

# CITY THEATRICAL

NEW YORK • LONDON

## QolorPoint™ Battery Powered LED Uplighter User's Manual

Rev A.3



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QolorPoint battery powered LED uplighter is covered by U.S. Patent # 7,432,803 and other patents pending.

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## Contents

Disclaimer .....	2
Product Modification.....	3
Radio Compliance Information.....	3
5792M SHoW DMX Neo Radio CE Declaration of Conformity .....	4
System Compliance Information .....	6
Safety Notices .....	6
Introduction .....	7
QolorPoint Wireless Uplighter features .....	7
Product Contents .....	8
Charging.....	8
User Interface.....	9
Power.....	9
External Power (Optional Accessory).....	9
Function Modes.....	10
Cust Col Mode Operation .....	10
Static Mode Operation .....	11
DMX Mode Operation .....	12
Built-In Effects.....	13
SHoW DMX SHoW ID Settings.....	14
SHoW DMX ID LED.....	14
Additional Settings .....	15
Power Mode.....	15
Brightness Control .....	15
PWM Frequency Control .....	15
Keypad Lock .....	16
Mechanical .....	16
Locking.....	16
Dimensions .....	17
Warranty.....	18

## Disclaimer

City Theatrical Inc. believes the information in this manual is accurate and complete however assumes no responsibility for any error or omissions within this document or any other documentation accompanying the product. We reserve the right to revise this document at any time. Please see <http://www.citytheatrical.com> to download latest version.

## **Product Modification**

This City Theatrical product has been designed and manufactured to meet the strict requirements of U.S., EU and International safety regulations. Any unauthorized modifications to the product including replacement of parts with non-standard parts could compromise safety and result in the product being non-compliant with relevant standards.

**There are no user serviceable parts within this product.**

## **Radio Compliance Information**

### **5792M SHoW DMX Neo® Radio Module**

**FCC ID: VU65792M**

**IC: 7480A-5792M**

### **FCC Part 15**

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.

## **Radio Frequency Notifications**

### **FCC Notifications**

#### **RF Radiation**

The Product is an intentional radiator of Radio Frequency (RF) energy. In order to limit RF exposure to personnel in the immediate area, the Product should be located and installed such that a separation of at least 8" (20 cm) is maintained between the Product's antenna and personnel in the vicinity of the device.

### **Modification Warning**

Caution: changes or modifications to this equipment, not expressly approved by City Theatrical Inc. could void the user's authority to operate the equipment.

### **Industry Canada Notifications**

This Class B digital apparatus complies with Canadian ICES-003. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Product Installation and Configuration Guide © City Theatrical Inc. 2007

## **CE Mark Conformity**

City Theatrical Inc. declares that this product conforms to the specifications listed in this manual, following the provisions of the European R&TTE directive 1999/5/EC:

City Theatrical Inc. vakuuttaa täten että dieses produkt tyypinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien näiden direktiivien muiden ehtojen mukainen.

City Theatrical Inc. déclare que le produit est conforme aux conditions essentielles et aux dispositions relatives à la directive 1999/5/EC.

- EN 301 489-1, 301 489-17 General EMC requirements for Radio equipment.
- EN 60950 Safety
- EN 300 328 Technical requirements for Radio equipment.

*CAUTION—this equipment is intended to be used in all EU and EFTA countries.*

*Outdoor use may be restricted to certain frequencies and/or may require a license for operation. Contact local Authority for procedure to follow.*

Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Product Installation and Configuration Guide © City Theatrical, Inc. 2015

### **Q52 Regulatory information**

#### *Radio Frequency Notifications*

**Belgique** Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

**France** 2.4 GHz Bande : les canaux 10, 11, 12, 13 (2457, 2462, 2467, et 2472 MHz respectivement) sont complètement libres d'utilisation en France (en utilisation intérieur). Pour ce qui est des autres canaux, ils peuvent être soumis à autorisation selon le département. L'utilisation en extérieur est soumis à autorisation préalable et très restreint. Vous pouvez contacter l'Autorité de Régulation des Télécommunications (<http://www.art-telecom.fr>) pour de plus amples renseignements.

