Bullet Series 2.0 LED Luminaire
QUICK START GUIDE

PRGRH+A

This document provides installation and setup procedures for the PRG Bullet Series 2.0 LED Luminaire.

For complete operating instructions, refer to the Bullet Series 2.0 LED Luminaire User Manual available at www.prg.com

For technical assistance, contact PRG RH+A.

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1. IMPORTANT SAFETY INSTRUCTIONS

+ Keep these instructions.
+ Heed all warnings.
+ Follow all instructions.
+ Do not block any of the fixture's ventilation openings.
+ Do not operate at temperatures above 40°C (104°F).
+ Do not install the fixture near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
+ Do not install the fixture on or near a flammable surface.
+ Do not operate the fixture with a damaged power lead. If the power lead (cordset) is damaged, it must be replaced.
+ Do not operate the fixture if lens is deeply scratched or cracked. Damaged lenses must be replaced.
+ Mount and support the fixture only by the primary suspension holes in the yoke.
+ Suspend the fixture from a suitable structure using only hardware rated for the weight of the fixture.
+ In addition to primary suspension, attach a safety cable to the fixture housing. An appropriate attachment point (hole) is provided in the fixture's housing.
+ Disconnect the fixture from power and DMX control and allow to cool before performing any cleaning or maintenance.

⚠ **WARNING:** The UV Bullet has a peak output of 365nm, which is in the Ultraviolet A (UVA) range. Ultraviolet (UV) light is harmful to the skin and eyes. Since it is minimally visible to the naked eye, this hazard is more significant. DO NOT stare directly into the lens when testing or operating the unit. Avoid long-term exposure to the UV light at close range unless appropriate precautions are taken to block the harmful wavelengths.

2. OVERVIEW

Major Components and Controls

The following illustration shows the components and controls of a Single Head Bullet Luminaire. (These components are also typical of a Triple Head Bullet Luminaire.)
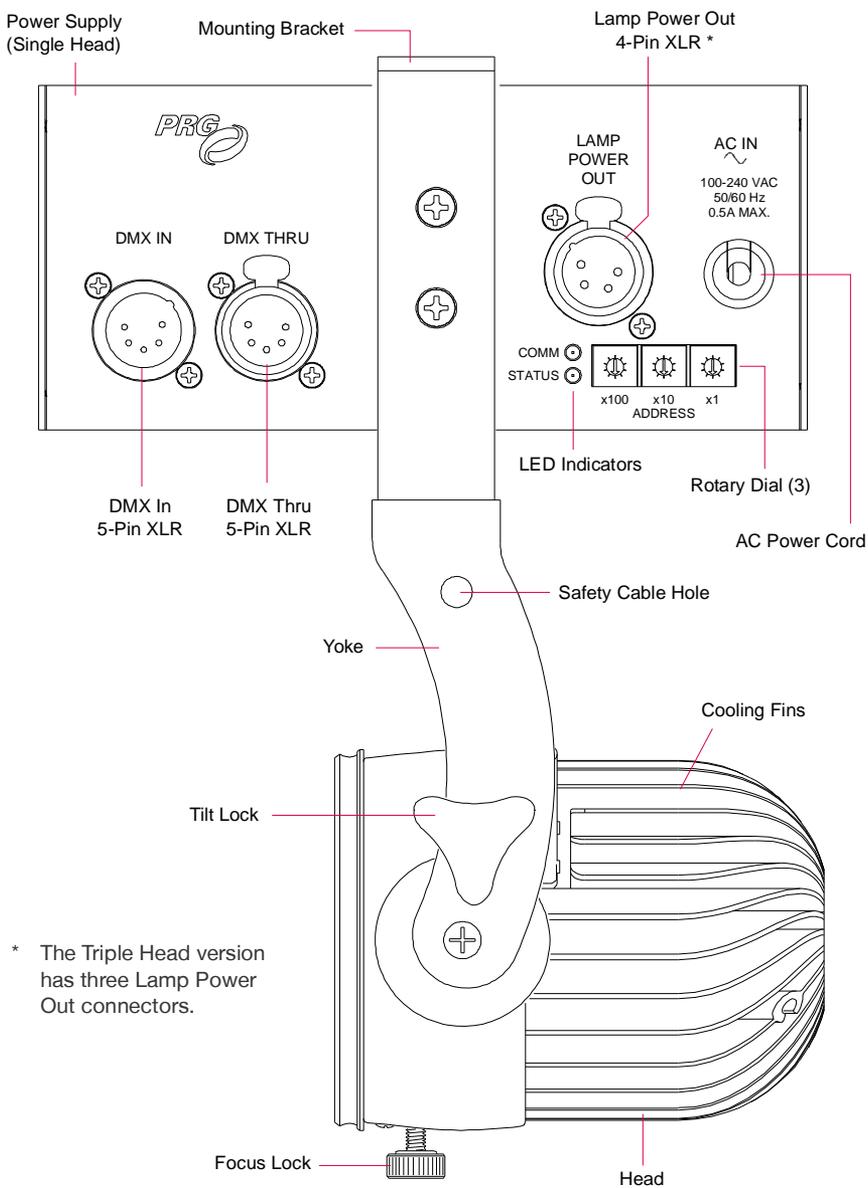
Power Supply (Single Head)

