

KEY K36



USER MANUAL

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1. SAFETY INFORMATION

1.1. General Preventive Measures

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

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

1.2 Regulations for equipment that connects to power mains

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

1.3. Technical warnsigns and explanation



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



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



Important operating and maintenance instructions apply!



Do not operate this device in tropical climates.



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



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



IMPORTANT INFORMATION!

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

2. INTRODUCTION

2.1. About us

The name ROXX® came easily.

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

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

Designed & developed in Germany

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

Made to last

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

2.2. KEY K36

ROXX® Entertainment's KEY Series consists of high-performance, weather-resistant fixtures equipped with single-source LEDs that deliver exceptionally smooth light output and uniform color reproduction. All models provide high CRI and TLCI values combined with strong luminous intensity, ensuring reliable results for a wide range of professional applications. The KEY K36 achieves a luminous flux of 17,000 lm at 5,600 K and offers a color rendering of CRI/Ra 88 and TLCI 90, making it particularly suitable for stadiums, outdoor events, broadcast environments, and film production. Its magnetic filter frame allows quick, tool-free lens changes, enabling flexible adjustment of beam angles to 8,1°, 21,7°, 29,2° or 51,7°. In addition to DMX control, the fixture supports full RDM functionality for remote configuration and monitoring. To cover a wide range of requirements, the KEY K36 is supplied with an 8-way barn-door, various optical filters, and an Omega bracket for versatile mounting options.

3. GENERAL PRODUCT INFORMATION

3.1. Scope of delivery

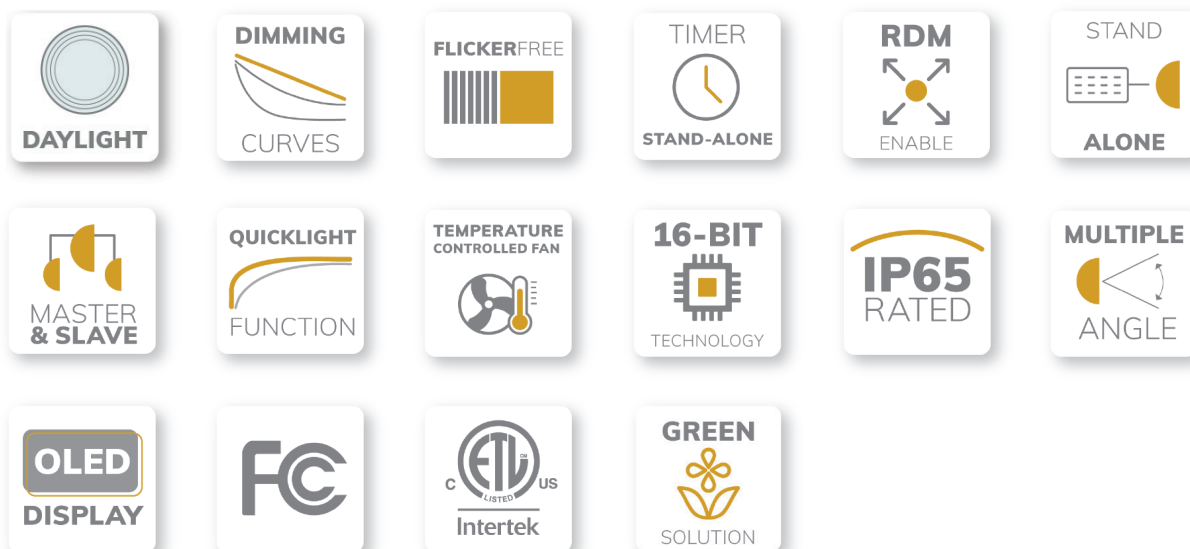
- ⊖ 1x KEY K36
- ⊖ Power cord with plug (EU country specific, if not ordered differently)

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

- 1/2/3/4CH Mode
- Stand Alone Quick Light Function with Timer
- Master & Slave (by DMX)

3.3. Features



4. INSTALLATION & SETUP

4.1 Physical Installation and Rigging

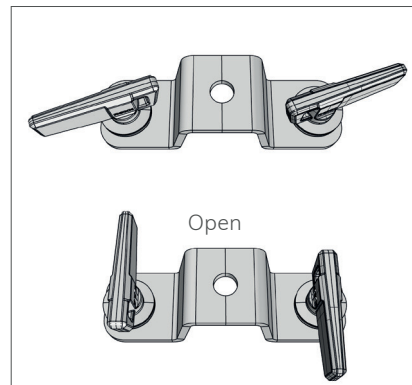
ROXX KEY K36 may be installed in any orientation. For this purpose the product provides several options:

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. The tilt angle can also be securely set using the integrated pin on the stand and the corresponding mounting point on the fixture.

