Gantom GP285 Juni DMX User Guide

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Gantom GP285 Juni DMX

- At less than 130mm (5 inches) in length, the Juni is the smallest framing projector on the market.
- Gantom has responded to overwhelming demand from top lighting designers around the world to produce a compact and versatile fixture that can disappear into the environment. Gantom's Juni features 25-40 degree optics with framing shutters in a DMX fixture the size of a salt shaker!
- With it's hyper-efficient optical and cooling systems, the Juni delivers crisp and clean illumination from a fixture less than half the size of its competition.
- The Juni has a black anodized aluminium finish, with silver available by custom quotation. It is available in a non-dimming version or a DMX-controlled version. There are 3 available mounting options: screw-mount yoke, recessed canopy, and track mounting.

Features

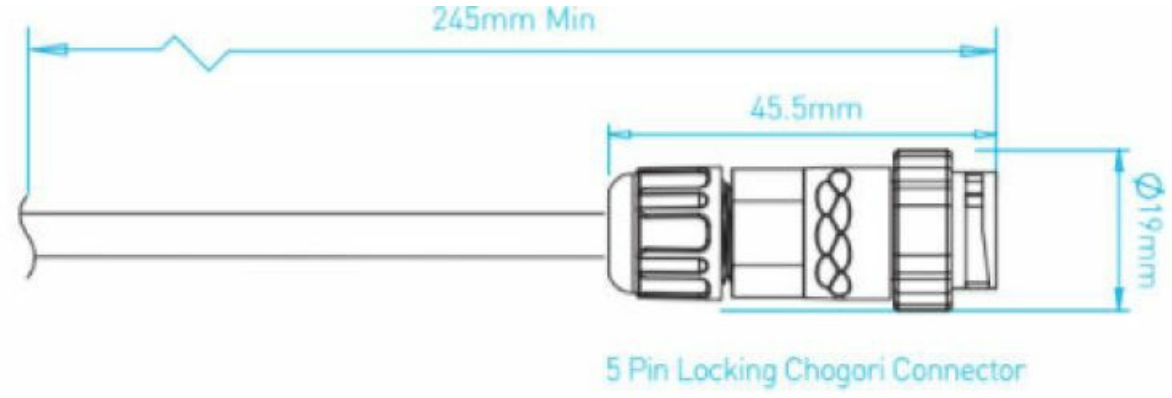
- Ultra-compact design < 130mm (5 inches) long
- Class 2, low-voltage 12-24VDC input (DO NOT HOT PLUG)
- 25-40° beam angle with adjustable zoom and focus lenses
- 3000K 90CRI LED source
- Tri-plane shutter system
- Accepts 19mm steel or glass gobo (up to 2mm thick)
- Non-dimming and DMX dimming options
- Machined aluminium body in silver or black finishes
- Track adapter and canopy mount available

Available Models

Item Number	Item Description
GP285	Gantom Juni DMX – Cool White – Black Finish – Pro Cable Connector
GP286	Gantom Juni DMX – Warm White – Black Finish – Pro Cable Connector
TL285	Gantom Juni DMX – Cool White – Black Finish – Eutrac Low Voltage Adapter
TL286	Gantom Juni DMX – Warm White – Black Finish – Eutrac Low Voltage Adapter

POWER AND WIRING REQUIREMENTS

The Gantom Juni DMX has a maximum wattage of 11W and an operating voltage range of 12-24VDC. The Gantom Juni DMX includes a single locking connector that combines both power and data into one compact cable. This connector is compatible with our Gantom Pro Cable System, including our G8 Power/Data Distribution Box. A single cable for power and data greatly simplifies installation and the locking connector gives a secure connection for long-term use. This makes the Gantom Pro Cable System ideal for permanent installations. For more information on this system, please visit **https://www.gantom.com/accessories/gantom-pro-cable/**.



BARE WIRE PINOUT		
Power	+	RED
	–	BLUE
DMX signal	D+	GREEN
	D-	YELLOW
	COM	BLACK

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 are more than double 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.

