

QUICK START GUIDE



GALLERY SERIES LED LUMINAIRES QUICK START GUIDE

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Preface

The document provides basic information on installation and operational instructions for a qualified, trained installer. These instructions provide information for the following product:

Gallery Series LED Luminaires

Additional product information can be found on our web site at www.altmanlighting.com or by scanning the QR code to the right.



Have a question regarding this guide?

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Our Commitment

Altman Lighting continually engages in research related to product improvement. New materials, production methods and design refinements are introduced into existing products without notice as a routine expression of the philosophy. For this reason any current Altman Lighting product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise noted.

Document Number: **49-0235**
Version as of: **2022-JANUARY-14**

Gallery Quick Start Guide
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Important Information

Product Safety Notices

When using electrical equipment, basic safety precautions should always be followed including the following:



1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. Do not use outdoors unless the product is specified to operate in outdoor environments.
3. Do not mount near gas or electric heaters.
4. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
5. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
6. Do not use this equipment for other than intended use.
7. Refer service to qualified personnel.

SAVE THESE INSTRUCTIONS.

Warnings



WARNING: You must have access to a main circuit breaker or other power disconnect device before installing any wiring. Be sure that power is disconnected by removing fuses or turning the main circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

WARNING: This equipment is intended for installation in accordance with the National Electric Code® and local regulations. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

WARNING: This Lighting Fixture is NOT for residential installation or use.

WARNING: The structure where fixture(s) is to be mounted must be capable of supporting the weight of the fixture and its accessories. This fixture is for temporary, portable mounting only.

WARNING: The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

CE PRODUIT DOIT ÊTRE INSTALLÉ SELON LE CODE D'INSTALLATION PERTINENT, PAR UNE PERSONNE.

**CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR.
CONSULTER UN ÉLECTRICIEN QUALIFIÉ POUR VOUS ASSURER QUE LES CONDUCTEURS DE LA
DÉRIVATION SONT ADÉQUATS.**

FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Altman Lighting Product Warranty

Warranty Terms

Altman Lighting, Inc., a subsidiary of Altman Stage Lighting Company, Inc., herein referred to as Altman, warrants each new product (except for spare parts or products Altman does not manufacture) for a period of FIVE (5) years and ONE (1) day from date of shipment to correct by repair or replacement any part defect due to faulty material or workmanship.

Altman warrants for NINETY (90) days any spare part it manufactures. On spare parts or products Altman does not manufacture, including, but not limited to, lamps, sockets, lenses, roundels, electronics, ignitors, ballasts, etc.; Altman will grant the same warranty given Altman by its vendors. Altman assumes no responsibility for damage or faulty performance caused by misuse, improper installation, careless handling or where repairs have been attempted by others. This warranty is in lieu of all warranties or guarantees expressed or implied and no representative or person is authorized to assume Altman any other liability with the sale of Altman's products.

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Installation & Set Up

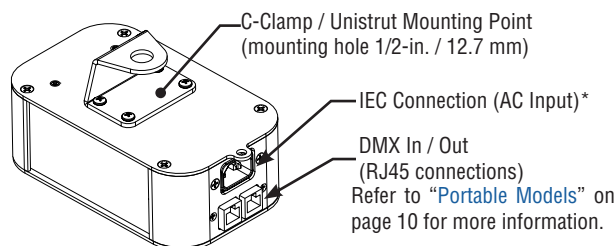
Top Box Overview

There are several mounting configurations for the Gallery Series LED Luminaires:

- Portable - C-Clamp / Unistrut
- Smart Track / Track
- Ceiling / Pendant

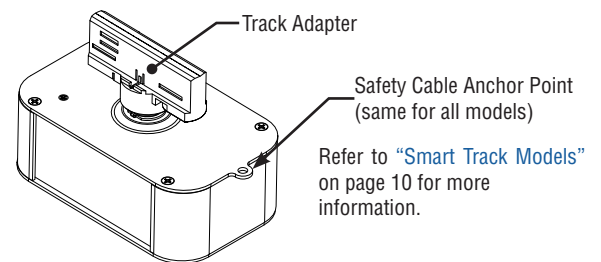
The model(s) purchased determines how the unit can be mounted. **Figure 5** shows the features and connections on the two versions of the Gallery Series Luminaire top boxes.

Portable C-Clamp / Unistrut Mount Models

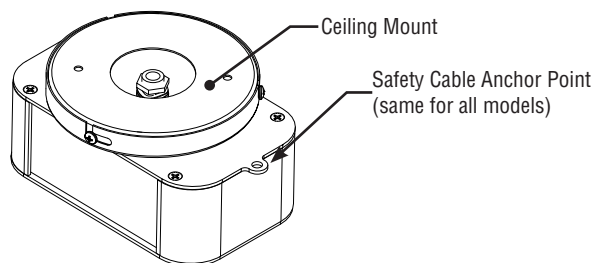


Note: *One molded VLock IEC to Edison 2 meter (6'-6") cable (part number 54-VL012405200) is included with portable units.

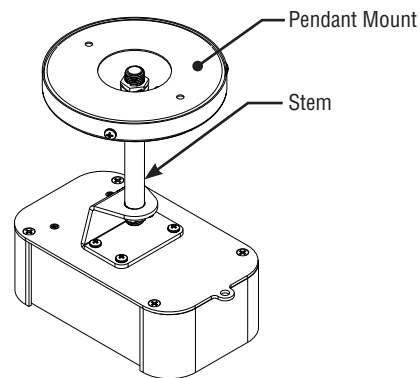
Smart Track / Track Mount Models



Ceiling / Pendant Mount Models



Refer to "Ceiling / Pendant Models"
on page 12 for more information.



Portable Remote Top Box with C-Clamp / Unistrut Mount Models

NOTES: Only top boxes shown for clarity.
Top boxes are not removable (from standard
models) and cannot be remotely located.

