

# GANTOM ONE AND GANTOM ONE DMX

## USER GUIDE



Compact, powerful, versatile... this is the One. Gantom listened to some of the most skilled lighting professionals in the industry and based on their input designed the One; the pinspot to rule all pinspots. Compared to a traditional 30W pinspot the One runs cooler and safer on far less power, has much cleaner optics, and can even be run on batteries. The Gantom One includes an integrated, easy to use magnetic accessory mounting system. Choose from an almost infinite array of color filters and diffusers to achieve any effect you desire, then install the perfect option without tools or hassle. Now available in a fully DMX controllable version The Gantom One DMX is configured using our DMX Programmer app, which is available free for Apple and Android devices, or using our DarkBox Programmer standalone programming device.

### Features

- Ultra narrow beam optics for optimal long distance throw
- Magnetic accessory attachment for filters and diffusers
- Integrated DMX version available
- DMX address or standalone state configured via DMX Programmer app
- Low voltage and minimal heat for improved safety over incandescent sources
- Exceeds output of traditional 30W pinspots while using only 4.8W
- Internal constant current driver gives highly efficient and consistent output.
- Minimal maintenance required with over 50,000 hour lamp life.

### Available Models:

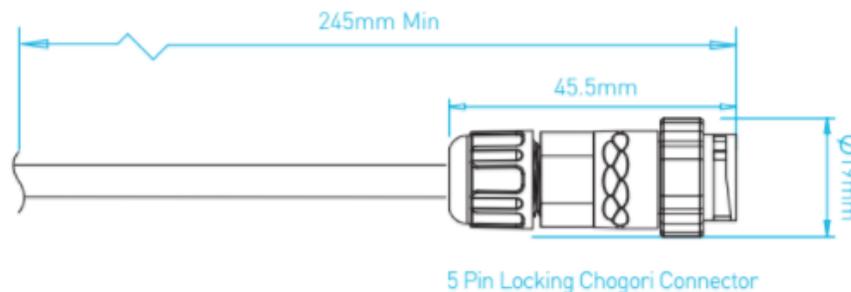
PRODUCT NAME	LED COLOR	DMX CHANNELS	ITEM NUMBER
Gantom One	Cool White (6500K)	NA	GT51
	Warm White (3000K)	NA	GT52
	Ultraviolet (395nm)	NA	GT53
Gantom One DMX – Pro Cable Connector	Cool White (6500K)	1	GP255
	Warm White (3000K)	1	GP256
	Ultraviolet (395nm)	1	GP257

## POWER AND WIRING REQUIREMENTS

The Gantom One and Gantom One DMX have a maximum wattage of 4.8W and an operating voltage range of 12-24VDC.

The Gantom One has a standard 2.1mm barrel jack commonly used on low voltage power supplies. Also included are screw terminal connectors for wiring bare wires to the fixture

The Gantom One DMX includes a single locking connector which 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.**

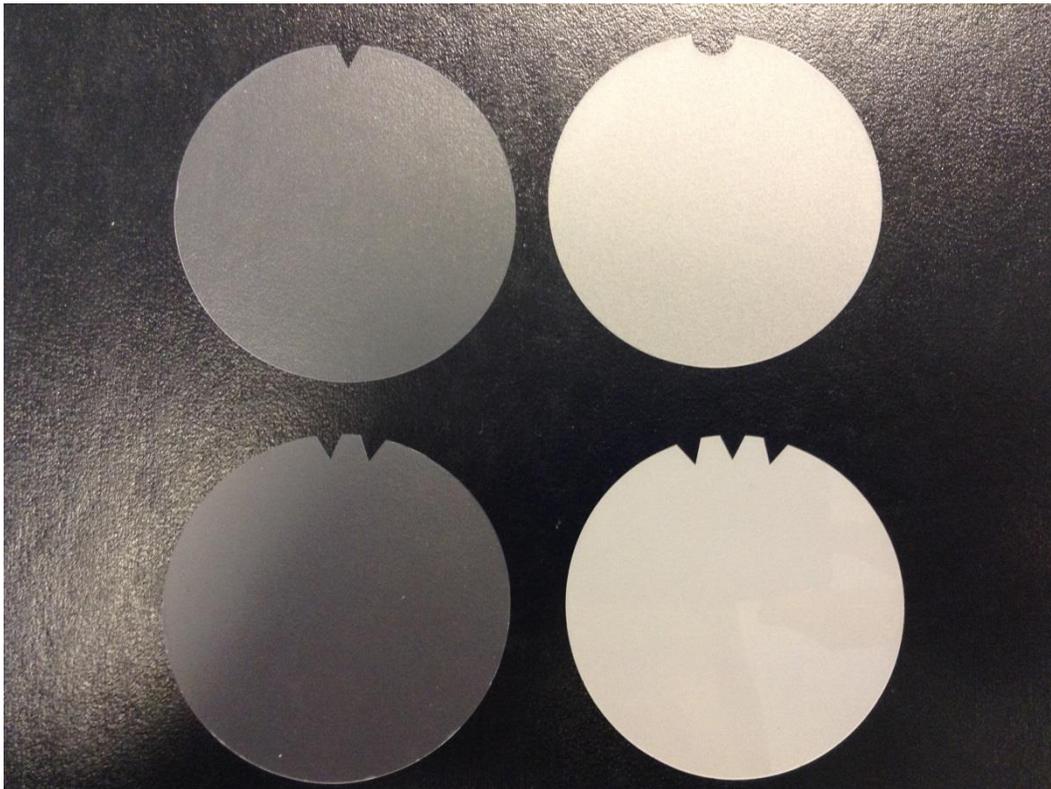
Hot plugging a fixture into a system with a running power supply will increase the load on the power supply, which can generate voltage spikes that more than double of the standard input voltage. This causes an out-of-spec and out-of-warranty voltage condition which may result in damage to the fixture. 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.**