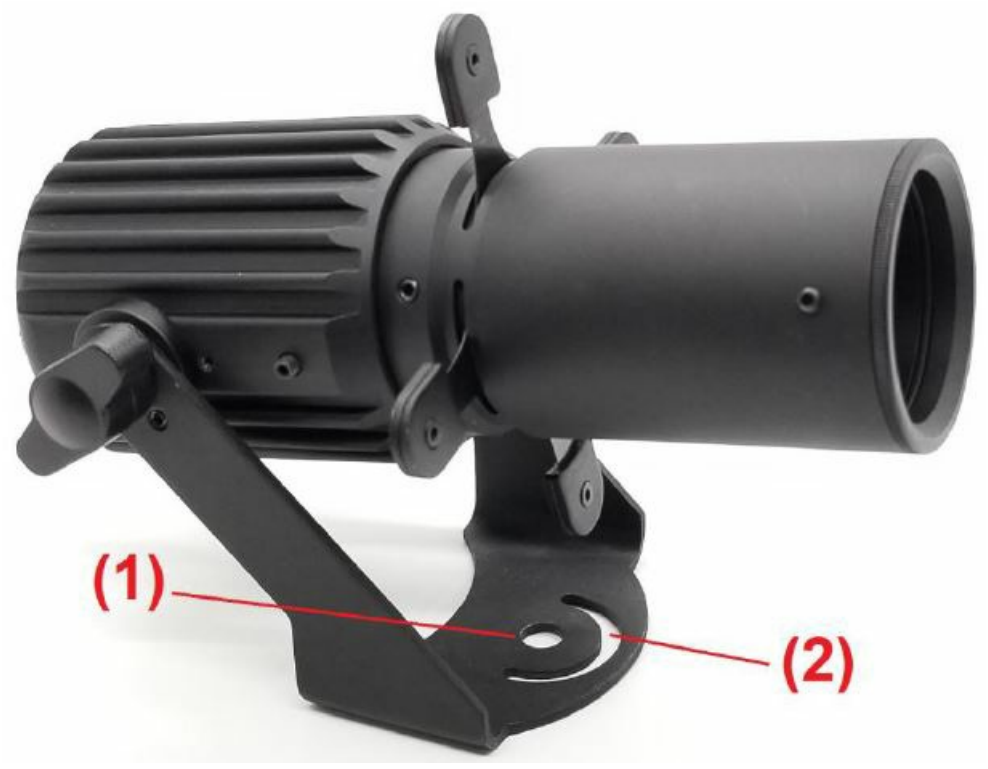
Safety and Operation notes

Please carefully review the following safety notes regarding the Gantom Juni micro gobo projector.
These notes are important for the 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 damaged or crimped cables before use.
- Make sure that your circuit is properly grounded and that 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 centre 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 aim of the fixture. The fixture is adjustable in the

following ways:

- 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.

GOBO INSTALLATION

A gobo can be a great way to add texture and dimension to your application. The Gantom Juni DMX 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-colour glass gobos are available to fit the Gantom Juni DMX. Custom stainless steel and full-color glass gobos are available through Rosco. Please see **http://www.rosco.com/gobos/** for more information on how you can order your own.
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.

