



SOFTWARE VERSION 1.12

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# OHM™ LIGHT

## USER MANUAL

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OHM™ Light User Manual

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## IMPORTANT INFORMATION

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### Safety Information

The symbols below are used throughout this manual to identify important safety information.

Heed all warnings and safety information.

SYMBOL	MEANING
	<b>Warning, Danger or Caution</b> Risk of injury to yourself or the product.
	<b>Risk of Electrical Shock</b> Risk of severe electrical shock.
	<b>Risk of Electrical Shock. No serviceable parts inside.</b> Observe all local and national electrical and environmental codes. The socket-outlet shall be installed near the equipment and shall be easily accessible.

### Changes

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### Measuring Correlated Color Temperature (CCT)

The OHM Light utilizes an LED source that is optimized for the film, TV, and image capture industries. Current color meters cannot be used to accurately read the correlated color temperature (CCT) of OHM and other discontinuous-spectrum light sources.

Color meters in use today are designed for a full spectrum source such as incandescent lights. These meters possess only 3 sensors to measure the light output: red, green, and blue. As such, a narrow band light source, such as OHM may not read correctly.

PRG and Gekko Technology have taken great care in ensuring that the CCT of the light emanating from OHM matches traditional light sources. This allows you to easily place OHM alongside your traditional lighting fixtures.

If in any doubt, it is the users responsibility, as is customary, to shoot image capture tests when combining sources using different core technology such as HMI, florescent, tungsten or simple RGB LED fixtures to ensure compatibility.

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## INTRODUCTION

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### About This Manual

This manual provides installation, operation, and maintenance instructions for the OHM™ Light.

This manual applies to the following software versions:

- + MMI: 1.12
- + Driver Board: 1.08

Familiarizing yourself with this information will help you get the most out of your PRG product.

### Additional Documentation

For more information regarding DMX512 systems, refer to the DMX512/1990 & AMX 192 Standards publication available from United States Institute for Theatre Technology, Inc. (USITT).

USITT  
6443 Ridings Road  
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1-800-93USITT  
[www.usitt.org](http://www.usitt.org)



## Customer Service

For technical assistance, contact the PRG International Service Center or contact your nearest PRG office. Contact information for all PRG office locations can be found on our website at: [www.prg.com/about-us/locations/](http://www.prg.com/about-us/locations/)

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For additional resources and documentation, please visit our website at: [www.prg.com](http://www.prg.com)



## USER INSTRUCTIONS

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### General Notes

- 1) Please read through this manual carefully before operating the OHM Light. Keep this manual for future reference.
- 2) There are numerous safety instructions and warnings that must be adhered to for your own safety.
- 3) OHM is not intended for residential use. It is only intended for use in a professional studio.
- 4) OHM must only be serviced by a qualified individual.
- 5) OHM is rated as IP20 - for indoor use and in a dry environment.
- 6) OHM is not certified for use in hazardous locations.
- 7) OHM's operation temperature is within the range of 0 to +50°C (32 to 104°F).
- 8) Use only approved spare parts and accessories. (Refer to "[Spare Parts/Accessories](#)" on page 8.)

### Fixture Set Up

- 1) Read these safety instructions carefully to ensure OHM and accessories are used safely.
- 2) Ensure the 28mm Spigot or 12mm Lifting Eye is correctly mounted onto the yoke before rigging.
- 3) For an alternative method of hanging OHM, a Hanger Assembly is available as an accessory. Ensure this is correctly attached to OHM before rigging.
- 4) Always use a suitable length safety cable(s) when hanging OHM. (Safety cables are not provided.) The length should be as short as possible to reduce travel distance if the primary hanging accessory fails.
- 5) OHM weighs 32kg, excluding accessories. The combined weight should be considered when choosing a suitable safety cable(s).
- 6) The safety cable(s) must be securely attached to the designated slots on OHM (detailed on [page 9](#)).
- 7) Ensure that the yoke locking handle is correctly tightened when manipulating OHM in the required orientation for safety purposes. NOTE: if the locking handle is not tightened correctly, the fixture may swing.
- 8) Ensure the connection cables and any other cables are attached to the designated slots located on the yoke corners (detailed on [page 8](#)).
- 9) It is the user's responsibility to provide and wire their own power cable using the Neutrik power cable connector provided with OHM.
- 10) Ensure OHM is stored within the range of -20 to +60°C (-4 to 140°F).

### Ventilation

- 1) Do not cover air ventilation slots on OHM or the fixture may overheat.
- 2) Do not use OHM outdoors or in a wet environment.
- 3) Keep OHM a minimal distance of 0.1m away from flammable materials/objects.



