ROXX®

ROXX NEO lite

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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.

Fully charge the battery again immediately after discharging. Batteries that are not fully charged lose capacity and service life. For short to medium-term storage of the headlamp, fully charge the battery. If the headlamp will not be used for a longer period of time, use the "Storage" function inside the device settings to charge the battery.
This limits the maximum charging capacity to 40% and thus preserves the life of the battery. Do not charge the battery of the NEO lite headlamp at ambient temperatures below 0°C / 32°F and above 40°C / 104°F.
If the headlamps are charged inside a flightcase, the case lid must remain open during the entire charging process in order to avoid heat accumulation.

1.4. Battery Safety

1. Keep the battery poles away from conductive objects, such as keys, jewelry, or other materials. Otherwise, the battery may be short-circuited, resulting in injury and burns.

2. Never change the polarity of the battery's contacts.

3. Keep the battery away from excessive heat and direct sunlight. Do not place it on or in heating devices, such as microwaves, ovens, or radiators. Batteries may explode if overheated.

4. Do not attempt to modify or rework the battery, insert foreign objects into the battery, or immerse the battery in water or other liquids.
   Do not attempt to modify or rework the battery, insert foreign objects into the battery, or immerse or come into contact with water or other liquids. Failure to do so may result in fire, explosion, or other hazardous dangerous situations.

5. In case of battery acid leakage, make sure that it does not get on the skin or in the eyes. if it does, rinse immediately with clean water and consult a doctor.

6. In case of deformation, color change or overheating of batteries during charging or storage, stop using the device immediately. Immediately stop using the device and remove the battery. If you continue to use the device,
   battery acid may leak or a fire or explosion may occur.

7. Do not dispose of batteries in fire as they may explode. Damaged batteries may also explode.

8. Dispose of used batteries in accordance with local regulations. Improper use of the battery may result in a fire, explosion, or other hazardous situation.

9. Do not allow children or pets to chew, suck or suck on the battery. Doing so may cause damage or an explosion may occur.

10. Do not smash or puncture the battery and do not subject it to high pressure. Otherwise, it may cause a short circuit or overheating.

11. Do not drop the device or battery. If the device or battery is dropped, especially on a hard surface, it may be damaged.

12. If the standby time of the device shortens significantly, replace the battery.

13. The installation or replacement of the battery is only permitted for trained personnel. Follow the provided instructions strictly. Neglect can damage the battery or cause it to explode.

14. Avoid frequently discharging the battery below 20% or charging above 80%.
    Stick to the given temperature ranges, as this will greatly affect the battery's lifespan.

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 lite

Illuminate your world with NEO lite, a cutting-edge lighting fixture that combines unparalleled performance with versatility and convenience. With 10 x 20W RGBL LEDs, NEO lite generates an astounding 12.000lx @ 5m, calibrated at 5600K, ensuring your space is bathed in brilliant light. Crafted with precision, the fixture features a specially developed 8° 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 lite boasts a CRI/Ra and TLCI up to 85, ensuring accurate color reproduction that breathes life into your surroundings. Built to withstand the elements, NEO lite 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 lite'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 lite 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 lite 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 lite
⊝ 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
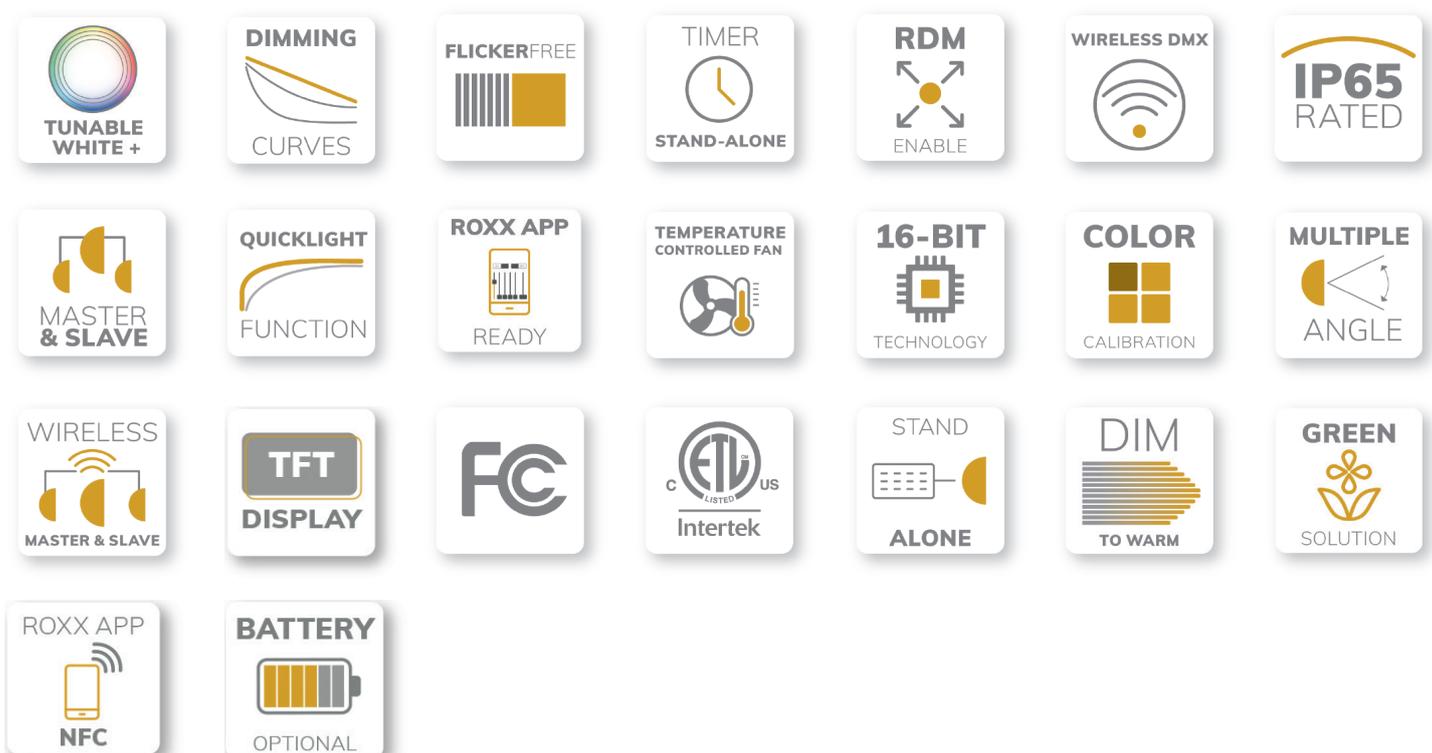
4. INSTALLATION & SETUP

4.1 Physical Installation and Rigging

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

Handle

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.

