

# **E.SHOW** TW+



USER MANUAL

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## 1. SAFETY INFORMATION

#### 1.1. General Preventive Measures

- 1.1.1. Please read, understand and follow the instructions.
- 1.1.2. Store the instructions and information in a safe place.

  Best solution is the ring binder provided by ROXX.
- 1.1.3. Follow all safety warnings. Under no circumstances remove safety warnings or other information from the equipment.
- 1.1.4. Don't use the equipment for any other intended purpose or manner.
- 1.1.5. Use only stable and compatible stands and/or brackets. Especially when fix installed.

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

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

#### 1.2 Regulations for equipment that connects to power mains

- 1.2.1. If an earthing contact is available in the used power cord, it must 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. E.SHOW TW+

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

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

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

## 3. GENERAL PRODUCT INFORMATION

#### 3.1. Scope of delivery

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

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

## 3.2. Control Functions

- 3CH CCT, 3/6/9/11/14CH RGB, 6/12/13/20CH DIRECT, 3/10CH HSI
- Stand Alone Functions including cinema effects, various auto programs, customisable scenes, CCT, LEE adjusted color macros and custom color templates (RGBALC)
- Master & Slave (by DMX and Wireless DMX)
- Wireless DMX (Lumenradio CRMX®)
- ROXX App Bluetooth 5.0

#### 3.3. Features











































## 4. INSTALLATION & SETUP

#### 4.1 Physical Installation and Rigging

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

#### Standing:

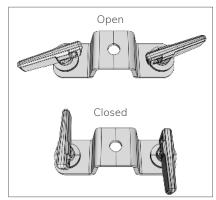
The fixtures yoke with its implemented rubber feet is designed to ensure a secure stand on nearly every plane surface with every possible angle/orientation of the lamp's head. Please take care that supporting surfaces are loadable and stable.

## Hanging:

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

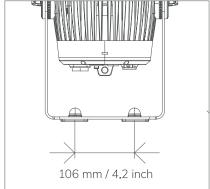






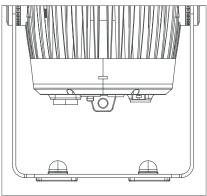
Insert the two fasteners and turn each 90° clockwise to lock them. Please be sure that the fasterners are turned fully and snaped in.





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





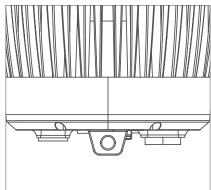
## Pendant Light\*:

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

#### i) Note:

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





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

① Always take care of an adequate distance between the fixture and surrounding surfaces and be sure to keep the fans outlets free for good ventilation.

## 4.2 Connections\*



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

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

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

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

E: GoreTex

F: Safety Eyelet

#### (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 E.SHOW TW+ operates on any 100–260 V, 50/60 Hz AC mains power supply with a maximum power consumption of 220W.

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

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

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



#### Warning!

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

#### 4.2.2. DMX Connection

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

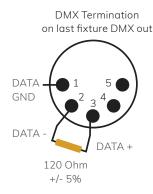
#### 4.2.2.1. Cable Connection

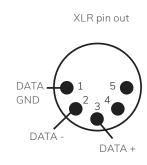
If using a cabled DMX system, connect the DMX IN cable to the input connector (male 5-pin XLR connector) and DMX OUT cable to the output (female 5-pin XLR connectors).

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

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

Standard microphone cable is not suitable for transmitting DMX.





#### 4.2.2.2. Wireless Connection\*

E.SHOW TW+ is equipped with a LumenRadio ™ Transceiver module.

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

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

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

E.SHOW TW+ can act as a fully operative CRMX Receiver and be paired to an active wireless transmitter (CRMX) 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 simoultaneously.

- 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.



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



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

## 4.2.2.2. Wireless Connection

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



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



CRMX	Enabled	Once the fixture is linked to an
Operation Mode	TX	external transmitter, the CRMX
Linked	Yes	signal-symbole appears on upper left side.
Receive Reset	Yes	1 deck 1 200/ signal strongth
DMX	Disconnect	1 dash= 1-30% signal streng 2 dashs= 31-70% signal streng
BLE (Bluetooth)	Disabled	3 dashs= 71-100% signal strength



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



CRMX	Enabled
Operation Mode	RX
Linked	Yes, but no DMX
Receive Reset	Yes
DMX	Disconnect
BLE (Bluetooth)	Disabled

## 4.2.2.2. Wireless Connection



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

P CRMX(TX)

• BLE
DMX

Next
(10)

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

CRMX(TX)
9 CH
RGB
Next
(10)

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

CRMX(TX)
BLE
DMX
Next
(10)

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

## 5. OPERATION

#### 5.1 Start up\*

Once the fixture is connected to AC power, the boot process starts and the following information will appear on the display:

"Ready to ROXX", the product name and the current software version.



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

#### i) \*Note:

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

## 5.2 Control Display\*

OLED Display with Touch-Sensitive controls



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



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



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

## ① \*Note:

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

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

#### 5.3 Display Short Cuts\*

## **Short Cuts**

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

#### **User Reset or Factory Reset\***



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

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

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

## (i) \*Note:

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

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

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

## **Display Off**



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

## BLE enabled / disabled



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

## Manual display flip function\*



The fixture includes an auto display flip function by default.

To use the manual display flip function please disable the auto flip function under Settings / Display first. Once the auto display flip function is disabled you can use the manual display flip function by pressing arrow up + arrow down simultaneously. The display will rotate 180. By pressing both arrows simultaneously again the display will flip back.

#### (i) \*Note:

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

## **Quick Light function**



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

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

## 5.4 Configuration

#### Home Screen

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

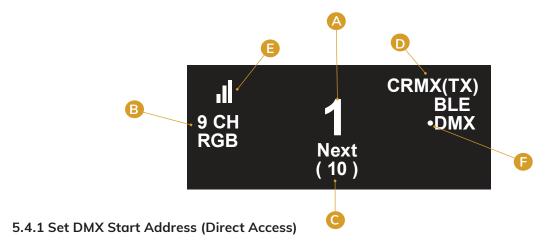
- A DMX Adress
- B Operating Mode (DMX Mode, Quick Light or Standalone Mode)
- C Next available DMX address depending on the fixtures DMX footprint
- D External Data protocol (CRMX, DMX, BLE).
- E CRMX status and strength
- F The dot indicates the active protocol

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

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

#### (i) \*Note:

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

**17** 

Level 1 Level 2

Menu **DMX Mode** ■ DMX Mode → 3CH CCT – Factory Calibrated Stand Alone 3CH RGB - Factory Calibrated Slave 6CH RGB - Factory Calibrated 9CH RGB (Default) - Factory Calibrated Settings 11CH RGB - Factory Calibrated System Info 14CH RGB - Factory Calibrated 6CH DIRECT - RAW 12CH DIRECT - RAW 13CH DIRECT - RAW 20CH DIRECT - RAW 3CH HSI – Factory Calibrated 10CH HSI - Factory Calibrated