## Additional Safety Considerations

- 1) Do not open OHM when the fixture is powered.
- 2) Allow OHM to cool before servicing, as internal parts may be hot.
- 3) Do not alter the design of OHM or tamper with any of the safety features.
- 4) Do not look directly into OHM's bare light source as it may be harmful to the eyes.
- 5) OHM reaches a maximum surface temperature of 85°C. Please ensure contact on the surface by persons or materials is avoided when the fixture is operating.
- 6) Do not operate OHM if there are any signs of physical damage. In case of damage, it is advised that you contact PRG service.
- 7) Before using OHM check for any of the following defects:

PART	POSSIBLE DEFECT
Optics	Physical damage, dull, burnt out
Power Cable	Physical damage, cut, burnt
Locking Handle	Physical damage, loose
Spigot/Lifting Eye	Physical damage, loose, crack/split
Hanger Assembly	Physical damage, loose lifting eye
Hanger Assembly - Cables/Carabiners	Physical damage, cut, frayed, carabiners loose or deformed
Safety Cable/s	Physical damage, cut,
Ventilation	Physical damage, covered
MMI	Physical damage, unrecognizable screen
Yoke	Physical damage, loose
Casing	Physical damage

## Cleaning

- 1) Clean optical front plate with suitable alcohol-based cleaner.

## Power Supply

- 1) Ensure the power cable is disconnected before servicing.
- 2) OHM only uses a mains connection. Do not connect to a variable supply, such as a dimmer rack or inverter.
- 3) The power cable should be plugged into OHM before switching the mains power supply ON. The mains power supply should be switched OFF before removing the power cable.

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**Note:** OHM has been built to conform to International regulatory standards relating to professional lighting equipment. Any modification made to OHM will void the manufacturers' warranty.

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# FIXTURE OVERVIEW

## OHM Components and Controls

OHM is a powerful light fixture that incorporates sixteen of Gekko's high quality, klee colour® LED arrays. This LED source provides the user with a large volume of white light at a stable and repeatable CCT, emulating traditional sources.

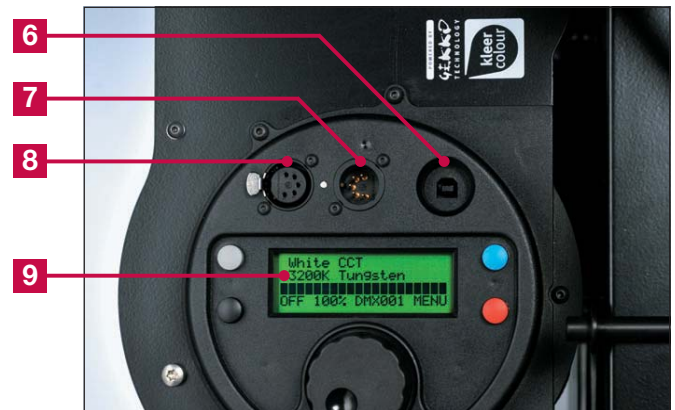
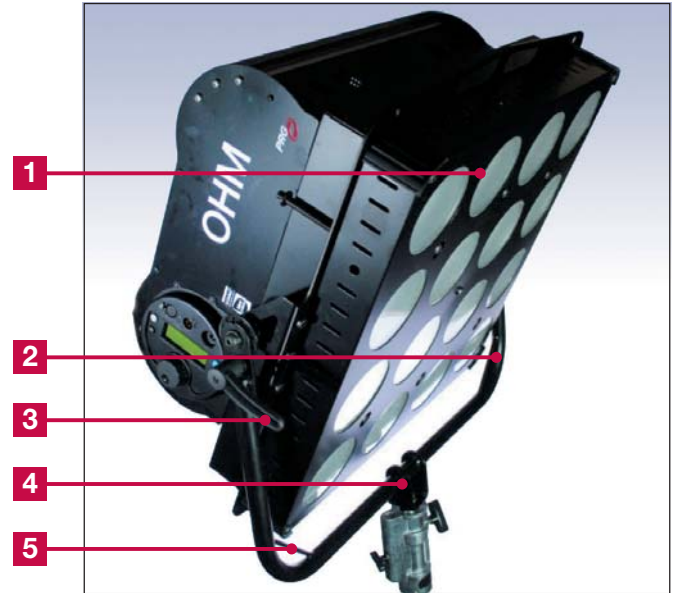
The OHM Light can be controlled via the MMI (Man-Machine Interface) attached to the side of the fixture, or via an external DMX512 that can communicate with the fixture through a control port located on the local controls.