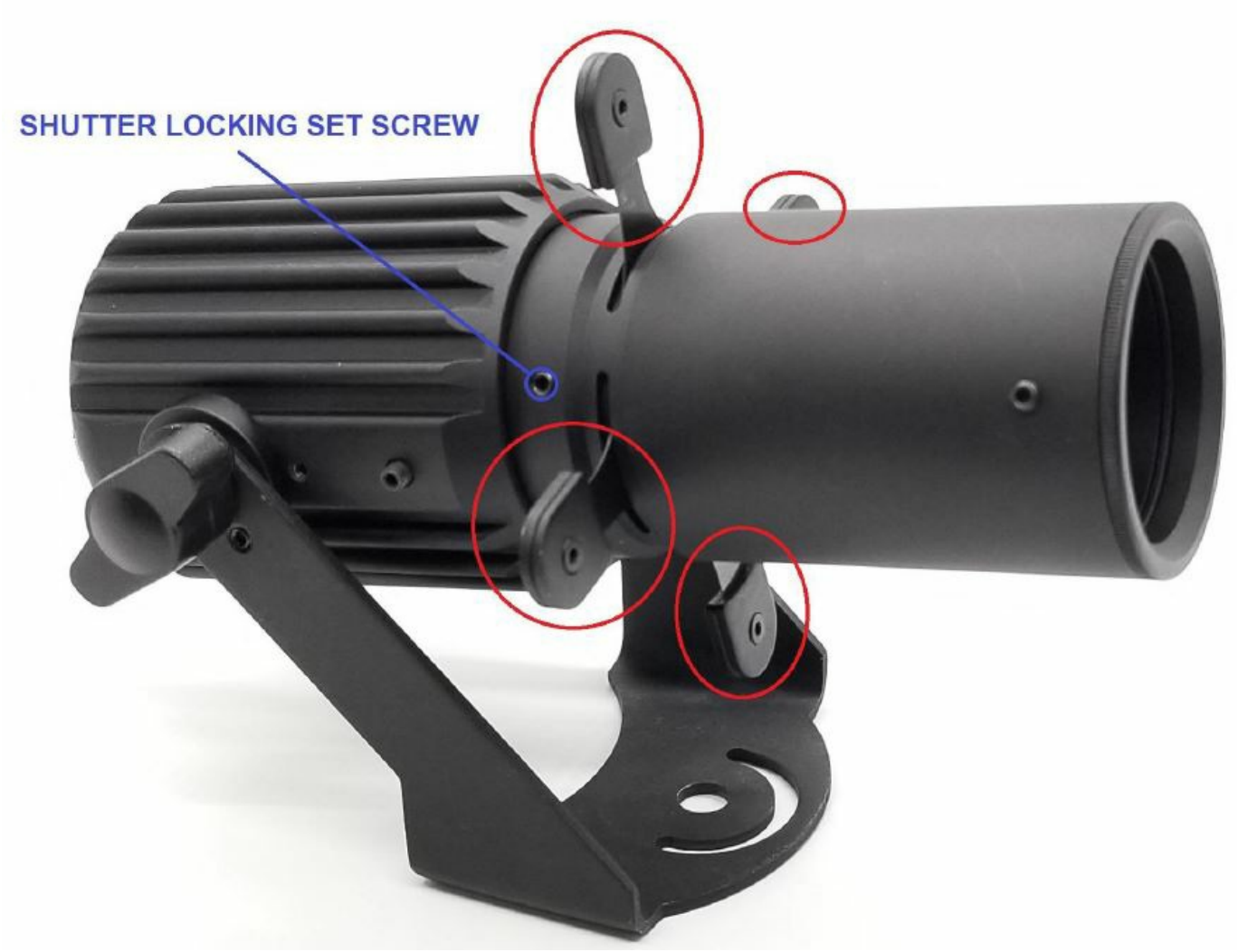
- Insert your gobo slide into the gobo retention hole, it should rest easily on a ledge that is inside the hole.

- 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, and then reattach the lens tube cover.

SHUTTER ADJUSTMENT AND LOCKING

- The Gantom Juni DMX features 4 independently adjustable framing shutters which are perfect for creating rectangles, triangles, 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 that 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 needs to be tightened to lock the shutters in place.

SHUTTER ADJUSTMENTS



INSTALLING ACCESSORIES

The Gantom Juni DMX has a retention ring on the front for holding a polycarbonate lens shield, an angled cutaway snoot, or a top hat accessory for shielding the light source from view is available for the Gantom Juni (FA38 – fixture accessory pack).
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.

CONFIGURING THE GANTOM JUNI DMX

Due to its compact size, the Gantom Juni DMX cannot use a physical DIP switch for addressing. Instead, the Gantom Juni DMX is programmed using the DMX Programmer App by Gantom or by using the DarkBox Programmer V2 programming device (part# DB32, pictured right). In addition to setting the DMX starting address for the fixture, this will allow you to save a default colour and brightness for the fixture if the application does not require any DMX control.

Configuring light fixtures with the DarkBox Programmer V2 Device

For details on how to configure your fixture using the DarkBox Programmer V2, please consult the user guide for that product. The DarkBox Programmer V2 device is the easiest and most reliable way to configure Gantom fixtures and is the preferred option when available.

Configuring the light fixture with the DMX Programmer App

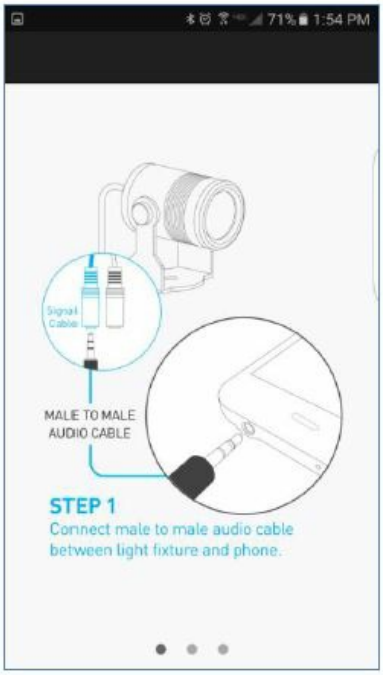
When the DarkBox Programmer V2 standalone programming device is unavailable, it is also possible to configure the settings of the device using our free app for iOS and Android devices.

