCT, color & user definable functions
- Master & Slave (by DMX and Wireless DMX)
- Wireless DMX (Lumenradio CRMX®)
- ROXX App Bluetooth 5.0
- ROXX NFC App Near Field Communication

## 3.3. Features













































## 4. INSTALLATION & SETUP

## 4.1 Physical Installation and Rigging

ROXX NEO mini may be installed in any orientation. For this purpose the product provides several options:





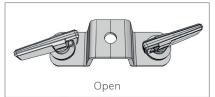
#### Standing:

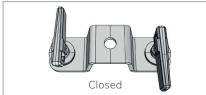
The fixture is equipped with 4 rubber feet. It allows the luminaire to be used in floor application. With its integrated rubber feet it's designed to ensure a secure stand on every plane surface with 220° tilt movement of the fixtures head.

## Hanging:

On the bottom 2x Camlock 1/4 turn connnectors are installed. Here it's possible to click in the ROXX Omega Bracket ST (optional accessory) equiped with any suitable clamp.







Insert the two fasteners and turn each  $90^{\circ}$  clockwise to lock them. Please be sure that the fasterners are turned fully and snaped in.

Use a safety wire matching the local official regulations. We recommend using the safety eye on the bottom of the fixture.



#### 4.2 Connections\*



A: IP65 Power I/O connectors with rubber sealing cap.

Connect using the provided power cable (when not in use, always close with rubber sealing cap)

- B: DMX IN
- C: DMX OUT
- D: Direct Acces to Dimmer, CCT, Gels, Wireless, Connectivity, User definable controls
- E: Goretex Valve
- F: Firmware / USB: when not in use, always close with rubber sealing cap

#### (i) \*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 NEO mini operates on any 100–260 V, 50/60 Hz AC mains power supply with a maximum power consumption of 674W. 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 <u></u> |

#### 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 NEO mini 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

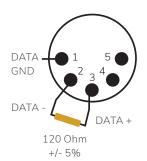
If using a cabled DMX system, connect the DMX IN cable to the input connector (male 5-pin XLR connector) and DMX OUT cable to the output (female 5-pin XLR connectors).

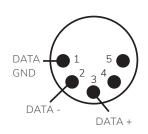
For outdoor installations, use only IP65-rated XLR connectors.

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.

DMX Termination on last fixture DMX out





XLR pin out

## 4.2.2.2. Wireless Connection\*

NEO mini 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.

NEO mini can act as a fully operative CRMX Receiver and be paired to an active wireless transmitter (CRMX) simultanously as being connected to a cabled DMX. The device will prioritize cabled DMX input over wireless DMX and over Bluetooth. A small indicator infront of "DMX", "CRMX" or "BLE" gives an easy overview which protocol is curently 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.

① \*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.

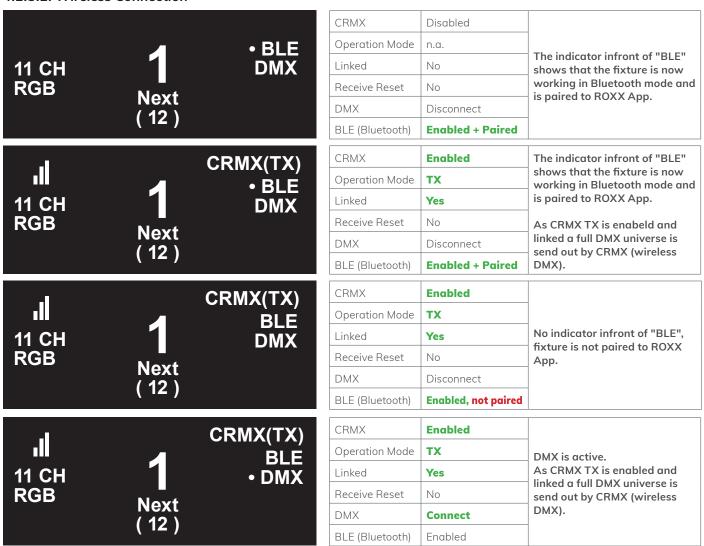
BLE and CRMX RX are not available simoultaNEO miniusly.

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

## 4.2.2.2. Wireless Connection

| 4.2.2.2. Wireless | Connection      |                 |                   |  |
|-------------------|-----------------|-----------------|-------------------|--|
|                   |                 | CRMX            | Disabled          |  |
|                   | •DMX            | Operation Mode  | n.a.              |  |
| 11 CH             | BINIX           | Linked          | No                | The indicator infront of "DMX"                                   |
| RGB               | Novt            | Receive Reset   | No                | shows that DMX is active.  |
|                   | Next<br>(12)    | DMX             | Enabled           |  |
|                   | (12)            | BLE (Bluetooth) | Disabled          |  |
|                   |                 | CRMX            | Enabled           |  |
|                   | • CRMX(RX)  DMX | Operation Mode  | RX                | The indicator infront of "CRMX" (RX)" shows that the fixture is  |
| 11 CH             | DIVIX           | Linked          | No                | now working in wireless DMX                                      |
| RGB               | Nové            | Receive Reset   | Yes               | receive mode.  |
|                   | Next            | DMX             | Disconnect        | "(RX)"= CRMX operating mode is set to receive                    |
|                   | ( 12 )          | BLE (Bluetooth) | Disabled          | is set to receive  |
|                   | • CDMV/TV)      | CRMX            | Enabled           |  |
|                   | • CRMX(TX)  DMX | Operation Mode  | тх                | The indicator infront of "CRMX" (TX)" shows that the fixture is  |
| 11 CH             |                 | Linked          | No                | now working in wireless DMX                                      |
| RGB               | Nevt            | Receive Reset   | Yes               | transmit mode.   |
|                   | Next<br>(12)    | DMX             | Disconnect        | "(TX)"= CRMX operating mode<br>is set to transmit                |
|                   | (12)            | BLE (Bluetooth) | Disabled          | is set to transmit   |
|                   | · CDMY/DY)      | CRMX            | Enabled           | Once the fixture is linked to an                                 |
| -dl               | • CRMX(RX) DMX  | Operation Mode  | RX                | external transmitter, the CRMX                                   |
| 11 CH             | DIVIX           | Linked          | Yes               | signal-symbole appears on upper left side.                       |
| RGB               | Navé            | Receive Reset   | Yes               | ]  |
|                   | Next<br>(12)    | DMX             | Disconnect        | 1 dash= 1-30% signal strength<br>2 dashs= 31-70% signal strength |
|                   | (12)            | BLE (Bluetooth) | Disabled          | 3 dashs= 71-100% signal strength                                 |
| -1                | • CRMX(TX)      | CRMX            | Enabled           | Once the fixture is linked to an                                 |
| ıll               | DMV             | Operation Mode  | TX                | external transmitter, the CRMX                                   |
| 11 CH             | DIVIA           | Linked          | Yes               | signal-symbole appears on upper left side.                       |
| RGB               | Next            | Receive Reset   | Yes               | 1 dash= 1-30% signal strength                                    |
|                   | ( 12 )          | DMX             | Disconnect        | 2 dashs= 31-70% signal strength                                  |
|                   | ( 12 )          | BLE (Bluetooth) | Disabled          | 3 dashs= 71-100% signal strength                                 |
|                   | · CDMV/DV)      | CRMX            | Enabled           |  |
| ıll               | • CRMX(RX) DMX  | Operation Mode  | RX                |  |
| 11 CH             | DIVIX           | Linked          | Yes, out of range | In case the external trans-<br>mitter is switched off or out of  |
| RGB               | Novt            | Receive Reset   | Yes               | signal range the signal-symbole starts to blink.                 |
|                   | Next<br>(12)    | DMX             | Disconnect        | bole starts to billik.   |
|                   |                 | BLE (Bluetooth) | Disabled          |  |
|                   | • CDMV/DV\      | CRMX            | Enabled           |  |
| .dl!              | • CRMX(RX) DMX  | Operation Mode  | RX                | An exclamation appears and                                       |
| 11 CH             | DIMA            | Linked          | Yes, but no DMX   | blinks although the external transmitter is switched on and      |
| RGB               | Novt            | Receive Reset   | Yes               | is inside the signal range but<br>no DMX is connected to the     |
|                   | Next<br>(12)    | DMX             | Disconnect        | external transmitter.  |
|                   | (12)            | BLE (Bluetooth) | Disabled          |  |

#### 4.2.3.2. Wireless Connection



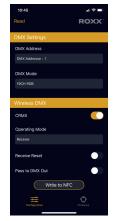
## 4.3. NFC (Near Field Communication)

NEO mini integrates a NFC chip (Near Field Communication) and allows in conjunction with ROXX NFC App to address and configure the fixtures wirelessly even when the fixture power is not prevent. Additionally, the fixtures firmware can be read out and updated to latest version. For this please make sure NEO mini stays AC powered during update process.

The NFC chip is based on it's lower housing part, close to the CRMX antenna. To get a proper connection between your mobile phone and NEO mini, please make sure that your phone is very close to the NFC.







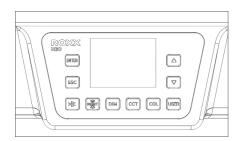


## 5. OPERATION

#### 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.

## i \*Note:

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

#### 5.2 Control Display\*

2.0" TFT Display with ten backlighted control buttons



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.

## ① \*Note:

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.

#### (i) \*Note:

For detailed information about the different reset options please refer to chapter "5.4.6.1 Reset functions"

## **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.

## 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 degrees. By pressing both arrows simultaneously again the display will flip back.

## (i) \*Note:

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

## 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:

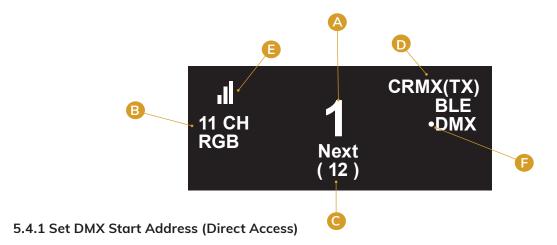
- A DMX Adress
- B Operating Mode (DMX Mode, Quick Light or Standalone Mode)
- C Next available DMX address depending on the fixtures DMX footprint
- D External Data protocol (CRMX, DMX, BLE).
- E CRMX status and strength
- F The dot indicates the active protocol

Note:

CRMX (RX) CRMX Receiving Mode

CRMX (TX) CRMX Transmit Mode

**BLE** Bluetooth enabled



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 16 different DMX operating modes while using the UP/Down arrows and confirm by pressing ENTER or jump back by pressing ESC.

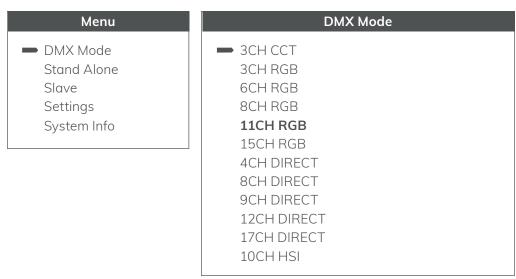
After confirmation the display will jump back to main menu (level 1). Press ESC for homescreen, here the selected DMX mode will be displayed.

#### (i) \*Note:

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

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Level 1 Level 2



#### 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 Level 2

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

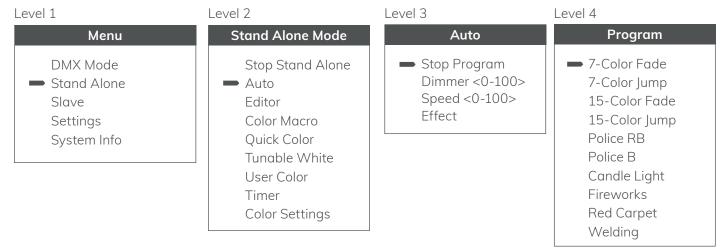
Here at sub-menu (level 3) you can stop the effect and set the general speed and brightness of the effect.

