Q-Rainbow RGBX
Quick Start Guide
Linear LED

QUASAR SCIENCE

2000k-6000k Crossfade White Light
with RGB Color Mixing (RGBX)
Wireless by **lumen**radio
DMX over Cat5
Manual Interface with OLED Screen
Universal AC Power 90v-256v
DC Battery Option 10v-26v
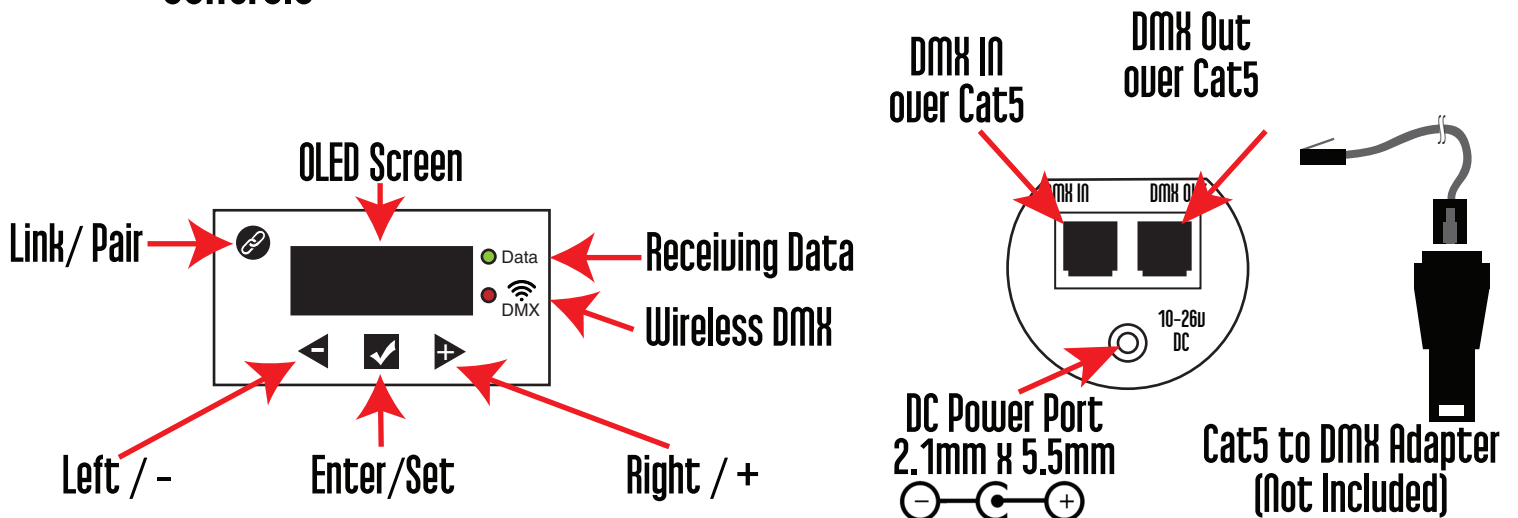Lead / Follow Mode
On Board Effects
Lengths: 2' 4' 8'

Download Full Manual at
QUASARSCIENCE.COM/RAINBOW

Rainbow Layout

DC Power Port

True 1 Power Connector

AC Power Switch

lumenradio
Wireless DMX
in every Rainbow

Data / DMX

OLED Screen
with Manual Controls

Controls

OLED Screen

Link / Pair

○ Data
● DMX

Receiving Data

Wireless DMX

◄   ✓   +

Left / –   **Enter/Set**   **Right / +**

DMX IN over Cat5

DMX Out over Cat5

DMX IN   DMX OUT

10-26v DC

DC Power Port
2.1mm x 5.5mm

⊖─●─⊕

Cat5 to DMX Adapter
(Not Included)

> Intensity <
100%

Intensity
> 100% <

Intensity
> 99% <

☑ To Set the Intensity, Color Temp, +/- Green, Saturation and Hue:

      Press the ◀ Left or ➕ Right arrows until desired function is selected.

      Press ☑ Enter to Select.

      The selection carrots > < will move from the >Function< to the >Value<

      Press the ◀ or ➕ buttons to set the value. Press ☑ Enter to Save.

🔗 To Link a Rainbow lamp to a transmitter,

      Go to Config->Wireless, Set to ON, Config->Status Lights to ON

      If the Wireless DMX is flashing, press and hold the 🔗 Link button to Unpair.

      On the DMX Transmitter, tap the Link button to Pair.

      The Wireless DMX Light will start to Flash and turn solid once paired.