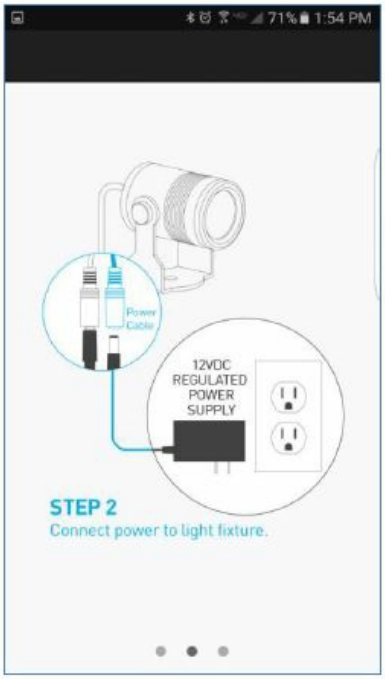
What you need

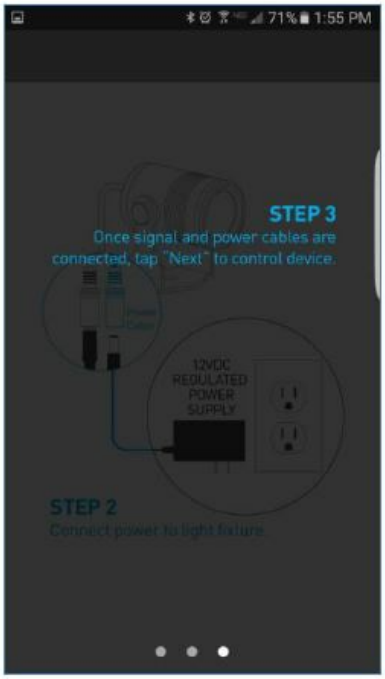
- A CB107 Pro Cable Programming Adapter
- An Android or iOS device for running the Gantom Programmer app. Please note that a headphone port is required to connect the device to the fixture. The iPhone 7 does work, but you will need to use the headphone port adapter that is included with the phone.
- A male-to-male 3.5mm audio 3.5mm cable. This is the same type of cable that you would use to connect your Android or iOS device to headphones or an AUX port.
- Power supply for the fixture. All Gantom fixtures accept 12v DC power. We recommend using one of our PowerPak Mini units if you are just going to power a single fixture.
- The free DMX Programmer app by Gantom. This can be found by searching “Gantom” in iTunes for an Apple device or Google Play for an Android device

First, open the DMX Programmer app by Gantom. The app will open to the screen you see here.