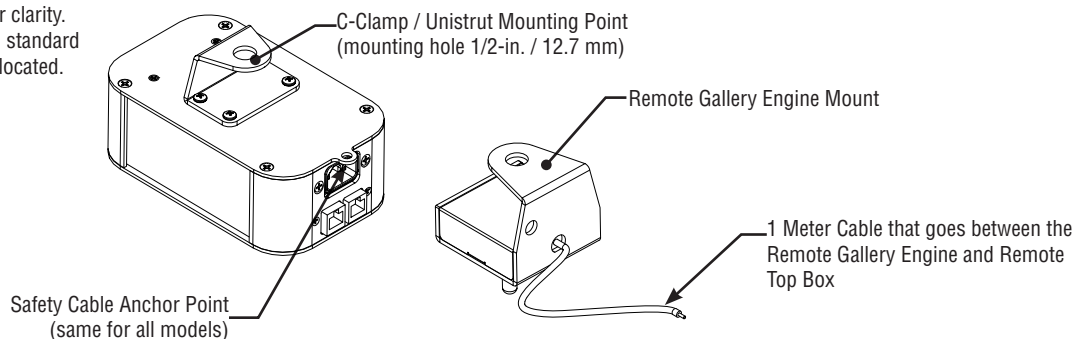


Figure 5: Top Box Overview - Features

Gallery Gate Installation

The provided Gallery Gate should be installed as shown in **Figure 2**.

Note: The Gallery Gate is only supplied and required for the 25°- 50° Short Zoom Lens and 15°- 35° Long Zoom Lens Luminaires

To connect Gallery Gate to Gallery LED Engine:

Step 1. Unscrew the Accessory Cover Lock from the Gallery LED Engine.

Step 2. Slide the Gallery Gate onto the Gallery LED Engine.

Step 3. Install the Accessory Cover Lock back onto the Gallery LED Engine.

Note: The Gallery Gate needs to be installed with the Shutter side facing the 25°- 50° Short Zoom Lens or 15°- 35° Long Zoom Lens.

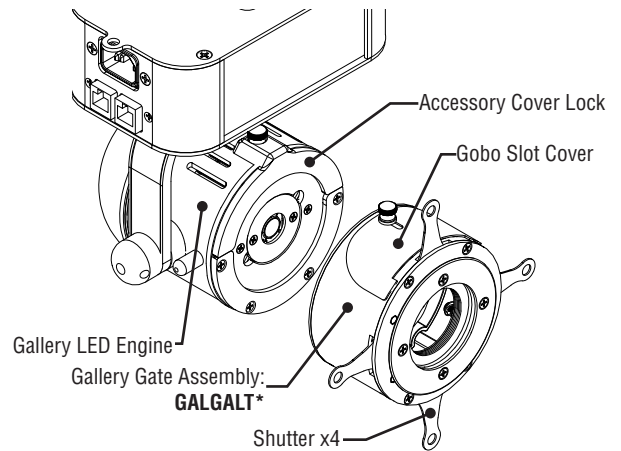


Figure 2: Gallery Gate - Overview

Gallery Lens Installation

The provided Gallery Lens should be installed as shown in **Figure 3 and Figure 4**.

Note: The 25°- 50° Short Zoom Lens and 15°- 35° Long Zoom Lens Luminaires will attach to the Gallery Gate

To connect Gallery Lens:

Step 1. Unscrew the Accessory Cover Lock from the Gallery LED Engine

Step 2. Slide the Gallery Lens onto the Gallery LED Engine

Step 3. Install the Accessory Cover Lock back onto the Gallery LED Engine

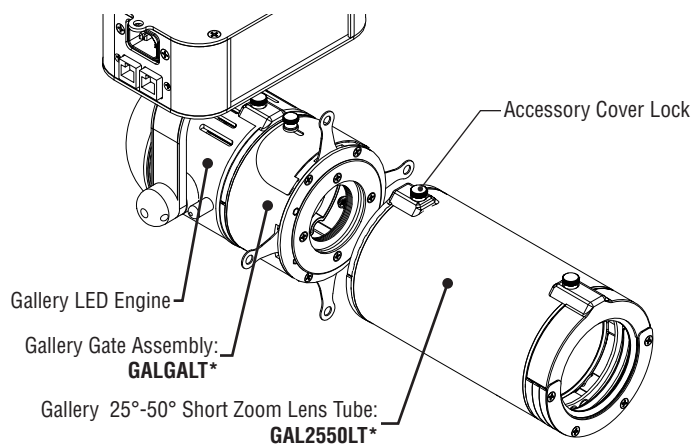


Figure 3: Gallery 25°- 50° Short Zoom Lens - Overview

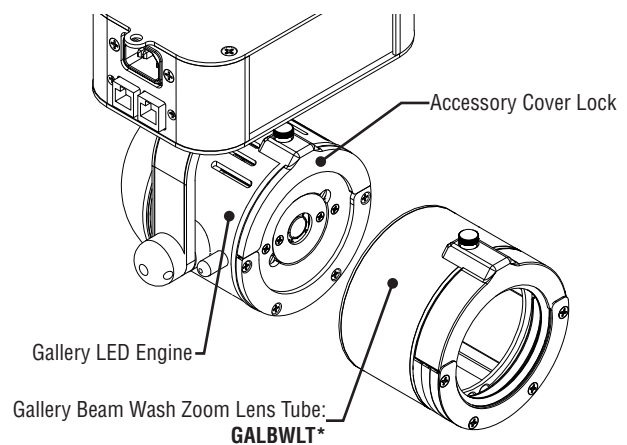


Figure 4: Gallery Beam Wash Lens - Overview

Safety Cable Installation

The provided Mini Safety Cable (MSC) should be installed as shown in **Figure 5**.



IMPORTANT! The safety cable (supplied with unit) should be used and may be required by local and/or national codes when hanging this luminaire. The mounting structure must be capable of supporting the weight of the fixture, lens, cabling, any accessories, etc.

Safety Cable Anchor Point

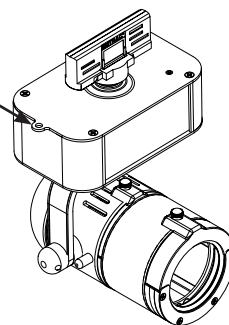


Figure 5: Gallery Safety Cable - Overview

Power Requirements



WARNING! The Gallery Series LED Luminaires should be connected to a constant circuit or a relay device. It should never be connected to a dimmer or circuit controlled by a dimmer unless the unit is specifically designed to do so (MAINS dimming models - 120VAC only). Read this section carefully on how to properly connect your fixture.