To adjust speed, please use the UP / Down arrows to select the menu item "Speed" and confitm with ENTER. After that use Up / Down arrows to adjust the speed value between 000-100 anf confirm by ENTER or jump back by ESC. To adjust brightness please select "Dimmer" as per the procedures previously described and confirm with ENTER. After that use Up / Down arrows to adjust the brightness value between 000-100 and confirm by ENTER or jump back by ESC.

Selecting "Effect" brings you to level 4. Using the Up / Down arrows you can select one of the 10 auto programs and confirm by pressing ENTER or step 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.

①\*Note: Using arrows UP/DOWN at homescreen Auto programs can be directly changed according to the list.



#### 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 RGBL (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 Level 2

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

① \*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 Level 4 Level 5

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

| gram      |
|-----------|
|           |
| 1         |
| 2         |
| 3         |
| 24 Scenes |
|           |

| S                | cene             |
|------------------|------------------|
| Red              | <0-255>          |
| Green            | < <b>0</b> -255> |
| Blue             | < <b>0</b> -255> |
| Lime             | < <b>0</b> -255> |
| Shutter          | <0- <b>255</b> > |
| Fade Time (min.) | < <b>0</b> -480> |
| Fade Time (sec.) | < <b>0</b> -59>  |
| Wait Time (min.) | < <b>0</b> -720> |
| Wait Time (min.) | < <b>0</b> -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 Level 2 Level 3

| Menu Stand Alone Mode   DMX Mode Stop Stand Alone   Stand Alone Color Macro   Slave Editor   Settings Color Macro   System Info Color Macro   Quick Color Dim   Tunable White User Color   User Color Settings | 2010. 1                    | 2010. 2   | 20.0.0                         |
|--|----------------------------|---|--------------------------------|
| Stand Alone Slave Settings System Info  Auto Editor Color Macro Color Macro Chart Dim <0-100>  User Color Timer  | Menu                       | Stand Alone Mode  | Color Macro                    |
|  | Stand Alone Slave Settings | Auto Editor  Color Macro Quick Color Tunable White User Color Timer | Color Macros Color Macro Chart |

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".

① Note: Using UP / DOWN arrows at homescreen Color Macros can be changed according to the list.

#### Level 4

| Gels -<br>Color Macros for Standalone Mode |                   |                | Gels -<br>Color Macros for Standalone Mode |                | Gels -<br>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 / High CRI |
| 7  | Deep Amber        | LEE 104        | 23   | Med Blue       | LEE 132                                    | 39   | Halogen White             | 3200K/High CRI   |
| 8  | Orange            | LEE 105        | 24   | Congo Blue     | LEE 181                                    | 40   | Neutral White             | 4200K / High CRI |
| 9  | Deep Golden Amber | LEE 135        | 25   | Mikkel Blue    | LEE 716                                    | 41   | Daylight White            | 5600K/High CRI   |
| 10   | Yellow            | LEE 101        | 26   | Rose Pink      | LEE 002                                    | 42   | Cold White I              | 6000K/High CRI   |
| 11   | Green             | 100% Green LED | 27   | Med Pink       | LEE 036                                    | 43   | Cold White II             | 6300K/High CRI   |
| 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, L, Dimmer and Shutter.

Level 1

DMX Mode

Stand Alone
Slave
Settings
System Info

Menu

#### 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<br>Shutter<br>Red<br>Green<br>Blue<br>Lime | <0-100><br><0-255><br><0-255><br><0-255><br><0-255><br><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.

① \*Note: Please see detailed explanation for strobe effects inside DMX chart at the end of this manual. If "Factory Calibration" is selected in "Color Settings" only R,G,B is available here.

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

#### Tunable White\*

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

Level 1 Level 2 Level 3

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

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

| Tunable White |  |  |  |  |
|---------------|--|--|--|--|
| Dimmer        | <2000K-10.000><br><000> (+/-127)<br><0-255><br><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.

#### ① \*Note:

Tint values

000 = no function/neutral

001 - 127 = + green -001 to - 127 = - green

① \*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, Lime, brightness and shutter.

| Level 1  | Level 2  | Level 3                                 | Level 4  |
|--|--|---|--|
| Menu   | Stand Alone Mode   | User Color                              | User Color   |
| DMX Mode  Stand Alone Slave Settings System Info | Stop Stand Alone Auto Editor Color Macro Quick Color Tunable White User Color Timer Color Settings | Color 1 Color 2 Color 3 Color 4 Color 5 | Dimmer <0-100> Shutter <0-255> Red <0-255> Green <0-255> Blue <0-255> Lime <0-255> |

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

While using the UP / DOWN arrows, please select the menu item "Stand Alone" and confirm by pressing ENTER. Select the item menu "User Color" by using the up/down controls and press ENTER.

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

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

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

① \*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 RGBL 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. SimultaNEO miniusly, 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.

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.

Level 1 Level 2 Level 3

#### Menu **Stand Alone Mode** Timer Stop Stand Alone DMX Mode Timer <On / Off> Stand Alone Auto Fade In < 0-60 min> 1 minute steps Editor Slave Dwell Time <1-24h> 1 hour steps Color Macro Fade Out < 0-60 min> 1 minute steps Settings System Info Quick Color Tunable White User Color ■ Timer Color Settings

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.

① \*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, L 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 Level 2 Level 3

| Level 1  | Level 2   | Level 3                  |
|--|---|--------------------------|
| Menu   | Stand Alone Mode  | Color Settings           |
| DMX Mode  Stand Alone Slave Settings System Info | Stop Stand Alone Auto Editor Color Macro Quick Color Tunable White User Color Timer | ■ Factory Calibrated RAW |
|  | ■ Color Settings  |                          |

# 5.4.5 Settings

# Level 1

| TV   | en  | м  |
|------|-----|----|
| IIV/ | (al | Lu |

DMX Mode Stand Alone Slave

SettingsSystem Info

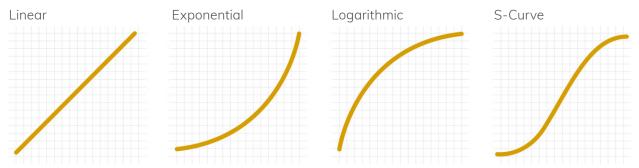
| Main Menu  | Menu level 2 | Menu level 3     | Menu level 4                    | Description   |
|------------|--------------|------------------|---------------------------------|---|
|            |              | CRMX             | <on <b="">off&gt;</on>          | On=CRMX enabled / Off= CRMX disabled  |
|            |              | Operating Mode   | <receive transmit=""></receive> | Receive= CRMX module as Receiver<br>Transmit= CRMX module as Transmitter  |
|            |              | Transmit Link    | < <b>no</b> /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=""></no>                | Yes = retain transmitter pairing No = do not retain transmitter pairing   |
| Wireless D | Wireless DMX | Pass to DMX Out  |                                 | Yes= incoming wireless DMX and BLE signal will be passed to wired DMX out   |
|            |              | rass to DIMA Out | <no yes=""></no>                | No= incoming wireless DMX and BLE signal will not be passed to wired DMX out  |
| Settings   |              | Signal Strength  | 0-100                           | CRMX signal strength  |
|            |              | BLE              | <on off=""></on>                | On= BLE enabled / Off= BLE disabled   |
|            |              | BLE Link         | <no yes=""></no>                | Link = starts bluetooth advertising for at least 1 minute   |
|            |              | BLE Password     | <000000>                        | Set 6-digits user Password for connection to your mobile device (ROXXAPP)   |
|            |              | DMX              |                                 | enables DMX protocol  |
|            | Protocol     |                  |                                 | Confirm with ENTER, after Slave Mode is activated Display will show Slave Mode.   |
|            |              | Slave            |                                 | Connect the master and slave units (same model) with either DMX cable or Wireless DMX (set Master to Trasnmit mode, Slave to Receive mode) and enable one of the standalone modes on the master unit (Auto, Quick Color). |

| Main Menu | Menu level 2   | Menu level 3           | Menu level 4           | Description  |
|-----------|--|------------------------|------------------------|--|
|           |  | Auto Flip              | <on off=""></on>       | On= Auto-Display-Flip-Function enabled<br>Off= Auto-Display-Flip-Function disbaled   |
|           |  | Backlight              | <on off=""></on>       | 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 <b="">off&gt;</on> | 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  |
|           | Display  |                        | Auto FX                |  |
|           |  |                        | Quick Color            |  |
|           |  |                        | Tint                   |  |
|           |  |                        | User Colors            |  |
|           |  | User Control           | Highlight (5600K)      | If "Highlight" is selected here, and "USER" control button on the display is pressed, the fixture will show 5600K White for 15 seconds, evem an outside protocol like DMX or Wireless DMX is connected. After 15sec. the fixture will display the DMX signal again. If no DMX is connected, please show blackout after 15 seconds. |
|           |  | Hold                   |                        | Fixture starts with the same settings just before switching off  |
|           | Startup Mode<br>(using last adjust-<br>ments of specific | DMX                    |                        | Select your default operating mode when fixture is powered on  |
| Settings  |  | Auto                   |                        |  |
| Settings  |  | Editor                 |                        |  |
|           | Standalone Modes)  | Color Macro            |                        |  |
|           |  | Quick Color            |                        |  |
|           |  | Tunable White          |                        |  |
|           |  | User Color             |                        |  |
|           | DMX Fail   | Hold (factory default) |                        | Hold= last command retains   |
|           |  | Blackout               |                        | Blackout= Activates Blackout   |
|           |  | Emergency Light        |                        | Emergency Light= Fixtures changes to 5600K   |
|           |  | 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.  |
|           | Dimmer Curve   | 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   |
|           |  | LED                    |                        | The LED responds abruptly to it's DMX values   |
|           | Dimmer Response  | Halogen                |                        | The LED responds similar to a halogen fixture with soft changes at brightness.   |
|           |  | Normal CRI             |                        |  |
|           | Color Calibration  | High CRI               |                        |  |
|           |  | .3                     |                        |  |

| Main Menu | Menu level 2                        | Menu level 3     | Menu level 4  | Description   |
|-----------|-------------------------------------|------------------|---|---|
|           | RAW Balance<br>(affects RAW Mode    | User Calibration | Red <0- <b>255</b> >                                      |   |
|           |                                     |                  | Green <0- <b>255</b> >                                    | Individual color calibration for R,G,B,L  |
|           | in DMX and Stand-<br>alone control) |                  | Blue <0- <b>255</b> >                                     |   |
|           |                                     |                  | Lime <0-2 <b>55</b> >                                     |   |
|           |                                     | 800 Hz           |   |   |
|           |                                     | 1200 Hz          |   |   |
|           | LED Farming                         | 2000 Hz          | Select preferred LED                                      |   |
|           | LED Frequency                       | 3600 Hz          | PWM frequency   |   |
|           |                                     | 12000 Hz         |   |   |
|           |                                     | 25000 Hz         |   |   |
|           | Fan                                 | Auto 1           |   | Adjust fan speed relative to internal fixture temperature, maximum 2500rpm  |
| Settings  |                                     | Auto 2           |   | Adjust fan speed relative to internal fixture temperature, maximum 3000rpm  |
|           |                                     | Silent           |   | Low fan speed for silent operation, maximum 1800rpm   |
|           |                                     | Studio           |   | Low fan speed for silent operation, maximum 1500rpm   |
|           |                                     | Fan Off          |   | Fan Off   |
|           |                                     | Max Power        |   | High fan speed for maximum cooling effect, maximum 3000rpm  |
|           | Redshift                            | On/ <b>Off</b>   | On= Activates Redshift,<br>Off= Deactivates Reds-<br>hift | Redshift function simulate traditional halogen fixtures while dimming down. Redshift affects only between 2700-3500K. |
|           |                                     | Auto             |   | Runs firmware update automatically, once USB stick gets plugged in  |
|           | USB Update                          | Manual           |   | Runs firmware update manually after USB stick gets plugged in   |
|           |                                     | No               |   | Do not run firmware update via USB port   |