Omega Bracket ST

Open

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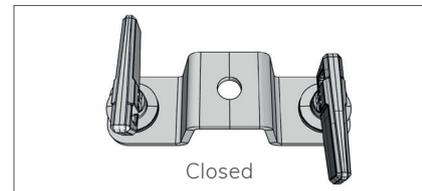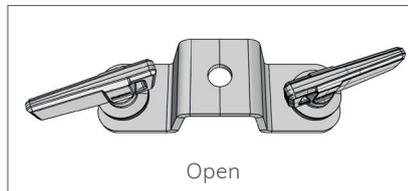
Insert the two fasteners and turn each 90° clockwise to lock them. Please be sure that the fasterners are turned fully and snaped in.

We recommend using the holes inside the yoke to attach a safety wire.
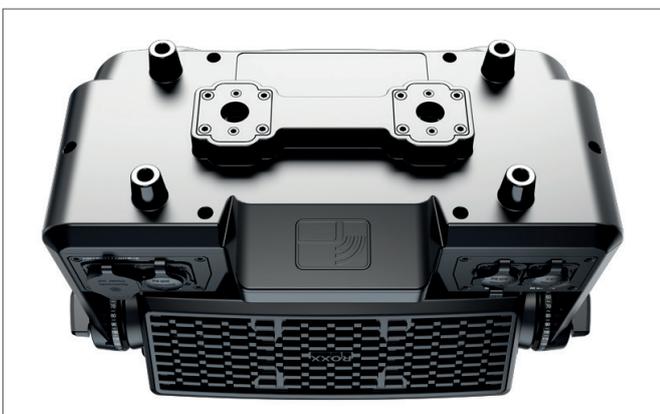
4.2 Connections*

A: DMX IN

B: DMX OUT

C: IP65 Power In connector with rubber sealing cap.

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

D: IP65 Power Out connector with rubber sealing cap.

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

E: On/Off switch for battery operation

ⓘ ***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 lite operates on any 100–260 V, 50/60 Hz AC mains power supply with a maximum power consumption of 215W. Connect the fixture to AC power using the supplied cable or a similar one with Neutrik powerCON TRUE1 NAC3FX-W or a compatible type, to ensure the correct ingress protection (IP).

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

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

Warning!

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

4.2.2 DMX Connection
The NEO lite 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

DATA — 1   5
GND   2 3 4
DATA -
        DATA +
120 Ohm
+/- 5%

DATA — 1   5
GND   2 3 4
DATA -
        DATA +
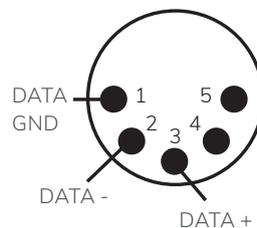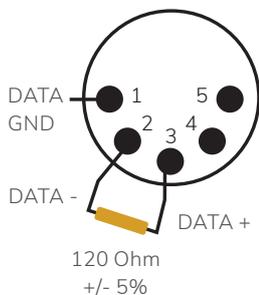
4.2.2.2. Wireless Connection*
NEO lite is equipped with a LumenRadio ™ Transceiver module.
This enables the fixture to work with the following connectivity options:
↪ Working in Receiver Mode: receive wireless DMX- and RDM Signals via CRMX
↪ Working in Transmitter Mode: transmit DMX (1 universe) to other 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 lite 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.

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

• **If CRMX RX is enabled and BLE will 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

11 CH RGB — **1** — **Next (12)** — •DMX

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

11 CH RGB — **1** — **Next (12)** — • CRMX(RX) DMX

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

11 CH RGB — **1** — **Next (12)** — • CRMX(TX) DMX

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

11 CH RGB — **1** — **Next (12)** — • CRMX(RX) DMX

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

11 CH RGB — **1** — **Next (12)** — • CRMX(TX) DMX

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

11 CH RGB — **1** — **Next (12)** — • CRMX(RX) DMX

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

11 CH RGB — **1** — **Next (12)** — • CRMX(RX) DMX

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

4.2.3.2. Wireless Connection

11 CH RGB	**1** Next (12)	• BLE DMX

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

11 CH RGB	**1** Next (12)	CRMX(TX) • BLE DMX

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

11 CH RGB	**1** Next (12)	CRMX(TX) BLE DMX

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

11 CH RGB	**1** Next (12)	CRMX(TX) BLE • DMX

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

4.3. NFC (Near Field Communication)

NEO lite 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 lite 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 lite, please make sure that your phone is very close to the NFC.
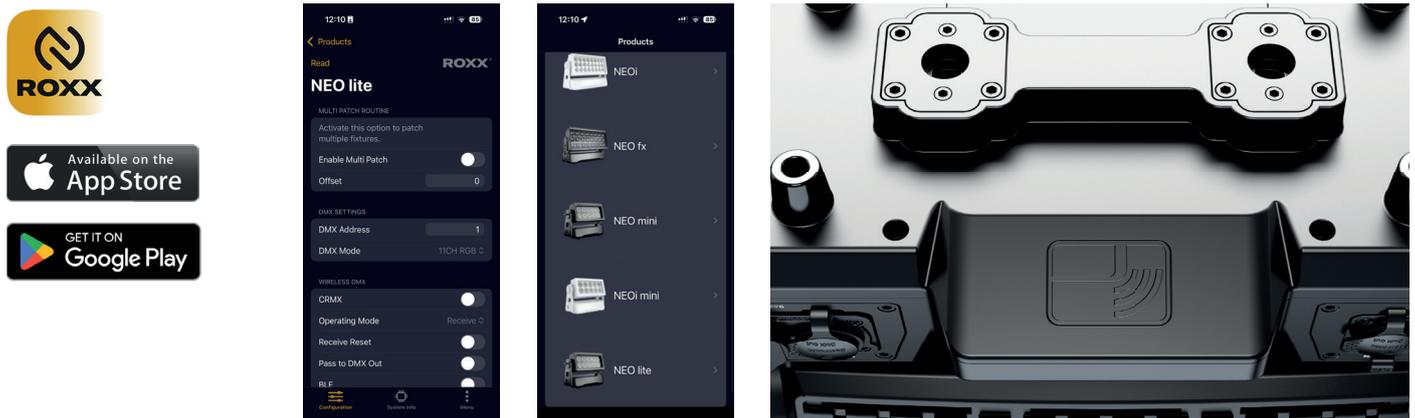
5. OPERATION

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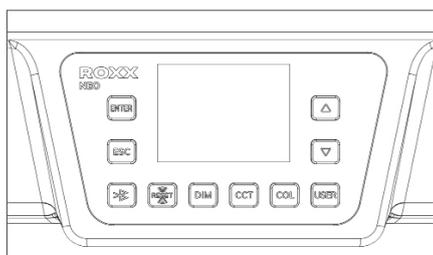
After this process, the fixture is ready for operation, and starts in the previously enabled mode.