### OHM Features:

- [1] Optics/LED Source
- [2] Yoke
- [3] Locking Handle
- [4] Spigot/Lifting Eye
- [5] Yoke Cable Slots
- [6] Comms Port
- [7] DMX In Port
- [8] DMX Thru Port
- [9] MMI (Man-Machine Interface)
- [10] Neutrik Power Cable Port

### MMI Controls for:

- + Color - CCT
- + Color - Gekko
- + DMX Address
- + DMX Mode
- + Information
- + Maintenance



## SPARE PARTS/ACCESSORIES

### Individual Parts List

The following is a list of PRG accessory and replacement parts available for OHM:

CODE	ITEM
<b>Complete Kits:</b>	
757-300100	PRG OHM Light Fixture
757-300110	PRG OHM Hanger Assembly (Four Cables Included)
<b>Mounting and Suspension:</b>	
757-300465	PRG OHM Spigot 28mm, Anti-Rotate w/Screw
757-300470	PRG OHM Lifting Eye, M12
757-300610	PRG OHM Hanger Frame
757-300615	PRG OHM Hanger Frame Cable

### Mounting Options

#### Yoke

- [1] **Locking Handle** - turning counter-clockwise loosens the yoke. Turning clockwise tightens the yoke.
- [2] **Cable Slots** - cables should be secured to these slots to ensure they do not come into contact with OHM housing.
- [3] **Spigot/Lifting Eye**
- [4] **Slots** - indicate rigging angle and are set to 30° increments.

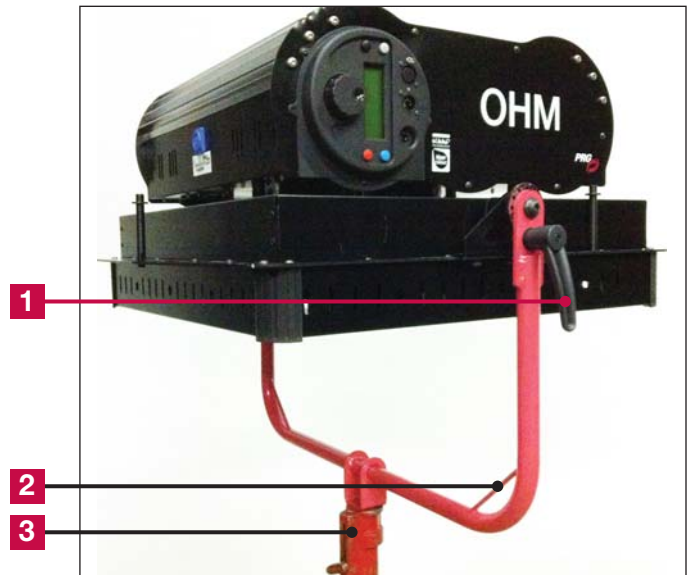
**Locking Handle Relocation:** continuously turning the locking handle counter-clockwise will loosen/remove the coach bolt **A**, washer **B** and locking handle **C**.

**CAUTION:** OHM will be free to rotate once the locking handle is removed. Please be careful when doing this.

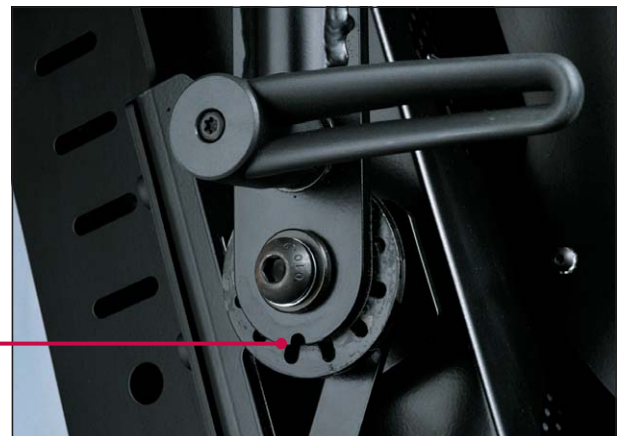
Once removed, the locking handle can be relocated to the other side of OHM for convenience. This can be done by ensuring the washer and locking handle are bolted onto the coach bolt from the outside.



**A** **B** **C**



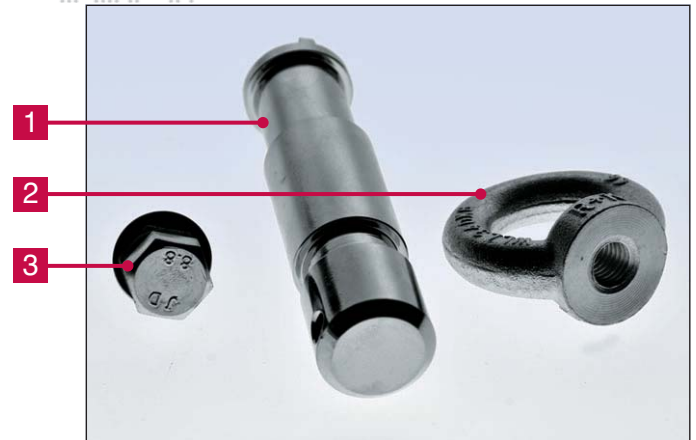
**4**



## Spigot/Lifting Eye

- [1] **28mm Spigot** - used to fix OHM into a 28mm receiver.
- [2] **M12 Lifting Eye** - used to hang OHM from a single point.
- [3] **M12 x 1.5mm, 25mm Long Bolt** - used to bolt either the Spigot or the Lifting Eye to OHM.

NOTE: tighten M12 bolt to 85Nm (63lbf).  
Use minimum 8.8 grade bolt.