# **CITY THEATRICAL**

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## **EC Certificate of Conformity**

### **Products covered by this Certificate**

SHoW DMX Neo®

#### **5792M Radio Module**

This equipment complies with the requirements of the R&TTE Directive 1999/5/EC

### **Standards Applied:**

#### **ETSI EN 300 328 V1.8.1 (2012-06)**

We have carried out all of the essential radio test suites according to the Standard EN 300 328 V1.8.1 harmonized under Article 3.2 of the R&TTE Council Directive 1999/5/EC. We have found that the model: 5792M complies with the requirements of the above-mentioned Standard.

#### **EN 301-489-1 V1.9.2 (2011-09)**

#### **EN 301 489-17 V2.2.1 (2012-09)**

We have carried out all of the required tests according to the Standards: ETSI EN 301 489-1 V1.9.2 and ETSI EN 301 489-17 V2.2.1 harmonized under Article 3.1(b) of the R&TTE Council Directive 1999/5/EC and Articles 4(a), 4(b) of the EMC Directive 2004/108/EC. We have found that the model 5792M complies with the requirements of the above-mentioned Standards.

Date of Issue: January 1, 2015

Year CE Marking First Affixed: 2015

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Paul Kleissler, Head of Engineering

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## System Compliance Information



The 7000 QolorPoint Battery Powered LED Uplighter is CE Certified

City Theatrical Incorporated declares that this product conforms to the specifications listed in this manual, following the provisions of the European R&TTE directive 1999/5/EC:

Restrictions on Hazardous Substances (RoHS) (2002/95/CE)

Electromagnetic Compatibility (2004/108/EC).

Safety (EN 60950)

Technical requirements for radio equipment. (EN 300 328)

*CAUTION—This equipment is intended to be used in all EU and EFTA countries.*

*Outdoor use may be restricted to certain frequencies and/or may require a license for operation. Contact local Authority for procedure to follow.*

## WEEE & RoHS Statement



The European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), requires that products must not be disposed of the normal unsorted municipal waste stream. Appliances must be collected separately in order to optimize the recovery and recycling of the materials they contain and reduce the impact on human health and the environment.

The consumer must contact their local authority or retailer for information concerning disposal of their products.

City Theatrical provides a take-back facility for batteries used within City Theatrical products, although the expense for transport remains the liability of the consumer. Please contact City Theatrical directly if this service is required.

## Safety Notices

Please read this entire manual before using your new equipment. Please keep the manual in a safe place so you can refer to it in the future as required.

The QolorPoint battery powered LED uplighter is intended for use only by qualified professionals. Connection, installation and hanging of this equipment must be performed in accordance with all pertinent local, regional and national safety codes and regulations.

Be sure installation provides adequate ventilation. Some system components can produce significant heat and must be properly installed to allow proper cooling and assure user safety. All sides of the equipment must be clear of obstruction and allow free airflow.

There are no user-serviceable parts inside! Refer to qualified service personnel!

**RF Exposure:** The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 8" (20cm) from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

- AVOID direct eye exposure to the light source when illuminated
- DO NOT submerge this product in water
- DO NOT hang this product other than by the means indicated in this manual
- DO NOT leave any flammable material near product while operating or charging
- ALWAYS use the supplied charger or charging case
- ALWAYS ensure the charger is connected to the specified voltage
- ALWAYS ensure the charging case lid is open whilst plugged into mains supply
- NEVER connect this product or charger to a dimmer pack
- DO NOT operate this fixture if it appears damaged in any way
- DO NOT operate this fixture where the ambient temperature exceeds 115°F (45°C )

In the unlikely event that your product develops a fault, please contact your local dealer or authorized distributor. Do not attempt to repair yourself unless specifically instructed by City Theatrical Inc.

**Note: Restrictions apply to transporting this equipment on aircraft due to the lithium polymer batteries having capacity greater than 100Wh. Please consult IATA Packing Instructions 967 and City Theatrical Inc. for further information.**

## Introduction

The City Theatrical QolorPoint fixture is a battery-powered wireless uplighter capable of providing portable and instant architectural and feature lighting anywhere. With high-powered red, green, blue and white LEDs the fixture is capable of producing any color or shade of white using combinations of those LEDs. Ideal for illuminating buildings in color, both indoors and outdoors, the fixture is powerful enough to light buildings of 3 or 4 stories. Lighting effects may be created in three ways:

- By using the built in static colors or stand alone routines in each QolorPoint fixture
- By designating one fixture as a Master and using its built in SHoW DMX Max wireless DMX Transceiver to broadcast to a group of QolorPoint fixtures set in Slave Mode.
- By broadcasting to a group of QolorPoint fixtures by using an external lighting console and a SHoW DMX Neo wireless DMX Transceiver.