Mounting Bracket

Lamp Power Out 4-Pin XLR *

LAMP POWER OUT

AC IN
100-240 VAC
50/60 Hz
0.5A MAX.

DMX IN

DMX THRU

COMM
STATUS

x100   x10   x1
ADDRESS

DMX In 5-Pin XLR

DMX Thru 5-Pin XLR

LED Indicators

Rotary Dial (3)

AC Power Cord

Safety Cable Hole

Yoke

Cooling Fins

Tilt Lock

*   The Triple Head version has three Lamp Power Out connectors.

Focus Lock

Head

Figure 1: Bullet External Components and Controls

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3. INSTALLATION

Unified Mounting

1) Attach pipe clamp or surface mounting device to large hole in Mounting Bracket. (The hole is 1/2 inch in diameter and will accommodate a maximum bolt size of 1/2 inch.)

2) Mount Luminaire and Power Supply to pipe or surface using clamp or mounting device (attached in previous step). Adjust Yoke and Head positions as desired. *CAUTION: Be sure cooling fins are not blocked!*

3) Attach Safety Cable as shown in **Figure 2**.

⚠️ **WARNING:** A Safety Cable MUST be used for all hanging installations and may be required by local codes.

Clamp

Note: Clamp and Pipe not included.

Mounting Bracket

Pipe

Safety Cable

Single Head Power Supply

AC Power Cord

Head Cable

Head

Yoke

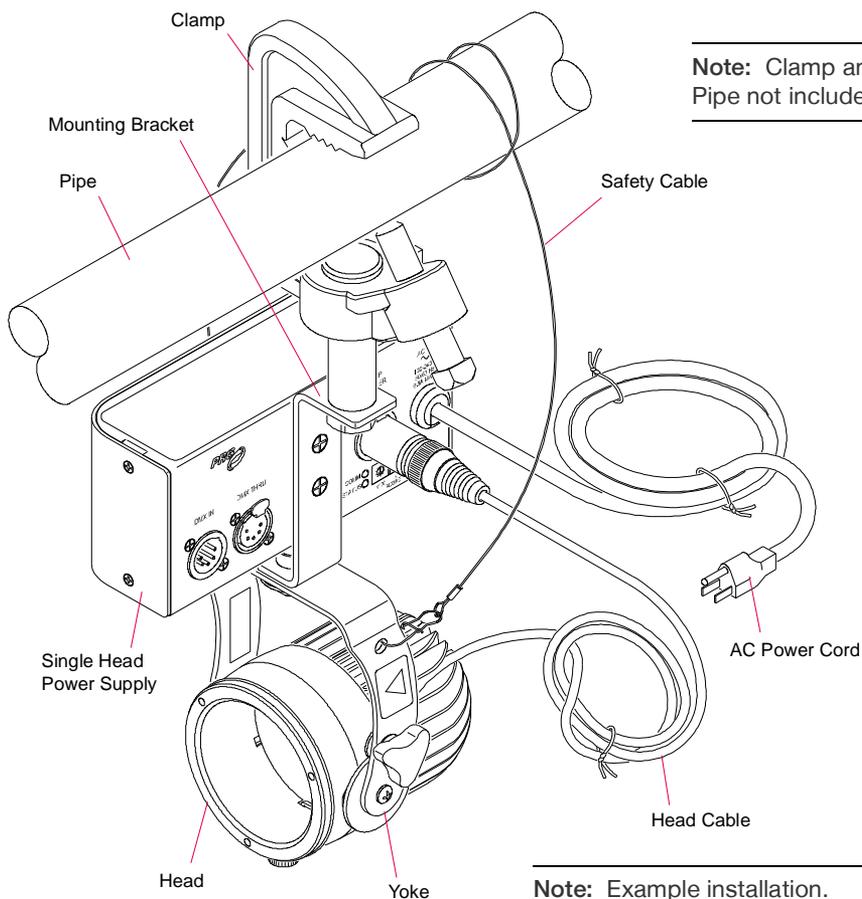**Note:** Example installation. Individual configurations may vary
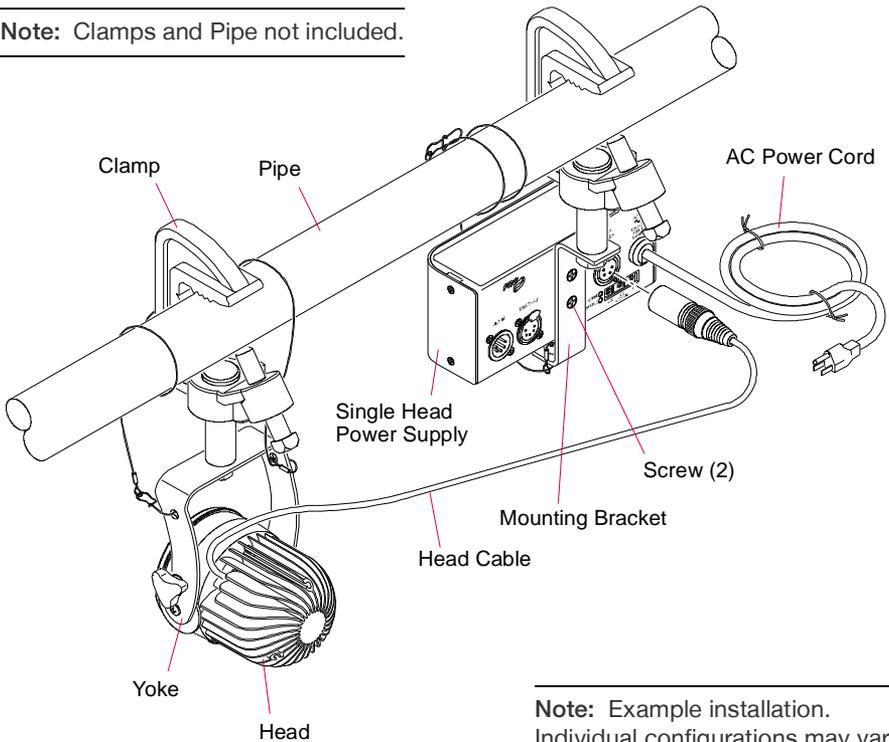
Figure 2: Unified Mounting Example

Split Mounting

1) Detach Head from Mounting Bracket by removing bolt. Unwrap or otherwise free Head Cable.

2) Attach pipe clamp or surface mounting device to large hole in Luminaire Yoke. (The hole is 0.4 inch in diameter and will accommodate a maximum bolt size of 3/8 inch.)

3) Mount Luminaire to pipe or surface using clamp or mounting device (attached in previous step). Adjust Yoke and Head positions as desired. *CAUTION: Be sure cooling fins are not blocked!*

4) Attach pipe clamp or surface mounting device to large hole in Mounting Bracket. (The hole is 1/2 inch in diameter and will accommodate a maximum bolt size of 1/2 inch.)