## Hanger Assembly

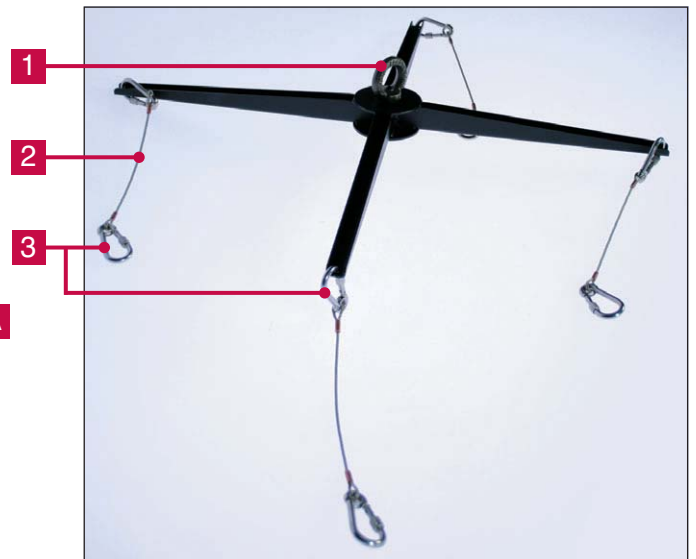
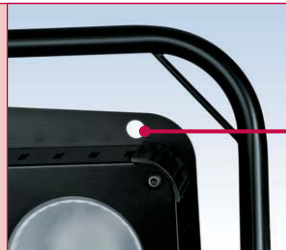
(Used to hang OHM from four points.)

- [1] **Mounted Lifting Eye**
- [2] **Four Cables**
- [3] **Carabiners**

Safe Rigging of the Hanger Assembly: ensure the four holes located in each corner of OHM **A** are the **ONLY** holes used to secure OHM to the Hanger Assembly.

Ensure the Carabiners are tightened correctly to secure the cables to OHM through the four holes.

Also ensure the Carabiners are used and tightened correctly to secure the cables to the hanger assembly through the four holes.

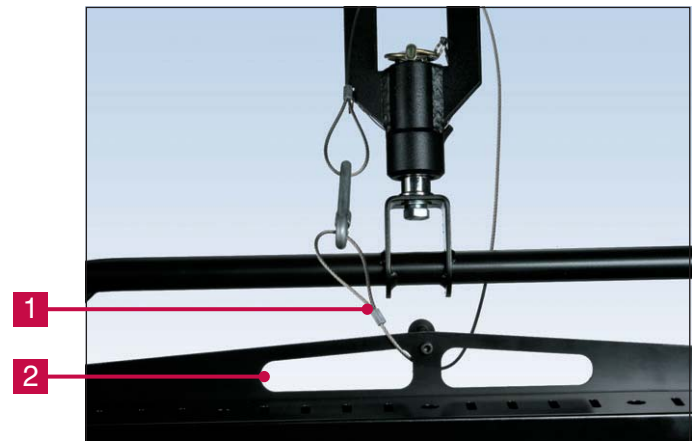


## Safety Cable (not provided)

- [1] **Safety Cable** - a minimum of one cable **MUST** be used when hanging OHM. The length should be as short as possible to reduce travel distance if the primary hanging accessory fails.
- [2] **Safety Cable Slots** - **MUST** be used to attach safety cable(s) by looping through (as shown).

Safe Use of Safety Cables: ensure the two oval holes located at the top of OHM **2** are the **ONLY** holes used to secure the safety cable(s).

Ensure safety cable(s) are capable of supporting the load exerted by OHM plus accessories.





## Powering Options

### Neutrik Power Cable Connector

OHM is fitted with a Neutrik PowerCon® NAC3 type connector. Use only Neutrik PowerCon NAC3FCA connectors.

It is the user's responsibility to provide and wire their own power cable using the Neutrik power cable connector provided with OHM.

#### To wire connector:

- Step 1. Slide bushing and chuck onto cable.
- Step 2. Prepare cable as shown in **Figure 1**.
- Step 3. Insert wire into terminals and fasten clamping device using slotted screwdriver.
- Step 4. Push insert and chuck into housing (pay attention to the guiding keyway!).
- Step 5. Fasten bushing by means of a fork wrench, 3/4" minimum. Torque 2.5 Nm (1.8 lb-ft).