#### 5.4.3 Stand Alone\*

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

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

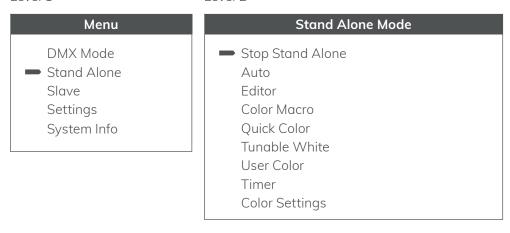
In the following sub-menu (level 2), you can now choose between 6 different Stand Alone operating modes (Auto, Editor, Color Macro, Quick Color, Tunable White, User Color), Stop Stand Alone, Timer and Color Settings functions while using the UP/Down arrows and confirm by pressing ENTER or jump back by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

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

## **Stop Stand Alone**

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

Level 1 Level 2



#### Auto\*

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

Here at sub-menu (level 3), you can choose between 10 different Auto Programs

(7-Color Fade, 7-Color Jump, 15-Color Fade, 15-Color Jump, Police RB, Police B, Candle Light, Fireworks, Red Carpet and Welding) and Stop Program. Using the Up/Down arrows you can select one of the 10 auto programs and confirm by pressing ENTER or step back by ESC.

After confirming your preferred Auto Program, you can now adjust speed and brightness at level 4.

To adjust speed, please use the UP / DOWN arrows to select the menu item "Speed", and confirm with ENTER. After use UP / DOWN arrows to adjust the speed value between 000-100 and confirm by ENTER or jump back by ESC. To adjust brightness please select "Dim" as per the procedure previously described and confirm with ENTER. After

use UP / DOWN arrows again to adjust the brightness value between 000-100 and confirm by ENTER or jump back by ESC.

Once it's confirmed or denied the display will automatically jump back to level 3.

To stop running a selected auto program please chose "Stop Program" at level 3 or "Stop Stand Alone" at level 2. For returning back to homescreen please press ESC three times.

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

#### (i) \*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 RGBALC (RAW) or RGB (Calibrated) and shutter, playing continuously in a loop. Each scene has a definable fade-in time for the transition from one color to the other and wait-time.

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

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

Level 1 Level 2

Menu **Stand Alone Mode** DMX Mode Stop Stand Alone Stand Alone Auto Slave Editor Color Macro Settings Quick Color System Info 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.

(i) \*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- <b>100</b> > Stop Program

Program				
Scene 1				
Scene 2				
Scene 3				
max. 24 Scene	S			

Scene			
Red Green Blue Amber Lime	<pre>&lt;0-255&gt; &lt;0-255&gt; &lt;0-255&gt; &lt;0-255&gt; &lt;0-255&gt; &lt;0-255&gt;</pre>		
Cyan Shutter Fade Time (min.)	< <b>0</b> -255> <0- <b>255</b> > < <b>0</b> -480>		
Fade Time (sec.) Wait Time (min.) Wait Time (min.)	< <b>0</b> -720>		

## 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

		Level 5		
Menu	Stand Alone Mode	Color Macro		
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 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".

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

#### Level 4

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

## **Quick Color\***

The standalone mode "Quick Color" allows a direct adjustment of the single LED colors R, G, B, A, L, C, Dimmer and Shutter.

Level 1 Level 2 Level 3

Menu	Stand Alone Mode	Quick 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	Dimmer       <0-100>         Shutter       <0-255>         Red       <0-255>         Green       <0-255>         Blue       <0-255>         Amber       <0-255>         Lime       <0-255>         Cyan       <0-255>

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

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

by pressing ENTER. After please select the item "Quick Color" by using the up/down arrows and press ENTER again. Using UP and DOWN controls, select your desired color and confirm with ENTER.

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

Besides the individual color mix also a master dimmer can be adjusted between 000-100.

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

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

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

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

# User Manual

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.

(i) \*Note:

Tint values

000 = no function/neutral

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

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

#### **User Color\***

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

Level 1 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 1 Color 2 Color 3 Color 4 Color 5	Dimmer <0-100> Shutter <0-255> Red <0-255> Green <0-255> Blue <0-255> Amber <0-255> Lime <0-255> Cyan <0-255>
	Color Settings		3 <b>9</b> 2007

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 RGBALC User Colors are available.

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

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

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

#### Timer\*

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

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

Level 1 Level 2 Level 3

LCVCII	LC VCI Z	LC VCI 3		
Menu	Stand Alone Mode	Timer		
DMX Mode  Stand Alone Slave Settings System Info	Stop Stand Alone Auto Editor Color Macro Quick Color Tunable White User Color Timer Color Settings	Timer <on off=""> Fade In &lt;0-60 min&gt; 1 minute steps Dwell Time &lt;1-24h&gt; 1 hour steps Fade Out &lt;0-60 min&gt; 1 minute steps</on>		

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

Select the item menu "Timer" by using the up/down controls and press ENTER. Now you can activate / deactivate the Timer function, select "Fade In", "Dwell Time" or "Fade Out" for the individual settings and confirm with ENTER. In each case a three-digit number field will be displayed. Use UP and DOWN to set the value as required from 000 to 060 minutes for "Fade In" and "Fade Out", or 001 to 024 hours for the "Dwell Time". Confirm by pressing ENTER again. After all time settings have been configured, please activate the timer function by selecting the submenu item "Timer On/Off" using UP and DOWN, confirm with ENTER, select "On" and confirm with ENTER again.

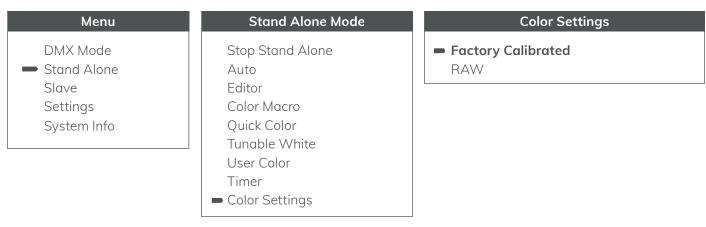
To disable the timer function, please select "Off" and confirm by ENTER.

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, A, L and C for a maximum of color consistency from unit to unit. Please note If this function is activated only RGB is available at User Color and Quick Color. For a maximum of saturation please chose RAW mode.

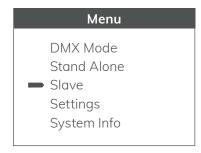
Level 1 Level 2 Level 3



#### 5.4.4 Slave Mode\*

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

#### Level 1



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

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

① Note: All devices should use same software version.

