

GANTOM JUNI USER GUIDE



At less than 130mm (5 inches) in length, Juni is the smallest framing projector on the market. Gantom collaborated with top lighting designers in themed entertainment and architecture to create the most precise lighting tool for space-constrained environments. With zoom optics and multiple mounting configurations, Juni provides specifiers with design flexibility in a wide range of applications. For permanent installations, every adjustable mechanism is fully lockable (including shutters) to assure fixture focus when the designer steps away. All this in a fixture that's smaller than your smartphone!

Juni has a matte-black anodized aluminum finish with silver available by custom quotation. Juni is available in 12VDC PWM or DMX (see Juni DMX) dimming options. There are 3 available mounting options: standard screw-mount yoke, recessed canopy, and track.

Features

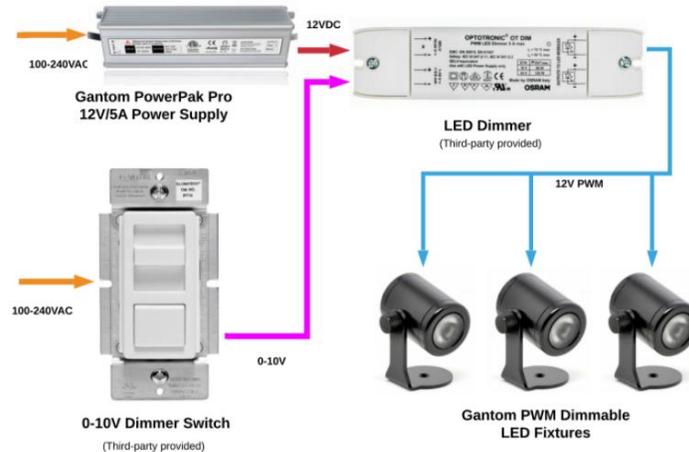
- Ultra-compact design < 130mm (5 inches) long
- Class 2, low-voltage 12VDC input (DO NOT HOT PLUG)
- Adjustable zoom and focus lenses
- Interchangeable lens tubes with a beam angle range of either 25-38° or 42-60°
- 3000K 90CRI or 6000K LED options available
- Tri-plane shutter system
- Accepts 19mm steel or glass gobo (up to 2mm thick)
- Dims with most dimmable 12VDC power supplies
- Machined aluminum body in silver or black finishes
- Track adapter and canopy mount available

Available Models:

Item Number	Item Description
GT81	Gantom Juni - Cool White - Black Finish - Pro Cable Connector
GT82	Gantom Juni – Warm White - Black Finish - Pro Cable Connector
GT83	Gantom Juni - Cool White - Black Finish – Wide Lens - Pro Cable Connector
GT84	Gantom Juni – Warm White - Black Finish – Wide Lens - Pro Cable Connector
TL281	Gantom Juni - Cool White - Black Finish - Eutrac Low Voltage Adapter
TL282	Gantom Juni – Warm White - Black Finish - Eutrac Low Voltage Adapter
TL283	Gantom Juni - Cool White - Black Finish – Wide Lens - Eutrac Low Voltage Adapter
TL284	Gantom Juni – Warm White - Black Finish – Wide Lens - Eutrac Low Voltage Adapter

POWER AND WIRING REQUIREMENTS

The Gantom Juni has a maximum wattage of 9W and **requires 12VDC power**. This fixture is compatible with dimmable 12VDC constant voltage LED drivers. Generally, PWM dimmers which work with 12VDC LED tape will also work with the Juni. Here is a diagram showing how this fixture could be connected to a 0-10VDC dimmer switch:



The Gantom Juni has bare wires for power input, and includes a screw terminal adapter which allows you to connect the fixture to a standard 2.1mm DC barrel jack.



BARE WIRE PINOUT		
Power	+	RED
	-	BLUE

Note: all fixtures must be installed with the low voltage supply power OFF. Hot plugging (connecting to a live power supply) is not supported.

Hot plugging a fixture into a system with a running power supply will increase the load on the power supply, which can generate voltage spikes that more than double of the standard input voltage. This causes an out-of-spec and out-of-warranty voltage condition which may result in damage to the fixture. While Gantom fixtures have internal protections against voltage spikes, it is recommended that installers handle them with care to prevent these spikes from happening in the first place.