Hanging:

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



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

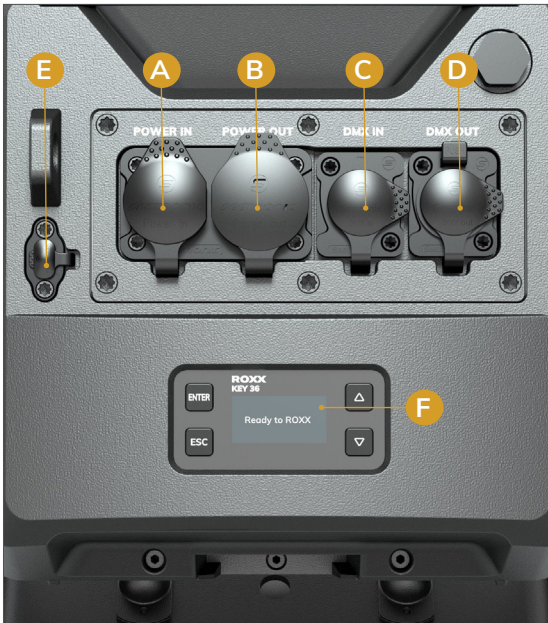
A centric hole on the yoke's bottom (d=13mm / 0,51 inch) provides a mounting point for more rigging options like a (Mini-) TV Spigot, to use the ROXX KEY K36 on a tripod or for example with a superclamp.

Vertical Mounting:

The KEY K36 units can also be connected using the accessory vertical mount, ensuring a stable and secure link between up to two devices.



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: Firmware / USB: when not in use, always close with rubber sealing cap

F: Display with control buttons

*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 KEY K36 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 KEY K36 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.

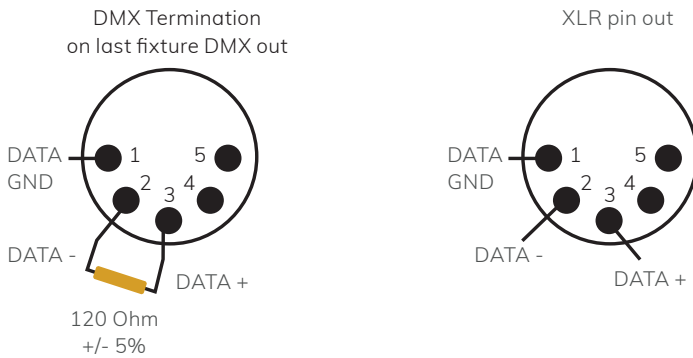
4.2.2.1. Cable Connection

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.

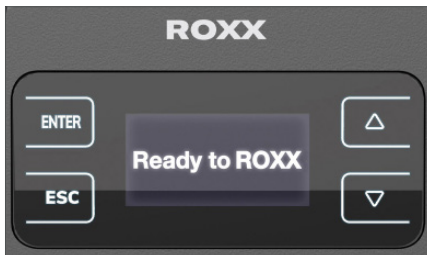


5. OPERATION

5.1 Start up*

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

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



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

***Note:**

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

5.2 Control Display*

OLED Display with Touch-Sensitive controls



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



Press ESC to take a step back in the menu.



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

***Note:**

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

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

5.3 Display Short Cuts*

Short Cuts

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

User Reset or Factory Reset*



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

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

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

***Note:**

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

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

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

Display Off



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

Manual display flip function*



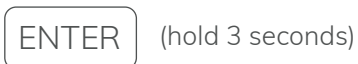
The fixture includes an auto display flip function by default.