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

## 5.4.5 Settings

## Level 1

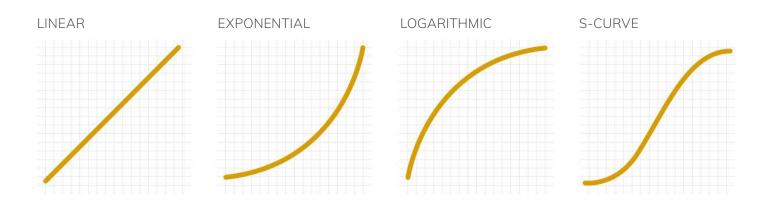
Menu
DMX Mode Stand Alone Slave Settings System Info

Main Menu	Menu level 2	Menu level 3	Menu level 4	Description
		CRMX	<on <b="">off&gt;</on>	On=CRMX enabled / Off= CRMX disabled
		Operating Mode	<receive transmit=""></receive>	Receive= CRMX module as Receiver Transmit= CRMX module as Transmitter
		Transmit Link	<no yes=""></no>	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 DMX	Pass to DMX Out	<no yes=""></no>	Yes= incoming wireless DMX and BLE signal will be passed to wired DMX out No= incoming wireless DMX and BLE signal will not be passed to wired DMX out
		Signal Strength	0-100	CRMX signal strength
		BLE	<on <b="">off&gt;</on>	On= BLE enabled / Off= BLE disabled
		BLE Link	< <b>no</b> /yes>	Link = starts bluetooth advertising for at least 1 minute
		BLE Password	<000000>	Set 6-digits user Password for connection to your mobile device (ROXXAPP)
		Auto Flip	<on off=""></on>	On= Auto-Display-Flip-Function enabled Off= Auto-Display-Flip-Function disbaled
	Display	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
Settings		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
		DMX		
		Auto		
	Startup Mode	Editor		
	(using last adjust- ments of specific	Color Macro		Select your default operating mode when fixture is powered on
	Standalone Modes)	Quick Color		
		Tunable White		
		User Color		
		Hold		Hold= last command retains
	DMX Fail	Blackout		Blackout= Activates Blackout
		Emergency Light		Emergency Light= Fixtures changes to 5600K
		Linear		Linear= Light intensity increases linear with DMX value
	Dimmer Curve	Exponential		Exponential= Light intensity can be set more smooth at lower DMX values and broadly at higher DMX values.
		Logarithmic		Light intensity can be broadly adjusted at lower DMX values and more smooth at higher DMX values
		S-Curve		Light intensity can be adjusted smoothly at lower and higher DMX values and broadly at medium DMX values

Main Menu	Menu level 2	Menu level 3	Menu level 4	Description
		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.
	RAW Balance	Red	<0-255>	
		Green	<0-255>	
	(affects RAW Mode in DMX and Stand	Blue	<0-255>	individual color calibration
	Alone Modes "Editor", "Quick Color" and "User Color".	Amber	<0-255>	for R,G,B,A,L and C
		Lime	<0-2 <b>55</b> >	
		Cyan	<0-255>	
		800 Hz		
		1200 Hz		
	LED Faceure	2000 Hz		Colort must med LED DIAMA for many
	LED Frequency	3600 Hz		Select preferred LED PWM frequency
		12000 Hz		
		25000 Hz		
	Fan	Auto		Adjust fan speed relative to internal fixture temperature, maximum 3000rpm
Settings		Silent		Low fan speed for silent operation, maximum 2000rpm
		Studio		Low fan speed for silent operation, maximum 1500rpm
		Fan Off		Fan Off
		Max. Power		High fan speed for maximum cooling effect, maximum 4000rpm
	Redshift	On / Off	On= Activates Redshift, Off= Deactivates Reds- hift	Redshift function simulate traditional halogen fixtures while dimming down. Redshift affects only between 2700-3500K.
	CRI	Normal	Normal CRI values on CCT, RGB color cali- bration available. Tint channel out of function.	
		High	Highest CRI values on CCT, no RGB color calibration available simoultaneously.	
	Factory / User Reset	Factory Reset	Are you sure to reset? Confirm by pressing EN- TER, cancel with ESC	Restores all factory defaults including User Colors, but no User defaults.
		User Reset	Are you sure to reset? Confirm by pressing ENTER, cancel with ESC	Restores all User Reset according to the User Preset List. Timer Function and DMX adress restore to Factory default. Once User Reset is activated a fixture self test will start.

Main Menu	Menu level 2	Menu level 3	Menu level 4	Menu Level 5	Description
			DMX Mode. 3CH CCT, 3CH RGB, 6CH RGB, 9CH RGB, 11CH RGB, 14CH RGB, 6CH DIRECT, 12CH DIRECT, 13CH DIRECT, 20CH DIRECT, <3CH HSI, 10CH HSI		
			CRMX	<on off=""></on>	
			CRMX Operating Mode.	<receive transmit=""></receive>	
			CRMX Receive Reset.	<no yes=""></no>	
			BLE	<on off=""></on>	
			BLE Link	<no yes=""></no>	
			BLE Password	<000000>	
	Factory / User Reset	User Reset List	CRMX Pass to DMX Out.	<no td="" yes)<=""><td></td></no>	
			Display Flip	<on off=""></on>	
Settings			Backlight	<on off=""></on>	Select your User Reset
			Auto Lock	<on off=""></on>	defaults
			Startup Mode	<dmx auto="" color="" editor="" macro,<br="">Quick Color, Tunable White User Color&gt;</dmx>	
			DMX Fail	< <b>Hold</b> /Blackout/Emergency (5600K)>	
			Dimmer Curve	<linear, exponential,="" logarithmic,<br="">S-Curve&gt;</linear,>	
			Dimmer Response	<led, halogen=""></led,>	
			LED Frequency	<800Hz, <b>1200Hz</b> , 2000Hz, 3600Hz, 12000Hz, 25000Hz>	
			Redshift	<on off=""></on>	
			CRI	<normal high=""></normal>	
			Fan	< <b>Auto</b> , Silent, Studio, Fan Off, Max. Power>	

## **Dimmer Curves**



# 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	102xxxxxxxx	
	RDM UID	0X6a6axxxxxxxx	Display unique RDM ID for identification
System	Temperatures	Celsius LED : XXX°C or Fahrenheit LED : XXX°F	Display fixture temperature by celsius and fahrenheit
Info	Power on Time	Total: xxxxxhours	Display fixture total power on time
	LED on Time	Total: xxxxxhours	Display LED total power on time
	Errors	Errors information	Display error codes
	Fan Speed	xxxx RPM	Display the current fan speed

# **6. ACCESSORIES**

## 6.1 Lenses

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



Narrow Art.: 11207001



Medium Art.: 11207101



Wide Art.: 11207201



Elliptical Narrow Art.: 11207301



Elliptical Wide Art.: 11208201

## Lens matrix:

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

## 6.2 More accessories



Accessory Holder Art.: 11907401



8-way barndoor Art.: 11907501



Honey comb Art.: 11907601



Gel-frame Art.: 11907701



Omega Bracket ST Art.: 90900002



Softbox by DoPchoice Art.: 11908301



Snapgrid by DoPchoice Art.: 11908301



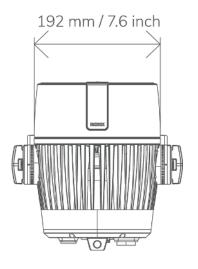
Full anti-glare shield Art.: 11208401

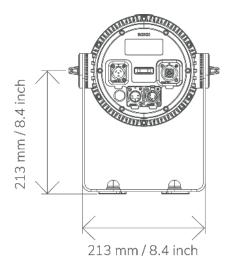


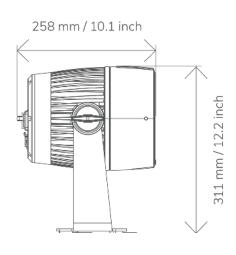
Touring case 8 Art.: 11908001

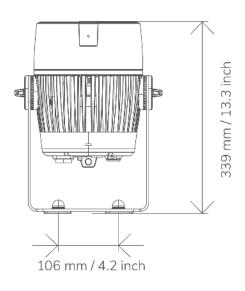
# 7. TECHNICAL DATA / DIAGRAMS

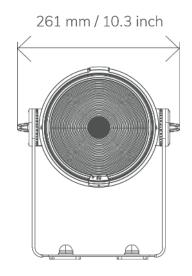
# 7.1 Technical drawings and measurements