## BEAM SHAPING DIFFUSERS

The Gantom One and Gantom One DMX have an ultra-narrow beam angle of 2.7° and field angle of 4.5°. For increasing the width of the beam, included with each Gantom One and Gantom One DMX is a set of Brightview diffusers which are pre-cut to fit the fixture. Also included is a magnetic ring which can be used to attach the diffusers to the face of the light fixture. Each diffuser is marked by having notches cut into the outside of it. The diffusers are described in the following table:

Notches	Description	Brightview part number	Beam Angle of Fixture With Diffuser	
			diffuser facing inward	diffuser facing outward
1 V notch	Symmetric diffuser (Narrow, 60 mm diameter)	C-HE10	9.6°	9.8°
2 V notch	Symmetric diffuser (Medium, 60 mm diameter)	C-HE30	25°	30°
3 V notch	Symmetric diffuser (Wide, 60 mm diameter)	C-HE80	33°	72°
1 U notch	Elliptical diffuser (Asymmetric, 60 mm diameter)	E-1560	Beam is 4x longer than its width	



## CONFIGURING THE GANTOM ONE DMX

Due to its compact size, the Gantom One DMX cannot use a physical DIP switch for addressing. Instead, the Gantom One 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 color 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.

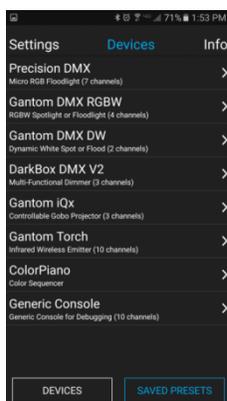
### Configuring the light fixture with the DMX Programmer App:

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:

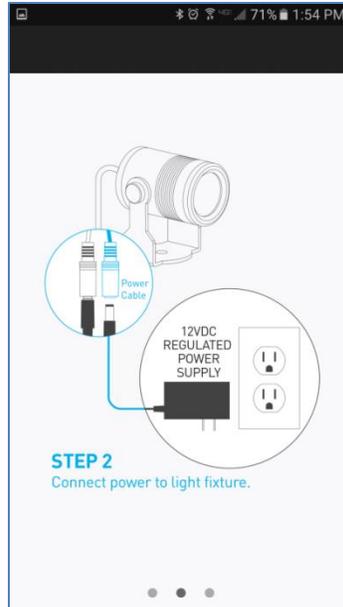
- A CB107 Pro Cable Programming Adapter
- An Android or iOS device for running the Gantom Programmer app. Please note that a headphone port is required to connect to the device to the fixture. The iPhone7 does work with, but you will need to use the headphone port adapter that is included with the phone.
- 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 to 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.