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

*Note:

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

Quick Light function



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

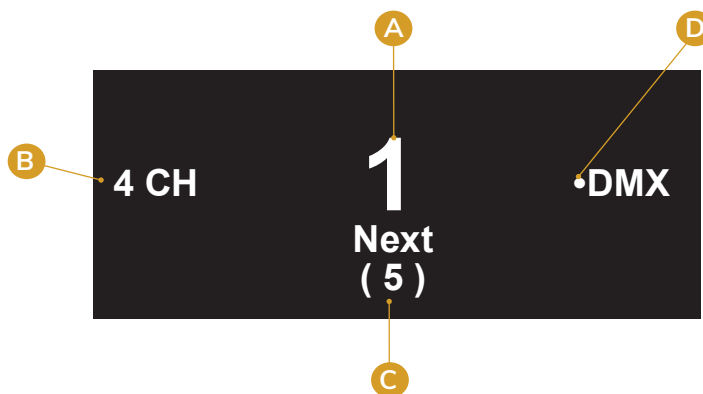
Here dimmer can be adjusted from 0-100% by using up/down arrows, to take over the dimming value please press ENTER to confirm.

5.4 Configuration

Home Screen

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

- A** DMX Address
- B** Operating Mode (DMX Mode, Quick Light or Standalone Mode)
- C** Next available DMX address depending on the fixtures DMX footprint
- D** The dot indicates the active protocol



5.4.1 Set DMX Start Address (Direct Access)

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

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

5.4.2 Selecting DMX Mode*

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

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

In the following sub-menu (level 2), you can now choose between 4 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
Settings
System Info

Level 2

DMX Mode
1CH
2CH
3CH
4CH (default)

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 the Quick Light function and the Timer 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.

Level 1

Menu
DMX Mode
█ Stand Alone
Settings
System Info

Level 2

Stand Alone Mode
█ Quick Light
Timer

Level 4

Program
█ Dimmer <0-100>
Shutter <0-255>

Shutter:

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

Timer*

Via the internal timer function, the Quick Light can be conveniently faded in and out after the function is enabled, without the need for an external controller. Also it remains active even the fixture is switched off and restarted. Simultaneously, the timer function is available via cable as well as via wireless DMX for master & slave operation.

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

Level 1

Menu
DMX Mode
█ Stand Alone
Settings
System Info

Level 2

Stand Alone Mode
Quick Light
█ Timer

Level 3

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

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

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

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

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

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

5.4.5 Settings

Level 1

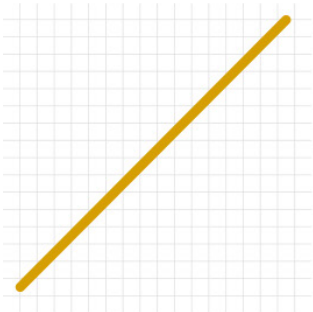
Menu
DMX Mode
Stand Alone
■ Settings
System Info

No.	Main Menu	Menu level 2	Menu level 3	Menu level 4
1	DMX Mode (Reference DMX Mode)	1CH		
		2CH		
		3CH		
		4CH		
2	Stand Alone	Quick Light	Dimmer <0- 100 >	
			Shutter <0- 255 >	(Please add the function description to DMX value)
			White <0-255>	
		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
3	Settings	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 stand-alone modes on the master unit (Auto, Quick Color).
		Display	Auto Flip < on /off>	
			Backlight < on /off>	
			Auto Lock < on /off>	
		Startup Mode (using last adjustments of Standalone Modes)	Hold (factory default)	
			DMX	
			Quick Light	
		DMX Fail	Hold (factory default)	
			Blackout	
			Emergency Light	
		Dimmer Curve	Linear (factory default)	
			Exponential	
			Logarithmic	
			S-Curve	
		Dimmer Response	LED	
			Halogen	
		LED Frequency	800 Hz	
			1200 Hz	
			2000 Hz	