WARNING! All Gallery Series LED Luminaires are shipped prewired from the factory. The wiring information in Table 1 is shown for field wiring information and must be performed by a qualified and licensed electrician. Before performing any field wiring, refer to and read the warnings contained in [“Important Information” on page 3](#).

Connecting Power

Units are powered in one of two ways depending on the model(s) purchased.

- Direct connection to a AC power source for the portable unit via their IEC to Edison input cable (Portable models that are mounted with a C Clamp or Unistrut).
- Direct connection to the powered track (Track Mount / Smart Track Models or Ceiling / Pendant Models) Field wiring of the fixture is straight forward. A total of three wires/conductors need to be brought to the unit. The following wiring scheme, as shown in Table 1, is required for direct connection models.

Wire Color (120V Models)	Purpose
Black	Main / (L)ine
White	(N)eutral
Green	Ground / Earth
Wire Color (100- 240VAVC Models)	Purpose
Brown	Main / (L)ine
Blue	(N)eutral
Green / Yellow	Ground / Earth

Table 1: AC Input Wiring



IMPORTANT! All Gallery Series LED Luminaires must be connected to and properly grounded to a viable earth ground.

Mains Dimming Version

Gallery Series LED Luminaires are available in a 120VAC Mains Dim version which is achieved with standard TRIAC-Based incandescent dimmers (see Table 2, “Compatible Mains Dimmers,” on page 11) that “chop” the AC voltage or with standard ELV (electronic low-voltage) dimmers.

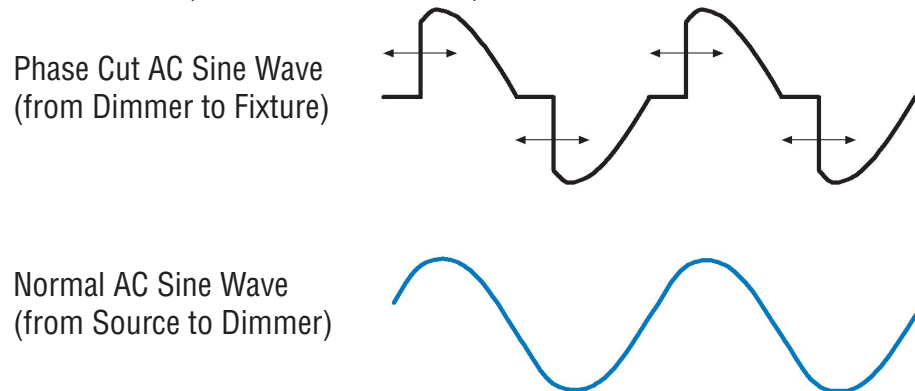


Figure 6: Phase Cut Sine Wave Example

Manufacturer	Dimmer Model	Manufacturer	Dimmer Model
Lutron	S-603PG	Leviton	IP-106-1LZ
	DVCL-153P		6631-2
	DV-600P		VPE06
	TGCL-153P		6683-IW
	S-600P		6161
	DVELV-303P		6633-P
	SELV-300P		IPE04
	TG-600P	Cooper	DLC03P
	CT-103P		SLC03P
	MAELV-600		DAL06P
Lightolier	FAELV-500	Strand Lighting	C21 350uS
	ZP260QEW		A21 IGBT
ETC	D Series		A21 SCR

Table 2: Compatible Mains Dimmer



WARNING! Phase-Cut Dimmers are only available for 120VAC systems. The use of any other type of dimmer will damage the unit and void the product’s warranty. **Table 2** represents a number of manufacturers dimmers that have been tested with the product. As this list represents some of the larger dimmer manufacturers it is recommended when utilizing an alternate dimming manufacturer that the Gallery Series Luminaire is tested with any alternate dimmer prior to utilization. Please note that the majority of phase-cut dimmers tested have resulted in proper dimming performance. For additional information, please contact customer service.

Smart Track Models

To connect Smart Track models to track:

Step 1. If not done at factory, connect AC wiring as shown in **Figure 7**. Also refer to Table 1 “Input Wiring on page 8

Step 2. As shown in **Figure 8**, connect fixture to track as follows:

- A. Turn Knob A Clockwise 90 Degrees for physical mechanical attachment.
- B. Turn Knob B Clockwise 90 Degrees for circuit #1 power
- C. Turn Knob B Counterclockwise 90 Degrees for circuit #2 power.

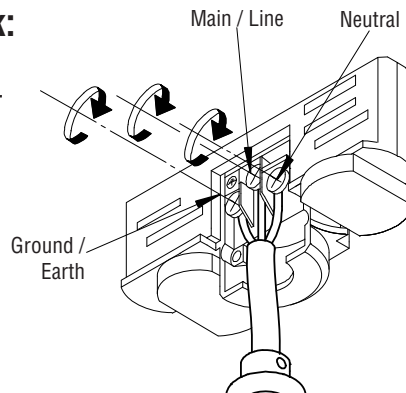


Figure 7: Track Adapter Power Wiring

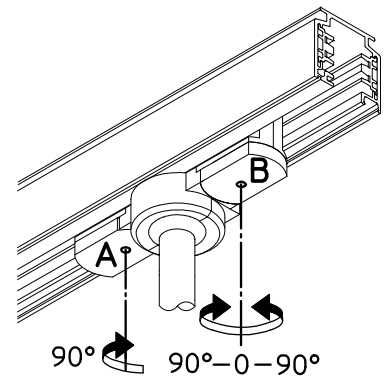


Figure 8: Installing Fixture on Track

IMPORTANT! Ensure that the track head is fully seated into the track prior to moving to the next step.

Portable Models

Portable models are supplied with a locking IEC power input connector. Similar to other electronic devices. This type of connector is used due to its reliability and inability to cross the main / neutral / ground connections. IEC ac input cables are readily available through most electrical /electronic retailers around the world. One molded VLock IEC to Edison 2 meter (6'-6") cable (part number 54-VL012405200) is included with portable units



Note: Some models are Mains dimmable models. These units are for 120VAC markets only and a list of approved dimmers is listed in [Table 2 on page 7](#).