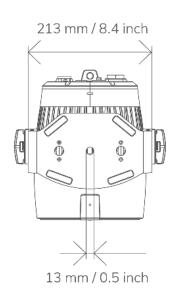






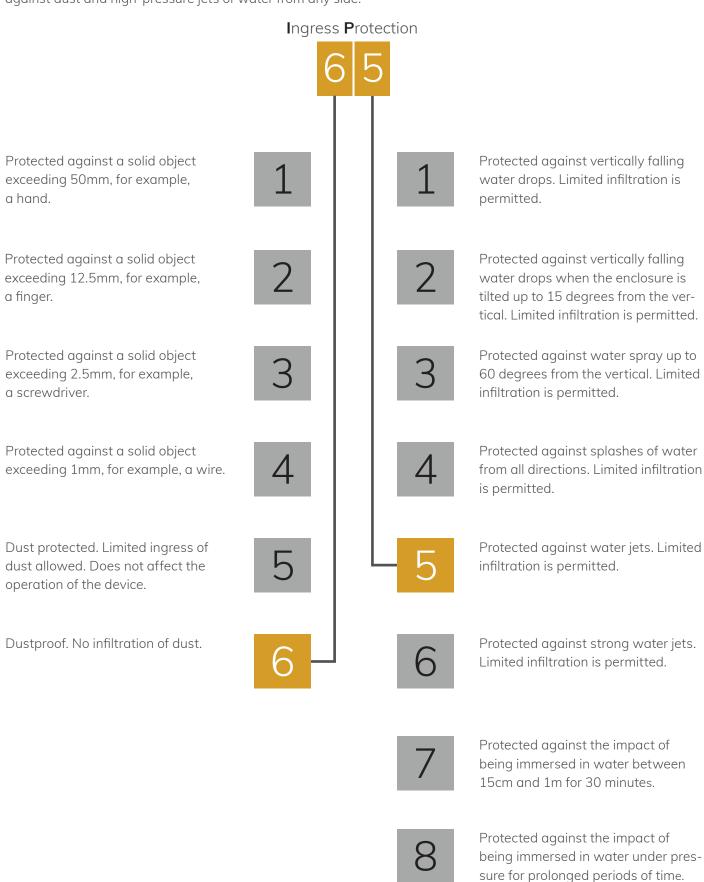






## 7.2 IP Rating

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



# 7.3 Technical Data

Photometrics	
LED expected lifetime	50.000 hours
Lightsource	1x230W RGBALC
Type of optical system	reflector + interchangable lens plates
LED PWM Frequency	selectable 800Hz, 1200Hz, 2000Hz, 3600Hz, 12kHz, 25kHz
Beam angles (50%)	19° (with narrow lens) 36° (with medium lens) 59° (with wide lens) 17°x24° (with elliptical narrow lens) 19°x57° (with elliptical wide lens)
Maximum Field angles (10%)	36° (with narrow lens) 72° (with medium lens) 88° (with wide lens) 35°x46° (with elliptical-narrow lens) 43°x81° (with elliptical-wide lens)
Color temperature range	2.000K – 10.000K
Efficancy (max)	49,8 lm/W
CRI/RA	97
TLCI	98
TM-30-15	Rf 96 / Rg 103
Luminous flux	9049 lm
illuminance Lux @ 5m (narrow lens)	1690 lx
illuminance Lux @ 5m (medium lens)	471 lx
illuminance Lux @ 5m (wide lens)	251 lx
illuminance Lux @ 5m (elliptical-narrow lens)	1191 lx
illuminance Lux @ 5m (elliptical-wide lens)	490 lx
Thermal Characteristics	
Cooling	Active, Forced Air, Temperature-regulated
Humidity (max.)	95%
Temperature range, Operating	-20°C to 45°C
Temperature range, Start-up	-20°C to 50°C
Temperature range, Storage	-20°C to 80°C
Thermal Protection	Automatic overtemperature protection
Electrical Data	
AC power, max.	90 – 285V 50/60Hz
AC Power, nominal	100 – 260V 50/60Hz
Electrical Protection	Overload protection with automatic recover
Max Inrush Current	50A
Max power consumption	220W
Typical power consumption	153W
Standby power	6,7W
Max power thru @ 100 V	8A
Max power thru @ 230 V	8A
Power factor	0,92 PF (230 V) / 0,99 PF (100V)
Power Supply Unit	Inbuilt auto-ranging electronic switch-mode
Power Linking	4 units @ 120 V; 8 units @ 230 V
	34

## 7.3 Technical Data

Operator & Controller	
DMX channels	3CH CCT, 3/6/9/11/14CH RGB, 6/12/13/20CH DIRECT, 3/10CH HSI
DMX modes	12
Protocol	CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S USITT DMX512A RDM ANSI E1.20 Bluetooth (Low Energy)
Setting and addressing	OLED graphical display / 4 controls RDM ANSI E1.20
Standalone mode	Auto Program, Editor, Color Macro, Quick Color, Tunable White, User Color, Timer
Wireless DMX	Lumenradio with RDM (CRMX)
Indicator	OLED graphical display
Controls	4 touch sensitive, backlighted controls
Strobe	0-20Hz
DMX I/O	IP65 XLR 5-pin male/female
Power I/O	TRUE1 compatible input & link-thru sockets
Dimensions & Weight	
IP class	IP 65
Net Dimensions (w x h x d)	261 x 311 x 258 mm
Physical Head Straight Up Height	339 mm
Net Dimensions inches	10,3 x 12,2 x 10,1 inches
Net Weight	5,7 kg (12,6 lbs)
Included / Optional	
Included items	2x radiator caps for pendant installation 2m power cable
Color options	Black – RAL 9004 (Standard) White – RAL 9010 Custom color – any RAL

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

зсн сст	6CH DIRECT
3CH RGB	12CH DIRECT
6CH RGB	13CH DIRECT
9CH RGB / Default Mode	20CH DIRECT
The state of the s	
11CH RGB	3CH HSI

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

3 CH - I	3 CH - RGB MODE (Factory Calibrated Mode) - 8bit				
Ch.	Function	Value	Setting		
1	Red	000-255	0 - 100%		
2	Green	000-255	0 - 100%		
3	Blue	000-255	0 - 100%		