## QolorPoint Wireless Uplighter features

- Very Fast setup and break-down
- IP65 Outdoor rated
- Will light three stories using four high brightness LED quad chips including white- 2000 lumen output
- Even color mixing and easy white pastel shades using four color Cree LEDs (RGB+W)
- Recharge under four hours using Li-Ion Battery
- Built-in SHoW DMX Neo Transceiver with Max Technology
- Available six way charging flight case (only 50Kg, 110 lbs.)
- Battery life exceeding 10 hours on maximum output dual color or cycle
- Cylindrical shape with removable stainless shroud
- Variable PWM for TV and Video applications
- Head tilts up to 45 degrees both directions
- Lightweight- 10lbs. per unit
- High powered 2000 lumen RGBW LEDs equivalent to 5300 Lux @ 6.5ft (2m)
- LEE Filter Color Library (70 choices) or separate RGBW control. Plus built-in color programs.
- SHoW DMX wireless Master + Slave control (2.4GHz SHoW DMX Neo with Max Technology from City Theatrical)

- Cable DMX output of full universe— unit acts as a SHoW DMX Max receiver to cable DMX converter
- Four or five Channel DMX operation
- Intuitive LCD menu
- Operating temperature range -4°F to 113°F (-20°C to +45°C)

**Product Contents**

**Charging case of six units**

- 6x QolorPoint Wireless LED fixtures
- 6x Stainless steel shroud
- 1x Charging case
- 1x Powercon Cable
- 1x Quickstart guide



**(Shroud Silver)**



**(Shroud Removed)**



**(User Interface)**

SHoW DMX button and LED indicator

Charging Status LED

Power On/Off

Battery charge indicator

**Charging**

The battery charger may be included as an accessory for individually purchased fixtures or built into the flight case for multiple charging fixtures. In each case the supply has an input voltage range of 100-240 VAC at 50/60Hz.

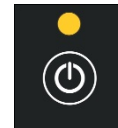


Ensure the product is used only with correct voltage and frequency of mains supply.

Never connect the charger or charging case to a dimmer circuit, even when a dimmer has been configured for 'non-dim' or 'switched' operation.

- **Turn the unit OFF** before connecting to the charger
- Never close the lid during charging; this allows escape of heat
- Only use the supplied charger or charging case
- External chargers should be plugged into the six pin connector on the front of the unit
- For best results recharge battery fully before storage
- Switch off the charger unit and unplug once fully charged
- While charging the LED indicator will illuminate in AMBER
- Once fully charged the LED indicator will show GREEN

**DO NOT use any charger other than the unit supplied with the QolorPoint.**



**Charging**



**Charged**

**When using a charging flight case, ensure the unit is pushed fully down on the charging connector and the protruding screws are located in their positioning holes. Rotate the fixture slightly until it drops into these positioning holes. The charge light on top of the unit should illuminate to signify this has been done.**

## User Interface



**Power**

- Push and hold this power button for >1 second to switch the unit ON or OFF
- The display will show "CTI" and the software version for a few seconds before starting
- The display backlight will turn off after a short time to reduce power use

This six button pad is the main control interface for the QolorPoint Wireless Uplighter. The button functions are SET SHOW ID, FUNCTION, DOWN, UP, ENTER, and POWER.



### External Power (Optional Accessory)






An optional QolorPoint AC power supply adapter CAT# 7024 is available as an accessory to drive the QolorPoint from mains voltage 100-250VAC 50/60Hz.

- Connect this to the charging/power port in the front of the unit.
- The device supplies 24VDC to the QolorPoint which replaces battery power.
- Battery is disconnected while the Power Supply is plugged in so will not be charged or discharge.