| Main Menu | Menu level 2                             | Menu level 3   | Menu level 4  | Menu Level 5  |
|-----------|--|--|---|---|
|           |  | Factory Reset  | Are you sure to reset? / Confirm by pressing ENTER, cancel with ESC                               | Restores all factory defaults , but not<br>User defaults and no User Colors   |
|           |  |  | Are you sure to reset? / Confirm by pressing ENTER, cancel with ESC                               | Restores all User Reset according to the User Preset List. User Colors will not set back. Timer Function and DMX adress restore to Factory default. Once User Reset is activated a fixture self test will start. Self Test is not available while activating User Rest by DMX Settings. |
|           |  | DMX Mode<br>3CH CCT, 3CH RGB, 6CH RGB, 8CH<br>RGB, 11CH RGB, 15CH RGB, 4CH<br>DIRECT, 8CH DIRECT, 9CH DIRECT,<br>12CH DIRECT, 17CH DIRECT, 10CH<br>HSI |   |   |
|           |  |  | CRMX <on off=""></on>   |   |
|           |  |  | CRMX Operating Mode. <receive transmit=""></receive>  | Select your User Reset defaults   |
|           |  |  | CRMX Receive Reset < <b>no</b> /yes>  |   |
|           |  |  | BLE <on off=""></on>  |   |
|           | Factory /<br>User Reset                  |  | BLE Link <no yes=""></no>   |   |
|           |  |  | BLE Password <000000>   |   |
| Settings  | For more and detailed information        |  | CRMX Pass to DMX Out < <b>no</b> /yes   |   |
| Settings  | about the different reset options please |  | Display Flip < <b>on</b> /off>  |   |
|           | refer to chapter                         | User Reset List  | Backlight < <b>on</b> /off>   | Select your User Reset defaults   |
|           | "5.4.6.1 Reset<br>functions"             |  | Auto Lock <on off=""></on>  |   |
|           |  |  | Display User Control <auto <b="" color,="" fx="" quick="">Tint, User Colors, Highlight&gt;</auto> |   |
|           |  |  | Startup Mode < Hold/DMX/Auto/Editor/Color Macro, Quick Color, Tunable White, User Color>          |   |
|           |  |  | DMX Fail <b>Hold</b> /Blackout/Emergency)>  |   |
|           |  |  | Dimmer Curve < <b>Linear</b> , Exponential, Logarithmic, S-Curve>                                 |   |
|           |  |  | Dimmer Response < <b>LED</b> , Halogen >  |   |
|           |  |  | Color Calibration Normal CRI / High CRI   |   |
|           |  |  | RAW Balance<br><raw calibration="" user=""></raw>   |   |
|           |  |  | LED Frequency <800Hz, <b>1200Hz</b> , 2000Hz, 3600Hz, 12000Hz, 25000Hz>                           |   |
|           |  |  | Fan < <b>Auto1</b> , Auto 2, Silent, Studio, Fan Off, Max Power>                                  |   |
|           |  |  | Redshift <on off=""></on>   |   |
|           |  |  | USB update <auto, <b="">Manual, No&gt;</auto,>  |   |

## **Dimmer Curves**



#### 5.4.5.1 Reset Functions

## 1. Via DMX

Factory / User Reset only starts if shutter channel has the DMX value "250" at the same time

⇒ Factory Reset:

DMX address and DMX mode stay on the same value as set before the reset. All other settings will set back to default

DMX address and DMX mode stay on the same value as set before the reset. There is no LED / Fan test. All other settings will set back to User Reset List.

#### 2. Via RDM

Factory / User Reset only starts if shutter channel has the DMX value "250" at the same time

⇒ Factory Reset:

DMX address and DMX mode stay on the same value as set before the reset All other settings will set back to default

DMX address and DMX mode stay on the same value as set before the reset. All other settings will set back to User Reset List.

There is no LED / Fan test

## 3. Via Menu / Display Shortcut

→ Factory Reset:

Display Query:

"> With Add. / Mode

No Add. / Mode

**RESET NOW?"** 

- ⊕ If "With Add. / Mode" is selected, DMX address is set to "1" and DMX mode changes to default mode.

  All other settings will set back to default
- → If "No Add. / Mode" is selected, DMX address and DMX Mode stay at current values. All other settings will set back to default

⊕ User Reset:

Display Query:

"> With Add. / Mode

No Add. / Mode

**RESET NOW?"** 

- ⊕ If "With Add. / Mode" is selected, DMX address is set to "1" and DMX mode changes to the mode defined by
  "User Reset List / DMX Mode". All other settings will set back to User Reset List.
- → If "No Add. / Mode" is selected, DMX address and DMX Mode stay at current values. All other settings will set back to User Reset List.

Unit Starts LED / Fan test.

# 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  |
|----------------|------------------|---|---|
|                | Firmware Version | VX.XX   | Display installed firmware version                    |
|                | Serial Number    | 139xxxxxxxx                                   |   |
|                | RDM UID          | 0X6a6axxxxxxxx                                | Display unique RDM ID for identification              |
| System<br>Info | 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                                   |

# **6. ACCESSORIES**

## 6.1 Filters

Available filters of ROXX NEO mini with order numbers:



Very Narrow 10° Art.: 14907001



Wide 80° Art.: 14907301



Narrow 15° Art.: 14907101



Horizontal 60° x 10° Art.: 14907401



Medium 40° Art.: 14907201



Vertical 10° x 60° Art.: 14907501

## 6.2 More accessories



8-way Barndoor Art.: 14907601



Omega Bracket ST Art.: 90900002-2



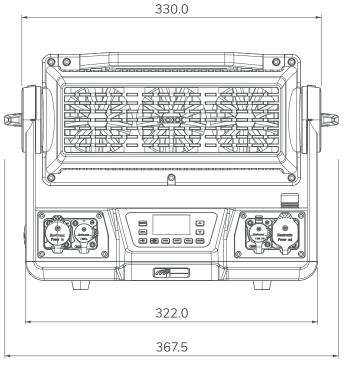
Amptown Case 6x Art.: 14907711

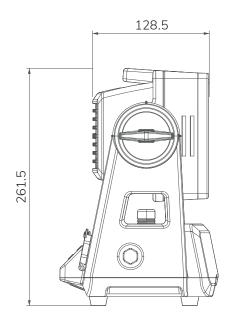


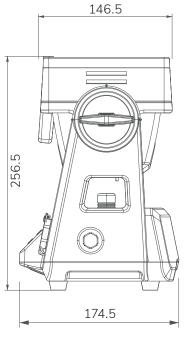
Casetec Case 6x Art.: 14907741

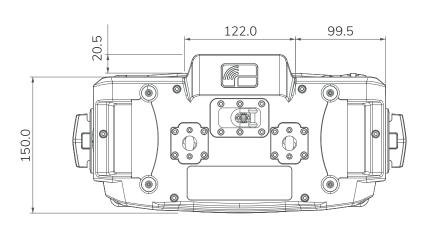
# 7. TECHNICAL DATA / DIAGRAMS

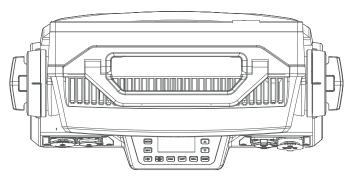
# 7.1 Technical drawings and measurements





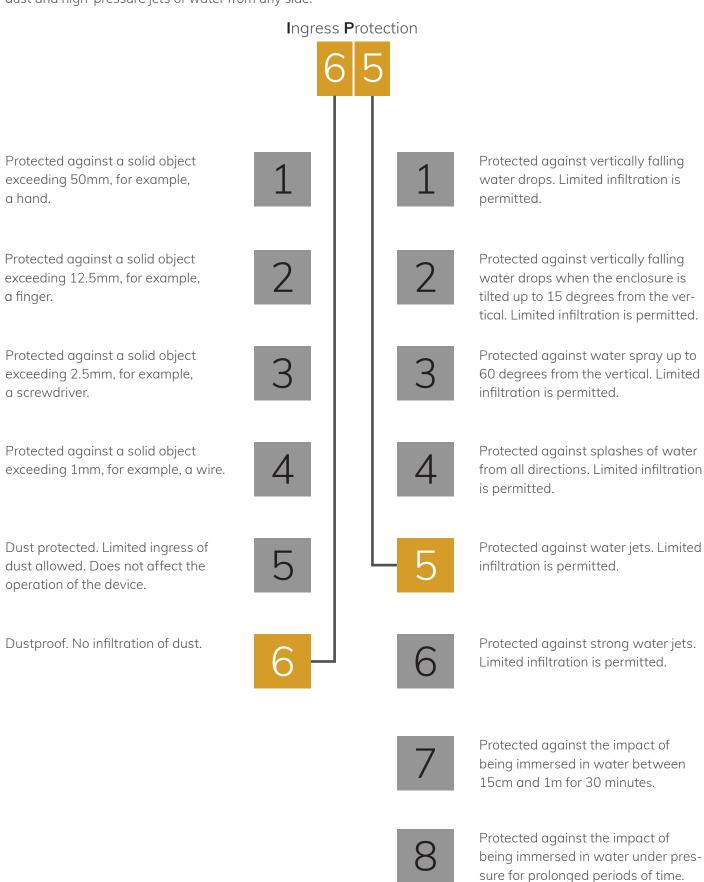






## 7.2 IP Rating

ROXX products conform to officially classified IP standard levels. NEO mini 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   | 10x 60W RGBL  |
| Type of optical system                                | TIR lens  |
| LED PWM Frequency                                     | selectable 800Hz, 1.200Hz, 2.000Hz, 3.600Hz, 12kHz, 25kHz |
| Beam angles @ Full (50%)                              | 8° (native)   |
| Maximum Field angles @ Full (10%)                     | 16° (native)  |
| Color temperature range                               | 2000-10.000K  |
| CRI/Ra @ 5600K  | 85  |
| TLCI @ 5600K  | 74  |
| Luminous flux @ Full (RAW)                            | 20.681lm (677,6 W).                                       |
| Luminous flux @ 5600K (Normal CRI)                    | 20.210lm (533,1W).  |
| Luminous flux @ 5600K (High CRI)                      | 14.699lm (299,8 W).                                       |
| illuminance Lux @ 5m / 16,4ft (@ Full)                | 22.739lx  |
| illuminance Lux @ 5m / 16,4ft<br>(@ 5600K Normal CRI) | 22.297lx  |
| illuminance Lux @ 5m / 16,4ft (@ 5600K High CRI)      | 15.863lx  |
| Efficancy @ Full (max)                                | 49 lm/W   |
| Dimensions & Weight                                   |   |
| IP class  | IP65  |
| IK class  | IK08  |
| Body material   | Aluminum, Nylon   |
| Lens material   | Tempered glass front                                      |
| Net dimensions (w x h x d)                            | 367,5 x 261,5 x 174,5 mm                                  |
| Net dimensions inches                                 | 14,47 x 10,30 x 6,87 inches                               |
| Net weight (incl. Yoke)                               | 7,7kg / 16,97 lbs   |
| Tilt  | 220°  |
| Tilt Locking System                                   | Locking system including angle indicator                  |
| Thermal Characteristics                               |   |
| Cooling   | Active, Forced Air, Temperature-regulated                 |
| Humidity (max.)                                       | 95%   |
| Temperature range, Operating                          | -40°C to 45°C   |
| Temperature range, Start-Up                           | -20° to 45°C  |
| Temperature range, Storage                            | -40°C to 80°C   |
| Thermal Protection                                    | Automatic overtemperature protection                      |
| Electrical Data                                       |   |
| AC Power, max   | 90 – 285V 50/60Hz   |
| AC Power, nominal                                     | 100 – 240V 50/60Hz  |
| Electrical protection                                 | Overload protection with automatic recover                |
| Max. power consumption                                | 674W @ 100V / 644W@ 230V                                  |
| Standby Power   | 13,4W   |
| Power Thru max. @ 100V                                | 5A (ETL) / 8A   |
| Power Thru max. @ 230V                                | 9A (ETL) / 12A  |