ⓘ ***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

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

ESC **Press ESC** to take a step back in the menu.
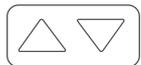
△ ▽ **Press arrows to scroll up and down** inside the menu and change values, such as DMX address.

ⓘ ***Note:**
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*

ENTER ⊕ ESC

Pressing ESC+ENTER simultaneously a Factory Reset or User Reset can be started.
By using the up/down arrows the Factory- or User Reset can be selected.
For confirming press ENTER, to jump back please press ESC.

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

Display Off

| ESC | ➕ | ▽ |

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.

ⓘ ***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

5.4.1 Set DMX Start Address (Direct Access)
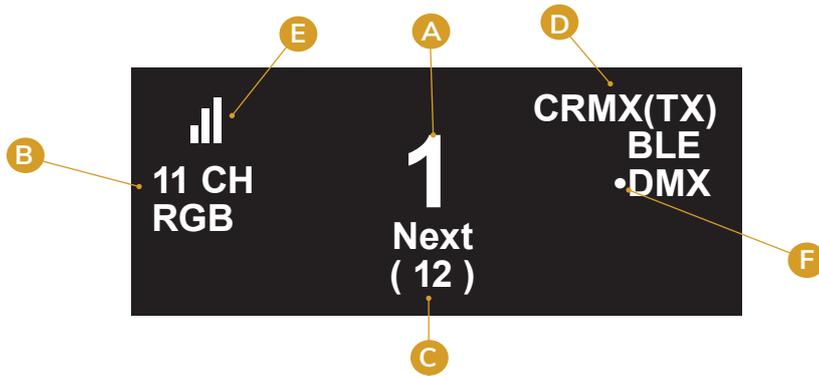
At Home Screen the DMX address can be changed directly by using the up and down arrows. During this process the DMX address starts blinking, once it´s confirmed by pressing ENTER it stops blinking.
If the DMX address will not be confirmed by ENTER within 10 seconds, the display will jump back and show the DMX address from before and stops blinking.

5.4.2 Battery Charge Status

To recharge the internal battery, connect the fixture to mainspower. The battery charge status is indicated by the battery symbol on the display in Standby Mode. Once the fixture is switched On, the battery status will be also displayed in percentage.
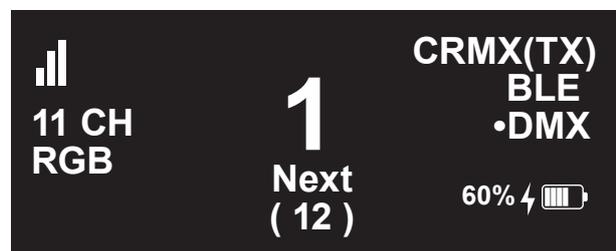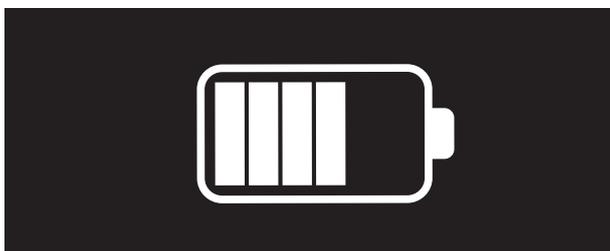
5.4.3 Selecting DMX Mode*

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.

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

Level 1

Menu
➡ DMX Mode
Stand Alone
Slave
Settings
System Info

Level 2

DMX Mode
➡ 3CH CCT
3CH RGB
6CH RGB
8CH RGB
11CH RGB
15CH RGB
4CH DIRECT
8CH DIRECT
9CH DIRECT
12CH DIRECT
17CH DIRECT
10CH HSI

5.4.4 Stand Alone*

Press ENTER to access to main menu (level 1).
While using the UP / DOWN arrows, please select the menu item "Stand Alone" and confirm
by pressing ENTER.
In the following sub-menu (level 2), you can now choose between 6 different Stand Alone operating modes (Auto, Editor, Color Macro, Quick Color, Tunable White, User Color) ,Stop Stand Alone, Timer and Color Settings functions while using the UP/Down arrows and confirm by pressing ENTER or jump back by pressing ESC.

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

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

Level 1

Menu
DMX Mode
➡ Stand Alone
Slave
Settings
System Info

Level 2

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

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.

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

Level 1

Menu
DMX Mode
➥ Stand Alone
Slave
Settings
System Info

Level 2

Stand Alone Mode
Stop Stand Alone
➥ Auto
Editor
Color Macro
Quick Color
Tunable White
User Color
Timer
Color Settings

Level 3

Auto
➥ Stop Program
Dimmer <0-100>
Speed <0-100>
Effect

Level 4

Program
➥ 7-Color Fade
7-Color Jump
15-Color Fade
15-Color Jump
Police RB
Police B
Candle Light
Fireworks
Red Carpet
Welding
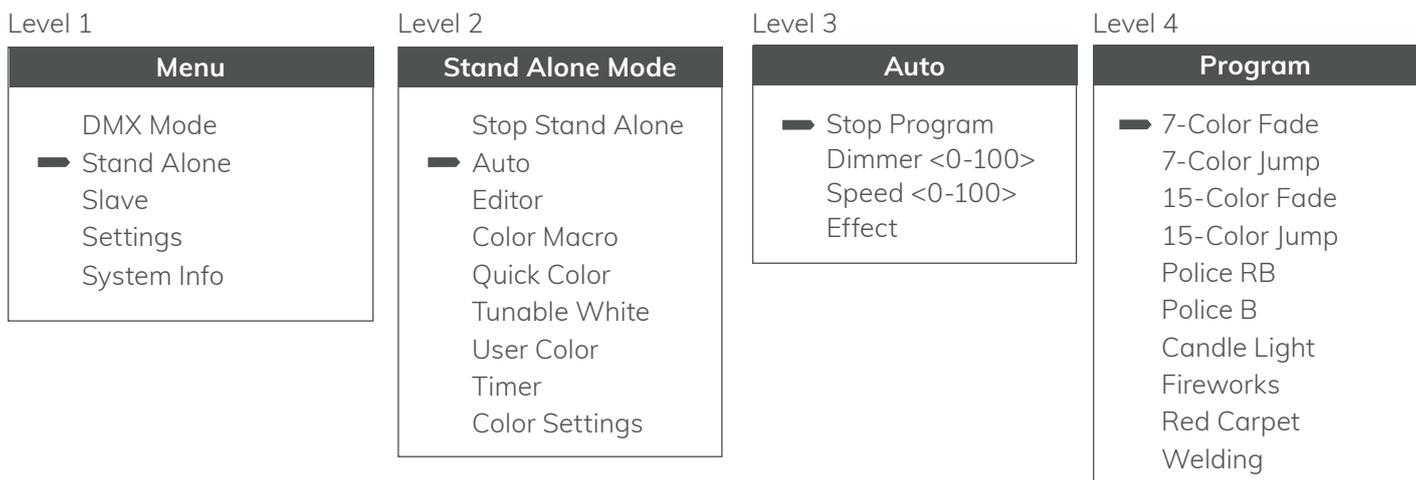
Editor*