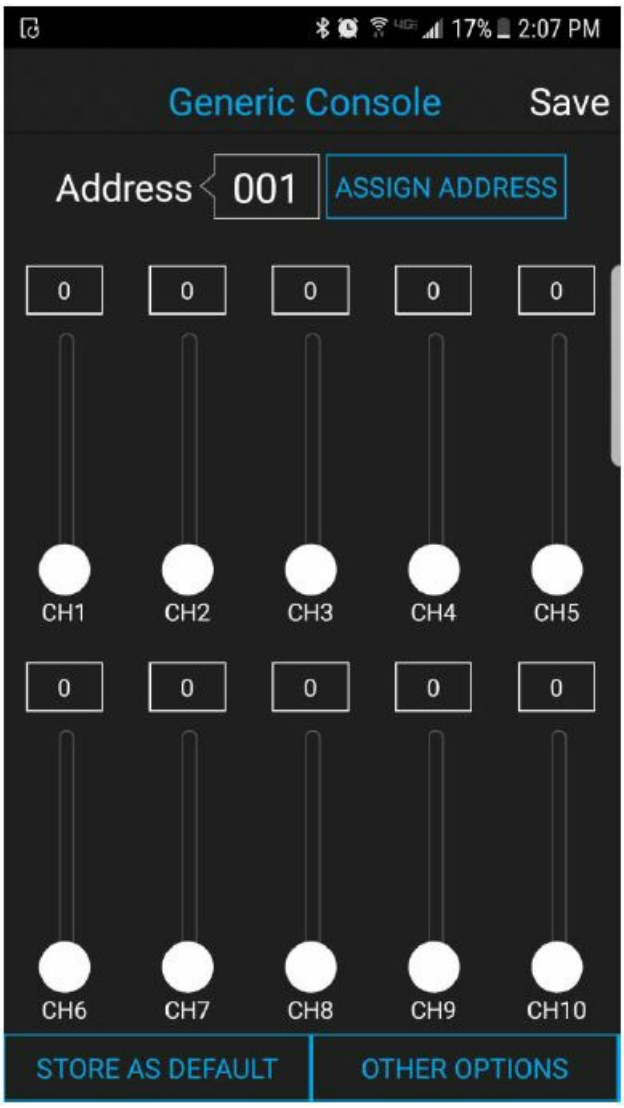
From this screen, select Generic Console. (note: a Gantom Juni DMX menu option may be added to the app at a later date)
The app will then provide you instructions on how to connect the light fixture to the tablet or smartphone. Please note the order in which the cables should be connected. First, connect the headphone cable to the light fixture and the tablet/smartphone. Next, connect the power to the fixture. When prompted by the app, tap the “Next” button and you will be taken to the control screen.







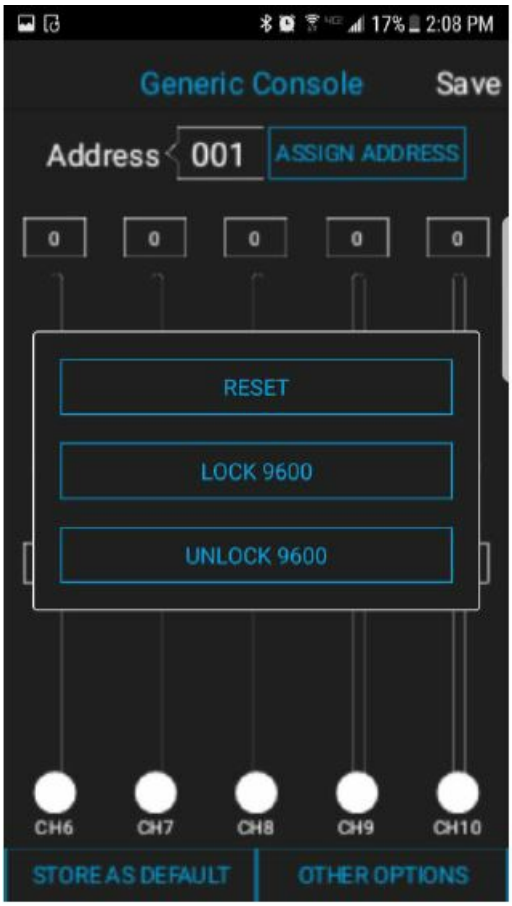
CONTROL SCREEN



- Address – This box shows the address that will be assigned to the fixture if you hit the “Assign Address” button
- Assign Address – Hitting this button will assign the selected address to the fixture. The light fixture should blink in response to having a new address assigned.
- Save button – this will allow you to save a settings profile into the app. Use this if you need to configure many fixtures to have the same settings. Please note that this button DOES NOT save the current profile or address to the fixture.
- Console Sliders – These sliders allow you to set intensity levels for each channel. Only the CH1 slider will work with the Gantom Juni DMX
- Store as Default – hitting this will save the current colour and brightness to be the default state for the light when it turns on. If the light does not see
- DMX signal when it is powered on, will go to this state.

OTHER OPTIONS SCREEN

If you hit the “Other Options” button on the control screen, the following menu appears:



- Reset – selecting this will reset the fixture to its default factory settings. Do this if you are running into programming issues.
- Toggle Silent Bootup – By default, the fixture will flash to report its DMX address when it is powered on. tapping the “Toggle Silent Bootup” option will turn address reporting at startup on or off.
- Lock/Unlock 9600 – The Gantom Juni DMX fixture can listen to either a standard DMX signal OR to the special control signal that comes from the app. Lock 9600 will turn OFF the fixture’s ability to listen to DMX and ONLY allow it to be controlled through the app interface. For most applications, it is recommended that you keep “UNLOCK 9600” selected.