## 7.3 Technical Data

| Electrical Data                           |  |
|---|--|
| Power Linking                             | 3 units @ 230V / 1 unit @ 120V   |
| Power Factor                              | PF0.996 @ 100V / PF0.979 @ 230V  |
| Power Supply Unit                         | Inbuilt auto-ranging electronic switch-mode  |
| Operator & Controller                     |  |
| DMX channels                              | 3CH CCT, 3CH RGB, 6CH RGB, 8CH RGB, 11CH RGB, 15CH RGB, 4CH DIRECT, 8CH DIRECT, 9CH DIRECT, 12CH DIRECT, 17CH DIRECT, 10CH HSI |
| DMX modes                                 | 12   |
| Protocol                                  | USITT DMX512A<br>RDM ANSI E1.20<br>CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S<br>Bluetooth (Low Energy)                 |
| Setting and addressing                    | 2.0" TFTdisplay / 10 controls<br>RDM ANSI E1.20<br>Near Field Control (NFC)  |
| Standalone mode                           | Auto Program, Color Macro, Quick Color, Tunable White, User Color  |
| Wireless DMX                              | Lumen Radio transmitt & receive function (CRMX)  |
| Indicator                                 | 2.0" TFT display   |
| Controls                                  | 10 backlighted controls  |
| Strobe                                    | 0-30Hz   |
| DMX I/O                                   | IP65 XLR 5-pin male/female   |
| Power In                                  | TRUE1 compatible input & link-thru sockets   |
| USB Firmware Update                       | IP65 USB socket  |
| Included / Optional                       |  |
| Included items                            | 2m Power Cable   |
| Optional Accessories                      | Multiple magnetic filters (circular / elliptical, smoked-clear), 8-Way Barndoor,<br>Omega Bracket ST                           |
| Color options                             | Black – RAL 9004 (Standard)<br>Custom color – any RAL (on request)   |
| Installation                              |  |
| Mounting point on fixture bottom side     | 1x 1/4 turn Omega Bracket  |
| Orientation                               | Any  |
| Rigging possibilities                     | hanging direct   |
| Safety features                           | 1x bottom mount for fixtures safety wire / 2x Yoke mount for accessory safety wires  |
| Minimum distance from flammable materials | 0,3 meters (11,8 inch)   |

# 7.4 DMX-Charts / Color Macro Charts / CCT Chart

| 3CH CCT | 8CH RGB                 | 4CH DIRECT | 12CH DIRECT |
|---------|-------------------------|------------|-------------|
| 3CH RGB | 11CH RGB / Default Mode | 8CH DIRECT | 17CH DIRECT |
| 6CH RGB | 15CH RGB                | 9CH DIRECT | 10CH HSI    |

| Channel | зсн сст | 3CH RGB | 6CH RGB    | 8CH RGB         | 11CH RGB (default)       | 15CH RGB                 |
|---------|---------|---------|------------|-----------------|--------------------------|--------------------------|
| 1       | Dimmer  | Red     | Red        | Dimmer          | Dimmer                   | Dimmer                   |
| 2       | СТС     | Green   | Red Fine   | Shutter         | Shutter                  | Dimmer Fine              |
| 3       | Tint    | Blue    | Green      | Red             | Duration                 | Shutter                  |
| 4       |         |         | Green Fine | Green           | Red                      | Duration                 |
| 5       |         |         | Blue       | Blue            | Green                    | Red                      |
| 6       |         |         | Blue Fine  | СТС             | Blue                     | Red Fine                 |
| 7       |         |         |            | Tint            | СТС                      | Green                    |
| 8       |         |         |            | Device Settings | Tint                     | Green Fine               |
| 9       |         |         |            |                 | Color Macro              | Blue                     |
| 10      |         |         |            |                 | Color Macro<br>Crossfade | Blue Fine                |
| 11      |         |         |            |                 | Device Settings          | СТС                      |
| 12      |         |         |            |                 |                          | Tint                     |
| 13      |         |         |            |                 |                          | Color Macro              |
| 14      |         |         |            |                 |                          | Color Macro<br>Crossfade |
| 15      |         |         |            |                 |                          | Device Settings          |

| Channel | 4CH DIRECT | 8CH DIRECT | 9CH DIRECT      | 12CH DIRECT              | 17CH DIRECT              | 10CH HSI                 |
|---------|------------|------------|-----------------|--------------------------|--------------------------|--------------------------|
| 1       | Red        | Red        | Dimmer          | Dimmer                   | Dimmer                   | Dimmer                   |
| 2       | Green      | Red Fine   | Shutter         | Shutter                  | Dimmer Fine              | Dimmer Fine              |
| 3       | Blue       | Green      | Red             | Duration                 | Shutter                  | Shutter                  |
| 4       | Lime       | Green Fine | Green           | Red                      | Duration                 | Hue                      |
| 5       |            | Blue       | Blue            | Green                    | Red                      | Saturation               |
| 6       |            | Blue Fine  | Lime            | Blue                     | Red Fine                 | СТС                      |
| 7       |            | Lime       | СТС             | Lime                     | Green                    | Tint                     |
| 8       |            | Lime Fine  | Tint            | СТС                      | Green Fine               | Color Macro              |
| 9       |            |            | Device Settings | Tint                     | Blue                     | Color Macro<br>Crossfade |
| 10      |            |            |                 | Color Macro              | Blue Fine                | Device Settings          |
| 11      |            |            |                 | Color Macro<br>Crossfade | Lime                     |                          |
| 12      |            |            |                 | Device Settings          | Lime Fine                |                          |
| 13      |            |            |                 |                          | СТС                      |                          |
| 14      |            |            |                 |                          | Tint                     |                          |
| 15      |            |            |                 |                          | Color Macro              |                          |
| 16      |            |            |                 |                          | Color Macro<br>Crossfade |                          |
| 17      |            |            |                 |                          | Device Settings          |                          |

| 3CH CCT | 8CH RGB                 | 4CH DIRECT | 12CH DIRECT |
|---------|-------------------------|------------|-------------|
| 3CH RGB | 11CH RGB / Default Mode | 8CH DIRECT | 17CH DIRECT |
| 6CH RGB | 15CH RGB                | 9CH DIRECT | 10CH HSI    |

| 3 CH CCT MODE (Color Calibrated) |                       |           |  |         |  |
|----------------------------------|-----------------------|-----------|--|---------|--|
| Ch.                              | Function              | Value     | Setting  | Default |  |
| 1                                | Dimmer                | 000-255   | 0 - 100%   | 0       |  |
|                                  |                       | 000 - 004 | 5600K  |         |  |
|                                  | стс                   | 005-226   | 2000K-6500K linear in 20-21K steps<br>(please see detailed CTC chart)  |         |  |
| 2                                |                       | 182-182   | 5600K  | 0       |  |
|                                  |                       | 226-226   | 6500K  |         |  |
|                                  |                       | 227-255   | 6621K-10.000K linear in 120-121K steps (please see detailed CTC chart) |         |  |
|                                  | Tint<br>(affects CCT) | 0         | no function  |         |  |
| 3                                |                       | 001-127   | Magenta -> Neutral   | 120     |  |
|                                  |                       | 128-128   | Neutral  | 128     |  |
|                                  |                       | 129-255   | Neutral -> Green   |         |  |

| 3 CH | 3 CH - RGB MODE (Color Calibrated) |         |          |         |  |  |  |
|------|------------------------------------|---------|----------|---------|--|--|--|
| Ch.  | Function                           | Value   | Setting  | Default |  |  |  |
| 1    | Red                                | 000-255 | 0 - 100% | 0       |  |  |  |
| 2    | Green                              | 000-255 | 0 - 100% | 0       |  |  |  |
| 3    | Blue                               | 000-255 | 0 - 100% | 0       |  |  |  |

| 6 CH | 6 CH - RGB MODE (Color Calibrated) |         |          |         |  |  |  |
|------|------------------------------------|---------|----------|---------|--|--|--|
| Ch.  | Function                           | Value   | Setting  | Default |  |  |  |
| 1    | Red                                | 000-255 | 0 - 100% | 0       |  |  |  |
| 2    | Red Fine                           | 000-255 | 0 - 100% | 0       |  |  |  |
| 3    | Green                              | 000-255 | 0 - 100% | 0       |  |  |  |
| 4    | Green Fine                         | 000-255 | 0 - 100% | 0       |  |  |  |
| 5    | Blue                               | 000-255 | 0 - 100% | 0       |  |  |  |
| 6    | Blue Fine                          | 000-255 | 0 - 100% | 0       |  |  |  |

| 8 CH | I - RGB (Color Calibr                   | ated)     |  |                                       |         |  |
|------|---|-----------|--|---------------------------------------|---------|--|
| Ch.  | Function                                | Value     | Setting  |                                       | Default |  |
| 1    | Dimmer                                  | 000-255   | 0 - 100%   |                                       | 0       |  |
|      |   | 000 - 019 | Shutter close                                    |                                       |         |  |
|      |   | 020 - 024 | Shutter open                                     | 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 ⊕ s                | low)                                  |         |  |
|      |   | 105 - 109 | Shutter open                                     |                                       |         |  |
|      |   | 110 - 124 | Strobe 4: random strobe (fast @                  | slow)                                 |         |  |
|      |   | 125 - 129 | Shutter open                                     |                                       |         |  |
| 2    | CI. II                                  | 130 - 144 | Strobe 5: random opening pulse                   | e (fast ⊕ slow)                       | 20      |  |
| 2    | Shutter                                 | 145 - 149 | Shutter open                                     |                                       | 20      |  |
|      |   | 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%   |                                       | 255     |  |
| 4    | Green                                   | 000-255   | 0 - 100%   |                                       | 255     |  |
| 5    | Blue                                    | 000-255   | 0 - 100%   |                                       | 255     |  |
|      |   | 000 - 004 | 5600K  |                                       |         |  |
|      |   | 005-226   | 2000K-6500K<br>(please see detailed CTC chart)   |                                       |         |  |
| 6    | CTC<br>(affects RGB)                    | 182-182   | 5600K  | according to CTC chart                | 0       |  |
|      | (====================================== | 226-226   | 6500K  |                                       |         |  |
|      |   | 227-255   | 6621K-10.000K<br>(please see detailed CTC chart) |                                       |         |  |
|      |   | 0         | no function                                      |                                       |         |  |
| 7    | Tint                                    | 001-127   | Magenta → Neutral                                |                                       | 120     |  |
| 7    | (affects CTC, RGB)                      | 128-128   | Neutral  |                                       | 128     |  |
|      |   | 129-255   | Neutral ∋ Green                                  |                                       |         |  |
| 8    | Device Settings                         |           |  | according to Device Settings RGB mode | 0       |  |

| 11 C | H RGB Mode (Color  | Calibrated) - | Default mode  |                        |         |  |
|------|--|---------------|---|------------------------|---------|--|
| Ch.  | Function   | Value         | Setting   |                        | Default |  |
| 1    | Dimmer   | 000-255       | 0 - 100%  |                        | 0       |  |
|      |  | 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  |                        |         |  |
| 2    | Cl. 11   | 130 - 144     | Strobe 5: random opening pulse (fast ⊕ slow                               | /)                     | 20      |  |
| 2    | Shutter  | 145 - 149     | Shutter open  |                        | 20      |  |
|      |  | 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<br>(only affects to<br>channel 2 - Strobe<br>1 025-064) | 000-255       | 0 - 100%  |                        | 0       |  |
| 4    | Red  | 000-255       | 0 - 100%  |                        | 255     |  |
| 5    | Green  | 000-255       | 0 - 100%  |                        | 255     |  |
| 6    | Blue   | 000-255       | 0 - 100%  |                        | 255     |  |
|      |  | 000 - 004     | 5600K   |                        |         |  |
|      |  | 005-226       | 2000K-6500K linear in 20-21K steps<br>(please see detailed CTC chart)     |                        |         |  |
| 7    | (affects RGB)  | 182-182       | 5600K   | according to CTC chart | 0       |  |
|      | (difects RGb)  | 226-226       | 6500K   |                        |         |  |
|      |  | 227-255       | 6621K-10.000K linear in 120-121K steps<br>(please see detailed CTC chart) |                        |         |  |
|      |  | 0             | no function   |                        |         |  |
| 8    | <b>Tint</b> (affects CTC and                                     | 001-127       | Magenta -> Neutral  |                        | 128     |  |
| O    | RGB)   | 128-128       | Neutral   |                        | 120     |  |
|      |  | 129-255       | Neutral -> Green  |                        |         |  |