6 CH - RGB MODE (Factory Calibrated) - 16bit			
Ch.	Function	Value	Setting
1	Red	000-255	0 - 100%
2	Red Fine	000-255	0 - 100%
3	Green	000-255	0 - 100%
4	Green Fine	000-255	0 - 100%
5	Blue	000-255	0 - 100%
6	Blue Fine	000-255	0 - 100%

Ch.         Function         Value         Setting           1         Dimmer         000-255         0 - 100%           000 - 019         Shutter close           020 - 024         Shutter open           025 - 064         Strobe 1 (fast ⊕ slow)           065 - 069         Shutter open           070 - 084         Strobe 2: opening pulse (fast ⊕ slow)           085 - 089         Shutter open           090 - 104         Strobe 3: closing pulse (fast ⊕ slow)           105 - 109         Shutter open           110 - 124         Strobe 4: random strobe (fast ⊕ slow)           125 - 129         Shutter open           130 - 144         Strobe 5: random opening pulse (fast ⊕ slow)           145 - 149         Shutter open           150 - 164         Strobe 6: random closing pulse (fast ⊕ slow)           165 - 169         Shutter open           170 - 184         Strobe 7: burst pulse (fast ⊕ slow)           185 - 189         Shutter open           190 - 204         Strobe 8: random burst pulse (fast ⊕ slow)           205 - 209         Shutter open			
200 - 019   Shutter close			
2 Shutter  Shutter open  025 - 064 Strobe 1 (fast ⊕ slow)  065 - 069 Shutter open  070 - 084 Strobe 2: opening pulse (fast ⊕ slow)  085 - 089 Shutter open  090 - 104 Strobe 3: closing pulse (fast ⊕ slow)  105 - 109 Shutter open  110 - 124 Strobe 4: random strobe (fast ⊕ slow)  125 - 129 Shutter open  130 - 144 Strobe 5: random opening pulse (fast ⊕ slow)  145 - 149 Shutter open  150 - 164 Strobe 6: random closing pulse (fast ⊕ slow)  165 - 169 Shutter open  170 - 184 Strobe 7: burst pulse (fast ⊕ slow)  185 - 189 Shutter open  190 - 204 Strobe 8: random burst pulse (fast ⊕ slow)			
2  Shutter  Shutter			
Shutter open			
2   Shutter			
Shutter  Shutter open  130 - 144  Strobe 5: random opening pulse (fast ⊕ slow)  145 - 149  Shutter open  150 - 164  Strobe 6: random closing pulse (fast ⊕ slow)  165 - 169  Shutter open  170 - 184  Strobe 7: burst pulse (fast ⊕ slow)  185 - 189  Shutter open  190 - 204  Strobe 8: random burst pulse (fast ⊕ slow)			
2 Shutter  Shutter open  110 - 124			
2 Shutter    105 - 109			
2 Shutter    110 - 124			
2 Shutter    125 - 129			
2 Shutter    130 - 144   Strobe 5: random opening pulse (fast ⊕ slow)     145 - 149   Shutter open     150 - 164   Strobe 6: random closing pulse (fast ⊕ slow)     165 - 169   Shutter open     170 - 184   Strobe 7: burst pulse (fast ⊕ slow)     185 - 189   Shutter open     190 - 204   Strobe 8: random burst pulse (fast ⊕ slow)			
2       Shutter         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)			
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)			
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)			
170 - 184 Strobe 7: burst pulse (fast ⊕ slow)  185 - 189 Shutter open  190 - 204 Strobe 8: random burst pulse (fast ⊕ slow)			
185 - 189 Shutter open 190 - 204 Strobe 8: random burst pulse (fast ⊕ slow)			
190 - 204 Strobe 8: random burst pulse (fast ⊕ slow)			
205 - 209 Shutter open			
	Shutter open		
210 - 224 Strobe 9: sine wave (fast ⊕ slow)	Strobe 9: sine wave (fast ⊕ slow)		
225 - 229 Shutter open	Shutter open		
230 - 244 Strobe 10: burst (fast ⊕ slow)			
245 - 255 Shutter open			
3 <b>Red</b> 000-255 0 - 100%			
4 <b>Green</b> 000-255 0 - 100% RGB fade to 100% = CTC			
5 <b>Blue</b> 000-255 0 - 100%			
000 - 004 5600K			
005-226 2000K-6500K (please see detailed CTC chart)			
6 CTC (affects RGB) 182-182 5600K			
226-226 6500K			
227-255 6621K-10.000K (please see detailed CTC chart)			
0 no function			
7 Tint 001-127 Magenta → Neutral only available at "High" CRI mod			
(affects CTC, RGB) 128-128 Neutral only available at "High" CRI mod	e		
129-255 Neutral ⊕ Green			
8 Color Macro (override RGB, CTC) (please see detailed color macro chart)	(please see detailed color macro chart)		
000 - 005 no function			
Color Macro         006-105         0,1s - 10s (0,1s steps)			
9 (Transition Time 106-214 11s - 119s (1s steps)			
between Color Macros) 215-244 2m - 4m50s (10s steps)			
245-255 5m - 15m (1m steps)	3:		

11 CH	RGB Mode (Factory C	alibrated) - 8bit				
Ch.	Function	Value	Setting			
1	Dimmer	000-255	0 - 100%			
		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 puls	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open			
		110 - 124	Strobe 4: random stro	bbe (fast ⊕ slow)		
		125 - 129	Shutter open			
	Shutter	130 - 144	Strobe 5: random ope	ning pulse (fast ⊕ slow)		
2		145 - 149	Shutter open			
		150 - 164	Strobe 6: random clos	sing 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	<b>Duration</b> (only affects to channel 2 - Strobe 1 025-064)	000-255	0 - 100%			
4	Red	000-255	0 - 100%			
5	Green	000-255	0 - 100%	RGB fade to 100% = CTC		
6	Blue	000-255	0 - 100%			
		000 - 004	5600K			
		005-226	2000K-6500K (pleas	e see detailed CTC chart)		
7	(affects RGB)	182-182	5600K			
	(466662)	226-226	6500K			
		227-255	6621K-10.000K (plec	se see detailed CTC chart)		
		0	no function			
0	Tint	001-127	Magenta ⊕ Neutral	only available at III liabil CDI seeds		
8	(affects CTC, RGB)	128-128	Neutral	only available at "High" CRI mode		
		129-255	Neutral ⊕ Green			
9	Color Macro (override RGB, CTC)		(please see detailed	color macro chart)		