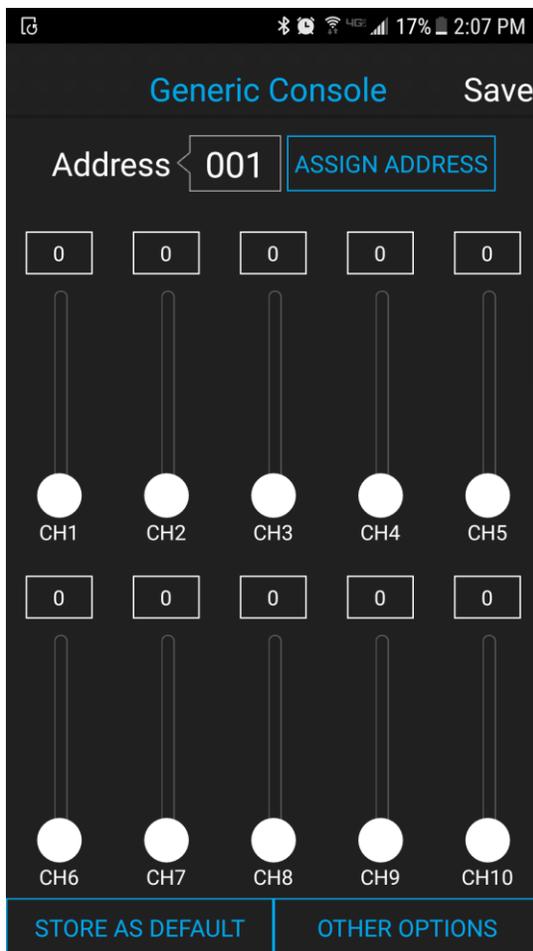


From this screen, select **Generic Console**. (note: a Gantom One DMX menu option will be added to the app at a later date)

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 to 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.



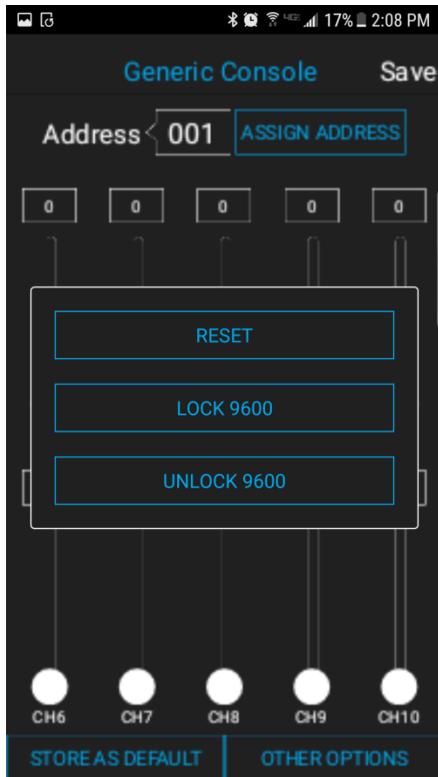
## CONTROL SCREEN



- **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 exact 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 One DMX
- **Store as Default** – hitting this will save the current color 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, it 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 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 One DMX will flash several times when it is powered on to indicate its starting address. If the Gantom One 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. In order 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 One 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.

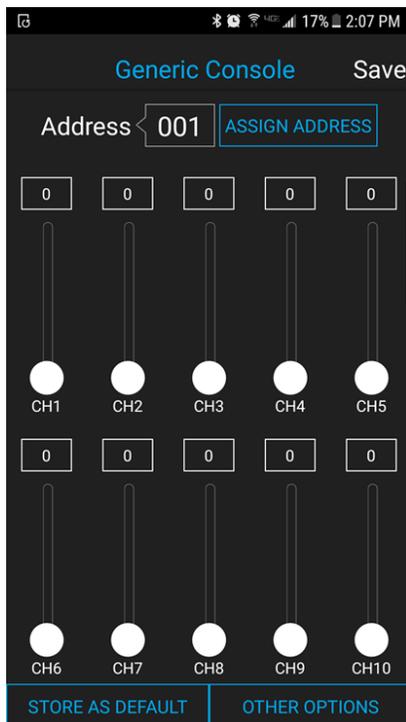
## STANDALONE OPERATION

Some applications may not require live DMX control. In order to configure your Gantom One 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 it’s boot sequence is complete. Please note that if 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 Gantom One DMX was designed for use with standard DMX512 control systems. The Gantom One DMX occupies a single DMX channel and can be given any DMX starting address from 1-512. Please note that the Gantom One DMX does not feature any RDM functionality.

## ADDRESSING YOUR FIXTURE



To set the DMX address, first connect the Gantom One 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 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 in order 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 for learning how to use your Gantom One or Gantom One 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](mailto:Support@GANTOM.com) and we will get back to you as soon as possible.