| 9  | Color Macro<br>(override RGB/CTC) |           | please use color macros from<br>ROXX color macro chart |                                       |   |
|----|-----------------------------------|-----------|--|---------------------------------------|---|
|    |                                   | 000 - 005 | no function  |                                       |   |
|    | Color Macro<br>Crossfade          | 006-105   | 0,1s - 10s (0,1s steps)                                |                                       |   |
| 10 | (Transition Time                  | 106-214   | 11s - 119s (1s steps)                                  |                                       | 0 |
|    | between Color<br>Macros)          | 215-244   | 2m - 4m50s (10s steps)                                 |                                       |   |
|    | ,                                 | 245-255   | 5m - 15m (1m steps)                                    |                                       |   |
| 11 | Device Settings                   |           |  | according to Device Settings RGB mode | 0 |

| 15 C | H RGB Mode (Color | Calibrated) |  |  |         |  |  |
|------|-------------------|-------------|--|--|---------|--|--|
| Ch.  | Function          | Value       | Setting                                      |  | Default |  |  |
| 1    | Dimmer            | 000-255     | 0 - 100%                                     |  | 0       |  |  |
| 2    | Dimmer Fine       | 000-255     | 0 - 100%                                     |  | 0       |  |  |
|      |                   | 000 - 019   | Shutter close                                |  |         |  |  |
|      |                   | 020 - 024   | Shutter open                                 |  |         |  |  |
|      |                   | 025 - 064   | Strobe 1 (fast ⊕ slow)                       |  |         |  |  |
|      |                   | 065 - 069   | Shutter open                                 | Shutter open                                   |         |  |  |
|      |                   | 070 - 084   | Strobe 2: opening pulse                      | 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 strob                       | e (fast ⊕ slow)                                |         |  |  |
|      |                   | 125 - 129   | Shutter open                                 |  |         |  |  |
| 2    | Chuttan           | 130 - 144   | Strobe 5: random opening pulse (fast ⊕ slow) |  | 20      |  |  |
| 3    | Shutter           | 145 - 149   | Shutter open                                 |  | 20      |  |  |
|      |                   | 150 - 164   | Strobe 6:random closing pulse (fast ⊕ slow)  |  |         |  |  |
|      |                   | 165 - 169   | Shutter open                                 |  |         |  |  |
|      |                   | 170 - 184   | Strobe 7: burst pulse (fo                    | ast ⊕ slow)                                    |         |  |  |
|      |                   | 185 - 189   | Shutter open                                 |  |         |  |  |
|      |                   | 190 - 204   | Strobe 8: random burst                       | pulse (fast ⊕ slow)                            |         |  |  |
|      |                   | 205 - 209   | Shutter open                                 |  |         |  |  |
|      |                   | 210 - 224   | Strobe 9:sine wave (fas                      | st ⊛ slow)                                     |         |  |  |
|      |                   | 225 - 229   | Shutter open                                 |  |         |  |  |
|      |                   | 230 - 244   | Strobe 10: burst (fast ⊕                     | slow)  |         |  |  |
|      |                   | 245 - 255   | Shutter open                                 |  |         |  |  |
| 4    | Duration          | 000-255     | 0 - 100%                                     | (only affects to channel 3 - Strobe 1 025-064) | 0       |  |  |
| 5    | Red               | 000-255     | 0 - 100%                                     |  | 255     |  |  |
| 6    | Red Fine          | 000-255     | 0 - 100%                                     |  | 255     |  |  |
| 7    | Green             | 000-255     | 0 - 100%                                     |  | 255     |  |  |
| 8    | Green Fine        | 000-255     | 0 - 100%                                     |  | 255     |  |  |
| 9    | Blue              | 000-255     | 0 - 100%                                     |  | 255     |  |  |
| 10   | Blue Fine         | 000-255     | 0 - 100%                                     |  | 255     |  |  |

| 15 C | H RGB Mode (Color                     | Calibrated) |  |                                |                             |   |
|------|---------------------------------------|-------------|--|--------------------------------|-----------------------------|---|
|      |                                       | 000 - 004   | 5600K  |                                |                             |   |
|      |                                       | 005-226     | 2000K-6500K linear in 20-21K st<br>(please see detailed CTC chart) | eps                            |                             |   |
| 11   | (affects RGB)                         | 182-182     | 5600K  |                                | according to CTC chart.     | 0 |
|      | (4.133631132)                         | 226-226     | 6500K  |                                |                             |   |
|      |                                       | 227-255     | 6621K-10.000K linear in 120-121<br>(please see detailed CTC chart) | K steps                        |                             |   |
|      |                                       | 0           | no function  |                                |                             |   |
| 10   | Tint<br>(affects CTC<br>and RGB)      | 001-127     | Magenta -> Neutral   |                                | 128                         |   |
| 12   |                                       | 128-128     | Neutral  |                                |                             |   |
|      |                                       | 129-255     | Neutral -> Green   |                                |                             |   |
| 13   | Color Macro<br>(override RGB<br>/CTC) |             | According to Color Macro Chart                                     | According to Color Macro Chart |                             |   |
|      |                                       | 000 - 005   | no function  |                                |                             |   |
|      | Color Macro<br>Crossfade              | 006-105     | 0,1s - 10s (0,1s steps)  |                                |                             | 0 |
| 14   | (Transition Time                      | 106-214     | 11s - 119s (1s steps)  |                                |                             |   |
|      | between Color<br>Macros)              | 215-244     | 2m - 4m50s (10s steps)   |                                |                             |   |
|      | ,                                     | 245-255     | 5m - 15m (1m steps)  |                                |                             |   |
| 15   | Device Settings                       |             |  | according                      | to Device Settings RGB mode | 0 |

| 4 CH | 4 CH - DIRECT MODE (RAW Balance) |         |          |         |  |  |  |  |
|------|----------------------------------|---------|----------|---------|--|--|--|--|
| Ch.  | Function                         | Value   | Setting  | Default |  |  |  |  |
| 1    | Red                              | 000-255 | 0 - 100% | 0       |  |  |  |  |
| 2    | Green                            | 000-255 | 0 - 100% | 0       |  |  |  |  |
| 3    | Blue                             | 000-255 | 0 - 100% | 0       |  |  |  |  |
| 4    | Lime                             | 000-255 | 0 - 100% | 0       |  |  |  |  |

| 8 CH | CH - DIRECT MODE (RAW Balance) |         |          |         |  |  |  |
|------|--------------------------------|---------|----------|---------|--|--|--|
| Ch.  | Function                       | Value   | Setting  | Default |  |  |  |
| 1    | Red                            | 000-255 | 0 - 100% | 0       |  |  |  |
| 2    | Red Fine                       | 000-255 | 0 - 100% | 0       |  |  |  |
| 3    | Green                          | 000-255 | 0 - 100% | 0       |  |  |  |
| 4    | Green Fine                     | 000-255 | 0 - 100% | 0       |  |  |  |
| 5    | Blue                           | 000-255 | 0 - 100% | 0       |  |  |  |
| 6    | Blue Fine                      | 000-255 | 0 - 100% | 0       |  |  |  |
| 7    | Lime                           | 000-255 | 0 - 100% | 0       |  |  |  |
| 8    | Lime Fine                      | 000-255 | 0 - 100% | 0       |  |  |  |

| 9 CH | - DIRECT MODE (R       | AW Balance) |   |               |                                |         |  |
|------|------------------------|-------------|---|---------------|--------------------------------|---------|--|
| Ch.  | Function               | Value       | Setting   |               |                                | Default |  |
| 1    | Dimmer                 | 000-255     | 0 - 100%  |               |                                | 0       |  |
|      |                        | 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 6                                 | ∋ slow)       |                                |         |  |
|      |                        | 125 - 129   | Shutter open  |               |                                |         |  |
|      |                        | 130 - 144   | Strobe 5: random opening puls                                   | se (fast⊕slov | v)                             |         |  |
| 2    | Shutter                | 145 - 149   | Shutter open  |               |                                | 20      |  |
|      |                        | 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%  |               |                                | 255     |  |
| 4    | Green                  | 000-255     | 0 - 100%  |               |                                | 255     |  |
| 5    | Blue                   | 000-255     | 0 - 100%  |               |                                | 255     |  |
| 6    | Lime                   | 000-255     | 0 - 100%  |               |                                | 255     |  |
|      |                        | 000 - 004   | RAW   |               |                                |         |  |
|      |                        | 005-226     | 2000K-6500K linear in 20-21k<br>(please see detailed CTC chart  |               |                                |         |  |
| 7    | CTC<br>(affects RGBL)  | 182-182     | 5600K   |               | according to CTC chart.        | 0       |  |
|      | (directs ridbl)        | 226-226     | 6500K   |               |                                |         |  |
|      |                        | 227-255     | 6621K-10.000K linear in 120-1<br>(please see detailed CTC chart |               |                                |         |  |
|      |                        | 0           | no function   |               |                                |         |  |
| 0    | Tint                   | 001-127     | Magenta -> Neutral  |               |                                | 1.00    |  |
| 8    | (affects CTC and RGBL) | 128-128     | Neutral   |               |                                | 128     |  |
|      | ,                      | 129-255     | Neutral -> Green  |               |                                |         |  |
| 9    | Device Settings        |             |   | according     | to Device Settings DIRECT mode | 0       |  |

| 12 C | H - DIRECT MODE (                    | RAW Balance | e)  |                       |                               |         |
|------|--------------------------------------|-------------|---|-----------------------|-------------------------------|---------|
| Ch.  | Function                             | Value       | Setting   |                       |                               | Default |
| 1    | Dimmer                               | 000-255     | 0 - 100%  |                       |                               | 0       |
|      |                                      | 000 - 019   | Shutter close                                     |                       |                               |         |
|      |                                      | 020 - 024   | Shutter open                                      |                       |                               |         |
|      |                                      | 025 - 064   | Strobe 1 (fast ⊕ slow)                            |                       |                               |         |
|      |                                      | 065 - 069   | Shutter open                                      |                       |                               |         |
|      |                                      | 070 - 084   | Strobe 2: opening pulse                           | e (fast ⊕ slow)       |                               |         |
|      |                                      | 085 - 089   | Shutter open                                      |                       |                               |         |
|      |                                      | 090 - 104   | Strobe 3: closing pulse                           | (fast ⊕ slow)         |                               |         |
|      |                                      | 105 - 109   | Shutter open                                      |                       |                               |         |
|      |                                      | 110 - 124   | Strobe 4: random strob                            | e (fast ⊕ slow)       |                               |         |
|      |                                      | 125 - 129   | Shutter open                                      |                       |                               |         |
| 2    | Chuttan                              | 130 - 144   | Strobe 5: random open                             | ing pulse (fast⊖slov  | v)                            | 20      |
| 2    | Shutter                              | 145 - 149   | Shutter open                                      |                       |                               | 20      |
|      |                                      | 150 - 164   | Strobe 6:random closin                            | g 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                             | 000-255     | 0 - 100%  | (only affects to      | channel 3 - Strobe 1 025-064) | 0       |
| 4    | Red                                  | 000-255     | 0 - 100%  |                       |                               | 255     |
| 5    | Green                                | 000-255     | 0 - 100%  |                       |                               | 255     |
| 6    | Blue                                 | 000-255     | 0 - 100%  |                       |                               | 255     |
| 7    | Lime                                 | 000-255     | 0 - 100%  |                       |                               | 255     |
|      |                                      | 000 - 004   | RAW   |                       |                               |         |
|      |                                      | 005-226     | 2000K-6500K linear in<br>(please see detailed CT  |                       |                               |         |
| 8    | CTC<br>(affects RGBL)                | 182-182     | 5600K   |                       | according to CTC chart        | 0       |
|      | (dricets NGDL)                       | 226-226     | 6500K   |                       |                               |         |
|      |                                      | 227-255     | 6621K-10.000K linear i<br>(please see detailed CT |                       |                               |         |
|      |                                      | 0           | no function                                       |                       |                               |         |
| 0    | Tint                                 | 001-127     | Magenta -> Neutral                                |                       |                               | 400     |
| 9    | (affects CTC and RGBL)               | 128-128     | Neutral   |                       |                               | 128     |
|      | ,                                    | 129-255     | Neutral -> Green                                  |                       |                               |         |
| 10   | Color Macro (over-<br>ride RGBL,CTC) |             | according to Color Mac                            | ro Chart              |                               | 0       |