To connect power to Portable Models:

Step 1. Make sure the AC cable is not connected to an AC power source.

Step 2. As illustrated in **Figure 9**, position AC input cable in direct relation to the IEC connector on the side luminaire top box assembly.

Step 3. Press AC input cable IEC connector firmly into IEC connector on top box assembly.

Step 4. The luminaire is now ready to connect to an AC source.

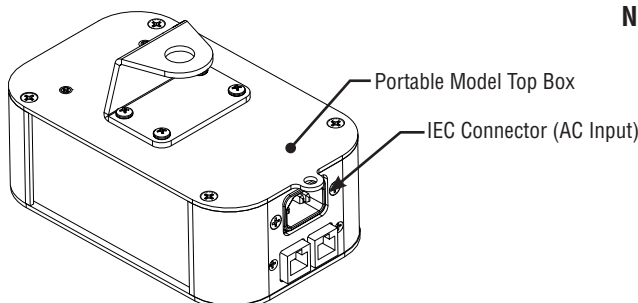


Figure 9: IEC Connector - Portable Models

NOTES:

- Luminaire not shown for clarity.
- Top boxes are not removable (from standard models) and cannot be remotely located.
- Remote top box configurations are available for portable units only. Remote top box models must be ordered specifically as a remote top box set up. Remote top box units have a one (1) meter cable between the luminaire engine and top box. Refer to the Altman Lighting web site www.altmanlighting.com for more details.

0-10V Controlled Models (Sink Current)

Gallery Series LED Luminaires' 0-10V drivers only operate with dimmers that sink current. They are not designed to operate with 0-10V controls systems that source current, as used in theatrical and entertainment systems. Developed in the 1980's, the 0-10V sinking current controls method is adopted by the International Electrotechnical Commission (IEC) as apart of the IEC 60929 Annex E standard.

The method to dim the output current of the driver is done via the +Dim/-Dim signal lines. This input responds to a 0-10V signal, delivering 1%-100% of the output for the luminaire.

Compatible 0-10V Dimmers include but are not limited to:

- Lutron: Nova Series
- Lutron: Diva Series
- Leviton: Illuma Tech Series.



IMPORTANT! As all 0-10 Volt dimmers offer different features and options please consult the dimmer manufacturers wiring guide for additional information when wiring to 0-10V operated Gallery Series LED Luminaires.



IMPORTANT! The 2020 National Electrical Code® (NEC) (NFPA-70) contains a new requirement in section 410.69 that disallows the use of insulation colors reserved for the grounded branch circuit conductor (white or gray) or the equipment grounding conductor (green or green with a yellow stripe) for a field-connected control circuit conductor. A decision was made that pink will be an acceptable replacement for gray control conductor. This requirement will become effective on January 1, 2022. See **Table 4 for new 0-10V Wiring**

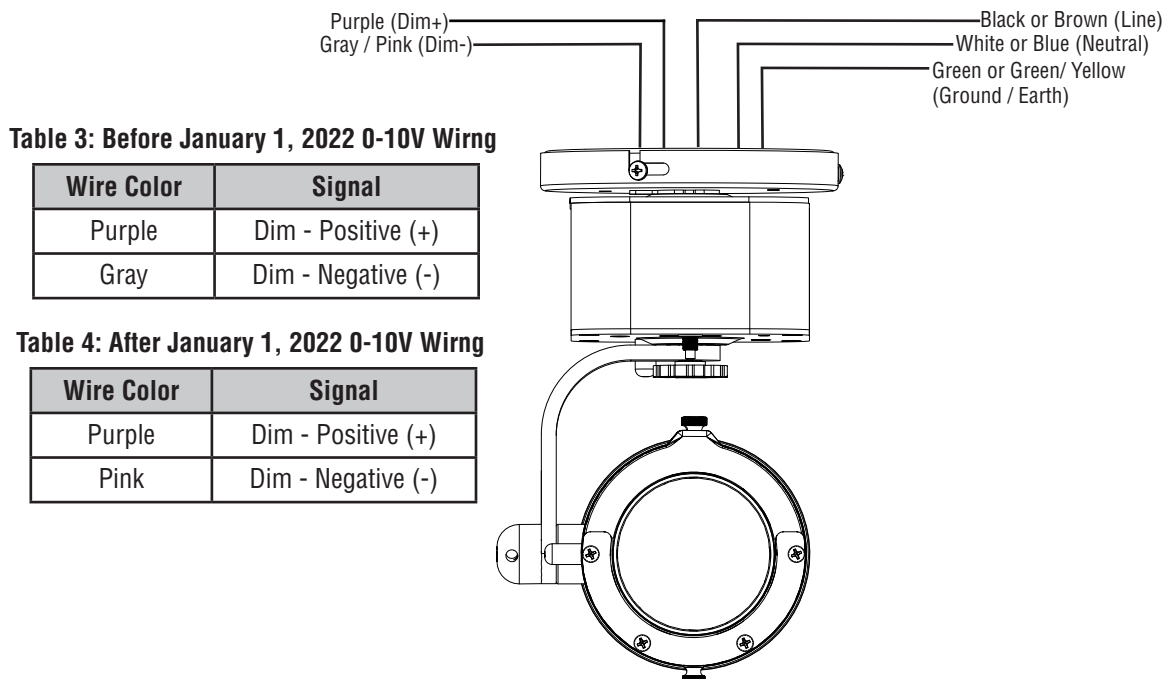


Figure 10: 0-10V and Power Wiring

Canopy / Pendant Mount Models



IMPORTANT! Ceiling junction box and junction box screws are not included with Gallery Series LED Luminaires and are by others.



WARNING! Canopy / pendant mount models must be installed by qualified professional installer and should be done in accordance with local and national codes.



WARNING! Make sure power to the junction box is completely disconnected. Failure to do so could lead to serious injury or death.