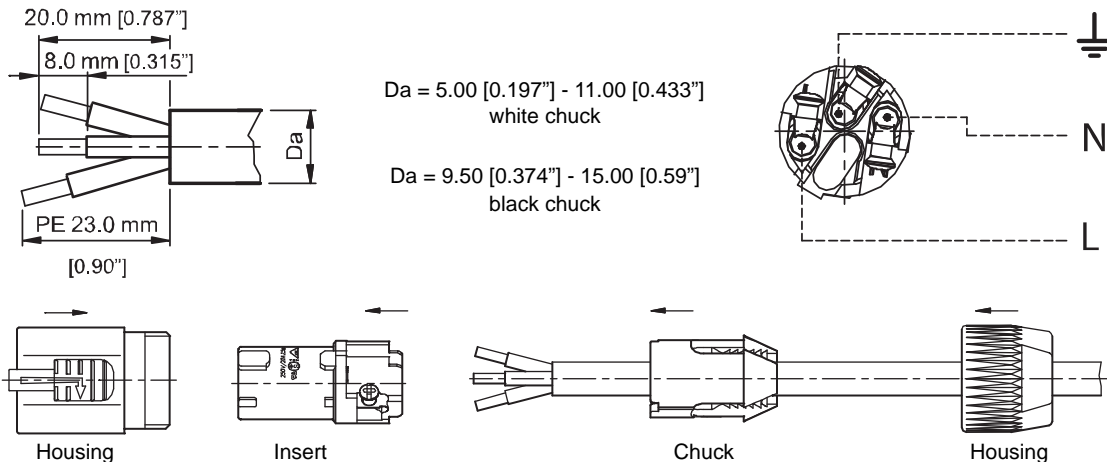
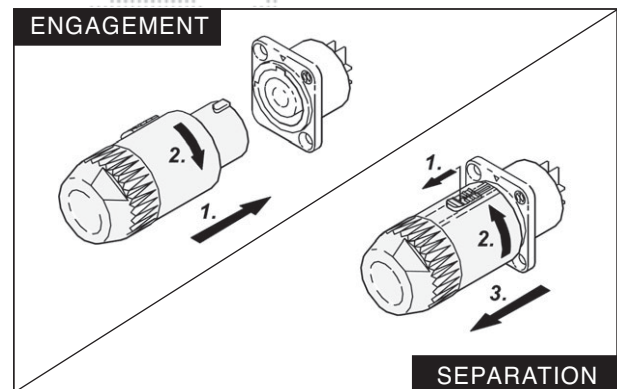


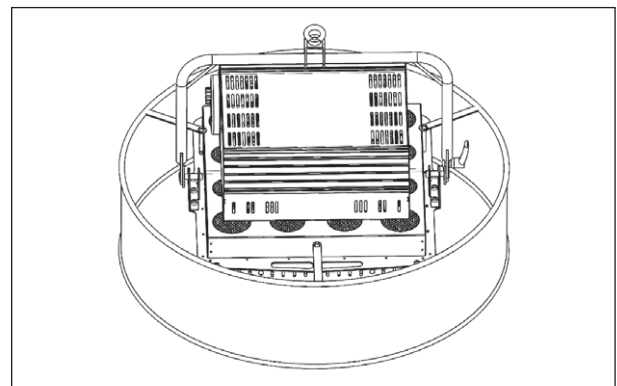
Figure 1: Neutrik Power Cable Wiring

## Accessory Options

**Note:** OHM-specific accessories are currently under development. Please contact your sales office for more info.

### Accessory Skirts

Standard Space Light accessory skirts may be used with OHM, if desired. These hang on the three accessory pillars mounted on the chassis of the fixture.



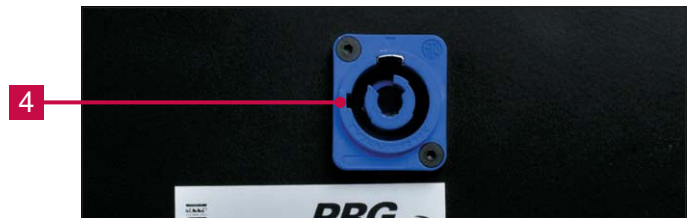
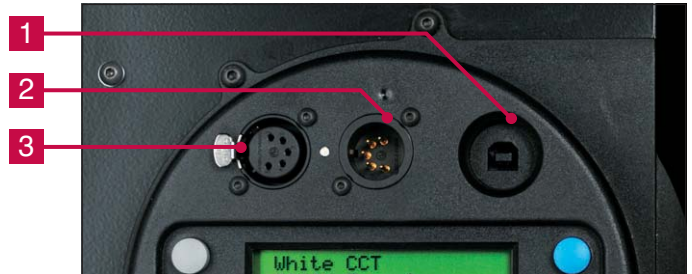
## OPERATION

OHM provides control over the Intensity and CCT (Correlated Color Temperature). These variables can be controlled directly from the MMI located on the side of the fixture, or via DMX.

### Connection Ports

Connections are as follows:

- [1] **Comms Port:** This port allows for software updates.
- [2] **DMX In:** Data in via DMX512 protocol.
- [3] **DMX Thru:** Data out via DMX512 protocol.
- [4] **Power In (AC):** The Neutrik power cable will connect to OHM via this port.