2	Dimmer Fine	000-255	0 - 100%
1	Dimmer	000-255	0 - 100%
Ch.	Function	Value	Setting
14.CH	RGB Mode (Factory		
		190-255	No function
		185-189	User Reset (hold 3s)
		180-184	Factory Reset (hold 3s / except User Reset defaults )
		170-174	High CRI (Hold 1,5s)
		165-169 170-174	Redshift Off (hold 1,5s)  Normal CRI (Hold 1,5s)
		160-164	Redshift On (hold 1,5s / affects only between 2700-3500K)
		155-159	No function
		150-154	Fan High Power (hold 3s)
		145-149	Fan Off (hold 3s)
		140-144	Fan Studio (hold 3s)
		135-139	Fan Silent (hold 3s)
		130-134	Fan Auto (hold 3s)
	remark *1)	125-129	No function
11	<b>Device Settings</b> (please see	120-124	LED Frequency 25kHz (hold 3s)
	Davies Settings	115-119	LED Frequency 12kHz (hold 3s)
		110-114	LED Frequency 3600Hz (hold 3s)
		105-109	LED Frequency 2000Hz (hold 3s)
		100-104	LED Frequency 1200Hz (hold 3s)
		095-099	LED Frequency 800Hz (hold 3s)
		060-094	No function
		055-059	Dimmer Response Halogen (hold 1,5s)
		050-054	Dimmer Response LED (hold 1,5s)
		045-049	S-Curve Dimmer Curve (hold 3s)
		040-044	Logarithmic Dimmer Curve (hold 3s)
		035-039	Exponential Dimmer Curve (hold 3s)
		030-034	Linear Dimmer Curve (hold 3s)
		000-029	No function
		245-255	5m - 15m (1m steps)
	Macros)	215-244	2m - 4m50s (10s steps)
10	(Transition Time between Color	106-214	11s - 119s (1s steps)
	Color Macro Crossfade	006-105	0,1s - 10s (0,1s steps)
		000 - 005	no function

		000 - 019	Shutter close				
		020 - 024	Shutter open				
		025 - 064	Strobe 1 (fast ⊕ sl	low)			
		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	strok	pe (fast ⊛ slow)		
		125 - 129	Shutter open		-		
		130 - 144	-	oper	ning pulse (fast ⊛ slow)		
3	Shutter	145 - 149	Shutter open		51 ( - )		
		150 - 164	·	closi	ng pulse (fast ⊕ slow)		
		165 - 169	Shutter open				
		170 - 184	Strobe 7: burst pu	ılse (f	iast ⊕ 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					
		245 - 255		Shutter open			
4	Red	000-255	0 - 100%				
5	Red Fine	000-255	0 - 100%				
6	Green	000-255	0 - 100%				
7	Green Fine	000-255	0 - 100%		RGBALC Fade to 100% = CTC		
8	Blue	000-255	0 - 100%				
9	Blue Fine	000-255	0 - 100%				
	Didd: IIIC	000-233	5600K				
		005-226		lease	e see detailed CTC chart)		
10	СТС	182-182	5600K		. 222 22131100 0.0 0.1011		
	(affects RGB)	226-226	6500K				
		227-255		6621K-10.000K (please see detailed CTC chart)			
11	Tint (affects CTC, RGB)	0	no function				
		001-127	Magenta ⊕ Neutro	al	only available at "High" CRI mode		
		128-128	Neutral		only available at Flight Chilliode		
		129-255	Neutral ⊕ Green				
12	Color Macro (override RGB, CTC)			iled o	color macro chart)		

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

6	Cyan	000-255	0 - 100%			
12 CH -	12 CH - DIRECT MODE (RAW) - 16bit					
Ch.	Function	Value	Setting			
1	Red	000-255	0 - 100%			
2	Red Fine	000-255	0 - 100%			
3	Green	000-255	0 - 100%			
4	Green Fine	000-255	0 - 100%			
5	Blue	000-255	0 - 100%			
6	Blue Fine	000-255	0 - 100%			
7	Amber	000-255	0 - 100%			
8	Amber Fine	000-255	0 - 100%			
9	Lime	000-255	0 - 100%			
10	Lime Fine	000-255	0 - 100%			
11	Cyan	000-255	0 - 100%			
12	Cyan Fine	000-255	0 - 100%			

h.	Function	Value	Setting			
Dimmer		000-255	0 - 100%			
		000 - 019	Shutter close	Shutter close		
		020 - 024	Shutter open			
		025 - 064	Strobe 1 (fast⊕s	low)		
		065 - 069	Shutter open			
		070 - 084	Strobe 2: opening	g 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)			
	Shutter	125 - 129	Shutter open			
2		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)			
<u>′</u>	Silutter	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 wo	ve (fast ⊛ slow)		
		225 - 229	Shutter open			
		230 - 244	Strobe 10: burst	fast ⊛ slow)		
		245 - 255	Shutter open			
	Red	000-255	0 - 100%	RGBALC Fade to 100% = CTC		
	Green	000-255	0 - 100%			

5	Blue	000-255	0 - 100%	
6	Amber	000-255	0 - 100%	RGBALC Fade to 100% = CTC
7	Lime	000-255	0 - 100%	
8	Cyan	000-255	0 - 100%	
		000 - 004	RAW	
		005-226	2000K-6500K (	please see detailed CTC chart)
9	CTC (affects RGBALC)	182-182	5600K	
	(directs NGBALC)	226-226	6500K	
		227-255	6621K-10.000K	(please see detailed CTC chart)
		0	no function	
4.0	Tint	001-127	Magenta → Neutral	
10	(affects CTC, RGBALC)	128-128	Neutral	
		129-255	Neutral ⊕ Green	
11	Color Macro (override RGBALC, CTC)		(please see detailed color macro chart)	
		000 - 005	no function	
	Color Macro Crossfade 12 (Transition Time between Color Macros)	006-105	0,1s - 10s (0,1s	steps)
12		106-214	11s - 119s (1s st	teps)
		215-244	2m - 4m50s (10s	s steps)
		245-255	5m - 15m (1m st	teps)

		030-034	Linear Dimmer Curve (hold 3s)
		035-039	Exponential Dimmer Curve (hold 3s)
		040-044	Logarithmic Dimmer Curve (hold 3s)
		045-049	S-Curve Dimmer Curve (hold 3s)
		050-054	Dimmer Response LED (hold 1,5s)
		055-059	Dimmer Response Halogen (hold 1,5s)
		060-069	No function
		070-074	RAW Mode (hold 3s)
		075-079	No function
	Device Settings	080-084	Factory Calibrated Mode (hold 3s)
13	(please see	085-094	No function
	remark *1)	095-099	LED Frequency 800Hz (hold 3s)
		100-104	LED Frequency 1200Hz (hold 3s)
		105-109	LED Frequency 2000Hz (hold 3s)
		110-114	LED Frequency 3600Hz (hold 3s)
		115-119	LED Frequency 12kHz (hold 3s)
		120-124	LED Frequency 25kHz (hold 3s)
		125-129	No function
		130-134	Fan Auto (hold 3s)
		135-139	Fan Silent (hold 3s)
		140-144	Fan Studio (hold 3s)
		145-149	Fan Off (hold 3s)
		150-154	Fan High Power (hold 3s)
		155-159	No function
		160-164	Redshift On (hold 1,5s / affects only between 2700-3500K)
13	<b>Device Settings</b> (please see remark	165-169	Redshift Off (hold 1,5s)
13	*1)	170-179	No function
		180-184	Factory Reset (hold 3s / except User Reset defaults)
		185-189	User Reset (hold 3s)
		190-255	No function