To wire and install canopy / pendant mounted models:

Step 1. Install Gallery Series LED Luminaires Mounting Flange to ceiling junction box. Ceiling junction box is octagon-style box (by others). Mounting hole spacing is 3.5-inches (88.9 mm).

Step 2. Connect wiring to fixture. Refer to [“Connecting Power” on page 8](#) or [“0-10V Controlled Models \(Sink Current\)” on page 14](#) as applicable

Step 3. Align fixture bottom mounting flange with top mounting flange screws.

Step 4. Turn clockwise securing the unit to top mounting flange.

Step 5. Tighten flange screws.

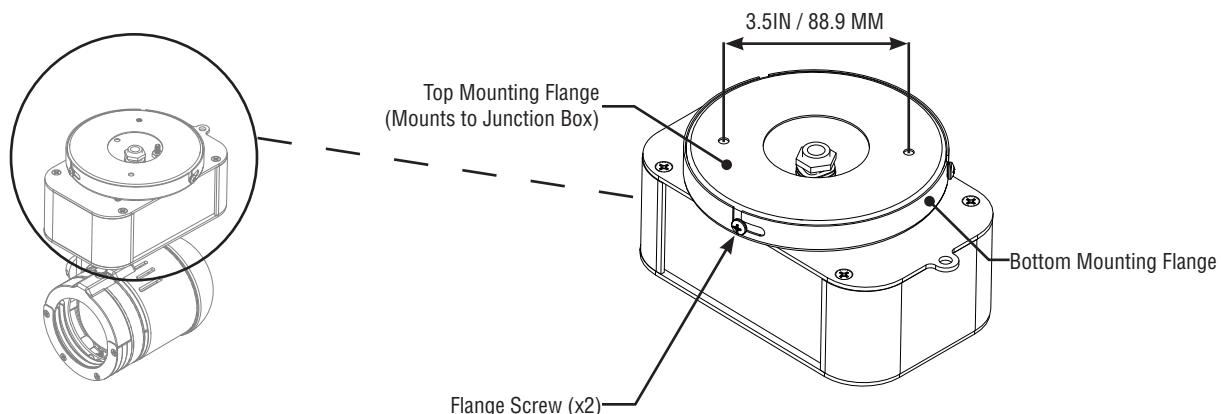


Figure 11: Canopy / Pendant Mount

Connecting Data (DMX Models)

Gallery Canopy or Pendent DMX controlled models offer a connection block (Figure 12) inside the luminaire's canopy. For portable units (refer to "RJ45 / XLR Connectors").

Basic DMX512 installation consists of connecting multiple DMX controlled Gallery LED Luminaires together (up to 32 Total devices per DMX string) in "daisy-chain" fashion. A cable runs from the DMX512 control source to the DMX INPUT connection on the first luminaire.

From the DMX OUTPUT of the luminaire another cable runs to the DMX IN connection on the next luminaire or other DMX512 device to be controlled.



At the end of each DMX Daisy chain, it is highly recommended that a DMX TERMINATOR (Altman Lighting part number DMX-MPHX-TERM for the connectors shown in Table 2) is utilized on the last luminaire (or device) in the chain.



All Canopy and Pendant units will come pre-wired from the factory with the Phoenix connector installed and there is a spare set sent for Customer Wiring. **On Pendant style fixtures (with a stem mount) this connector must be removed prior to threading cable through the mounting stem and then reinstalled.** These connectors are multi-use and highly recommended for DMX wiring use.

Phoenix Connector Installation



(A) Insert and Hold small, flat screwdriver into slot to open wire way

(B) Insert CAT 5 DMX Cable into Wire way. Strip wire to 0.25-in / 6.5 mm.

Figure 12: Canopy / Pendant Connection Block

RJ45 / XLR Connector Wiring

For information on RJ45 connectors for DMX Input / Output, refer to **Table 5** on page 13 for RJ45 and XLR connector wiring.

DMX Connections - RJ45 and XLR Connectors		
DMX Signal	RJ45 Connector	XLR Connector
Common (Drain)	Pin 7	Pin 1
DMX -	Pin 2	Pin 2
DMX +	Pin 1	Pin 3

Table 5: RJ45 and XLR Connectors

Only those pins shown are used. Remaining pins on RJ45 and XLR connectors are not used.

Terminal Block (Phoenix Connector) Wiring



- All pin information is read from left to right from the back of the connector (looking at wiring inlet).
- (DMX Version Ceiling mount) One (1) piece of Category 5 Belden 1592A cable for all data connectivity. Three (3) of the conductors are used for data input and three (3) conductors for data output. Note, the White/Blue & Blue conductors are not used. Both Data Input and Output utilize a Phoenix Contact 3 position terminal block for use with 20-24 AWG.