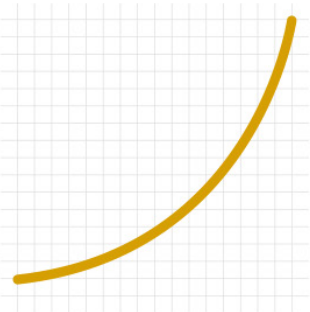
No.	Main Menu	Menu level 2	Menu level 3	Menu level 4
3	Settings	LED Frequency	3600 Hz	
			12000 Hz	
			25000 Hz	
		Fan	Auto	Adjust fan speed relative to internal fixture temperature, maximum 2500 rpm
			Silent	constant 2000 rpm with max. 10% drop @25°C
			Studio	constant 1500 rpm with max. 10% drop @25°C
			Fan Off	Fan off max. 10% drop @25°C
			Max Power	High fan speed for maximum cooling effect, constant 3000rpm
		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
			User Reset List	DMX Mode. <1CH, 2CH, 3CH, 4CH>
				Display Flip < on /off>
				Backlight < on /off>
				Auto Lock < on / off >
				Startup Mode < Hold /DMX / Quick Color>
				DMX Fail < Hold /Blackout/Emergency (5600K)>
				Dimmer Curve < Linear , Exponential, Logarithmic, S-Curve>
				Dimmer Response < LED , Halogen>
				LED Frequency <800Hz, 1200Hz , 2000Hz, 3600Hz, 12000Hz, 25000Hz>
				Fan < Auto , Silent, Studio, Fan Off, Max. Power>

Dimmer Curves

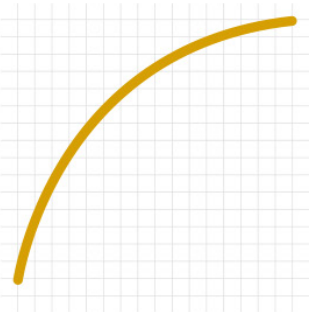
LINEAR



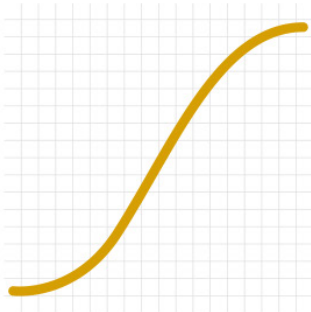
EXPONENTIAL



LOGARITHMIC



S-CURVE



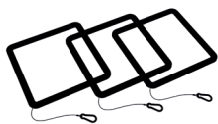
5.4.6 System Info

Level 1

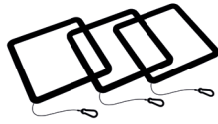
Menu
DMX Mode
Stand Alone
Settings
— System Info

Main Menu	Menu level 2	Menu level 3	Menu level 4
System Info	Firmware Version	vx.xx	Display installed firmware version
	Serial Number	145xxxxxxxx	
	RDM UID	0X6a6a0145xxxx	Display unique RDM ID for identification
	Temperatures	Celsius LED : XXX°C or Fahrenheit LED : XXX °F	Display fixture temperature by celsius and fahrenheit
	Power on Time	Total: xxxxxhours	Display fixture total power on time
	LED on Time	Total: xxxxxhours	Display LED total power on time
	Errors	Errors information	Display error codes
	Fan Speed	xxxx RPM	Display the current fan speed