| 12 C | H - DIRECT MODE (F       | RAW Balance |   |   |
|------|--------------------------|-------------|---|---|
|      |                          | 000 - 005   | no function                             |   |
|      | Color Macro<br>Crossfade | 006-105     | 0,1s - 10s (0,1s steps)                 |   |
| 11   | (Transition Time         | 106-214     | 11s - 119s (1s steps)                   | 0 |
|      | between Color<br>Macros) | 215-244     | 2m - 4m50s (10s steps)                  |   |
|      | Widerosy                 | 245-255     | 5m - 15m (1m steps)                     |   |
| 12   | Device Settings          |             | according to Device Settings DIRECTmode | 0 |

| 17 C | H - DIRECT MODE | (RAW Balance |   |         |
|------|-----------------|--------------|---|---------|
| Ch.  | Function        | Value        | Setting   | Default |
| 1    | Dimmer          | 000-255      | 0 - 100%  | 0       |
| 2    | Dimmer Fine     | 000-255      | 0 - 100%  | 0       |
|      |                 | 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  |         |
|      | Shutter         | 130 - 144    | Strobe 5: random opening pulse (fast ⊕ slow)            | 20      |
|      |                 | 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  |         |
|      | Duration        | 000-255      | 0 - 100% (only affects to channel 3 - Strobe 1 025-064) | 0       |
|      | Red             | 000-255      | 0 - 100%  | 255     |
|      | Red Fine        | 000-255      | 0 - 100%  | 255     |
|      | Green           | 000-255      | 0 - 100%  | 255     |

| 3  | Green Fine                            | 000-255   | 0 - 100%  | 0 - 100%    |                               | 255 |
|----|---------------------------------------|-----------|---|-------------|-------------------------------|-----|
| )  | Blue                                  | 000-255   | 0 - 100%  |             |                               | 255 |
| LO | Blue Fine                             | 000-255   | 0 - 100%  |             |                               | 255 |
| 11 | Lime                                  | 000-255   | 0 - 100%  |             |                               | 255 |
| 12 | Lime Fine                             | 000-255   | 0 - 100%  |             |                               | 255 |
|    |                                       | 000 - 004 | RAW   |             |                               |     |
|    |                                       | 005-226   | 2000K-6500K linear in 20-21K ste<br>(please see detailed CTC chart) | eps         |                               |     |
| L3 | CTC<br>(affects RGBL)                 | 182-182   | 5600K   |             | according to CTC chart        | 0   |
|    | (directs redbz)                       | 226-226   | 6500K   |             |                               |     |
|    |                                       | 227-255   | 6621K-10.000K linear in 120-121k<br>(please see detailed CTC chart) | < steps     |                               |     |
|    |                                       | 0         | no function   |             |                               |     |
| 4  | Tint                                  | 001-127   | Magenta -> Neutral  |             |                               | 120 |
| .4 | (affects CTC<br>and RGBL)             | 128-128   | Neutral   |             |                               | 128 |
|    |                                       | 129-255   | Neutral -> Green  |             |                               |     |
| 15 | Color Macro<br>(override<br>RGBL,CTC) |           | please use color macros from ROX                                    | X color mo  | acro chart                    | 0   |
|    |                                       | 000 - 005 | no function   |             |                               |     |
|    | Color Macro                           | 006-105   | 0,1s - 10s (0,1s steps)   |             |                               |     |
| 16 | Crossfade<br>(Transition Time         | 106-214   | 11s - 119s (1s steps)   |             | 0                             |     |
|    | between Color<br>Macros)              | 215-244   | 2m - 4m50s (10s steps)  |             |                               |     |
|    |                                       | 245-255   | 5m - 15m (1m steps)   |             |                               |     |
| .7 | Device Settings                       |           |   | accordina t | o Device Settings DIRECT mode | 0   |

| 10CI | 10CH - HSI Mode (Color Calibrated) |           |                                       |         |  |
|------|------------------------------------|-----------|---------------------------------------|---------|--|
| Ch.  | Function                           | Value     | Setting                               | Default |  |
| 1    | Dimmer                             | 000-255   | 0 - 100%                              | 0       |  |
| 2    | Dimmer Fine                        | 000-255   | 0 - 100%                              | 0       |  |
|      |                                    | 000 - 019 | Shutter close                         |         |  |
|      | Shutter                            | 020 - 024 | Shutter open                          |         |  |
|      |                                    | 025 - 064 | Strobe 1 (fast ⊕ slow)                |         |  |
| 2    |                                    | 065 - 069 | Shutter open                          | 20      |  |
| 3    |                                    | 070 - 084 | Strobe 2: opening pulse (fast ⊕ slow) | 20      |  |
|      |                                    | 085 - 089 | Shutter open                          |         |  |
|      |                                    | 090 - 104 | Strobe 3: closing pulse (fast ⊕ slow) |         |  |
|      |                                    | 105 - 109 | Shutter open                          |         |  |

| 10CF | H - HSI Mode (Color  | Calibrated) |   |            |                               |     |
|------|--|-------------|---|------------|-------------------------------|-----|
|      |  | 110 - 124   | Strobe 4: random strobe (fast ⊕ s                                 | 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  |            |                               |     |
| 2    | Shutter  | 170 - 184   | Strobe 7: burst pulse (fast ⊕ slow)                               |            |                               | 20  |
| 3    | Snutter  | 185 - 189   | Shutter open  |            |                               | 20  |
|      |  | 190 - 204   | Strobe 8: random burst pulse (fa                                  | st ⊕ 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°  |            |                               | 0   |
| 5    | Saturation   | 000-255     | 0 - 100%  |            | 0                             |     |
|      | CTC (affects HUE<br>and Saturation)><br>CTC no effect if Sa-<br>turation to 100% | 000 - 004   | 5600K   |            |                               | 0   |
|      |  | 005-226     | 2000K-6500K linear in 20-21K s<br>(please see detailed CTC chart) | steps      |                               |     |
| 6    |  | 182-182     | 5600K   |            | according to CTC chart        |     |
|      |  | 226-226     | 6500K   |            |                               |     |
|      |  | 227-255     | 6621K-10.000K linear in 120-12<br>(please see detailed CTC chart) | 1K steps   |                               |     |
|      | <b>Tint</b> (affects CTC,  | 0           | no function   |            |                               |     |
| 7    | HUE and Satura-  | 001-127     | Magenta -> Neutral  |            |                               | 120 |
| 7    | tion)> Tint no effect if Saturation  | 128-128     | Neutral   |            |                               | 128 |
|      | to 100%  | 129-255     | Neutral -> Green  |            |                               |     |
| 8    | Color Macro<br>(override HUE/<br>SATURATION/CTC)                                 |             | please use color macros from ROXX color macro chart               |            |                               | 0   |
|      |  | 000 - 005   | no function   |            |                               |     |
|      | Color Macro  | 006-105     | 0,1s - 10s (0,1s steps)   |            |                               |     |
| 9    | Crossfade<br>(Transition Time  | 106-214     | 11s - 119s (1s steps)   |            |                               | 0   |
|      | between Color<br>Macros)   | 215-244     | 2m - 4m50s (10s steps)  |            |                               |     |
|      |  | 245-255     | 5m - 15m (1m steps)   |            |                               |     |
| 10   | Device Settings  |             |   | accordin   | g to Device Settings RGB mode | 0   |

| Devi | ce Setting RGB Modes                      |             |  |        |
|------|---|-------------|--|--------|
| Ch.  | Settings                                  | DMX Value   | Function   | remark |
|      |   | 000-005     | No function  |        |
|      |   | 6           | Display Backlight On (hold 3s)                       |        |
|      |   | 7           | Display Backlight Off (hold 3s)                      |        |
|      |   | 8           | Display Lock On (hold 3s)                            |        |
|      |   | 9           | Display Lock Off (hold 3s)                           |        |
|      |   | 010-014     | reserved / no function                               |        |
|      |   | 15          | DMX Fail - Blackout (hold 3s)                        |        |
|      |   | 16          | DMX Fail - Hold (hold 3s)                            |        |
|      |   | 17          | DMX Fail - Emergency Light (hold 3s)                 |        |
|      |   | 018-022     | reserved / no function                               |        |
|      |   | 23          | Linear Dimmer Curve (hold 3s)                        |        |
|      |   | 24          | Exponential Dimmer Curve (hold 3s)                   |        |
|      |   | 25          | Logarithmic Dimmer Curve (hold 3s)                   |        |
|      |   | 26          | S-Curve Dimmer Curve (hold 3s)                       |        |
|      |   | 027-031     | reserved / no function                               |        |
|      | Davis Catting                             | 32          | Dimmer Response LED / fast (hold 3s)                 |        |
|      | Device Settings<br>(please see remark *1) | 33 reserved | reserved / no function                               |        |
|      |   | 34          | Dimmer Respononse Halogen / slow (hold 3s)           |        |
|      |   | 035-039     | reserved / no function                               |        |
|      |   | 40          | Calibration - High CRI<br>(Colors & CCT / hold 3s)   |        |
|      |   | 41          | Calibration - Normal CRI<br>(Colors & CCT / hold 3s) |        |
|      |   | 042-046     | reserved / no function                               |        |
|      |   | 47          | LED Frequency 800Hz (hold 3s)                        |        |
|      |   | 48          | LED Frequency 1200Hz (hold 3s)                       |        |
|      |   | 49          | LED Frequency 2000Hz (hold 3s)                       |        |
|      |   | 50          | LED Frequency 3600Hz (hold 3s)                       |        |
|      |   | 51          | LED Frequency 12kHz (hold 3s)                        |        |
|      |   | 52          | LED Frequency 25kHz (hold 3s)                        |        |
|      |   | 053-057     | reserved / no function                               |        |
|      |   | 58          | Fan Auto 1 (hold 3s)                                 |        |
|      |   | 59          | Fan Auto 2 (hold 3s)                                 |        |
|      |   | 60          | Fan Silent (hold 3s)                                 |        |

| Device Setting RGB Modes |  |                          |   |   |
|--------------------------|--|--------------------------|---|---|
| Ch.                      | Settings                                 | DMX Value                | Function  | remark  |
|                          |  | 61                       | Fan Studio (hold 3s)                            |   |
|                          |  | 62                       | Fan Off (hold 3s)                               |   |
|                          |  | 63                       | Fan High Power (hold 3s)                        |   |
|                          |  | 064-068                  | reserved / no function                          |   |
|                          |  | 69                       | Redshift On (hold 3s)                           | Redshift (affects only between 2700-3500K)  |
|                          |  | 70                       | Redshift Off (hold 3s)                          |   |
|                          | D . C                                    | 071-244                  | reserved / no function                          |   |
|                          | Device Settings<br>(please see remark *1 | 245                      | Snapshot (hold 3s)                              |   |
|                          |  | 246-248                  | reserved / no function                          |   |
|                          |  | 249                      | User Reset (hold 3s)                            | No Change of DMX Address<br>and Mode! / Reset activates<br>only if Shutter is set to DMX<br>250 |
|                          |  | 250                      | Factory Reset (hold 3s)                         | No Change of DMX Address<br>and Mode! / Reset activates<br>only if Shutter is set to DMX<br>250 |
|                          |  | 251 - 255 reserved       | No Function                                     |   |
| remark                   | *1: After adjustments plea               | se set the value back to | o 000 to avoid any disturbance by endless funct | ion call.   |