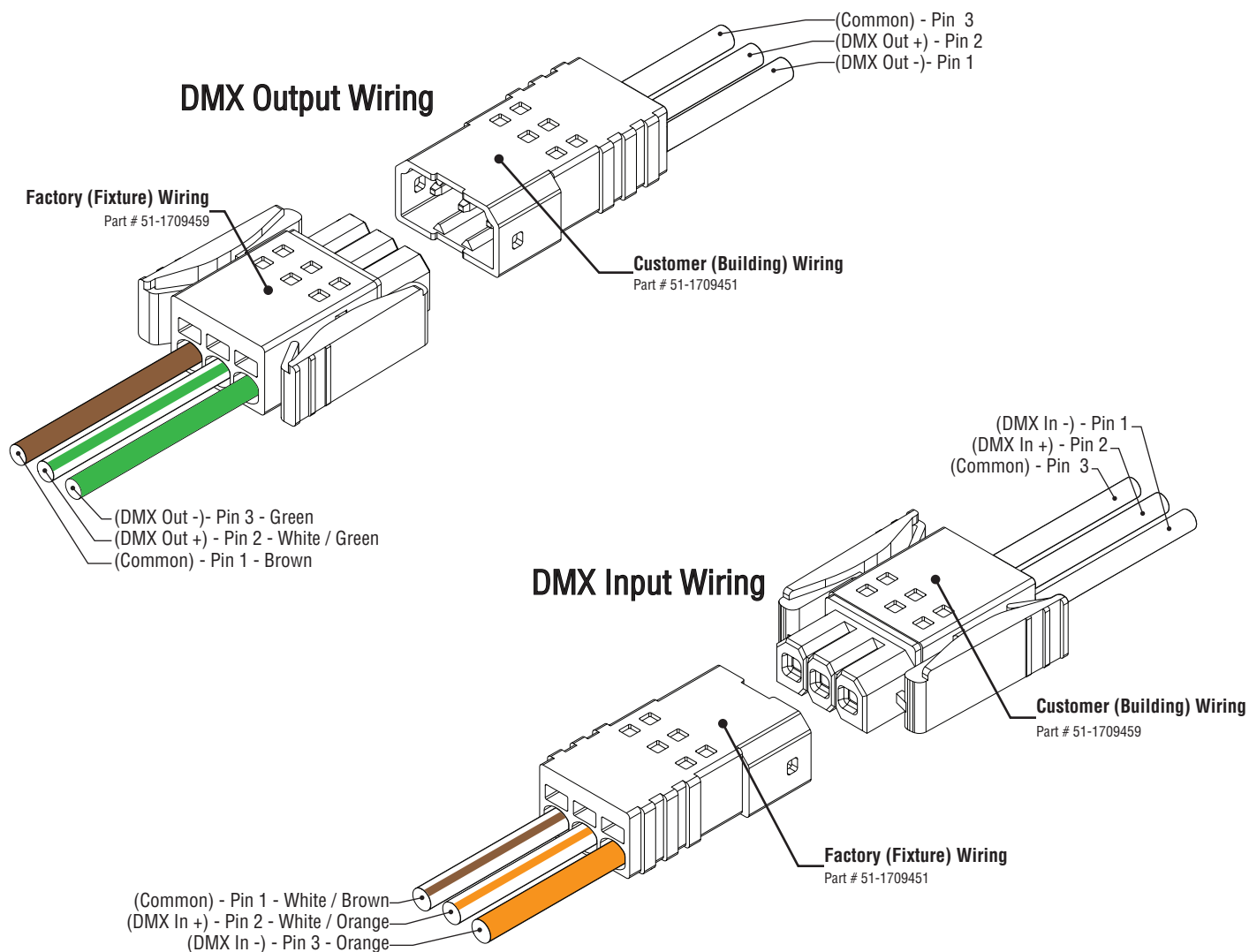


Figure 13: DMX Wiring

DMX Connection	Wire Color	Signal
DMX Input	White / Brown	Common
	White / Orange	Data In (+)
	Orange	Data In (-)
DMX Output	Green	Data Out (-)
	White / Green	Data Out (+)
	Brown	Common

Factory Wired	Connection	Customer Connection	Connection
Male	Pin 1 (Left)	Female	Pin 3 (Right)
	Pin 2 (Center)		Pin 2 (Center)
	Pin 3 (Right)		Pin 1 (Left)
Female	Pin 1 (Left)	Male	Pin 3 (Right)
	Pin 2 (Center)		Pin 2 (Center)
	Pin 3 (Right)		Pin 1 (Left)

Setting a DMX Address via RDM

Gallery Series LED Luminaires are full featured Remote Device Management (RDM) compliant. All DMX and Luminaire settings are programmed via a RDM ANSI E1.20 complaint device. As many of the RDM devices and software work differently please consult the RDM programmer manufacturer for specific operational instructions. **Table 6 on page 18** shows the list of the settings and features that can be set via RDM.



Note: The entire DMX infrastructure must be RDM compliant in order to achieve system-wide RDM functionality.

Item	Value	Additional Values
RDM Protocol Version	0100	
Device Model ID	LED Driver 40W	
Product Category	Specialized LED Dimmer	
Boot Version	0.00	
Software Version ID	V000001.12	
DMX 512 Start Address	1 (default)	Settings between 1 and 512
DMX Foot Print	1 (default)	
Manufacturer Label	Altman	
Dimming Curve	Linear (default)	Logarithmic

Table 6: DMX Addressing

Operation

Luminaire Features

This section will cover the unique features of the various models. Some features - as described in this section - may or may not be applicable to all models. Each section will let you know what models this feature is applicable to a fixture or series of fixtures.

Focus Button

Each DMX Model is equipped with a “focus button” located on the top box assembly on the luminaire head side. This button is programmed for full on/off control of the luminaire whether DMX is active or inactive. Pressing this button will bring the luminaire to full, if off or off, if at full. If the DMX system is active and the DMX Value is changed from its current value, the prevailing DMX signal will then take control of the luminaire.



Note: Any change in the DMX value will over ride the focus button (last action takes precedence).

Zoom Spot Models

Gallery Series LED Luminaires fitted with a short or long zoom lens, has the following features:

- User-settable and lockable zoom and focus control
- 4-blade shutter system (set on two planes)
- Gobo slot for E-size gobos measuring 37.5 mm OD with a 28 mm image area. Gobo holder is included with all zoom spot models and can be purchased as an additional accessory.
- End of lens tube accessory holder (same for all models, see [“Accessory Holder - All Models” on page 19](#))

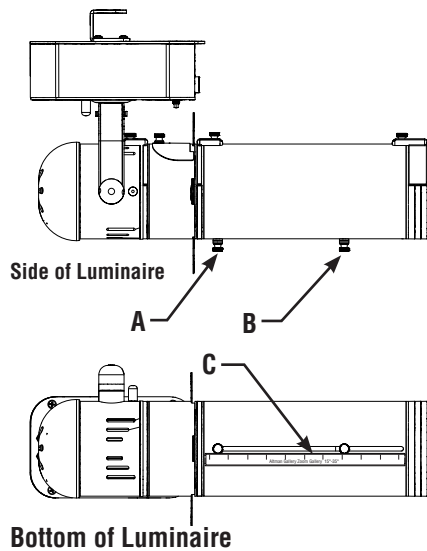
Zoom and Focus Control

Zoom and focus is easily accomplished by the two knobs located on the zoom spot lens tube. The front knob (towards the end of the lens tube) controls the fixture’s zoom / beam angle. The rear knob (closest to the LED engine) controls the focus of the beam. Refer to **Figure 14**.