### DMX Connections

OHM uses industry standard 5-Pin XLR male and female connectors to receive DMX signals and output DMX signals. The DMX Pin wiring is as follows:

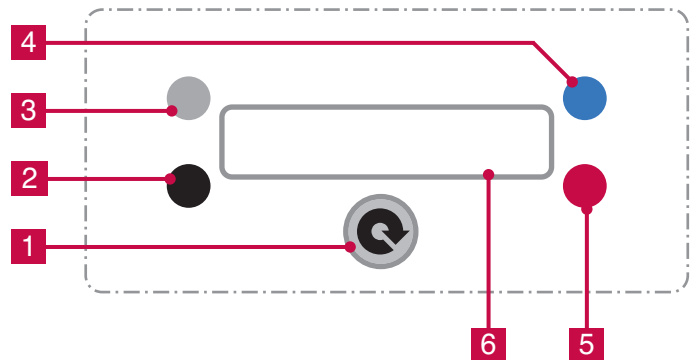
- + Pin 1: Ground
- + Pin 2: Data -
- + Pin 3: Data +
- + Pin 4: Spare
- + Pin 5: Spare

**Note:** OHM is self-terminating and does not require external DMX termination when used in a chain.

### MMI Controls

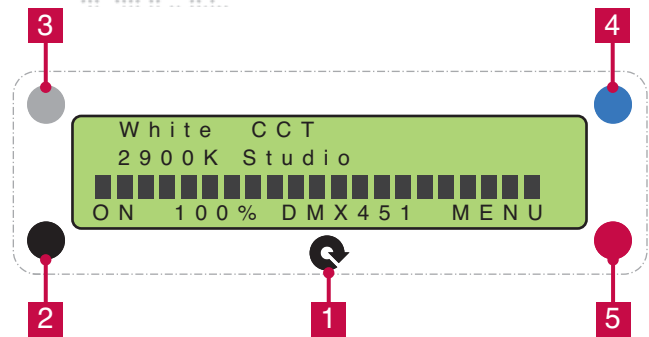
#### Functions:

- [1] **Rotary Knob:** Navigates forwards & backwards through the menus/pages and also used to alter values.
- [2] **Black Button:** Used to select and also turn light output ON or OFF.
- [3] **Grey Button:** Not required for use of OHM.
- [4] **Blue Button:** Currently disabled.
- [5] **Red Button:** Used to access the 1st level menus.
- [6] **Display Screen:** Displays menu options and status.



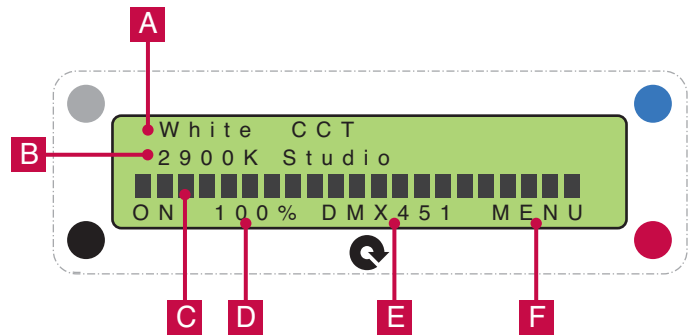
## Default Control Screen:

- [1] **Rotary Knob:** Alters the intensity of the set CCT from 0%-100%.
- [2] **Black Button:** Switches the light source OFF (NOTE: the MMI remains ON).
- [3] **Grey Button:** Currently disabled.
- [4] **Blue Button:** Currently disabled.
- [5] **Red Button:** Accesses the 1st level menus.