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

Menu
DMX Mode
➥ Stand Alone
Slave
Settings
System Info

Level 2

Stand Alone Mode
Stop Stand Alone
Auto
➥ Editor
Color Macro
Quick Color
Tunable White
User Color
Timer
Color Settings
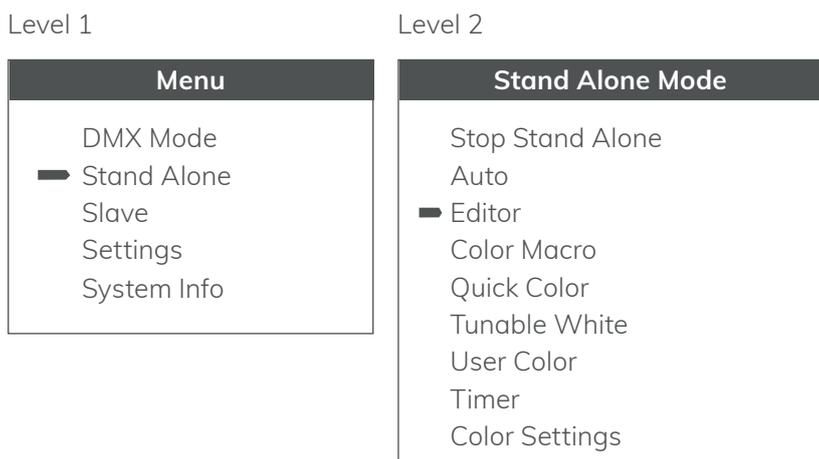
Select "Editor" by using the up/down arrows and press ENTER.

Here at sub-menu (level 3) you can choose between Program 1-3, Dimmer and Stop Program. Using the Up/Down arrows you can select program 1, 2 or 3 and confirm by pressing ENTER or step back by ESC.

After confirming your preferred program, you can now choose between Scene 1-24. Select one of the scenes and press ENTER or step back by ESC. At level 5 you can now set your

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

Once it´s set your first scene is programmed.

You can now jump back to level 3 by using ESC. Here your program will starts automatically. For creating more scenes please use the same procedure. To stop an active program please press ESC and select "Stop Program" at level 3 or "Stop Stand Alone" at level 2. To start again, please re-select your preferred program, it will starts automatically again. To adjust the master brightness for program 1-3, you can use the item "Dimmer" at level 3 and select between 000-100 and confirm by ENTER or jump back by ESC.

ⓘ ***Note: Once "Factory Calibration" is selected under "Color Settings" inside Stand Alone, only values for RGB are available here.**

Using UP / DOWN arrows at homescreen Editor program can be directly changed according to the list. For choosing the right strobe effect please follow the Strobe Channel from our DMX chart at the end of this manual.

Level 3

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

Level 4

Program
➥ Scene 1
Scene 2
Scene 3
...max. 24 Scenes

Level 5

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

Color Macro*

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

Level 1

Menu
DMX Mode
➥ Stand Alone
Slave
Settings
System Info

Level 2

Stand Alone Mode
Stop Stand Alone
Auto
Editor
➥ Color Macro
Quick Color
Tunable White
User Color
Timer
Color Settings

Level 3

Color Macro	
Color Off	
➥ Color Macros	
Color Macro Chart	
Dim	<0-**100**>

To select a color macro please press ENTER to access to main menu (level 1). While using the UP / DOWN arrows select the menu item "Stand Alone" and confirm by pressing ENTER. After please select the item "Color Macro" by using the up/down arrows and press ENTER again.

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

At level 3 you can adjust the brightness for the color preset between 000-100. Confirm by ENTER. For color blackout choose the item "Color Off".

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

Level 4

Pos.	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

Gels - Color Macros for Standalone Mode

Pos.	Gel Name	Color Number
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
29	Lavender	LEE 058
30	Magenta	LEE 113
31	Mauve	LEE 126
32	Smokey Pink	LEE 127

Gels - Color Macros for Standalone Mode

Pos.	Gel Name	Color Number
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	6000K / High CRI
43	Cold White II	6300K / High CRI
44	Amber (only if available)	100% Amber LED
45	Lime (only if available)	100% Lime LED
46	Cyan (only if available)	100% Cyan LED

Battery Runtime Intensity Matrix

	OFF	4h	8h	12h	16h	20h	24h
Red	100%	95%	85%	57%	43%	35%	28%
Green	100%	93%	67%	45%	33%	27%	21%
Blue	100%	94%	66%	43%	32%	26%	20%
Dark Amber (LEE 022)	100%	94%	74%	50%	37%	30%	24%
Magenta (LEE 113)	100%	95%	77%	52%	39%	31%	26%
3200K	100%	76%	41%	27%	20%	16%	13%
5600K	100%	73%	39%	26%	19%	15%	12%

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

Menu
DMX Mode
➡ Stand Alone
Slave
Settings
System Info

Level 2

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

Level 3

Quick Color	
Dimmer	<0-**100**>
Shutter	<0-**255**>
Red	<**0**-255>
Green	<**0**-255>
Blue	<**0**-255>
Lime	<**0**-255>

To adjust your Quick Color please press ENTER to access to main menu (level 1).
While using the UP / DOWN arrows select the menu item "Stand Alone" and confirm
by pressing ENTER. After please select the item "Quick Color" by using the up/down arrows and press ENTER again.
Using UP and DOWN controls, select your desired color and confirm with ENTER.
After you can adjust the brightness for the color between 000-255 and confirm by ENTER.
Besides the individual color mix also a master dimmer can be adjusted between 000-100.
For strobe effects please adjust the Shutter value between 000-255.

ⓘ ***Note: Please see detailed explanation for strobe effects inside DMX chart at the end of this manual. If "Factory Calibration" is selected in "Color Settings" only R,G,B is available here. Using UP/DOWN arrows at homescreen you can change Quick Color's dimmer value.**

Tunable White*

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

Level 1

Menu
DMX Mode
➡ Stand Alone
Slave
Settings
System Info

Level 2

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

Level 3

Tunable White	
CCT	<**2000K-10.000**>
TINT	<**000**> (+/-127)
Dimmer	<0-**255**>
Shutter	<0-**255**>

Starting from home screen press ENTER to access to main menu (level 1).
While using the UP / DOWN arrows select the menu item "Stand Alone" and confirm by pressing ENTER.
After please select the item "Tunable White" by using the up/down arrows and press ENTER again.
Using UP and DOWN controls to select your desired menu item, confirm by ENTER and adjust the desired value by up and down controls and confirm all entries with ENTER.