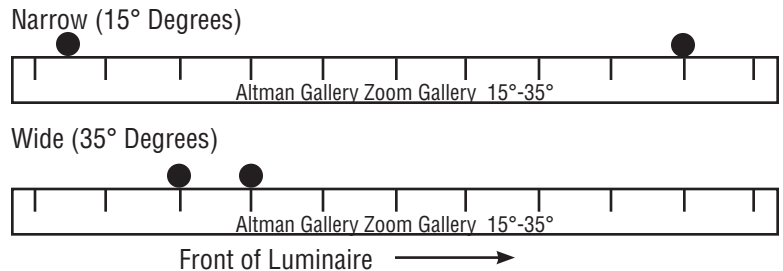
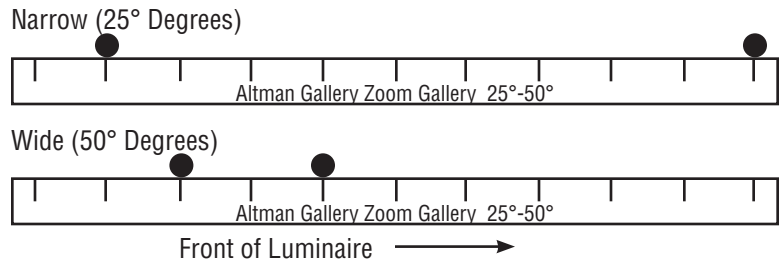
To change the fixture’s beam angle, simply loosen (do not remove) the zoom / beam angle knob and set as desired. Re tighten by hand once desired beam angle is achieved. Repeat this for the focus of the fixture.



Note: Keeping the lens knobs loose and slightly snug will allow smooth movement of the lenses along the lens tube when making adjustments. Loosening the knobs too much will make fine/precision adjustments difficult and may misalign the lenses and give poor focus adjustment through the focus range.

**Notes:**

- (A) Focus Knob
- (B) Zoom / Beam Angle Knob
- (C) All zoom lens tubes are equipped with a graduated scale.

15°-35° Degree Zoom Basic Setting**25°-50° Degree Zoom Basic Setting****Figure 14: Zoom Spot Models - Beam Control****4-Blade Shutter**

Gallery Series LED Luminaires with zoom spot lenses have a gate assembly that contains four-blade shutters that can be moved by hand in and out of the beam for shutter cuts. The can moved as needed either straight out (or in) or at an angle. Figure 15 shows the gate and the four shutter blade handles.

Gobo Slot

Gallery Series LED Luminaires with zoom spot lenses offer a gobo slot (Figure 15) to hold one E-size gobo with the dimensions of 37.5 mm OD with a 28 mm image area. Gobo holder is included with all zoom spot models and can be purchased as an additional accessory.

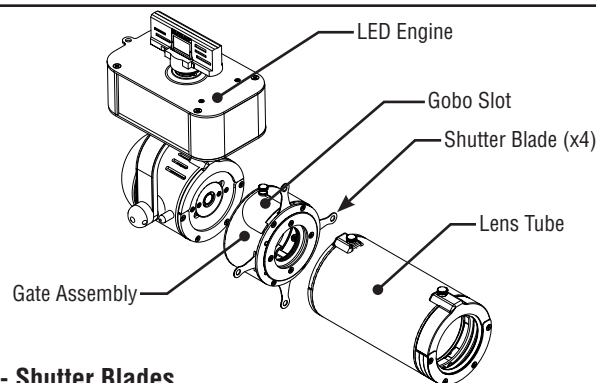


IMPORTANT! Please note that some gobos, depending upon their reflectivity level may need to be blackened in order to obtain superior projections. Additional beam shaping is obtained through the four (4) integrated shutters.

*** Gate Assembly Notes:**

- Gate Assembly must be installed with shutter blades closest to lens tube for proper focusing and optimal performance.
- Gate Assembly can rotate 360 degrees for gobo or shutter cuts.

Note: Luminaire shown in exploded view for clarity. Track model shown, same for all zoom spot models.

**Figure 15: Zoom Spot Models - Shutter Blades**

Beam Wash Models

Beam wash models offer a variable beam angle of 15 to 60 degrees and a end of lens accessory holder (see [“Accessory Holder - All Models”](#) on page 19 for more information on the accessory holder).

Beam Angle Adjustment

Gallery Series LED Luminaires that have the beam wash lens are designed and are ideal to project a soft edge, even beam of light. For beam wash models, beam shaping is achieved through external, four-flap barn doors (sold separately).

To adjust the beam angle, simply loosen, do not remove, the beam angle knob as illustrated in Figure 15. Once the desired angle is achieved, re-tighten the beam angle knob.



Note: Keeping the beam angle knob loose and slightly snug will allow smooth movement of the lens along the lens tube when making adjustments. Loosening the knob too much will make fine/precision adjustments difficult and may misalign the lens.

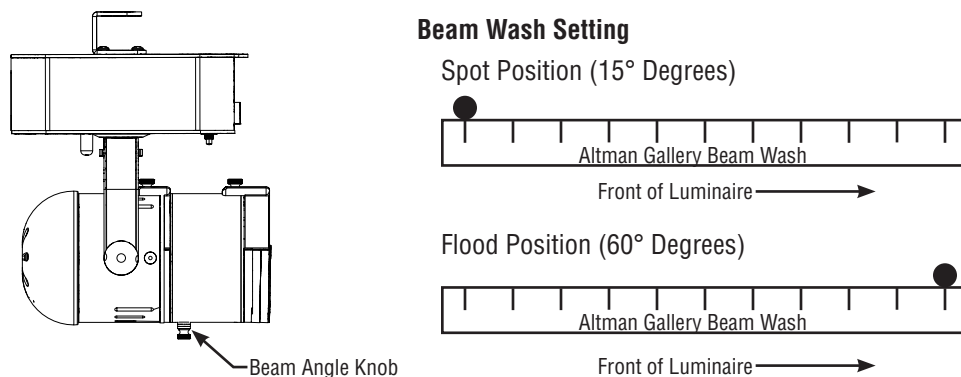


Figure 16: Beam Wash Models - Beam Angle Adjustment

Flood Models

Flood models offer a fixed beam angle of 85 degrees and a end of lens accessory holder ([“Accessory Holder - All Models”](#) on page 19) below for more information on the accessory holder). For flood models, beam shaping is achieved through external, four-flap barn doors (sold separately).