5) Mount Power Supply to pipe or surface using clamp or mounting device (attached in previous step).

6) Attach Safety Cable to both components as shown in **Figure 3**.

⚠ **WARNING:** A Safety Cable MUST be used for all hanging installations and may be required by local codes.

Note: Clamps and Pipe not included.

Clamp

Pipe

AC Power Cord

Single Head Power Supply

Screw (2)

Mounting Bracket

Head Cable

Yoke

Head

Note: Example installation. Individual configurations may vary

Figure 3: Split Mounting Example

Triple Head Mounting

The mounting procedures for the Triple Head Bullet Luminaire are similar to the Single Head mounting procedures detailed previously. The following illustration shows example Triple Head unified configurations:

Note: Clamp and Pipe not included.

Note: Safety Cable not shown.

Clamp

Triple Head Power Supply

Pipe

AC Power Cord

Head (3)

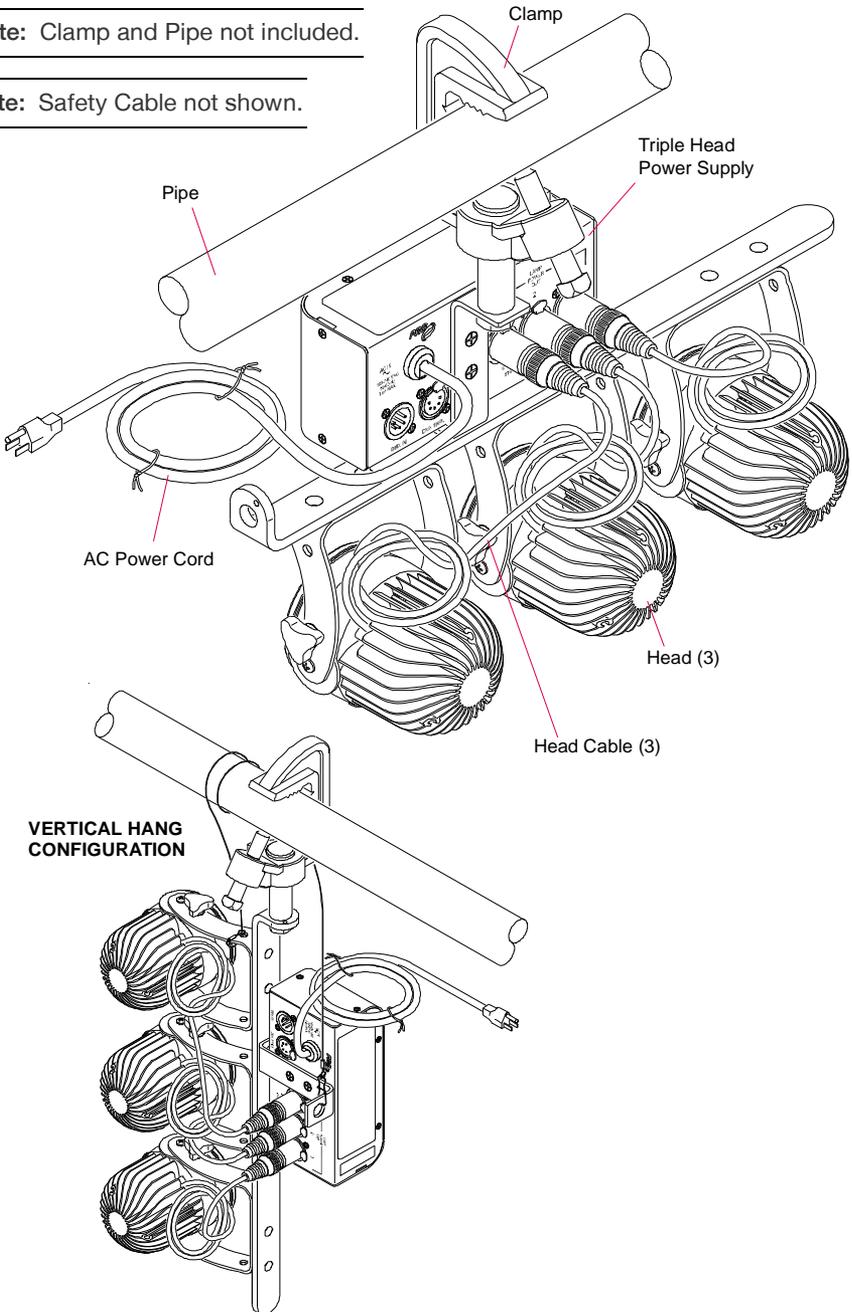Head Cable (3)