| Devi | Device Setting DIRECT Modes |             |  |        |  |
|------|-----------------------------|-------------|--|--------|--|
| Ch.  | Settings                    | DMX Value   | Function                                   | remark |  |
|      |                             | 000-005     | No function                                |        |  |
|      |                             | 6           | Display Backlight On (hold 3s)             |        |  |
|      |                             | 7           | Display Backlight Off (hold 3s)            |        |  |
|      |                             | 8           | Display Lock On (hold 3s)                  |        |  |
|      |                             | 9           | Display Lock Off (hold 3s)                 |        |  |
|      |                             | 010-014     | reserved / no function                     |        |  |
|      |                             | 15          | DMX Fail - Blackout (hold 3s)              |        |  |
|      |                             | 16          | DMX Fail - Hold (hold 3s)                  |        |  |
|      |                             | 17          | DMX Fail - Emergency Light (hold 3s)       |        |  |
|      |                             | 018-022     | reserved / no function                     |        |  |
|      |                             | 23          | Linear Dimmer Curve (hold 3s)              |        |  |
|      |                             | 24          | Exponential Dimmer Curve (hold 3s)         |        |  |
|      |                             | 25          | Logarithmic Dimmer Curve (hold 3s)         |        |  |
|      |                             | 26          | S-Curve Dimmer Curve (hold 3s)             |        |  |
|      |                             | 027-031     | reserved / no function                     |        |  |
|      | Device Settings             | 32          | Dimmer Response LED / fast (hold 3s)       |        |  |
|      | (please see remark *1)      | 33 reserved | reserved / no function                     |        |  |
|      |                             | 34          | Dimmer Respononse Halogen / slow (hold 3s) |        |  |
|      |                             | 035-039     | reserved / no function                     |        |  |
|      |                             | 40          | RAW Mode (hold 3s)                         |        |  |
|      |                             | 41          | User Calibration (hold 3s)                 |        |  |
|      |                             | 042-046     | reserved / no function                     |        |  |
|      |                             | 47          | LED Frequency 800Hz (hold 3s)              |        |  |
|      |                             | 48          | LED Frequency 1200Hz (hold 3s)             |        |  |
|      |                             | 49          | LED Frequency 2000Hz (hold 3s)             |        |  |
|      |                             | 50          | LED Frequency 3600Hz (hold 3s)             |        |  |
|      |                             | 51          | LED Frequency 12kHz (hold 3s)              |        |  |
|      |                             | 52          | LED Frequency 25kHz (hold 3s)              |        |  |
|      |                             | 053-057     | reserved / no function                     |        |  |
|      |                             | 58          | Fan Auto 1 (hold 3s)                       |        |  |
|      |                             | 59          | Fan Auto 2 (hold 3s)                       |        |  |
|      |                             | 60          | Fan Silent (hold 3s)                       |        |  |

| ٦. | Settings                                  | DMX Value          | Function                 | remark  |
|----|---|--------------------|--------------------------|---|
|    |   | 61                 | Fan Studio (hold 3s)     |   |
|    |   | 62                 | Fan Off (hold 3s)        |   |
|    |   | 63                 | Fan High Power (hold 3s) |   |
|    |   | 064-068            | reserved / no function   |   |
|    |   | 69                 | Redshift On (hold 3s)    | Redshift (affects only between 2700-3500K)  |
|    |   | 70                 | Redshift Off (hold 3s)   |   |
|    | D : C !!                                  | 071-244            | reserved / no function   |   |
|    | Device Settings<br>(please see remark *1) | 245                | Snapshot (hold 3s)       |   |
|    |   | 246-248            | reserved / no function   |   |
|    |   | 249                | User Reset (hold 3s)     | No Change of DMX Addres<br>and Mode! / Reset activate<br>only if Shutter is set to DMX<br>250 |
|    |   | 250                | Factory Reset (hold 3s)  | No Change of DMX Addres<br>and Mode! / Reset activate<br>only if Shutter is set to DM.<br>250 |
|    |   | 251 - 255 reserved | No Function              |   |

# **Color Macro Chart**

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

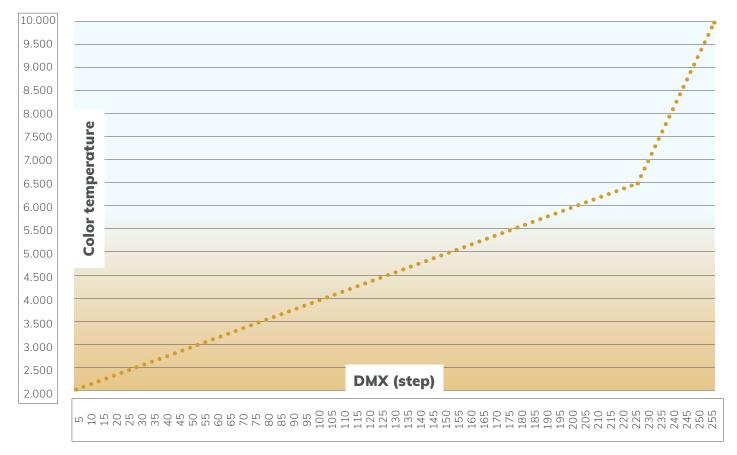
| Gels - Color Macros for DMX |                                    |                |  |  |  |
|-----------------------------|------------------------------------|----------------|--|--|--|
| DMX value                   | Gel Name                           | Color Number   |  |  |  |
| 102-104                     | Special Med Lavender               | LEE 343        |  |  |  |
| 105-107                     | Ultimate Violet                    | LEE 707        |  |  |  |
| 108-110                     | Magical Magenta                    | LEE 795        |  |  |  |
| 111-113                     | Chrysalis Pink                     | LEE 798        |  |  |  |
| 114-116                     | Specia KH Lavender                 | LEE 799        |  |  |  |
| 117-119                     | Bulb White                         | 2700K/High CRI |  |  |  |
| 120-122                     | Halogen White                      | 3200K/High CRI |  |  |  |
| 123-125                     | Neutral White                      | 4200K/High CRI |  |  |  |
| 126-128                     | Daylight White                     | 5600K/High CRI |  |  |  |
| 129-131                     | Cold White I                       | 6000K/High CRI |  |  |  |
| 132-134                     | Cold White II                      | 6300K/High CRI |  |  |  |
| 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<br>slow ⊕ fast | color 1-37     |  |  |  |
| 210-255                     | Color fading speed<br>slow ⊕ fast  | color 1-37     |  |  |  |

# **Color Macro Chart**

| 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 - Co | 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 / High CRI |  |  |  |  |
| 39        | Halogen White                           | 3200K/High CRI   |  |  |  |  |
| 40        | Neutral White                           | 4200K / High CRI |  |  |  |  |
| 41        | Daylight White                          | 5600K/High CRI   |  |  |  |  |
| 42        | Cold White I                            | 6000 / High CRI  |  |  |  |  |
| 43        | Cold White II                           | 6300K/High CRI   |  |  |  |  |
| 44        | White (only if available)               | 100% White LED   |  |  |  |  |
| 45        | Amber (only if available)               | 100% Amber LED   |  |  |  |  |
| 46        | Lime (only if available)                | 100% Lime LED    |  |  |  |  |
| 47        | Cyan (only if available)                | 100% Cyan LED    |  |  |  |  |

CTC channel DMX / Color temperature



# CTC-Chart

| DMX    | Color        |
|--------|--------------|
| (Step) | Temp<br>(°K) |
| 0      | 5600         |
| 1      | 5600         |
| 2      | 5600         |
| 3      | 5600         |
| 4      | 5600         |
| 5      | 2000         |
| 6      | 2020         |
| 7      | 2041         |
| 8      | 2061         |
| 9      | 2081         |
| 10     | 2102         |
| 11     | 2122         |
| 12     | 2143         |
| 13     | 2163         |
| 14     | 2183         |
| 15     | 2204         |
| 16     | 2224         |
| 17     | 2244         |
| 18     | 2265         |
| 19     | 2285         |
| 20     | 2305         |
| 21     | 2326         |
| 22     | 2346         |
| 23     | 2367         |
| 24     | 2387         |
| 25     | 2407         |
| 26     | 2428         |
| 27     | 2448         |
| 28     | 2468         |
| 29     | 2489         |
| 30     | 2509         |
| 31     | 2529         |
| 32     | 2550         |
| 33     | 2570         |
| 34     | 2590         |
| 35     | 2611         |
| 36     | 2631         |
| 37     | 2652         |
| 38     | 2672         |
| 39     | 2692         |
| 40     | 2713         |
| 41     | 2733         |
| 42     | 2753         |
|        |              |

| DMX (Step)         Color Temp (°K)           43         2774           44         2794           45         2814           46         2835           47         2855           48         2876           49         2896           50         2916           51         2937           52         2957           53         2977           54         2998           55         3018           56         3038           57         3059           58         3079           59         3100           60         3120           61         3140           62         3161           63         3181           64         3201           65         3222           66         3242           67         3262           68         3283           69         3303           70         3324           71         3446           73         3425           76         3446           79         3507 |    |      |
|--|----|------|
| 44       2794         45       2814         46       2835         47       2855         48       2876         49       2896         50       2916         51       2937         52       2957         53       2977         54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3464         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       35  |    | Temp |
| 45       2814         46       2835         47       2855         48       2876         49       2896         50       2916         51       2937         52       2957         53       2977         54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3464         73       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       35  | 43 | 2774 |
| 46       2835         47       2855         48       2876         49       2896         50       2916         51       2937         52       2957         53       2977         54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3464         73       3385         74       3405         75       3425         76       3446         79       3507         80       3527         81       3548         82       3568         83       35  | 44 | 2794 |
| 47       2855         48       2876         49       2896         50       2916         51       2937         52       2957         53       2977         54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         79       3507         80       3527         81       3548         82       3568         83       3588         84       36  | 45 | 2814 |
| 48       2876         49       2896         50       2916         51       2937         52       2957         53       2977         54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       35  | 46 | 2835 |
| 49       2896         50       2916         51       2937         52       2957         53       2977         54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 47 | 2855 |
| 50       2916         51       2937         52       2957         53       2977         54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 48 | 2876 |
| 51       2937         52       2957         53       2977         54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 49 | 2896 |
| 52       2957         53       2977         54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 50 | 2916 |
| 53       2977         54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 51 | 2937 |
| 54       2998         55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 52 | 2957 |
| 55       3018         56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 53 | 2977 |
| 56       3038         57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 54 | 2998 |
| 57       3059         58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 55 | 3018 |
| 58       3079         59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 56 | 3038 |
| 59       3100         60       3120         61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 57 | 3059 |
| 60 3120<br>61 3140<br>62 3161<br>63 3181<br>64 3201<br>65 3222<br>66 3242<br>67 3262<br>68 3283<br>69 3303<br>70 3324<br>71 3344<br>72 3364<br>73 3385<br>74 3405<br>75 3425<br>76 3446<br>77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609  | 58 | 3079 |
| 61       3140         62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 59 | 3100 |
| 62       3161         63       3181         64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 60 | 3120 |
| 63 3181<br>64 3201<br>65 3222<br>66 3242<br>67 3262<br>68 3283<br>69 3303<br>70 3324<br>71 3344<br>72 3364<br>73 3385<br>74 3405<br>75 3425<br>76 3446<br>77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609   | 61 | 3140 |
| 64       3201         65       3222         66       3242         67       3262         68       3283         69       3303         70       3324         71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 62 | 3161 |
| 65 3222<br>66 3242<br>67 3262<br>68 3283<br>69 3303<br>70 3324<br>71 3344<br>72 3364<br>73 3385<br>74 3405<br>75 3425<br>76 3446<br>77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609   | 63 | 3181 |
| 66 3242<br>67 3262<br>68 3283<br>69 3303<br>70 3324<br>71 3344<br>72 3364<br>73 3385<br>74 3405<br>75 3425<br>76 3446<br>77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609  | 64 | 3201 |
| 67 3262<br>68 3283<br>69 3303<br>70 3324<br>71 3344<br>72 3364<br>73 3385<br>74 3405<br>75 3425<br>76 3446<br>77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609   | 65 | 3222 |
| 68 3283<br>69 3303<br>70 3324<br>71 3344<br>72 3364<br>73 3385<br>74 3405<br>75 3425<br>76 3446<br>77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609  | 66 | 3242 |
| 69 3303<br>70 3324<br>71 3344<br>72 3364<br>73 3385<br>74 3405<br>75 3425<br>76 3446<br>77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609   | 67 | 3262 |
| 70 3324<br>71 3344<br>72 3364<br>73 3385<br>74 3405<br>75 3425<br>76 3446<br>77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609  | 68 | 3283 |
| 71       3344         72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 69 | 3303 |
| 72       3364         73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 70 | 3324 |
| 73       3385         74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 71 | 3344 |
| 74       3405         75       3425         76       3446         77       3466         78       3486         79       3507         80       3527         81       3548         82       3568         83       3588         84       3609  | 72 | 3364 |
| 75 3425<br>76 3446<br>77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609   | 73 | 3385 |
| 76 3446<br>77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609  | 74 | 3405 |
| 77 3466<br>78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609   | 75 | 3425 |
| 78 3486<br>79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609  | 76 | 3446 |
| 79 3507<br>80 3527<br>81 3548<br>82 3568<br>83 3588<br>84 3609   | 77 | 3466 |
| 80     3527       81     3548       82     3568       83     3588       84     3609  | 78 | 3486 |
| 81     3548       82     3568       83     3588       84     3609  | 79 | 3507 |
| 82     3568       83     3588       84     3609  | 80 | 3527 |
| 83 3588<br>84 3609   | 81 | 3548 |
| 84 3609  | 82 | 3568 |
|  | 83 | 3588 |
| 85 3629  | 84 | 3609 |
| 1  | 85 | 3629 |