ⓘ ***Note:**
Tint values
000   = no function/neutral
001 - 127   = + green
-001 to - 127   = - green

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

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

Level 1	Level 2	Level 3	Level 4

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

To define a User Color please press ENTER to access to main menu (level 1).
While using the UP / DOWN arrows, please select the menu item "Stand Alone" and confirm by pressing ENTER.
Select the item menu "User Color" by using the up/down controls and press ENTER.
Using UP and DOWN select your desired preset number (Color 1 -5) and confirm with ENTER.
Use UP and DOWN controls to select your desired color, confirm by ENTER and adjust the value by up and down controls between 000-255 and confirm all entries with ENTER.
With dimmer you can adjust the allover brightness of your User Color. Shutter allows several strobe effects. Once your color mix is ready, jump back by ESC. Your individual color is stored under the selected color preset now.

ⓘ ***Note: All five User Colors are also available by DMX at Color Macro channel. Using one of the RGB DMX modes, only User Colors mixed out of RGB values are available. For Direct modes, both RGB and 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. simultaneously, the timer function is available via cable as well as via wireless DMX for master & slave operation. The fade-in time can be set from 0 to 60 minutes, the dwell time from 1 to 24 hours and the fade-out time from 0 to 60 minutes.

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

Menu
DMX Mode
➡ Stand Alone
Slave
Settings
System Info

Level 2

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

Level 3

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

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

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

ⓘ ***Note: Please don´t forget to select one of the Stand Alone modes for "Startup Mode" at "Settings".**

Color Settings*

Here at "Color Settings" you can chose your preferred working color mode for all Stand Alone color modes. Either Factory Calibrated or RAW. Factory color calibration of R, G, B, 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

Menu
DMX Mode
➡ Stand Alone
Slave
Settings
System Info

Level 2

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

Level 3

Color Settings
➡ **Factory Calibrated**
RAW

5.4.5 Settings

Level 1

Menu
DMX Mode
Stand Alone
Slave
➡ Settings
System Info

Main Menu	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Remark
DMX Mode (Reference DMX Mode) Factory Calibration / RAW automatically set by corresponding DMX modes)	3CH CCT				
	3CH RGB				
	6CH RGB				
	8CH RGB				
	11CH RGB (default mode)				
	15CH RGB				
	4CH DIRECT				
	8CH DIRECT				
	9CH DIRECT				
	12CH DIRECT				
	17CH DIRECT				
	12CH HSI				
Stand Alone	Stop Stand Alone				
	Auto FX	**Stop Program**	all Auto Fx Effects		
		Dimmer <0-**100**>	all Auto FX Effects		
		Speed <0-100> **(default 50)**	all Auto FX Effects		
		Effect	7-Color Fade		
			7-Color Jump		
			15-Color Fade		
			15-Color Jump		
			Police RB		
			Police B		
			Candle Light		
			Fireworks		
			Red Carpet		
			Welding		

Main Menu	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Remark
Stand alone	Editor	Program 1 Program 2 Program 3	Scene 1 Scene 2 Scene 3 …max. 24 Scenes	Red <**0**-255>	
				Green <**0**-255>	
				Blue <**0**-255>	
				Lime<**0**-255>	
				Shutter<**0**-255>	please use shutter programs like shown in DMX chart
				Fade Time (min.) <**0**-480>	
				Fade Time (sec.) <**0**-59>	
				Wait Time (min.) <**0**-720>	
				Wait Time (sec.) <**0**-59>	
		Dimmer <0-**100**>			
		Stop Program			
	Color Macro	Color Off			
		Dimmer <0-**100**>			
		Color macros **1**-47 (Reference Gels - Color Macros)"			
	Quick Color	Dimmer <0-**100**>			
		Shutter <0-**255**>			
		Red <**0**-255>			
		Green <**0**-255>			
		Blue <**0**-255>			
		Lime <**0**-255>			
	Tunable White	CCT <2000K-10.000>	adjustable in 100K steps (default 5600K)		
		Tint <**000**> +/-127	0= no function 001--127 plus green / -001 to -127 plus magenta		
		Dim <0-**255**>			
		Shutter <0-**255**>			
	User Color	Color 1	Dimmer <0-**100**>		
		Color 2	Shutter <0-**255**>		
		Color 3	Red<**0**-255>		
		Color 4	Green <**0**-255>		
		Color 5	Blue <**0**-255>		
		Color 6	Lime <**0**-255>		

Main Menu	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Remark
Stand alone	Timer	Timer <On / **Off**>			
		Fade In <**0**-60min>	1 minute steps		
		Dwell Time <**1**-24h>	1 hour steps		
		Fade Out <**0**-60min>	1 minute steps		
	Color Settings (affects to Stand Alone)	**Color Calibration**	working accroding to the settings at Color Calibration, either Normal CRI or High CRI		
		RAW	working accroding to the settings at RAW Balance, either RAW or User Calibrated.		
Settings	Wireless DMX	CRMX <on/**off**>			
		Operating Mode <**receive**/transmit>			
		Transmitt Link <**no**/yes>			
		Receive Reset <**no**/yes>			
		Pass to DMX Out <**no**/yes>			
		Signal Strength 0-100			
		BLE <on/**off**>			
		BLE Link <**no**/yes>			
		BLE Password <**000000**>			
	Battery (only availabale if Battery is built inside)	Power Mode	**Battery**		Uses battery and mains for operation
			Wired		Uses only mains for operation
		Runtime	off		
			4hours - 24hours **(default 8h)**		set in 2h increments
		Charging	**Continous**		charging up to 100% capacity
			Lifetime		discharging up to max. 20% capacity, charging up to max. 85% capacit)
			Storage		charging just up to 40% capacity
	Protocol	**DMX**			enables DMX protocol
		Slave			confirm with ENTER, after Slave Mode is activated Display will show Slave Mode. Connect the master and slave units (same model) with a DMX cable 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	Menu level 5	Remark
Settings	Display	Auto Flip <**on**/off>			
		Backlight <**on**/off>			
		Auto Lock <on/**off**>			
		User Control	Auto FX		
			Quick Color		
			Tint		
			User Colors		
			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.
			Battery Runtime (off, 4h, 6h, 8h, 10h....24h)		
	Startup Mode (using last adjustments of Standalone Modes)	**Hold (factory default)**			
		DMX			
		Auto			
		Editor (Program 1-3)			
		Color Macro			
		Quick Color			
		Tunable White			
		User Color (User Color 1-5)			
	DMX Fail	**Hold (factory default)**			
		Blackout			
		Emergency Light			
	AC Fail (only availabale if Battery is built inside)	**Hold (factory default)**	Hold		= last command retains
		Blackout	Blackout		= Activates Blackout
		Emergency Light	Emergnecy Light		= Fixtures changes to 5600K
	Dimmer Curve	**Linear (factory default)**			
		Exponential			
		Logarithmic			
		S-Curve			
	Dimmer Response	**LED**			
		Halogen			