VERTICAL HANG CONFIGURATION

Figure 4: Triple Head Mounting Examples

Connecting Head Cables (Lamp Power)

Once the luminaire has been mounted, the Head Cable should be connected to the Lamp Power Out connector on the Power Supply.

+ In a unified configuration, the Head Cable should be plugged straight into the Power Supply.

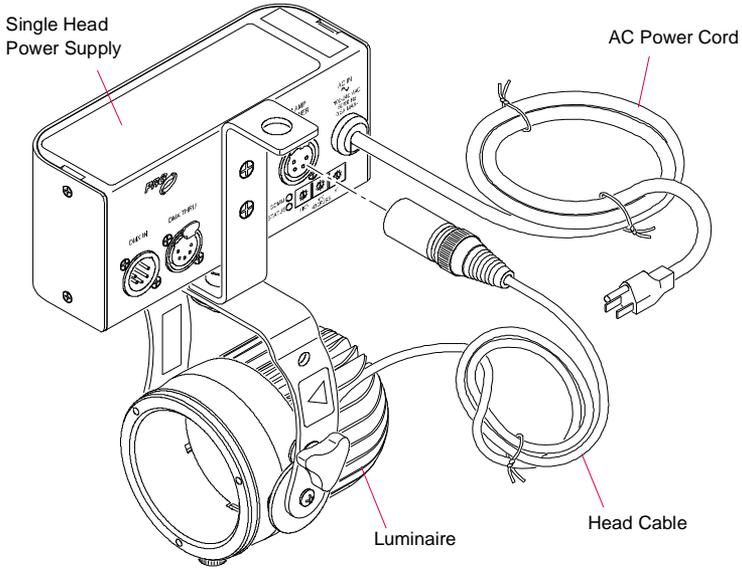+ In a split configuration, a 4-Pin XLR Extension Cable may be required.

Single Head Power Supply

AC Power Cord

Luminaire

Head Cable

Figure 5: Connecting Head Cable to Power Supply - Single Head

Triple Head Power Supply
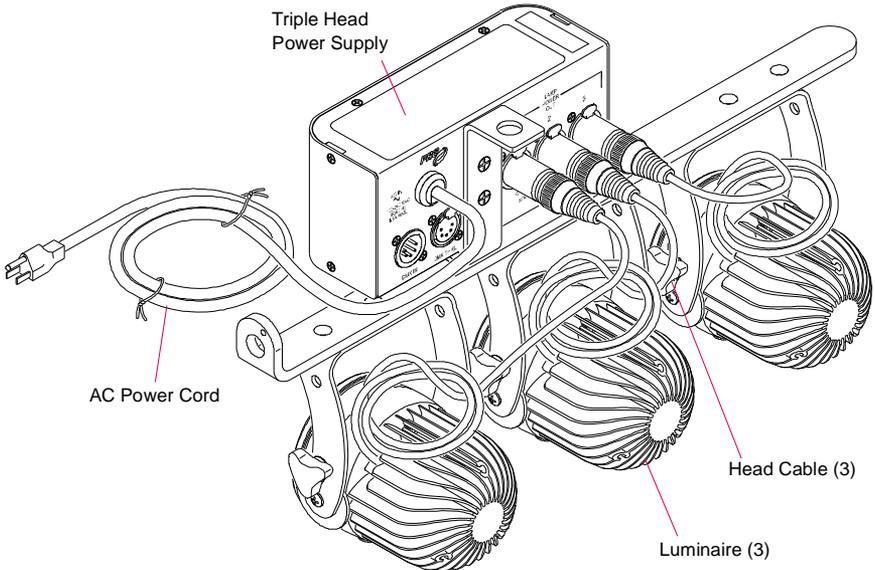
AC Power Cord

Head Cable (3)

Luminaire (3)

Figure 6: Connecting Head Cables to Power Supply - Triple Head

4. POWER UP AND OPERATION

Power Up

Apply power to the Bullet Luminaire by plugging the Power Supply's power cord into an AC source. (The unit has no power on/off switch.)