| DMX    | Color        |
|--------|--------------|
| (Step) | Temp<br>(°K) |
| 86     | 3649         |
| 87     | 3670         |
| 88     | 3690         |
| 89     | 3710         |
| 90     | 3731         |
| 91     | 3751         |
| 92     | 3771         |
| 93     | 3792         |
| 94     | 3812         |
| 95     | 3833         |
| 96     | 3853         |
| 97     | 3873         |
| 98     | 3894         |
| 99     | 3914         |
| 100    | 3934         |
| 101    | 3955         |
| 102    | 3975         |
| 103    | 3995         |
| 104    | 4016         |
| 105    | 4036         |
| 106    | 4057         |
| 107    | 4077         |
| 108    | 4097         |
| 109    | 4118         |
| 110    | 4138         |
| 111    | 4158         |
| 112    | 4179         |
| 113    | 4199         |
| 114    | 4219         |
| 115    | 4240         |
| 116    | 4260         |
| 117    | 4281         |
| 118    | 4301         |
| 119    | 4301         |
| 120    | 4342         |
| 121    | 4362         |
| 122    | 4382         |
| 123    | 4403         |
| 124    | 4423         |
| 125    | 4443         |
| 126    | 4464         |
| 127    | 4484         |
| 128    | 4505         |

| DMX<br>(Step) | Color<br>Temp |
|---------------|---------------|
|               | (°K)          |
| 129           | 4525          |
| 130           | 4545          |
| 131           | 4566          |
| 132           | 4586          |
| 133           | 4606<br>4627  |
|               |               |
| 135           | 4647          |
| 136           | 4667          |
| 137           | 4688          |
| 138           | 4708          |
| 139           | 4729          |
| 140           | 4749          |
| 141           | 4769          |
| 142           | 4790          |
| 143           | 4810          |
| 144           | 4830          |
| 145           | 4851          |
| 146           | 4871          |
| 147           | 4891          |
| 148           | 4912          |
| 149           | 4932          |
| 150           | 4952          |
| 151           | 4973          |
| 152           | 4993          |
| 153           | 5014          |
| 154           | 5034          |
| 155           | 5054          |
| 156           | 5075          |
| 157           | 5095          |
| 158           | 5115          |
| 159           | 5136          |
| 160           | 5156          |
| 161           | 5176          |
| 162           | 5197          |
| 163           | 5217          |
| 164           | 5238          |
| 165           | 5258          |
| 166           | 5278          |
| 167           | 5299          |
| 168           | 5319          |
| 169           | 5339          |
| 170           | 5360          |
| 171           | 5380          |

| Color |
|-------|
| Temp  |
| (°K)  |
| 5400  |
| 5421  |
| 5441  |
| 5462  |
| 5482  |
| 5502  |
| 5523  |
| 5543  |
| 5563  |
| 5584  |
| 5604  |
| 5624  |
| 5645  |
| 5665  |
| 5686  |
| 5706  |
| 5726  |
| 5747  |
| 5767  |
| 5787  |
| 5808  |
| 5828  |
| 5848  |
| 5869  |
| 5889  |
| 5910  |
| 5930  |
| 5950  |
| 5971  |
| 5991  |
| 6011  |
| 6032  |
| 6052  |
| 6072  |
| 6093  |
| 6113  |
| 6133  |
| 6154  |
| 6174  |
| 6195  |
| 6215  |
| 6235  |
| 6256  |
|       |

| DMX<br>(Step) | Color<br>Temp<br>(°K) |  |
|---------------|-----------------------|--|
| 215           | 6276                  |  |
| 216           | 6296                  |  |
| 217           | 6317                  |  |
| 218           | 6337                  |  |
| 219           | 6357                  |  |
| 220           | 6378                  |  |
| 221           | 6398                  |  |
| 222           | 6419                  |  |
| 223           | 6439                  |  |
| 224           | 6459                  |  |
| 225           | 6480                  |  |
| 226           | 6500                  |  |
| 227           | 6621                  |  |
| 228           | 6741                  |  |
| 229           | 6862                  |  |
| 230           | 6983                  |  |
| 231           | 7103                  |  |
| 232           | 7224                  |  |
| 233           | 7345                  |  |
| 234           | 7466                  |  |
| 235           | 7586                  |  |
| 236           | 7707                  |  |
| 237           | 7828                  |  |
| 238           | 7948                  |  |
| 239           | 8069                  |  |
| 240           | 8190                  |  |
| 241           | 8310                  |  |
| 242           | 8431                  |  |
| 243           | 8552                  |  |
| 244           | 8672                  |  |
| 245           | 8793                  |  |
| 246           | 8914                  |  |
| 247           | 9034                  |  |
| 248           | 9155                  |  |
| 249           | 9276                  |  |
| 250           | 9397                  |  |
| 251           | 9517                  |  |
| 252           | 9638                  |  |
| 253           | 9759                  |  |
| 254           | 9879                  |  |
| 255           | 10000                 |  |

### 7.5 RDM Templates\*

The ROXX NEO mini 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 NEO mini |
|---------------|---------------|
| Model:        | NEO mini      |
| Manufacturer: | ROXX          |
| ID:           | 6A6Ah         |
| Device ID:    | 0139 xxxx     |

#### **RDM functions**

For easy identifying ROXX NEO mini mini mini 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    | DMX modes  |  |
| 0x00E1             | DMX Slots               | Read   | Channels   |  |
| 0x8010             | Fan Mode                | Set    | 1= Auto 1 / 2= Auto 2 / 3= Silent / 4= Studio / 5= Fan Off / 6= Max.<br>Power                                  |  |
| 0x0343 /<br>0x0344 | Dimmer Curve            | Set    | 1= Linear / 2= Exponential / 3= Logarithmic / 4= S-Curve   |  |
| 0x0345 /<br>0x0346 | Dimmer Response         | Set    | 1= LED / 2= Halogen  |  |
| 0x8032             | Redshift                | Set    | 0= Off / 1= On   |  |
| 0x8033             | Color Calibration       | Set    | 0= Normal CRI / 1= High CRI  |  |
| 0x8034             | RAW Balance             | Set    | 0= RAW / 1= User Calibration   |  |
| 0x8035             | User Calibration- Red   | Set    | 000-255  |  |
| 0x8036             | User Calibration- Green | Set    | 000-255  |  |
| 0x8037             | User Calibration- Blue  | Set    | 000-255  |  |
| 0x8038             | User Calibration- Lime  | Set    | 000-255  |  |
| 0x0347 /<br>0x0348 | LED Frequency (PWM)     | Set    | 1=800Hz/2=1200Hz/3=2000Hz/4=3600Hz/5=12kHz/6=25kHz   |  |
| 0x0142             | Startup Mode            | Set    | 0= DMX / 1= AUTO FX / 2= Editor / 3= Color Macro / 4= Quick Color / 5= Tunable White / 6= User Color / 7= Hold |  |
| 0x0141             | DMX Fail                | Set    | 1= Hold / 2= Blackout / 3= Emergency   |  |
| 0x8012             | Display Backlight       | Set    | 0= Off / 1= On   |  |
| 0x8013             | Display Auto Flip       | Set    | 0= Off / 1= On   |  |
| 0x0641             | Display Lock            | Set    | 0= Off / 1= On   |  |
| 0x8018             | CRMX Operating Mode     | Set    | 0= RX / 1= TX  |  |
| 0x8019             | CRMX Receive Reset      | Set    | 0= No / 1= Yes   |  |
| 0x801A             | CRMX Transmit Link      | Set    | 0= No / 1= Yes   |  |
| 0x801B             | CRMX Pass to DMX out    | Set    | 0= No / 1= Yes   |  |
| 0x801C             | Bluetooth               | Set    | 0= Off / 1= On   |  |
| 0x801D             | Bluetooth Link          | Set    | 0= No / 1= Yes   |  |
| 0x8048             | Protocol                | Set    | 1=DMX / 2=Slave  |  |

| 0x801E  | Factory Reset        | Set  | 0= No / 1= Yes |
|---------|----------------------|------|----------------|
| 0x801F  | User Reset           | Set  | 0= No / 1= Yes |
| 0x00C0  | Firmware Version     | Read | n.a.           |
| 0x00D3  | Serial Number        | Read | n.a.           |
| 0x0400  | Device Power on Time | Read | n.a.           |
| 0x0401  | LED on Time          | Read | n.a.           |
| Sensor1 | LED Temperature      | Read | n.a.           |
| Sensor2 | Fan Speed            | Read | n.a.           |

<sup>\*</sup> For more and detailed information about the different reset options please refer to chapter "5.4.6.1 Reset functions"

### 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.   |
| Device is not responding.      | 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.   |
|                                | DMX cable correct?                                       | Check cables.  |
| Device has stopped responding. | 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                                | Please make sure your mobile device is inside the connectivity range of maximum 10-15m.  |
| No Bluetooth Connectivity      | Bluetooth is disabled at your mobile device              | Please eanble 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 connectiviy can be active, please make sure your mobile device is currently not connected to some other devices.       |
|                                | Different mobile device is still conneced to the fixture | Please disconnect other mobile device from fixture.  |
|                                | No Bluetooth Advertisment                                | Please send new BLE advertisement by enable "BLE Link" inside Settings of the fixture.   |
|                                | Bluetooth module has hang up                             | Please enable Factory Reset at the fixture to re-start the Bluetooth module.   |

## 9. MANUFACTURER'S DECLARATION

### Manufacturer's Warranty & Limitations of Liability

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

#### **Requesting Warranty-Service**

To request warranty service for your product, please contact:

ROXX GmbH.

Hansestr. 91, 51149 Köln

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

#### Correct Disposal of this product



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

#### **FCC Statement**

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

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

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

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



### **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