BOOT SEQUENCE FLASHING

When the fixture first receives power, before it enters normal operation, it will first report its channel mapping profile and second report its DMX address through a sequence of flashes.
By default, the DMX starting address will be 1. The Gantom Juni DMX will flash several times when it is powered on to indicate its starting address. If the Gantom Juni DMX is assigned to address 245 it will report its address by flashing 2 times, pausing briefly, then flashing 4 times, pausing briefly, then flashing 5 times. If it is assigned to DMX address 038, it will flash 3 times, pause briefly, then flash 8 times TURN OFF/ON boot sequence flashing: You may not want your fixture to report its channel mapping profile and address every time it receives power. To toggle the boot sequence flashes on/off, follow these steps. With the fixture connected to the DMX Programmer App, select the “Generic Console” profile. Once the control screen appears, power cycle the Gantom Juni DMX. Next, tap the “Other Options”, then tap the “Toggle Silent Bootup” button. The light should blink to indicate that it has received this new setting.

STANDALONE OPERATION

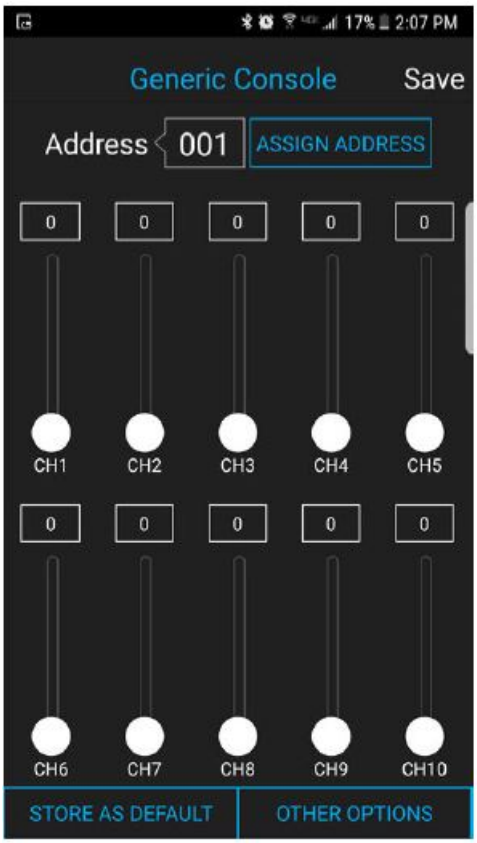
Some applications may not require live DMX control. To configure your Gantom Juni DMX for standalone operation, all you must do is use the CH1 slider on the Generic Console control screen to set the desired intensity

level. Once the light has the desired output, tap the “STORE AS DEFAULT” button at the lower left portion of the screen to save this setting directly into the light fixture. Now, when the light fixture receives power it will automatically go to this newly saved DEFAULT setting once its boot sequence is complete. Please note that if the DMX signal is passed to the fixture while it is operating in standalone mode, the DMX signal will override the standalone setting.

DMX CONTROLLED OPERATION

The Storm Form DMX was designed for use with standard DMX512 control systems. The Gantom Juni DMX occupies a single DMX channel and can be given any DMX starting address from 1-512. Please note that the Gantom Juni DMX does not feature any RDM functionality.

ADDRESSING YOUR FIXTURE



- To set the DMX address, first connect the Gantom Juni DMX to the DMX Programmer app by Gantom as was outlined earlier in this document. With the Generic Console control screen open, you should have full control of the fixture using the CH1 slider. If the light fixture is connected to the app but is not responding, try power cycling the light fixture.
- Once you have verified that the light fixture is responding to the control signal from the app, tap the number field next to the word “Address”.
- A new screen will pop up, prompting you to enter a DMX address.
- After you enter your desired DMX address, the app will return to the Generic Console screen. Finally, you must hit the ASSIGN ADDRESS button to save the new address into the fixture. Hitting the “Save” button will not save anything to the light fixture’s memory.

DMX CHANNEL MAPPING

DMX Channel Descriptions			
Channel	**Name**	**Level**	**Description**
Ch 1	Brightness Level	0-255	Dim to bright

Product Support
We hope that this guide has been effective in 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.

Documents / Resources

	**Gantom GP285 Juni DMX** [pdf] User Guide GP285 Juni DMX, GP285, Juni DMX, DMX

References

- **Gobos | Rosco**
- **User Manual**