20 CH - DIRECT MODE (RAW) - 16bit					
Ch.	Function	Value	Setting		
1	Dimmer	000-255	0 - 100%		
2	Dimmer Fine	000-255	0 - 100%		

		000 - 019	Shutter close		
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast ⊕ s	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 (fast $\otimes$ slow)	
		125 - 129	Shutter open	,	
		130 - 144	-	opening pulse (fast ⊕ slow)	
3	Shutter	145 - 149	Shutter open		
		150 - 164	-	n closing pulse (fast ⊕ slow)	
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)		
		205 - 209	Shutter open		
		210 - 224	Strobe 9: sine wave (fast ⊕ slow)		
		225 - 229	Shutter open		
		230 - 244	Strobe 10: burst (fast ⊕ slow)		
		245 - 255	Shutter open		
4	Red	000-255	0 - 100%		
5	Red Fine	000-255	0 - 100%		
6	Green	000-255	0 - 100%		
7	Green Fine	000-255	0 - 100%		
8	Blue	000-255	0 - 100%		
9	Blue Fine	000-255	0 - 100%	RGBALC Fade to 100% = CTC	
10	Amber	000-255	0 - 100%		
11	Amber Fine	000-255	0 - 100%		
12	Lime	000-255	0 - 100%		
13	Lime Fine	000-255	0 - 100%		
14	Cyan	000-255	0 - 100%		
15	Cyan Fine	000-255	0 - 100%		
		000 - 004	RAW		
	стс	005-226	2000K-6500K <b>(p</b>	lease see detailed CTC chart)	
16	(affects RGBALC)	182-182	5600K		
	,	226-226	6500K		
		227-255	6621K-10.000K	please see detailed CTC chart)	

		0	no function
	Tint	001-127	Magenta ⊕ Neutral
17	(affects CTC, RGBALC)	128-128	Neutral
		129-255	Neutral → Green
18	Color Macro (override RGBALC, CTC)		(please see detailed color macro chart)
		000 - 005	no function
	Color Macro Crossfade	006-105	0,1s - 10s (0,1s steps)
19	(Transition Time	106-214	11s - 119s (1s steps)
	between Color Macros)	215-244	2m - 4m50s (10s steps)
	,	245-255	5m - 15m (1m steps)
		000-029	No function
		030-034	Linear Dimmer Curve (hold 3s)
		035-039	Exponential Dimmer Curve (hold 3s)
		040-044	Logarithmic Dimmer Curve (hold 3s)
		045-049	S-Curve Dimmer Curve (hold 3s)
		050-054	Dimmer Response LED (hold 1,5s)
		055-059	Dimmer Response Halogen (hold 1,5s)
		060-069	No function
		070-074	RAW Mode (hold 3s)
	Device Settings	075-079	No function
20	(please see	080-084	Factory Calibrated Mode (hold 3s)
	remark *1)	085-094	No function
		095-099	LED Frequency 800Hz (hold 3s)
		100-104	LED Frequency 1200Hz (hold 3s)
		105-109	LED Frequency 2000Hz (hold 3s)
		110-114	LED Frequency 3600Hz (hold 3s)
		115-119	LED Frequency 12kHz (hold 3s)
		120-124	LED Frequency 25kHz (hold 3s)
		125-129	No function
		130-134	Fan Auto (hold 3s)
		135-139	Fan Silent (hold 3s)
		140-144	Fan Studio (hold 3s)
		145-149	Fan Off (hold 3s)
		150-154	Fan High Power (hold 3s)
		155-159	No function
20	Device Settings	160-164	Redshift On (hold 1,5s / affects only between 2700-3500K)
20	(please see remark *1)	165-169	Redshift Off (hold 1,5s)
		170-179	No function
		180-184	Factory Reset (hold 3s / except User Reset defaults )
		185-189	User Reset (hold 3s)
		190-255	No function

3 CH - HSI MODE (Factory Calibrated) - 8bit				
Ch.	Function	Value	Setting	
1	Dimmer	000-255	0 - 100%	
2	Hue	000-255	0° (RED) Thru 360°	
3	Saturation	000-255	0 - 100%	

10 CH	10 CH - HSI Mode (Factory Calibrated) - 16bit				
Ch.	Function	Value	Setting		
1	Dimmer	000-255	0 - 100%	0 - 100%	
2	Dimmer Fine	000-255	0 - 100%		
		000 - 019	Shutter close		
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast ⊕ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening puls	se (fast ⊕ slow)	
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse	e (fast ⊕ slow)	
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strol	be (fast ⊕ slow)	
		125 - 129	Shutter open		
2		130 - 144	Strobe 5: random oper	ning pulse (fast ⊕ slow)	
3	Shutter	145 - 149	Shutter open		
		150 - 164	Strobe 6: random closi	Strobe 6: random closing pulse (fast ⊕ slow)	
		165 - 169	Shutter open	Shutter open	
		170 - 184	Strobe 7: burst pulse (	Strobe 7: burst pulse (fast ⊕ slow)	
		185 - 189	Shutter open	Shutter open	
		190 - 204	Strobe 8: random burs	Strobe 8: random burst pulse (fast ⊕ slow)	
		205 - 209	Shutter open	Shutter open	
		210 - 224	Strobe 9: sine wave (fo	Strobe 9: sine wave (fast ⊕ slow)	
		225 - 229	Shutter open		
		230 - 244	Strobe 10: burst (fast 6	Strobe 10: burst (fast ⊕ slow)	
		245 - 255	Shutter open	Shutter open	
1	Hue	000-255	0° (RED) Thru 360°		
5	Satuation	000-255	0 - 100% (CTC ⊕ HUE		
		000 - 004	5600K		
	стс	005-226	2000K-6500K (please	2000K-6500K (please see detailed CTC chart)	
ŝ	(affects HUE,	182-182	5600K	5600K	
	Saturation)	226-226	6500K		
		227-255	6621K-10.000K (pleas	se see detailed CTC chart)	
		0	no function		
7	Tint	001-127	Magenta ⊕ Neutral	only available of III inch!! CDI made	
7	(affects CTC, HUE, Saturation)	128-128	Neutral	only available at "High" CRI mode	
		129-255	Neutral ⊕ Green		