Main Menu – Manual Mode

|	
> Intensity	0 to 100%
> Color Temp	2000k to 6000k by 100k increments
> CT Preset	3200-4000-5000-5600-6000-2000-2800
> Saturation	0 to 100%
> Hue	0° to 360°
> +/- Green	100M to 0G to 100G
> Color Preset	Blue-Cyan-Green-Red-Yellow-Orange-Magenta
> Effects	Rainbow-Short Circuit-Paparazzi-Fire1-Fire2-Fire3-Coplight1-Coplight2-Demo
> Config	DMX Address-DMX Profile-Lead/Follow/Wireless On/Off-StatusLights On/Off -FirmwareVersion-Lamp Hours-Reset to Default-BACK to Main Menu

Config Menu

> DMX Address	001 to 508 (Does not allow address to be outside of 512)
> Profile	1:HSIC-8 bit, 2:HSIC-16 bit, 3:HSI-8 bit, 4: XFade with CC-8 bit, 5: XFade-8 bit, -6: CCT & RGB-8 bit, 7: CCT & RGB-16 bit, 8: RGB-8 bit
> Lead /Follow	Lead-Follow1-Follow2-Follow3-Follow4-Follow5
> Wireless	On/Off - Disables the wireless transceiver
> Status Lights	On/Off - Turns off the status lights for use on camera
> Firmware	Displays the Firmware Version on the Lamp
> Lamp Hours	Displays the Hours the lamp has been powered on
> Reset to Default	Sets the lamp back to all its default values

Rainbow Layout
Status Lights

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🟢 Solid Green Light - Lamp is paired and receiving transmission.
   Slow Flashing Green Light - Wireless DMX is paired but transmitter not found.
   Fast Flashing Green Light - Wireless DMX is in pairing.
   No Green Light - Lamp is Unpaired or Wireless/Status Lights are turned off.

🔴 Solid Red Light - Data Received
   No Red Light - No Data Received or Wireless/Status Lights are turned off.
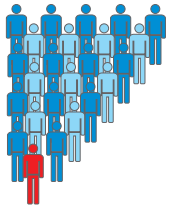
🔴 Data

🟢 DMX
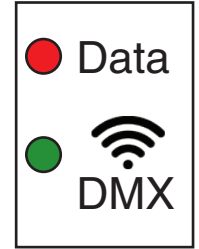
Manual Button Shortcuts

On parameter menus such as intensity, saturation, and hue, when pressing and holding the ➕ button to increase the value, tap the ➖ button will jump to the next value or max value. The opposite is true when decreasing.

Press and hold the Enter ✔ for 5 seonds to disable the status lights.

Press and hold ◀ ➕ for 3 seconds to Reset the Rainbow to Default settings.

Lead/Follow Mode

Lead/Follow Mode allows one Rainbow lamp to control many lamps at once. The Lead transmits DMX data wired or wirelessly to the followers. When the Lead changes levels, the follows will change as well. Applies to on board FX as well.
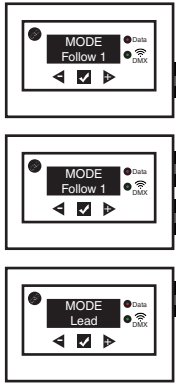
To Lead/Follow Mode, go to Config->Lead/Follow. Set the Leader to Lead and set all of the Followers to Follow 1 to match the leader. Follow 2-6 is used with effects to do the same effect with different timings.

To use wired, plug Cat5 cable into the Out of the Lead into the In of the Follow. Repeat out of the follow and into the next. The data light should be illuminated on all the followers

To use wirelessly, on the Follows, press and hold the Link button 🔗 to Unpair the lamp. Next tap the Link button 🔗 on the Lead. All of the follows Wireless signal light should begin flashing and then remain solid.

MODE
Follow 1
◀ ✔ ▶
●Data ●DMX

MODE
Follow 1
◀ ✔ ▶
●Data ●DMX

MODE
Lead
◀ ✔ ▶
●Data ●DMX

Effects

Effect	Result
Rainbow	Scroll through the Hue from 0° at full Saturation
Short Circuit	Lamp is on with random bursts of turning off
Paparazzi	Lamp is off with random flashes of turning on
Fire 1	A flicker effect with a low weighted center
Fire 2	A flicker effect with a middle weighted center
Fire 3	A flicker effect with a high weighted center
Cop Light 1	Solid Red and Blue alternating colors
Cop Light 2	3 Flashes Red, 3 Flashes Blue alternating colors
Demo	Scroll through the Hue from 0° at 0%, 25%, 50%, 75% and 100% Saturation at 2000k and 6000k

Manual Effect Controls

Effect	Result
Effect	Choose Effect
Rate	0-200% for the speed of the effect
	100% is normal speed
Maximum	Highest intensity level of effect
Minimum	Lowest intensity level of effect