## Function Modes

There are four modes of Operation, accessed through the **FUNCTION** menu;

<b>Custom Color</b>	This mode allows the fixture to output a static Red, Green, Blue or White color, or any combination thereof; each color may be set to any value 0 to 255. Any SHoW DMX signal, if present, is ignored.
<b>Static</b>	In this mode the fixture outputs a static LEE or preset 'cc' color as selected. The selection is remembered if the unit is switched off then back on or put into another mode. Any SHoW DMX signal, if present, is ignored.
<b>DMX</b>	In this mode the fixture is under control of SHoW DMX so may be controlled by a SHoW DMX compatible device or DMX compatible device with a SHoW DMX transmitter attached. The options available within DMX mode are described in more detail below.
<b>Effects</b>	In this mode the fixture generates a number of special effects. The speed of effect types can be adjusted from 1 to 10.


To change Function press . Use the  buttons to select "CHANGE Function" and press  to accept. Then use the  buttons to select the required function as above and press . The four modes of operation are discussed in more detail below.


All of these adjust the brightness settings for each color.

### Custom Color Mode Operation

#### Custom Colors

When in Custom Color mode, the display indicates the current selected color

Simply press  to step through the colors or accept a color value.

Use  keys to change the value.

Value range 0 to 255.

Tip: Mix red & blue for purple/pink

Tip: Mix red & green for orange/yellow




Tip: Mix red & green with White for warm shades of white.

## Static Mode Operation





### Static operation

When in STATIC mode the display indicates the current selected color.

To change the current selected color press .

The last character of the currently selected color is underlined.

Use the   keys to select a color from the built-in library of 70 pre-programmed colors, including 60 popular LEE Filter Colors

The color changes when cycling through the available options. The selected color is only saved when <ENTER> is pressed. If <ENTER> is not pressed, the color reverts to the previously selected color after 8 seconds.

### Available colors

<b>cc001</b>	White	<b>Lee075</b>	Evening Blue	<b>Lee157</b>	Pink
<b>cc002</b>	Half Flesh Tone	<b>Lee089</b>	Moss Green	<b>Lee159</b>	No Color Straw
<b>cc003</b>	Full Flesh Tone	<b>Lee100</b>	Spring Yellow	<b>Lee162</b>	Bastard Amber
<b>cc004</b>	Half Mint Green	<b>Lee101</b>	Yellow	<b>Lee170</b>	Deep Lavender
<b>cc005</b>	Mint Green	<b>Lee102</b>	Light Amber	<b>Lee174</b>	Dark Steel Blue
<b>cc006</b>	Half Ice Blue	<b>Lee103</b>	Straw	<b>Lee181</b>	Congo Blue
<b>cc007</b>	Full Ice Blue	<b>Lee104</b>	Deep Amber	<b>Lee192</b>	Flesh Pink
<b>cc008</b>	Soft Red	<b>Lee106</b>	Primary Red	<b>Lee199</b>	Regal Blue
<b>cc009</b>	Soft Green	<b>Lee107</b>	Light Rose	<b>Lee323</b>	Jade
<b>cc010</b>	Soft Blue	<b>Lee108</b>	English Rose	<b>Lee341</b>	Plum
		<b>Lee113</b>	Magenta	<b>Lee345</b>	Fuchsia
<b>Lee002</b>	Rose Pink	<b>Lee115</b>	Peacock Blue	<b>Lee353</b>	Lighter Blue
<b>Lee009</b>	Pale Amber Gold	<b>Lee117</b>	Steel Blue	<b>Lee652</b>	Urban Sodium
<b>Lee010</b>	Medium Yellow	<b>Lee118</b>	Light Blue	<b>Lee722</b>	Bray Blue
<b>Lee013</b>	Straw Tint	<b>Lee119</b>	Dark Blue	<b>Lee724</b>	Ocean Blue
<b>Lee015</b>	Deep Straw	<b>Lee121</b>	Lee Green	<b>Lee738</b>	Jazz Green
<b>Lee017</b>	Surprise Peach	<b>Lee126</b>	Mauve	<b>Lee765</b>	Lee Yellow
<b>Lee019</b>	Fire	<b>Lee127</b>	Smoky Pink	<b>Lee776</b>	Nectarine
<b>Lee020</b>	Medium Amber	<b>Lee135</b>	Deep Amber Gold	<b>Lee777</b>	Rust