8	Color Macro (override HUE, Sa- turation, CTC)		(please see detailed color macro chart)
		000 - 005	no function
	Color Macro Crossfade	006-105	0,1s - 10s (0,1s steps)
9	(Transition Time between Color Macros)	106-214	11s - 119s (1s steps)
		215-244	2m - 4m50s (10s steps)
		245-255	5m - 15m (1m steps)
		000-029	No function
		030-034	Linear Dimmer Curve (hold 3s)
		035-039	Exponential Dimmer Curve (hold 3s)
		040-044	Logarithmic Dimmer Curve (hold 3s)
		045-049	S-Curve Dimmer Curve (hold 3s)
		050-054	Dimmer Response LED (hold 1,5s)
		055-059	Dimmer Response Halogen (hold 1,5s)
		060-094	No function
		095-099	LED Frequency 800Hz (hold 3s)
		100-104	LED Frequency 1200Hz (hold 3s)
4.0	Device Settings (please see remark *1)	105-109	LED Frequency 2000Hz (hold 3s)
10		110-114	LED Frequency 3600Hz (hold 3s)
		115-119	LED Frequency 12kHz (hold 3s)
		120-124	LED Frequency 25kHz (hold 3s)
		125-129	No function
		130-134	Fan Auto (hold 3s)
		135-139	Fan Silent (hold 3s)
		140-144	Fan Studio (hold 3s)
		145-149	Fan Off (hold 3s)
		150-154	Fan High Power (hold 3s)
		155-159	No function
		160-164	Redshift On (Hold 1,5s / affects only between 2700-3500K)
		165-169	Redshift Off (hold 1,5s)
		170-174	Normal CRI (Hold 1,5s)
4.0	Device Settings	175-179	High CRI (Hold 1,5s)
10	(please see remark *1)	180-184	Factory Reset (hold 3s / except User Reset defaults)
		185-189	User Reset (hold 3s)
		190-255	No function
Remark *1 - After adjustments please set the value back to 000 to avoid any disturbance by endless function call.			

# Color Macro Chart for DMX

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

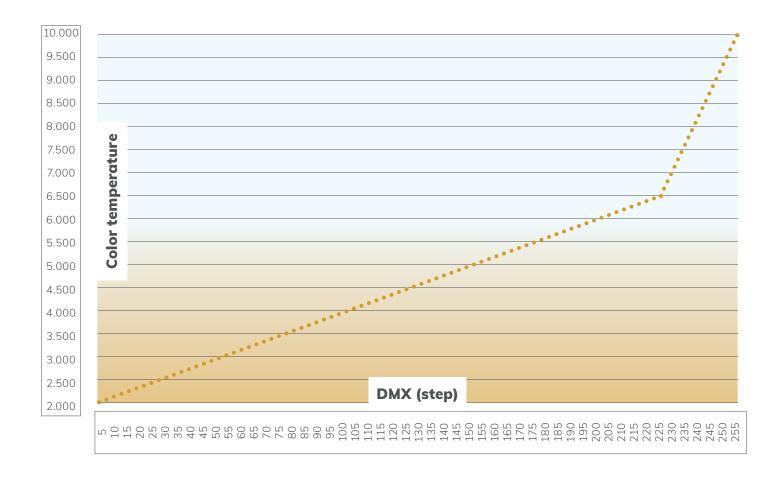
Gels - Color Macros for DMX			
093-095	Magenta	LEE 113	
096-098	Mauve	LEE 126	
099-101	Smokey Pink	LEE 127	
102-104	Special Med Lavender	LEE 343	
105-107	Ultimate Violet	LEE 707	
108-110	Magical Magenta	LEE 795	
111-113	Chrysalis Pink	LEE 798	
114-116	Specia KH Lavender	LEE 799	
117-119	Bulb White	2700K	
120-122	Halogen White	3200K	
123-125	Neutral White	4200K	
126-128	Daylight White	5600K	
129-131	Cold White I	6000K	
132-134	Cold White II	6300K	
135-137	White (only if available)	100% White LED	
138-140	Amber (only if available)	100% Amber LED	
141-143	Lime (only if available)	100% Lime LED	
144-146	Cyan (only if available)	100% Cyan LED	
147-149	User Color 1		
150-152	User Color 2		
153-155	User Color 3		
156-158	User Color 4		
159-161	User Color 5		
162-164	Color Jumping stop		
165-209	Color Jumping speed slow ⊕ fast	color 1-37	
210-255	Color fading speed slow ⊕ fast	color 1-37	

# Color Macro Chart for Stand Alone

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

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

CTC channel DMX / Color temperature



# CTC-Chart

DUV	Color
DMX (Step)	Temp (°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	Color
(Step)	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	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
85	3629

	Color
DMX (Step)	Temp (°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
	3914
99	
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

	Calan
DMX (Store)	Color Temp
(Step)	(°K)
129	4525
130	4545
131	4566
132	4586
133	4606
134	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
	1

DMX (Step)	Color Temp (°K)
172	5400
173	5421
174	5441
175	5462
176	5482
177	5502
178	5523
179	5543
180	5563
181	5584
182	5604
183	5624
184	5645
185	5665
186	5686
187	5706
188	5726
189	5747
190	5767
191	5787
192	5808
193	5828
194	5848
195	5869
196	5889
197	5910
198	5930
199	5950
200	5971
201	5991
202	6011
203	6032
204	6052
205	6072
206	6093
207	6113
208	6133
209	6154
210	6174
211	6195
212	6215
213	6235
214	6256

DMX (Step)	Color Temp (°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 Show series features support for various RDM functions.

RDM (Remote Device Management) is a protocol enhancement to USITT DMX512 that allows bi-directional communication between the fixtures and the controller over a standard DMX line. This protocol will allow configuration, status monitoring and management.

You will need a RDM controller to get control over the supported parameters. See the tables below for supported RDM features.

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

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

#### **RDM functions**

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

PID	Function	Action	Values
0x00F0	DMX Start Adress	Set	001-512
0×00E0	DMX Personality	Set	12x DMX modes
0x00E1	DMX Slots	read	n.a.
0x8012	Display Backlight	Set	0= Off / 1= On
0x8010	Fan Mode	Set	1= Auto / 2= Silent / 3= Studio / 4= Fan Off / 5= Max. Power
0x8030	Dimmer Curve	Set	1= Linear / 2= Exponential / 3= Logarithmic / 4= S-Curve
0x8031	Dimmer Response	Set	1= LED / 2= Halogen
0x8018	CRMX Operating Mode	Set (Receive / Transmit)	0= RX / 1= TX
0x8019	CRMX Receive Reset	Yes/No	0= No / 1= Yes
0x801A	CRMX Transmit Link	Yes/No	0= No / 1= Yes
0x801B	CRMX Pass to DMX out	Yes/No	0= No / 1= Yes
0x801C	Bluetooth	On/Off	0= Off / 1= On
0x801D	Bluetooth Link	Yes/No	0= No / 1= Yes
0x8040	LED Frequency (PWM)	Set	1= 800Hz / 2= 1200Hz / 3= 2000Hz / 4= 3600Hz / 5= 12kHz / 6= 25kHz
0x801E	Factory Reset	Yes/No	0= No / 1= Yes
0x801F	User Reset	Yes/No	0= No / 1= Yes
0×0401	Lamp hours	read	n.a.
0x0400	Device hours	read	n.a.
0x8011	DMX Fail	Set	1= Hold / 2= Blackout / 3= Emergency
0x8032	Redshift	Yes/No	0= Off / 1= On
0x8032	CRI	Normal/High	0= Normal / 1= High
none	Software Version	read	n.a.
Sensor 1	LED Temperature	read	n.a.

### Sensors

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

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

# 8. TROUBLESHOOTING

Did you try turning the device off and on again?

Problem	Reason	Solution
Device is not responding.	No power.	Check cable connections and conform that power is switched on.
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.
	DMX cable inverted (pins correct?)	Use a phase inverter or different cables.
Device operates strangely.	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