Accessory Holder - All Models

All Gallery Series LED Luminaires have a end of lens accessory holder. This holder is easily opened to accept such optional accessories (all sold separately or by others) as:

- 4-Flap Barn Doors
- Top Hat
- Half Top Hat
- Color (Gel) Frame

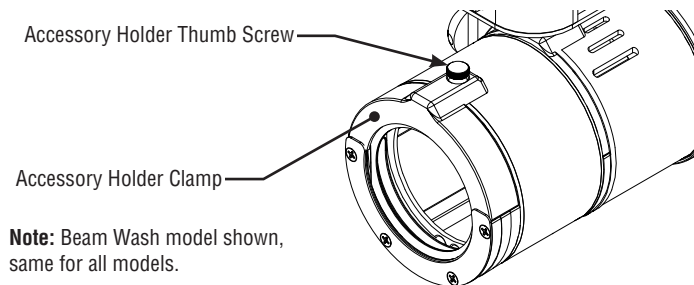


Figure 17: Accessory Holder - All Models

To open the accessory holder, as illustrated in Figure 16, remove the thumb screw holding the accessory holder clamp and insert the accessory. Once the accessory is inserted, reinstall the accessory holder clamp and screw.

Pan & Tilt - All Models

All Gallery Series LED Luminaires can have their pan and tilt set by hand (without the use of tools).

To adjust pan or tilt, loosen (do not remove) thumb screw or knob as indicated in **Figure 18** and adjust pan or tilt as desired. Once positioned as desired, re-tighten, by hand or tool (see note on tilt knob), the thumb screw or knob. Do not over tighten!

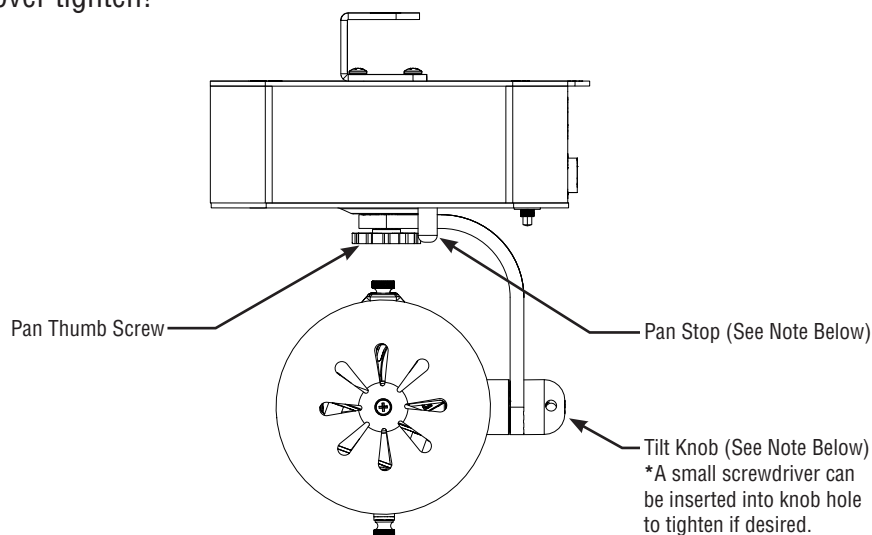


Figure 18: Fixture Pan & Tilt



Note: All Gallery Series LED Luminaires are fitted with pan and tilt stop studs. The stops prevent the fixture head from panning or tilting beyond its limits for internal wiring travel. It is important that these stops are never removed from the fixture or internal wiring damage may occur.

Cleaning And Care



WARNING! All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the fixture. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center. AT NO TIME SHOULD THE LED BE TOUCHED.

Being a solid-state fixture, and unlike most fixtures, the Gallery Series LED Luminaire requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning.

The Gallery Series Luminaire LED requires special care when it comes to cleaning the front reflector assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than glass.

The following is a list of cleaning materials required to care for your Gallery Series LED Luminaire:

- Lint free lens tissue
- Lint or powder free gloves
- Reagent grade isopropyl alcohol*
- A mild soap solution.



Reagent grade isopropyl alcohol is good to use on the Gallery Series LED Luminaire plastic optics with anti-reflection coatings.

If the lens is still dirty after using isopropyl alcohol, for instance if fingerprints or oil is just redistributed and not cleaned off the optic, then a mild soap and water solution can be used to gently wash the lens. Repeat the cleaning with isopropyl alcohol to eliminate streaks and soap residue.



Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the Gallery Series LED Luminaire. These types of cleaners or solvents can permanently damage the optics or housings of the fixture. If you have any questions regarding the use or care of your Gallery Series LED Luminaire, please contact Altman Lighting technical support or your local Authorized Dealer.

If you have any questions regarding the use or care of your Gallery Series LED Luminaires, please contact Altman Lighting technical support at support@altmanlighting.com or your local Authorized Dealer.

Note: Luminaire shown in exploded view for clarity.

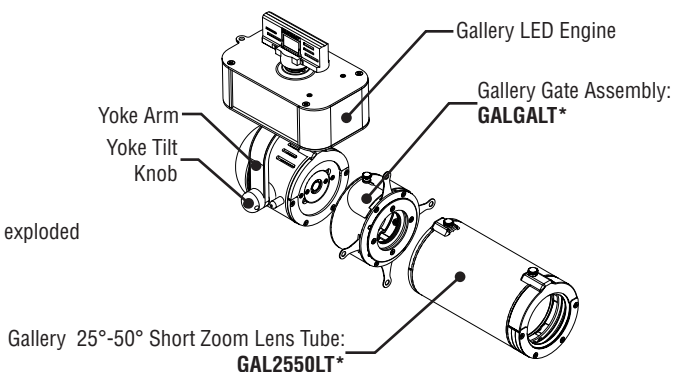


Figure 19: Exploded View