<b>Lee024</b>	Scarlet	<b>Lee136</b>	Pale Lavender	<b>Lee779</b>	Bastard Pink
<b>Lee026</b>	Bright Red	<b>Lee138</b>	Pale Green	<b>Lee789</b>	Blood Red
<b>Lee046</b>	Dark Magenta	<b>Lee139</b>	Primary Green	<b>Lee793</b>	Vanity Fair
<b>Lee058</b>	Lavender	<b>Lee147</b>	Apricot	<b>Lee795</b>	Magical Magenta
<b>Lee068</b>	Sky Blue	<b>Lee153</b>	Pale Salmon		

## DMX Mode Operation



### DMX Operation

City Theatrical QolorPoint is equipped with a SHoW DMX Neo wireless radio transmitter and receiver. This allows the fixture color to be set up by or synchronized with sequences produced by a DMX lighting controller or other QolorPoint unit when in Receive, or SLAVE mode.



Alternatively when in MASTER mode the unit can be linked to many Slave units which will then duplicate everything output from the Master.

If not using a QolorPoint as a Master unit then a compatible SHoW DMX transmitter attached to a DMX controller is necessary, available separately.

When the 'Function DMX' screen is shown, after a few seconds the screen automatically reverts to the last mode used, either Master or Slave. By pressing the  button the 'DMX Type' screen is shown, which allows the user to select the opposite mode using  button.



### DMX Master Operation

Once Master mode is set, the Master may transmit to any number of slaves by selecting a matching SHoW ID using the SHoW DMX ID button.



### DMX Slave Operation

When in DMX Slave mode the display will show the current active DMX Start Address so the unit can be controlled from elsewhere.



The number of channels occupied is dependent on the **"DMX MODE"** setting (4 or 5 channels may be used by the fixture).

In this mode the entire universe is output on a side connector pin, for which a connector cable is available from City Theatrical Inc. for connection to other non-wireless fixtures.




## DMX Mode

The QolorPoint has 2 modes of operation.

From the **“CHANGE Settings”** menu select the **“5<sup>th</sup> DMX CHANNEL”** option as follows:

Mode	Chan	Function	Notes
<b>5<sup>th</sup> CHAN Off</b>	1	Red	This mode disables master dimmer. Each of the color values may be set from 0 to 255.
	2	Green	
	3	Blue	
	4	White	
<b>5<sup>th</sup> CHAN M. Fader</b>	1	Red	This mode enables the fixture's overall color, set on channels 1 to 4, to be dimmed. Values are 0 to 255, where 255 represents 100% output.
	2	Green	
	3	Blue	
	4	White	
	5	Dimmer (0-100%)	



## DMX Start Address


To set the DMX start address press  button when the display shows the current address. Use the  buttons to select the new start address then  to confirm.

## Built-In Effects

The QolorPoint is now equipped to generate a number of special effects as a stand-alone unit when DMX is placed in Slave Mode or will output these to a number of connected slave units when DMX is in Master Mode.

By pressing the  button the last used effect type is brought up, which can then be changed using the  buttons.

By pressing the  button to confirm the effect type, the speed can be adjusted from a range 1 to 10 using the  buttons.

When confirmed with the  button the screen reverts to show the effect and speed.

FUNCTION  
EFFECT

TYPE:  
R'ROW 1

EFFECT  
R'ROW 10

SPEED:  
01

## SHoW DMX SHoW ID Settings

The QolorPoint uplighter uses the 5792M SHoW DMX Neo with Max Technology Radio Module. It is permanently configured with six SHoW ID options for Adaptive Spread Spectrum Frequency Hopping and Neo Low Latency broadcast mode. The SHoW ID can be changed by pressing the SHoW DMX ID button on the control panel of the QolorPoint uplighter.

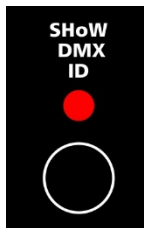
Color	SHoW ID	Description
Green	201	Neo Adaptive
Cyan	102	Neo Full Bandwidth
Magenta	117	Neo Low Limited Bandwidth
White	133	Neo Mid Limited Bandwidth
Red	149	Neo High Limited Bandwidth
Yellow	165	MAX Technology™

For QolorPoint Slave units to communicate with Master QolorPoint units or a lighting control desk, equipped with a SHoW DMX transmitter connected to its DMX output, the SHoW ID LED color has to be the same.