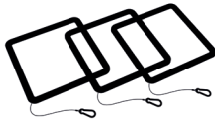
6. ACCESSORIES



KEY M Filter 30 (N)
Art.: 16906301



KEY M Filter 40 (M)
Art.: 16906501



KEY M Filter 60 (W)
Art.: 16906401



KEY M Barndoor
Art.: 16906101



KEY Vertical Mount
Art.: 16906601

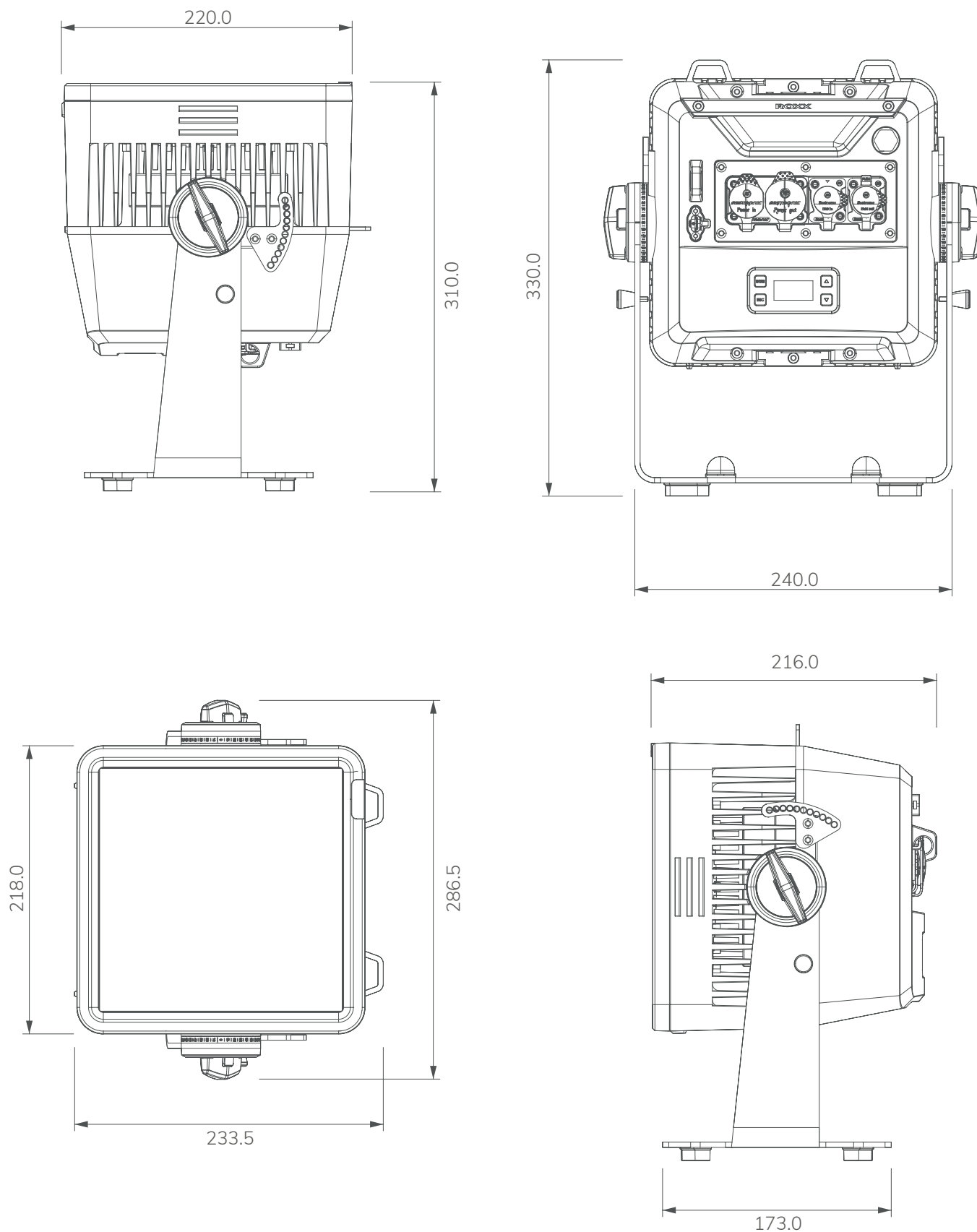


KEY Omega Bracket
Art.: 90900002-2

	COLOR CODES KEY	KEY K36 (beam angle / field angle)
Circular		
NARROW	N	30,1 / 60,2°
MEDIUM	M	44,6° / 87,8°
WIDE	W	51° / 95,9°