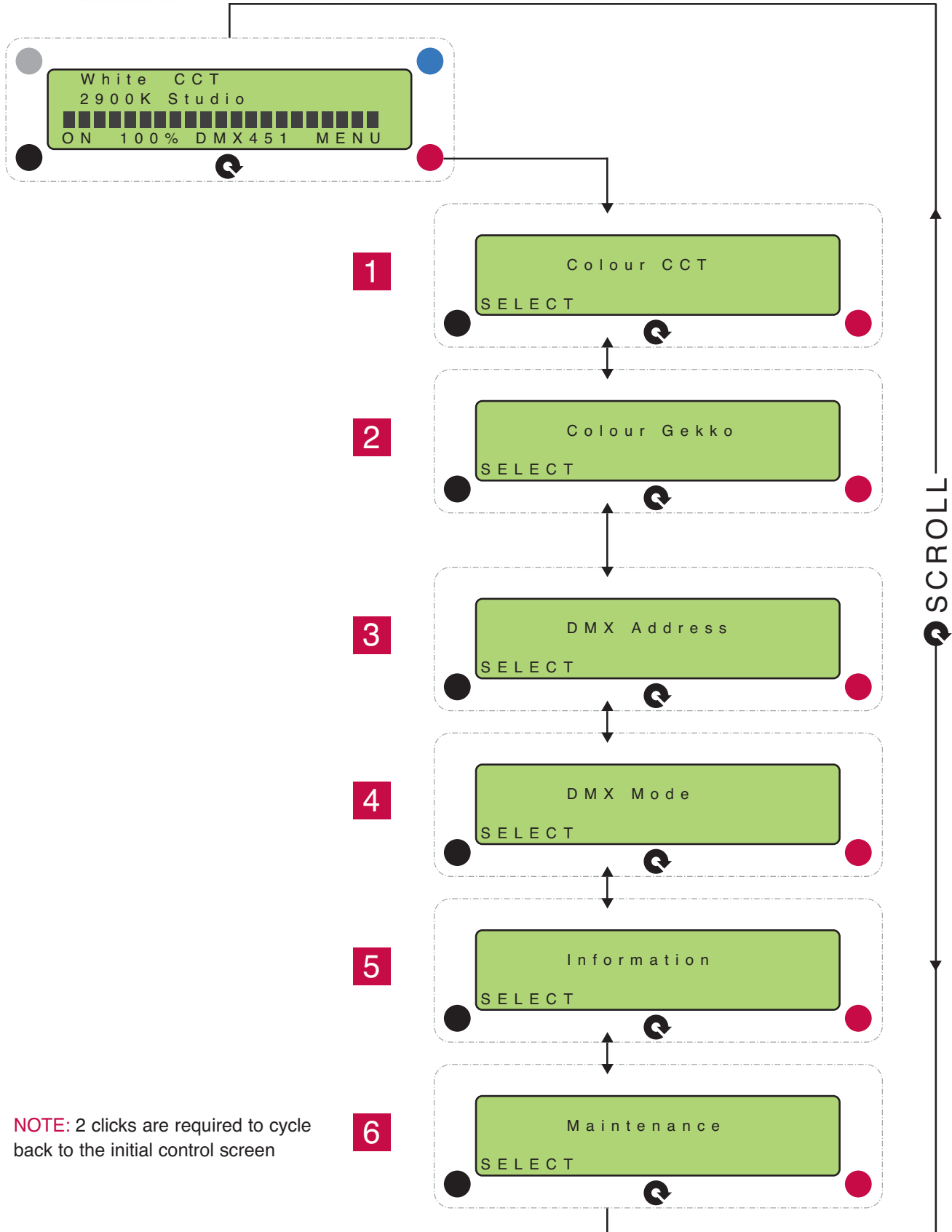
The Man-Machine Interface (MMI) consists of numerous menus that control the fixture. When powering OHM, the default control screen will become active on the MMI.

- [A] **CCT Title:** The 1st line indicates the set CCT.
- [B] **CCT Detail:** The 2nd line provides detail regarding the set CCT.
- [C] **Intensity Bar:** Visual representation of the current intensity setting.
- [D] **Intensity %:** Numerical representation of the current intensity setting.
- [E] **DMX Address:** Displays the current DMX Address set to the fixture.
- [F] **Button Description:** The corresponding function will be displayed next to the button on the screen. NOTE: If there is no text, this indicates the button has no function.



The MMI screen backlight activates on user interaction and deactivates after a few seconds.