Main Menu	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Remark
Settings	Color Calibration	**Normal CRI**	Colors & CCT calibrated, normal CRI mode		
		High CRI	Colors & CCT calibrated, high CRI mode		
	RAW Balance (affects RAW Mode in DMX and Stand alone control)	**RAW**			R,G,B,L with maximum value of brightness
		User Calibration	Red <0-255>		individual color calibration for R,G,B,L
			Green <0-255>		
			Blue <0-255>		
			Lime <0-255>		
	LED Frequency	800 Hz			
		1200 Hz			
		2000 Hz			
		3600 Hz			
		12000 Hz			
		25000 Hz			
	Fan	**Auto 1**			Adjust fan speed relative to internal fixture temperature, maximum 2500rpm
		Auto 2			Adjust fan speed relative to internal fixture temperature, maximum 3000rpm
		Silent			Low fan speed for silent operation, maximum 2000rpm
		Studio			Low fan speed for silent operation, maximum 1500rpm
		Fan Off			Fan off
		Max Power			High fan speed for maximum cooling effect, maximum 3000rpm
	Redshift	On / **Off**			Redhift function simulate traditional halogen fixtures while dimming down. Redshift affects only between 2700-3500K.
	Factory / User Reset	Factory Reset (Are you sure to reset?)	All set back to Factory Default		
		User Reset (Are you sure to reset?)	User Reset will set back according to the User Preset List. User Colors should not set back to default! Timer Function should et back to Factory default values		

Main Menu	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Remark
Settings	Factory / User Reset	User Reset List	DMX Mode: <3CH CCT, 3CH RGB, 6CH RGB, 8CH RGB, 19CH RGB, 23CH RGB, 4CH DIRECT, 8CH DIRECT, 9CH DIRECT, 21CH DIRECT, 26CH DIRECT, 17CH HSI, 16CH PURE, 29CH PURE, 28CH FULL ACCESS, 44CH FULL ACCESS>		
			CRMX <on/**off**>		
			CRMX Operating Mode. <**receive**/transmit>		
			CRMX Receive Reset. <**no**/yes>		
			BLE <on/**off**>		
			BLE Link <**no**/yes>		
			BLE Password <**000000**>		
			CRMX Pass to DMX Out. <**no**/yes>		
			Power mode <**battery** / wired>		
			Runtime <off/4-24h> **(8h default)**		
			Charging <**Continous** / Lifetime / Storage>		
			Display Flip <**on**/off>		
			Backlight <**on**/off>		
			Auto Lock <on/**off**>		
			Display User Control <Auto FX/Quick Color, **Tint**, User Colors, Highlight, Battery Runtime>		
			Startup Mode <**Hold**/DMX/ Auto/Editor/ Color Macro, Quick Color, Tunable White/ User Color>		
			DMX Fail <**Hold**/Blackout/ Emergency (5600K)>		
			AC Fail <**Hold**/Blackout/Emergency>		
			Dimmer Curve <**Linear**, Exponential, Logarithmic, S-Curve>		
			Dimmer Response <**LED**, Halogen>		
			Color Calibration <**Normal CRI** / High CRI>		
			RAW Balance <**RAW** / User Calibration>		
			LED Frequency <800Hz, **1200Hz**, 2000Hz, 3600Hz, 12000Hz, 25000Hz>		
			Fan <**Auto 1**, Auto 2, Silent, Studio, Fan Off, Max. Power>		
			Redshift <on/**off**>		

Main Menu	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Remark
System Info	Firmware Version	vx.xx			
	Serial Number				
	RDM UID	0X6a6axxxxxxxx		Roxx RDM manufacturer ID is 6A6Ah, please see Roxx RDM template for correct UID	
	Temperatures	Battery	"Celsius or Fahrenheit LED : XXX°C LED : XXX °F"	Celsius Fahrenheit (Press enter to go)	
		LED	"Celsius or Fahrenheit LED : XXX°C LED : XXX °F"	Celsius Fahrenheit (Press enter to go)	
	Power on Time	Total:xxxxxhours			
	LED on Time	Total:xxxxxhours			
	Fan Speed	head	Display the current head fan speed		
	Errors	Errors information			

Dimmer Curves
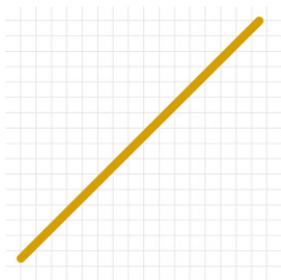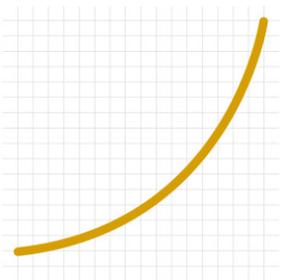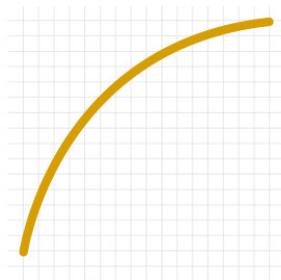
Linear   Exponential   Logarithmic   S-Curve
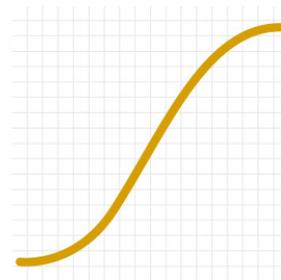
5.4.5.1 Reset Functions

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

⊖ *User Reset:*
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

⊖ *User Reset:*
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
System Info	Firmware Version	vx.xx	Display installed firmware version
	Serial Number	141xxxxxxxx	
	RDM UID	0X6a6axxxxxxxx	Display unique RDM ID for identification
	Battery & LED 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 lite with order numbers:

Very Narrow 10°
Art.: 14907001

Narrow 15°
Art.: 14907101

Medium 40°
Art.: 14907201

Wide 80°
Art.: 14907301

Horizontal 60° x 10°
Art.: 14907401

Vertical 10° x 60°
Art.: 14907501

6.2 More accessories

8-way Barndoor
Art.: 14907601

Omega Bracket ST
Art.: 90900002-2

Amptown Case 6x
tba.

Casetec Case 6x
Upside down
tba.