This allows a group of QolorPoint fixtures to be controlled from the lighting desk or Master unit using the built-in color cycles or set up individually selected colors across many units at once from just one Master unit.

### SHoW DMX ID LED

The SHoW DMX LED color signifies the SHoW ID it is set to and indicates presence of DMX data.



### Description for operation in Slave mode:

If the LED is FLASHING, the QolorPoint is not receiving DMX from a SHoW DMX transmitter.

If the LED is STEADILY ILLUMINATED the QolorPoint is connected with, and receiving DMX from a SHoW DMX transmitter. This is a fully connected and fully functioning system.

### Configuring with SHoW DMX Transmitter unit or QolorPoint Master unit

- Switch on the QolorPoint
- Set one unit to Master Mode and other units to Slave Mode
- Set the SHoW IDs on both Slave and Master to the same ID.
- Units will automatically connect when set to the same ID

For successful connection the receiver must fulfill the following conditions:

Distance to transmitter (outdoors, and depending on conditions)

- Less than 1,500ft. for SHoW Baby or SHoW DMX Neo Transceiver

Distance between Master unit and Slave unit

- Less than 300ft

Position above obstacles (e.g. crowds and trees)

- Minimum 3ft

SHoW ID configuration between Slave and Master is remembered after power off or the battery is depleted.

This allows the system configuration to be set up in a warehouse and the whole system simply switched on at the site, which makes deployment very simple.

## Additional Settings

A number of additional settings may be accessed within the menu system:

### Power Mode

Under the “**CHANGE Settings**” menu QolorPoint has two power modes that can be selected:

**Power LongLife**      50% Power



**Power Normal**      Full Power

The “Normal” option provides maximum light output at the cost of reduced battery life.

“LongLife” reduces the LED output by 50%, therefore enables 2 x running period for ALL FUNCTIONS, whether stand-alone or DMX.

To change the power mode press  and use the  buttons to select “**CHANGE Settings**” then press .




Use the  buttons to select “**POWER MODE**” and press  to select.

Use  buttons to toggle between “Norm” and “LongLife” then press  to save changes. This setting affects all Static, Custom Color and DMX modes so that the battery life of each unit can be individually set, irrespective of what’s controlling it.



### Brightness Control

Under the “**CHANGE Settings**” menu QolorPoint has a separate brightness control that can control the output of the unit in stand-alone mode:

The value may be changed from 0 to 100% in 1% increments:

Press  and use the  buttons to select “**CHANGE Settings**” then press  to accept.



Use the  buttons to select “**BRIGHTNS CONTROL**” and press  to select.


Use  buttons to toggle between “0%” and “100%” then press  to save changes. This setting adjusts Static and Custom Color modes only. DMX mode remains unchanged as the unit remains under external control.

### PWM Frequency Control

For HD TV work QolorPoint is equipped with an option to adjust the PWM frequency of the LEDs to prevent ‘beating’ with the TV scan frequency.


To enable soft dimming press  and use the  buttons to select “**CHANGE Settings**” then press  to select.


Then use the  buttons to select “**PWM Freq**” and press  to select from value 488Hz to 3.9kHz.

Press  to save changes and the screen will revert to showing the 'Function' mode.

### **Keypad Lock**

The keypad may be locked to prevent tampering or inadvertent adjustment of the unit.

To Lock: Hold down the  while switching ON the unit to Lock.

To Unlock: First switch OFF the unit. Hold down the  while switching ON the unit to Unlock.