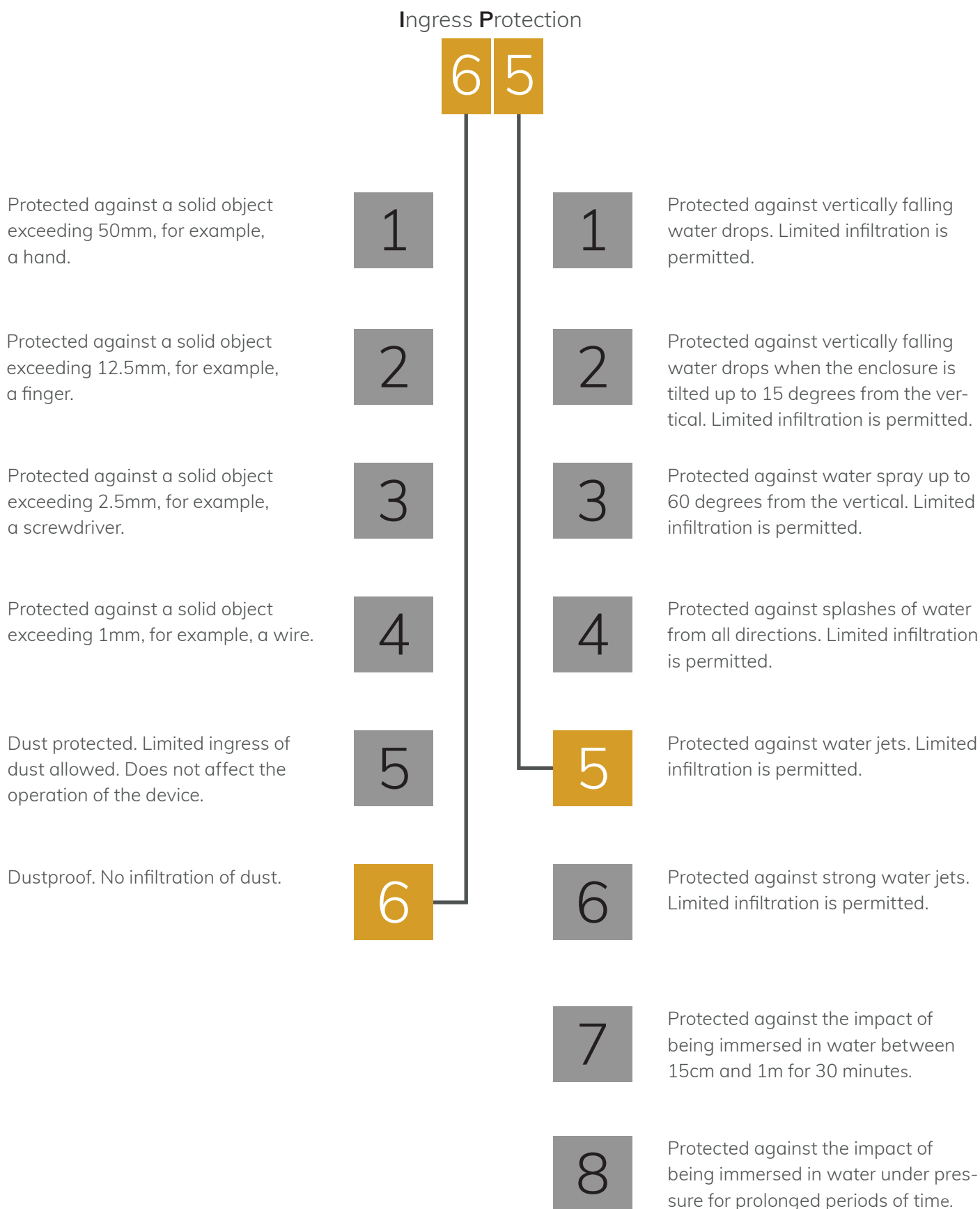
7. TECHNICAL DATA / DIAGRAMS

7.1 Technical drawings and measurements



7.2 IP Rating

ROXX products conform to officially classified IP standard levels. KEY K36 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	36 x 6,7W 5600K
Type of optical system	TIR lens
LED PWM Frequency	selectable 800Hz, 1200Hz, 2000Hz, 3600Hz, 12kHz, 25kHz
Beam angles (50%)	8,1 ° (Nativ) 21,7° (Narrow) 29,2° (Medium) 51,7 ° (Wide)
Maximum Field angles (10%)	13,1° (Nativ) 44,1° (Narrow) 56,8° (Medium) 96,8° (Wide)
Efficancy @ Full (max)	66 lm / W
CRI/RA	88,5
TLCI	90
TM-30-15	Rf 88,5 / Rg 99,1
Luminous flux	17.160 lm
illuminance Lux @ 5m (native)	23.186 lx
illuminance Lux @ 5m (narrow lens)	2.638 lx
illuminance Lux @ 5m (medium lens)	1.615 lx
illuminance Lux @ 5m (wide lens)	586 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	274W
Standby power	6,7W
Max power thru @ 100 V	9A (ETL) / 12A
Max power thru @ 230 V	10A (ETL) / 13A
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; 9 units @ 230 V