Casetec Case 6x
Head ip
tba.

7. TECHNICAL DATA / DIAGRAMS

7.1 Technical drawings and measurements

330.0
322.0
367.5

128.5
270.5

146.5
265.4
68.6

20.5
122.0
99.5
150.0
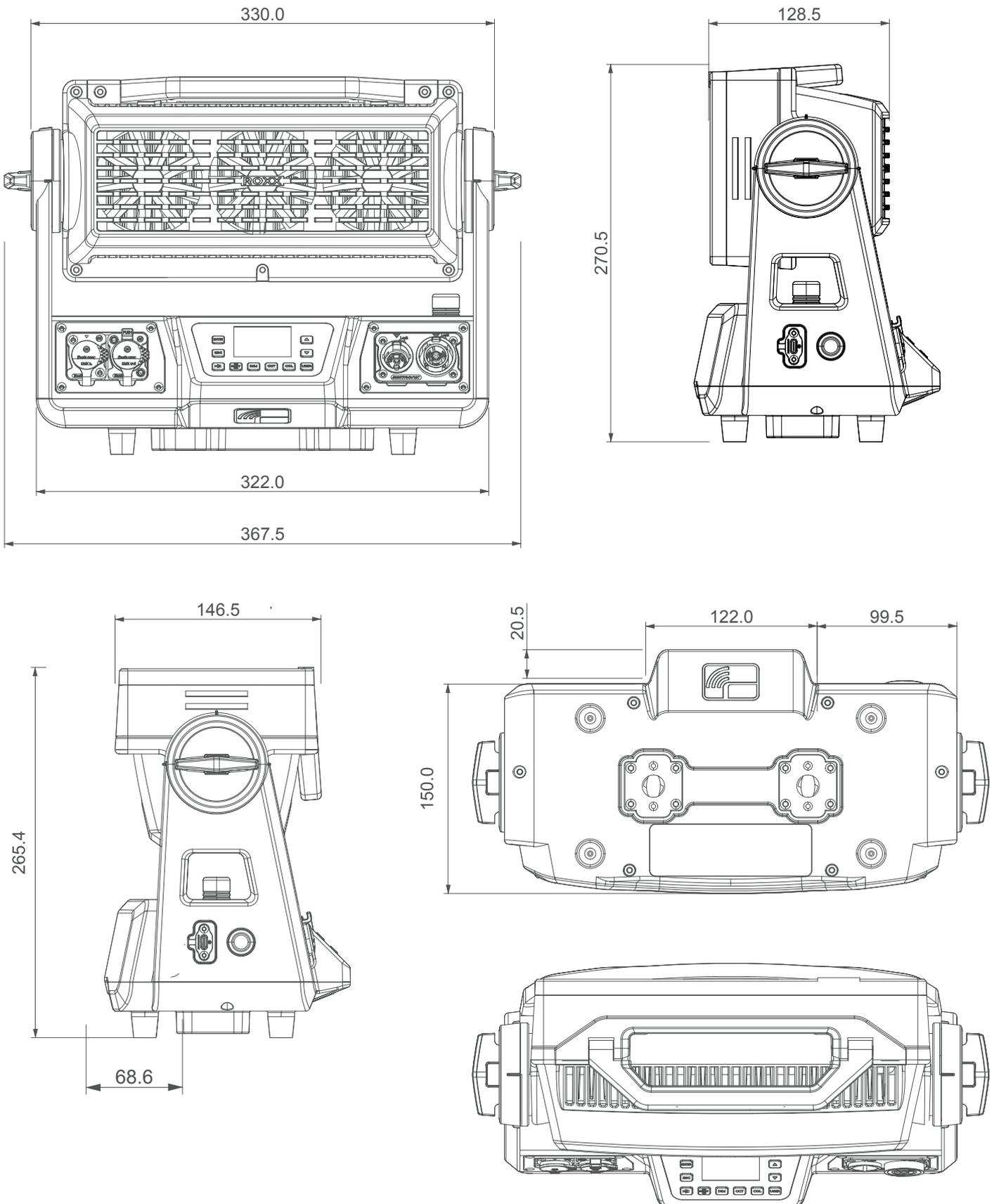
7.2 IP Rating

ROXX products conform to officially classified IP standard levels. NEO lite 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.

Ingress Protection

6 5

Protected against a solid object exceeding 50mm, for example, a hand.	**1**	**1** Protected against vertically falling water drops. Limited infiltration is permitted.
Protected against a solid object exceeding 12.5mm, for example, a finger.	**2**	**2** Protected against vertically falling water drops when the enclosure is tilted up to 15 degrees from the vertical. Limited infiltration is permitted.
Protected against a solid object exceeding 2.5mm, for example, a screwdriver.	**3**	**3** Protected against water spray up to 60 degrees from the vertical. Limited infiltration is permitted.
Protected against a solid object exceeding 1mm, for example, a wire.	**4**	**4** Protected against splashes of water from all directions. Limited infiltration is permitted.
Dust protected. Limited ingress of dust allowed. Does not affect the operation of the device.	**5**	**5** Protected against water jets. Limited infiltration is permitted.
Dustproof. No infiltration of dust.	**6**	**6** Protected against strong water jets. Limited infiltration is permitted.
		7 Protected against the impact of being immersed in water between 15cm and 1m for 30 minutes.
		8 Protected against the impact of being immersed in water under pressure for prolonged periods of time.

7.3 Technical Data

Photometrics	
LED expected lifetime	50.000 hours
Lightsource	10x 20W 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%)	15° (native)
Color temperature range	2000-10.000K
CRI/Ra	up to 85
TLCI	up to 85
Luminous flux @ Full (RAW)	9030lm
Luminous flux @ 5600K (Normal CRI)	8432lm
Luminous flux @ 5600K (High CRI)	5210lm
illuminance Lux @ 5m / 16,4ft (@ Full)	12761lx
illuminance Lux @ 5m / 16,4ft (@ 5600K Normal CRI)	11844lx
illuminance Lux @ 5m / 16,4ft (@ 5600K High CRI)	7213lx
Efficancy @ Full (max)	43lm/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 265.4 x 174.5 mm
Net dimensions inches	14,47 x 10,45 x 6,87 inch
Net weight (incl. Yoke)	incl. Battery 8,9 kg / without Battery 7,4 kg
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 / Battery Operating -20° to 40°
Temperature range, Start-Up	-20° to 45°C / Battery -20° to 40°
Temperature range, Storage	-40°C to 80°C / Battery -10° to 25°/ Charging 0° to 40°C
Thermal Protection	Automatic overtemperature protection
Electrical Data	
AC Power, max	90 – 285V 50/60Hz
AC Power, nominal	100 – 240V 50/60Hz
Electrical protection	Overload protection with automatic recover
Max. power consumption	228W @ 100V / 215W@ 230V
Standby Power	7,0W
Power Thru max. @ 100V	9A (ETL) / 12A
Power Thru max. @ 230V	11A (ETL) / 14A