### **Mechanical**

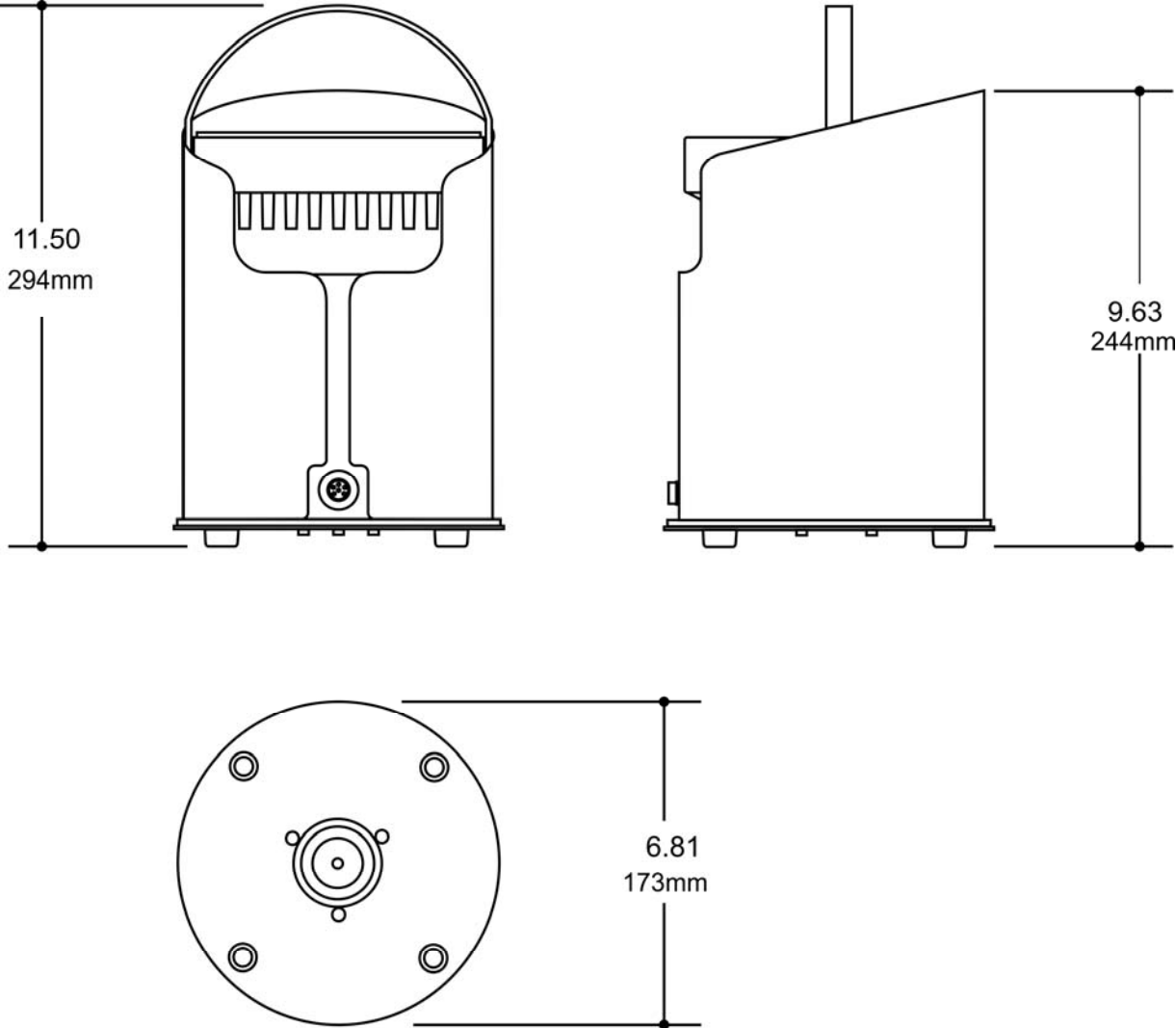
#### **Locking**

The unit may be locked to a nearby object by passing a locking wire or padlock through the locking holes in the top or bottom plates.

A Kensington Lock point is also provided on the bridle assembly holding the head in place.



Dimensions



## Warranty

City Theatrical Incorporated (City Theatrical) warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below).

City Theatrical will repair or replace (at City Theatrical's option) this product or any defective parts in this product. The standard warranty period is 12 months from date of purchase, although this period may vary from country to country. If in doubt consult your dealer and ensure that you retain proof of purchase.

To obtain warranty service, please contact the City Theatrical authorized dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your City Theatrical product, it can be returned directly to City Theatrical, with carriage being paid at your own expense. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection. Providing the product is found to be faulty, City Theatrical will pay for return carriage.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This Warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a City Theatrical authorized dealer.

This Warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than City Theatrical or a City Theatrical dealer, or authorized service agent which is authorized to do City Theatrical warranty work. Any unauthorized repairs will void this Warranty. This Warranty does not cover products sold AS IS or WITH ALL FAULTS.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER. CITY THEATRICAL SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY IN THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

For any service, in or out of warranty, please contact your dealer.