Installing all fixtures in the system before turning on power to the low voltage power supply assures that the power supply has a “soft start” which is free from harmful voltage spikes.

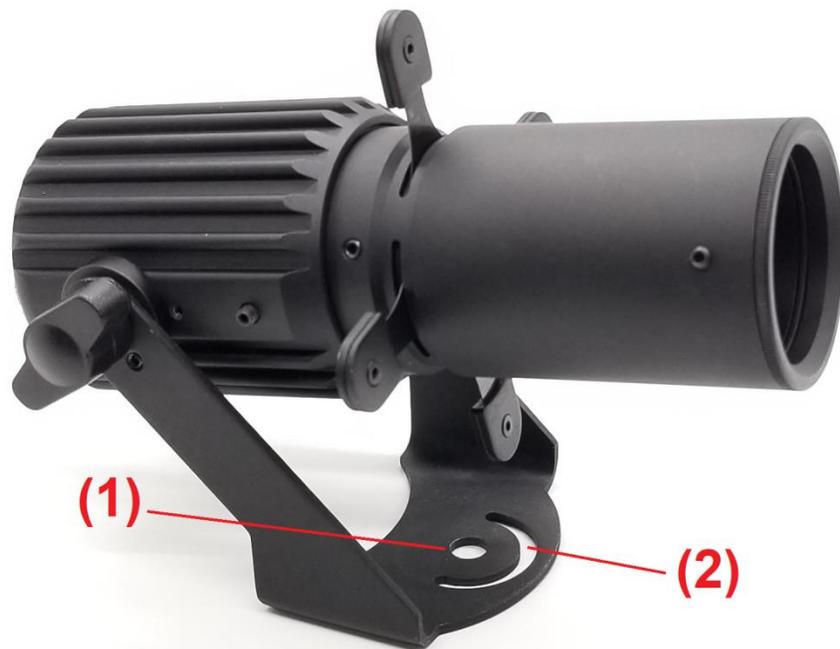
Safety and Operation notes:

Please carefully review the following safety notes regarding the Gantom Juni micro gobo projector. These notes are important for safe installation and usage of the product.

- Do not look directly at the light source while the fixture is powered on.
- Inspect all power cables for damage or crimped cable before use.
- Make sure that your circuit is properly grounded and all electrical safety precautions have been taken to prevent electric shock.
- Be aware that the fixture will become HOT to the touch when it is left on.
- Allow several minutes for the light to cool before touching it after extended periods of on time.
- Ensure that there are no flammable materials close to or in contact with the light fixture.
- Never touch the lenses within the fixtures. If the lenses must be cleaned, use a microfiber cloth and glasses cleaning solution.
- Make sure that the locking cable connectors are fully tightened when the product is installed.
- Check the voltage of the power line before connecting the fixture to ensure that it is within the required range for the fixture.
- In the event of a serious operating problem, cut power to the fixture and cease operation immediately.
- For technical support, please contact Support@GANTOM.com or call 1-855-GANTOM1 (1-855-426-8661).

MOUNTING INSTRUCTIONS

The Gantom Juni micro framing projector comes with an aluminum mounting yoke pre-installed. It is meant to be used with ¼" size hardware, but please note that mounting hardware is not included with the fixture. The yoke has a center hole (1) and a curved slot (2). Install a screw in the center hole first, then loosely screw down a second screw through the curved slot. Rotate the fixture to the appropriate angle and then finally tighten down both screws all the way to lock the fixture in place.



AIMING INSTRUCTIONS

Once the fixture has been mounted, you can complete the aiming of the fixture. The fixture is adjustable in the following ways:

PAN



TILT



ROLL



When you have the light pointed in the correct orientation, tighten the locking screws in the indicated locations.

FOCAL ADJUSTMENT

First, loosen the three set screws on the lens tube cover and remove the lens tube cover.



Power on the fixture. Be sure to never look directly at the LED while the fixture is on. Now, move the primary optic as close to the LED as possible and the secondary optic as far from the LED as possible on the optic slider rails. Slowly begin sliding the secondary optic toward the LED until the projected image comes into focus. This will be the narrowest focused beam the fixture can achieve.