7.3 Technical Data

Battery	
Battery Typical Capacity	14Ah / 302.4Wh (24x Lithium-Ionen including BMS)
Lifetime	70% after 300 cycles
Battery Run Time	up to 24 hours
Charging Time (nominal)	4 1/2 hours
Electrical Data	
Power Linking	11 units @ 230V / 5 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 RDM ANSI E1.20 CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S Bluetooth (Low Energy)
Setting and addressing	2.0" TFTdisplay / 10 controls RDM ANSI E1.20 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	USB-C / USB update box
Included / Optional	
Included items	2m Power Cable
Optional Accessories	Multiple magnetic filters (circular / elliptical, smoked-clear), 8-Way Barndoor, Omega Bracket ST, Battery Pack
Color options	Black – RAL 9004 (Standard) 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	4CH DIRECT
3CH RGB	**8CH DIRECT**
6CH RGB	**9CH DIRECT**
8CH RGB	**12CH DIRECT**
11CH RGB / Default Mode	**17CH DIRECT**
15CH RGB	**10CH HSI**

Here you can find the DMX charts for the NEO lite for reading or downloading.
Simply click on the icon or scan the QR code.

DMX charts

DOWNLOAD
DMX-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 slow ⇒ fast	color 1-37
210-255	Color fading speed 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 - 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

Chart title: Color temperature (y-axis, 2.000 to 10.000) vs DMX (step) (x-axis, 5 to 255)
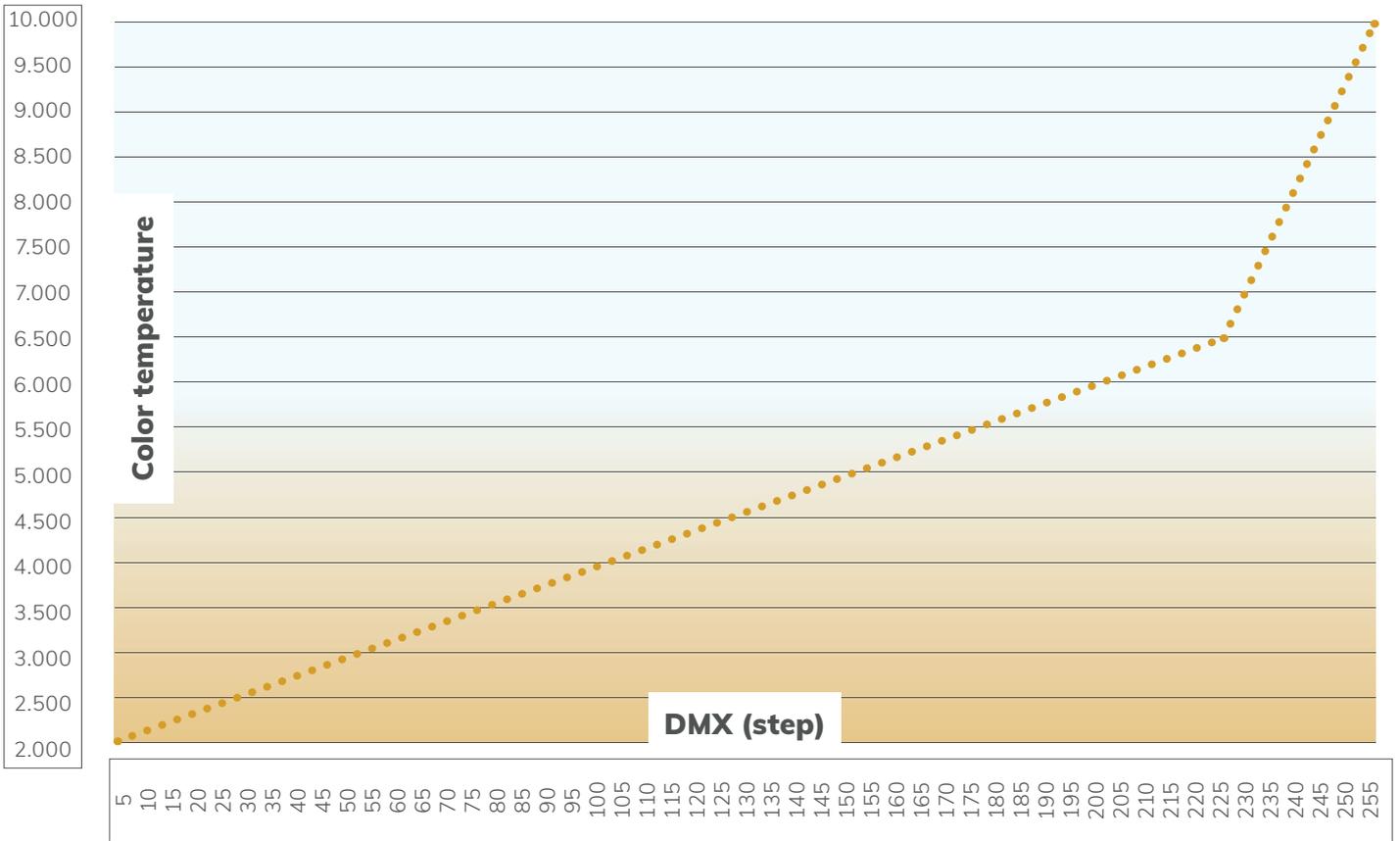
CTC-Chart

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

7.5 RDM Templates*

The ROXX NEO lite 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 lite
Model:	NEO lite
Manufacturer:	ROXX
ID:	6A6Ah
Device ID:	0141 xxxx

RDM functions

For easy identifying ROXX NEO lite 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. Power
0x0343 / 0x0344	Dimmer Curve	Set	1= Linear / 2= Exponential / 3= Logarithmic / 4= S-Curve
0x0345 / 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 / 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.

* 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.
	Fuse defect.	Contact your qualified service technician / manufacturer.
Device has turned off.	Power failure or power was turned off.	Check power supply, fuse, connections, switches.
Device has stopped responding.	DMX cable correct?	Check cables.
	Wireless connection got cut off.	Check wireless transmitter and connection signals.
Device operates strangely.	DMX cable inverted (pins correct?)	Use a phase inverter or different cables.
	DMX cable terminated?	If not, install DMX termination at the end of the cable.
	Stand Alone program running?	Stop internal Stand Alone.
No Bluetooth Connectivity	No Bluetooth Connectivity	Please make sure your mobile device is inside the connectivity range of maximum 10-15m.
	Bluetooth is disabled at your mobile device	Please 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