7.3 Technical Data

Operator & Controller	
DMX channels	1/2/3/4CH
DMX modes	4
Protocol	USITT DMX512A RDM ANSI E1.20
Setting and addressing	OLED graphical display / 4 controls RDM ANSI E1.20
Standalone mode	Quick Light
Indicator	OLED graphical display
Controls	4 buttons
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)	285 x 310 x 235mm
Net Dimensions inches	11,2 x 12,2 x 9,3 inches
Net Weight	7,84 kg (17,3 lbs)
Installation	
Mounting point on fixture yoke	1x 1/4 turn Omega Bracket
Orientation	Any
Rigging possibilities	hanging with yoke or stacked using the KEY vertical mount
Safety features	2x eyelet for fixtures safety wire
Minimum distance from flammable materials	0,3 meters (11,8 inch)
Included / Optional	
Included items	2m power cable
Color options	Black – RAL 9004 (Standard)
Optional accessories	Magnetic filters 30°, 40°, 60° 8-way Barndoor KEY Vertical Mount

7.4 DMX-Charts

1 CH Mode		2 CH Mode		3 CH Mode		4 CH Mode / Default Mode	
1 CH MODE - 8bit							
Ch.	Function	Value	Setting	Default			
1	Dimmer	000-255	0 - 100%	0			
2 CH MODE							
Ch.	Function	Value	Setting	Default			
1	Dimmer	000-255	0 - 100%	0			
2	Shutter	000 - 019	Shutter close	20			
		020 - 024	Shutter open				
		025 - 064	Strobe 1 (fast ⊕ slow)				
		065 - 069	Shutter open				
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)				
		085 - 089	Shutter open				
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)				
		105 - 109	Shutter open				
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)				
		125 - 129	Shutter open				
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)				
		145 - 149	Shutter open				
		150 - 164	Strobe 6:random closing pulse (fast ⊕ slow)				
		165 - 169	Shutter open				
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)				
		185 - 189	Shutter open				
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)				
		205 - 209	Shutter open				
		210 - 224	Strobe 9:sine wave (fast ⊕ slow)				
		225 - 229	Shutter open				
		230 - 244	Strobe 10: burst (fast ⊕ slow)				
		245 - 255	Shutter open				
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)				
		145 - 149	Shutter open				
		150 - 164	Strobe 6:random closing pulse (fas ⊕ 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 CH MODE				
Ch.	Function	Value	Setting	Default
1	Dimmer	000-255	0 - 100%	0
2	Dimmer-fine	000-255	0 - 100%	20
3	Shutter	000 - 019	Shutter close	
		020 - 024	Shutter open	
		025 - 064	Strobe 1 (fast ⊕ slow)	
		065 - 069	Shutter open	
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)	
		085 - 089	Shutter open	
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)	
		105 - 109	Shutter open	
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)	
		125 - 129	Shutter open	
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)	
		145 - 149	Shutter open	
		150 - 164	Strobe 6:random closing pulse (fast ⊕ slow)	
		165 - 169	Shutter open	
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)	
		185 - 189	Shutter open	
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)	
		205 - 209	Shutter open	
		210 - 224	Strobe 9:sine wave (fast ⊕ slow)	
		225 - 229	Shutter open	
230 - 244	Strobe 10: burst (fast ⊕ slow)			
245 - 255	Shutter open			
4 CH MODE Default Mode				
Ch.	Function	Value	Setting	Default
1	Dimmer	000-255	0 - 100%	0
2	Dimmer Fine	000-255	0 - 100%	0
3	Shutter	000 - 019	Shutter close	20
		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)	

4 CH MODE Default Mode				
Ch.	Function	Value	Setting	Default
3	Shutter	145 - 149	Shutter open	20
		150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)	
		165 - 169	Shutter open	
		170 - 184	Strobe 7: burst pulse (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	Device Settings		according to device Settings	0