Rainbow Layout

DMX Profiles

#	Name	8/16	# of Chan	Channels
1	HSIC	8 Bit	5	1:Intensity 2: Color Temp 3: +/- Green Control 4:Hue 5:Saturation
2	HSIC-16	16 Bit	7	1+2:Intensity 3: Color Temp 4: +/- Green Control 5+6:Hue 7:Saturation
3	HSI	8 Bit	3	1:Intensity 2: Hue 3:Saturation
4	XFade with +/-G	8 Bit	3	1:Intensity 2: Color Temp 3: +/- Green Control
5	XFade	8 Bit	2	1:Intensity 2: Color Temp
6	CCT & RGB	8 Bit	7	1:Intensity 2: Color Temp 3: +/- Green Control 4:Crossfade 5:Red 6:Green 7:Blue
7	CCT & RGB-16	16 Bit	9	1+2:Intensity 3: Color Temp 4: +/- Green Control 5+6:Crossfade 7:Red 8:Green 9:Blue
8	RGB	8 Bit	3	8: RGB – 8 bit – 3 Channels 1:Red 2:Green 3:Blue

Download Complete DMX Chart at QuasarScience.com/Rainbow

DMX Profiles (FX)

	Name	8/16	# of Chan	Channels
9	HSIC FX	8 Bit	8	1:Intensity 2: Color Temp 3: +/- Green Control 4:Hue 5:Saturation 6: FX 7:FX Rate 8:FX Size
10	HSIC-FX-16	16 Bit	10	1+2:Intensity 3: Color Temp 4: +/- Green Control 5+6:Hue 7:Saturation 8: FX 9:FX Rate 10:FX Size
11	CCT & RGB-FX	8 Bit	10	1:Intensity 2: Color Temp 3: +/- Green Control 4:Crossfade 5:Red 6:Green 7:Blue 8: FX 9:FX Rate 10:FX Size
12	CCT & RGB -16 FX	16 Bit	12	1+2:Intensity 3: Color Temp 4: +/- Green Control 5+6:Crossfade 7:Red 8:Green 9:Blue 10: FX 11:FX Rate 12:FX Size

DMX Parameters

Parameter	DMX Value	Value
Intensity	0-255	0-100%
Color Temp	0-255	2000k-6000k
+/- Green		See Chart at right
Crossfade	0-255	0-100%
Hue	0-255	0°-360°
Saturation	0-255	0-100%
Red	0-255	0-100%
Green	0-255	0-100%
Blue	0-255	0-100%

+/- Green

DMX Value	%	Effect
0-10	0-4	No Effect
11-20	5-8	Full Minus Green
21-119	8-46	-99% to -1%
120-145	47-57	No Effect
146-244	57-96	1% to 99%
245-255	96-100	Full Plus Green

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Rainbow Layout
DMX Effects Parameters

Effect	DMX Value	Percentage
OFF	0-20	0-8
Rainbow	21-30	9-12
Short Circuit	31-40	13-15
Paparazzi	41-50	16-20
Fire 1	51-60	21-23
Fire 2	61-70	24-27
Fire 3	71-80	28-31
Cop Light 1	81-90	32-35
Cop Light 2	91-100	36-39
Demo	101-110	40-43
No Effect	111-255	44-100

DMX Effect Controls

Effect	Result
Effect Rate	Choose Effect 0-200% for the speed of the effect 100% is standard
Size	-100 to 100%. It is the plus and minus variation of Intensity. Ex. Intensity 50% with Size of 10 will be an effect from 40% to 60%

Specifications:

	Q25R	Q50R	Q100R
Model:	Q25WRGBX	Q50WRGBX	Q100WRGBX
Wattage:	Max 25 watts	Max 50 watts	Max 100 watts
Weight:	1.65 lbs (0.75 kg)	2.53 lbs (1.15 kg)	4.40 lbs (2.0 kg)
Dimensions:	23.6 x 1.75 in (600 x 44.5 mm)	47.4 x 1.75 in (1200 x 44.5 mm)	94.5 x 1.75 in (2400 x 44.5 mm)
Power Consumption:	120v = 0.22 amp 240v = 0.11 amp	120v = 0.44 amp 240v = 0.22 amp	120v = 0.88 amp 240v = 0.44 amp
	12v = 1.90 amp 24v = 0.95 amp	12v = 3.80 amp 24v = 1.90 amp	12v = 7.60 amp 24v = 3.80 amp

STOP Please do not return your Rainbow to your retailer.
Please contact Quasar Science with any questions, problems or concerns.

This manual is current to software Firmware Version 0.90. Please check at QuasarScience.com/Rainbow to see if there are Firmware updates available with an updated downloadable Quick Start Guide.
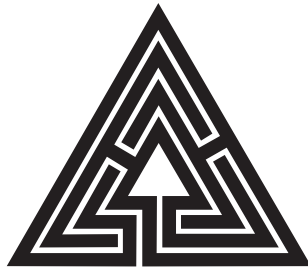
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