LED Indicators

The Comm and Status LED indicators will be activated upon power up, whenever rotary dials are changed, when DMX signal is lost (after a 15 second delay to avoid short losses), when DMX signal is acquired, or upon over-temperature condition.

After activation, the LED indicators will remain active for 15 minutes unless otherwise described below. (The timer will be reset by repeated activation events.)

Comm (Green) LED	Status (Orange) LED	Meaning
slow blink on/off	n/a	no incoming DMX
solid on	n/a	valid incoming DMX
n/a	rapid blink (3-4 times per second)	over-temperature condition
blink code	off / blink code	firmware version *

* Firmware version blink codes will only be shown when rotary dials are set to a value of 530 (see Standard Operating Modes below). The green Comm LED indicates the major version and the orange Status LED indicates the minor version (off for zero).

Standard Operating Modes

The luminaire operating mode is set using the three rotary dials located on the Power Supply. The three dials represent the 100's digit, 10's digit, and 1's digit as marked. For example, to set the address to 512, set the x100 dial to [5], the x10 dial to [1], and the x1 dial to [2]. (Note that on a Triple Head Power Supply, DMX channels are sequential for the 2nd and 3rd head attached.)

When the rotary dials are adjusted to a specific setting, the mode and behavior of the luminaire will change immediately. Settings are as follows:

Setting	Function
000	Full on (100%)
001-512	DMX channel address
530	Read out firmware version on LED indicators (refer to LED Indicators section above)
550	Allow DMX address to be set via RDM *
600-700	Manual intensity, 0-100%
800-899	Manual strobe rate, slow to fast
900-999	Manual fade rate (pulse), slow to fast
other	Full off (0%)

* All RDM functionality except setting the DMX address is available regardless of thumbwheel value. Setting the thumbwheel to 550 also allows the DMX address of the fixture to be set remotely via RDM commands.

Exception Modes

In case of a DMX signal loss or over-temperature condition, the luminaire will respond as follows:

Condition		Response
DMX Fails	Valid DMX signal is lost while in DMX mode	Luminaire will hold last "look" and resume DMX commands when valid DMX data is received again. (Also see Blink function of the LED Indicators.) NOTE: Look will not hold through power loss.
Over Temp	Unit exceeds temperature limit	Output power is disabled until power is cycled or temperature falls below threshold. (Also see Rapid Blink function of the LED Indicators.)

RDM

The Bullet Luminaire supports basic RDM functionality per ANSI E1.20 (RDM-Remote Device Management over USITT DMX512 Networks) specification.

Focusing the Beam

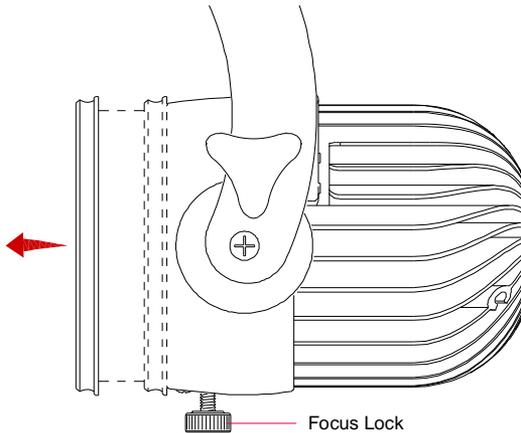To focus the luminaire, loosen the Focus Lock knob and rotate the front of the barrel to adjust the position of the lens. The more the barrel is extended, the more narrow the beam.

Focus Lock

Figure 7: Focus Lock Knob

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