NARROWEST BEAM SETTING



WIDEST BEAM SETTING



To widen the beam move the primary optic forward about 1 mm, and then move the secondary object backward along the optic slider rails toward the LED until the beam comes back into focus. Repeat this process until you have your desired projection size. At the maximum beam size, the primary and secondary optics will be touching each other at about 1/3rd of the length of the optic slider rails.

When you have finished focusing the lenses, replace the lens tube cover and tighten the set screws back down to hold the lens tube in place.

CHANGING THE LENS TUBE

To accommodate a wide range of beam angles there are multiple lens tubes available for the Juni fixture. To change the lens tube, remove the lens tube cover as shown in the “Focal Adjustment” section above. Next, unscrew the lens tube from the light engine.



Simply unscrew and remove the first lens tube, and screw in the replacement lens tube on in its place.

GOBO INSTALLATION

A gobo can be a great way to add texture and dimension to your application. The Gantom Juni micro framing projector accepts glass and stainless steel gobos with an outer diameter of 19mm. The maximum image size for patterns is 15mm and the maximum image size for text is 10mm. Both stainless steel and full color glass gobos are available to fit the Gantom Juni. While standard silver steel gobos will work with the Gantom Juni, due to the compact nature of the fixture we recommend sourcing a gobo with a black matte paint treatment for best results. Custom stainless steel and full color glass Gantom sized gobos are available from most major gobo manufacturers. For gobo manufacturer recommendations, please email sales@gantom.com

To install a gobo slide, first make sure that your fixture is powered off. Loosen the three set screws on the lens tube cover and remove the lens tube cover.



Next, remove the lens tube by unscrewing it from the fixture.



Unscrew the gobo retainer from the gobo holder ring.



Insert your gobo slide into the gobo retention hole, it should rest easily on a ledge that is inside the hole.



Next, screw the gobo retention ring back into the hole until it is firmly seated and holding the gobo in place.

Once the gobo is in place within the retainer system, reattach the lens tube, focus your optics to your desired effect, then reattach the lens tube cover.

SHUTTER ADJUSTMENT AND LOCKING

The Gantom Juni features 4 independently adjustable framing shutters which are perfect for creating rectangles, triangle, trapezoids, slits, or irregular shapes for selective lighting. This gives you the ability to add a crisp angular edge to your beam. This feature is perfect for highlighting a table or piece of art with minimal light spill.

With the light powered on, use the handles to adjust the placement of the shutters. Note that the side which is being adjusted will be mirrored and inverted on the light output. This means that when you adjust the shutter on the RIGHT side of the fixture, the image will be adjusted on the LEFT side. When you adjust the shutter on the TOP side of the fixture, the image will be adjusted on the BOTTOM side.

Once the shutters are adjusted, you can lock them in place by tightening one of the highlighted set screws. Note that there are 3 set screws around the fixture, but only one must be tightened to lock the shutters in place. For best results, we advise tightening down all three set screws equally.

SHUTTER ADJUSTMENTS



INSTALLING ACCESSORIES

The Gantom Juni has a retention ring on the front for holding a polycarbonate lens shield (included with the fixture), or a third-party sourced dichroic glass filter or plastic gel. For beam shaping and glare control, Gantom offers a separately sold accessory kit (FA38) which includes an angled cutaway snoot, a top hat, and a honeycomb hex louver. Please note that a separate retaining ring is included in the FA38 to accommodate the added depth from the hex louver and any additional accessories installed with it.

Installing the accessory: An accessory can be installed by first unscrewing the front retaining ring shown below.



Once the retaining ring is removed, the accessory can be inserted. Place the accessory in the desired orientation, then tighten down the retaining ring.



Product Support:

We hope that this guide has been effective for learning how to use your Gantom Juni or Gantom Juni DMX light fixture. However, if you run into a wiring issue, a bug in the software, or just a light that doesn't seem to want to cooperate, we at Gantom are ready to help you out! Just send an email to Support@GANTOM.com and we will get back to you as soon as possible.