Device Settings				
Channel	Settings	DMX value	Function	remark
		000-005	No function	
		6	Display Backlight On (hold 3s)	
		7	Display Backlight Off (hold 3s)	
		8	Display Lock On (hold 3s)	
		9	Display Lock Off (hold 3s)	
		010-014	reserved / no function	
		15	DMX Fail - Blackout (hold 3s)	
		16	DMX Fail - Hold (hold 3s)	
		17	DMX Fail - Emergency Light (hold 3s)	
		018-022	reserved / no function	
		23	Linear Dimmer Curve (hold 3s)	
		24	Exponential Dimmer Curve (hold 3s)	
		25	Logarithmic Dimmer Curve (hold 3s)	
		26	S-Curve Dimmer Curve (hold 3s)	
		027-031	reserved / no function	
		32	Dimmer Response LED / fast (hold 3s)	
		33 reserved	reserved / no function	
		34	Dimmer Respononse Halogen / slow (hold 3s)	
		035-046	reserved / no function	
		47	LED Frequency 800Hz (hold 3s)	
		48	LED Frequency 1200Hz (hold 3s)	
		49	LED Frequency 2000Hz (hold 3s)	
		50	LED Frequency 3600Hz (hold 3s)	
		51	LED Frequency 12kHz (hold 3s)	

DMX CHART

Device Settings				
Channel	Settings	DMX value	Function	remark
		52	LED Frequency 25kHz (hold 3s)	
		053-057	reserved / no function	
		58	Fan Auto 1 (hold 3s)	
		59	reserved / no function	
		60	Fan Silent (hold 3s)	
		61	Fan Studio (hold 3s)	
		62	Fan Off (hold 3s)	
		63	Fan High Power (hold 3s)	
		064-248	reserved / no function	
		249	User Reset (hold 3s)	No Change of DMX Address and Mode! / Reset activates only if Shutter is set to DMX 250
		250	Factory Reset (hold 3s)	No Change of DMX Address and Mode! / Reset activates only if Shutter is set to DMX 250
		251 - 255 reserved	No Function	

7.5 RDM Templates*

The ROXX K36 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 KEY K36
Model:	KEY K36
Manufacturer:	ROXX
ID:	6A6Ah
Device ID:	0145 xxxx

***Note:** During RDM identifying process KEY K36 flashes white 100% to 50% alternately.

RDM functions

For easy identifying ROXX KEY K36 during RDM process the unit will jump from white 100% to 50% color every second.

PID	Function	Action	Values
0x0001	UID	Read	
0x1000	Identify Device	Set	
0x0030	Status Messages	Read	
0x0081	Manufacturer Label	Read	
0x0080	Device Model Description	Read	
0x0082	Device Label	Set	
0x00F0	DMX Start Address	Set	001-512
0x00E0	DMX Personality	Set	DMX modes
0x00E1	DMX Personality Description	Read	
0x0120	DMX Slots	Read	
0x0090	Factory Defaults	Set	
0x8048	Protocol	Set	1= DMX / 2= Slave
0x8013	Display Invert	Set	0= Off / 1= On
0x8012	Display Backlight	Set	0= Off / 1= On
0x0641	Display Lock	Set	0= Off / 1= On
0x0642	Display Lock Description		
0x0142	Startup Mode	Set	1= Hold / 2= DMX / 3= Quick Color
0x0141	DMX Fail	Set	1= Hold / 2= Blackout / 3= Emergency Light
0x8044	AC Fail	Set	1= Hold / 2= Blackout / 3= Emergency Light
0x0343	Dimmer Curve	Set	1= Linear / 2= Exponential / 3= Logarithmic / 4= S-Curve
0x0344	Dimmer Curve Description	Read	
0x0345	Dimmer Response	Set	1= LED / 2= Halogen
0x0346	Dimmer Response Description	Read	

PID	Function	Action	Values
0x0347	LED Frequency (PWM)	Set	1= 800Hz / 2= 1200Hz / 3= 2000Hz / 4= 3600Hz / 5= 12kHz / 6= 25kHz
0x0348	LED Frequency Description	Read	
0x8010	Fan Mode	Set	1= Auto 1 / 2= Auto 2 / 3= Silent / 4= Studio / 5= Fan Off / 6= Max. Power
0x1001	Device Reset (New Boot)	Set	0= No / 1= Yes
0x801E	Factory Reset	Set	0= No / 1= Yes
0x801F	User Reset	Set	0= No / 1= Yes
0x00D3	Serial Number	Read	
0x00C0	Boot Software Label	Read	
0x00C1	Boot Software ID	Read	
0x0400	Device Hours	Read	
0x0401	LED Hours	Read	
Sensor 1	LED Temperature	Read	
Sensor 2	Fan Speed	Read	

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.

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