# Navigation Through '1st Level' Menus

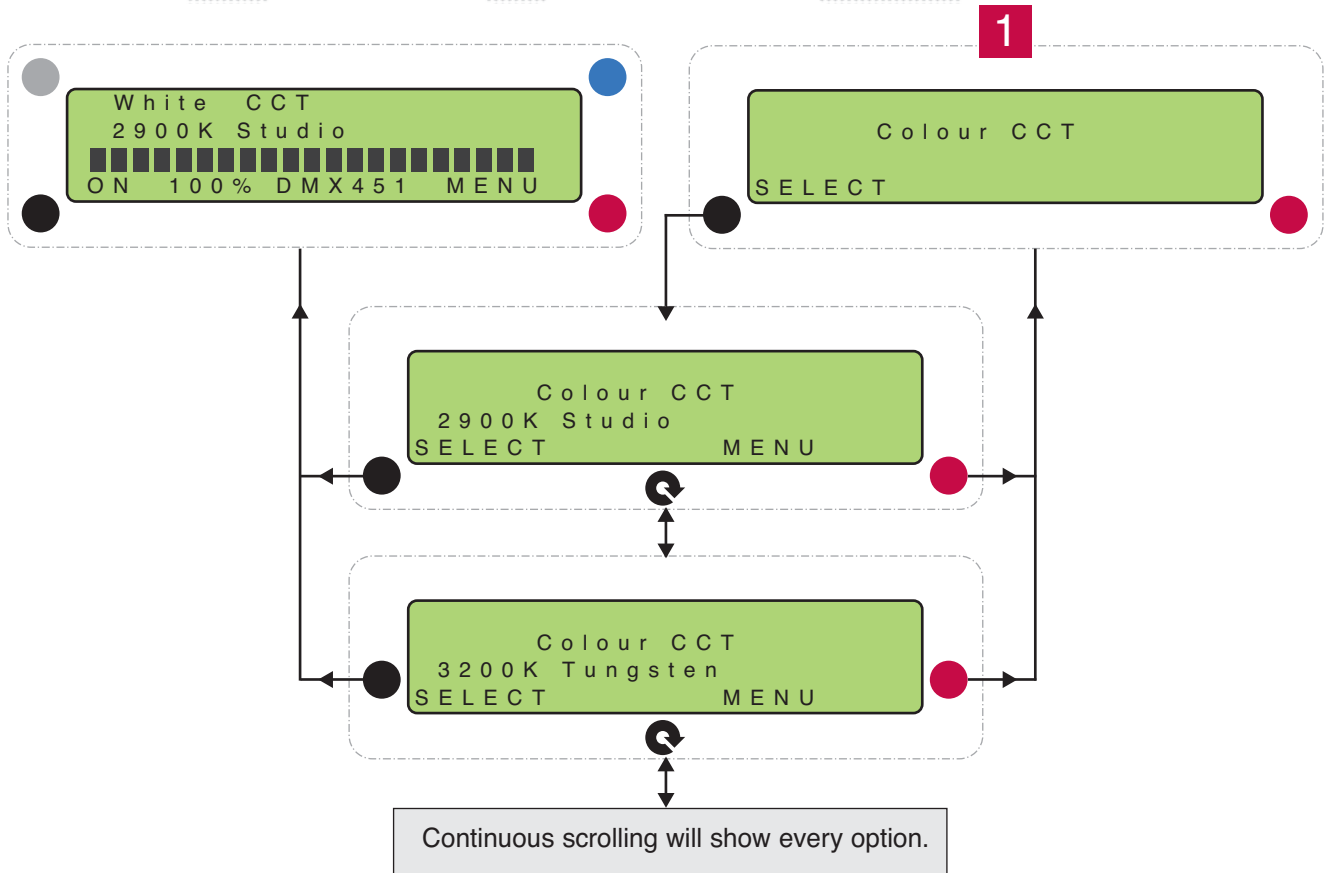


**NOTE:** 2 clicks are required to cycle back to the initial control screen

## Navigation Within 'Color CCT' Menu

Once the required CCT is selected, the corresponding control screen will open.

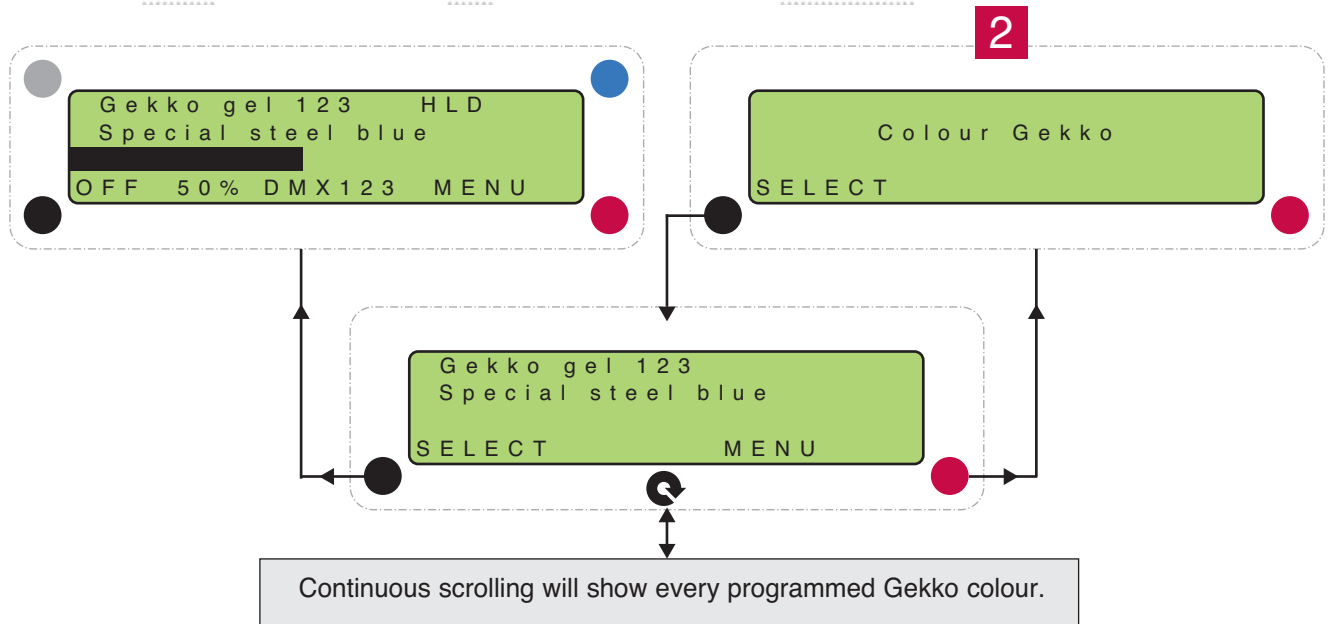
This example shows the 2900K CCT control screen.





### Navigation Within 'Color Gekko' Menu

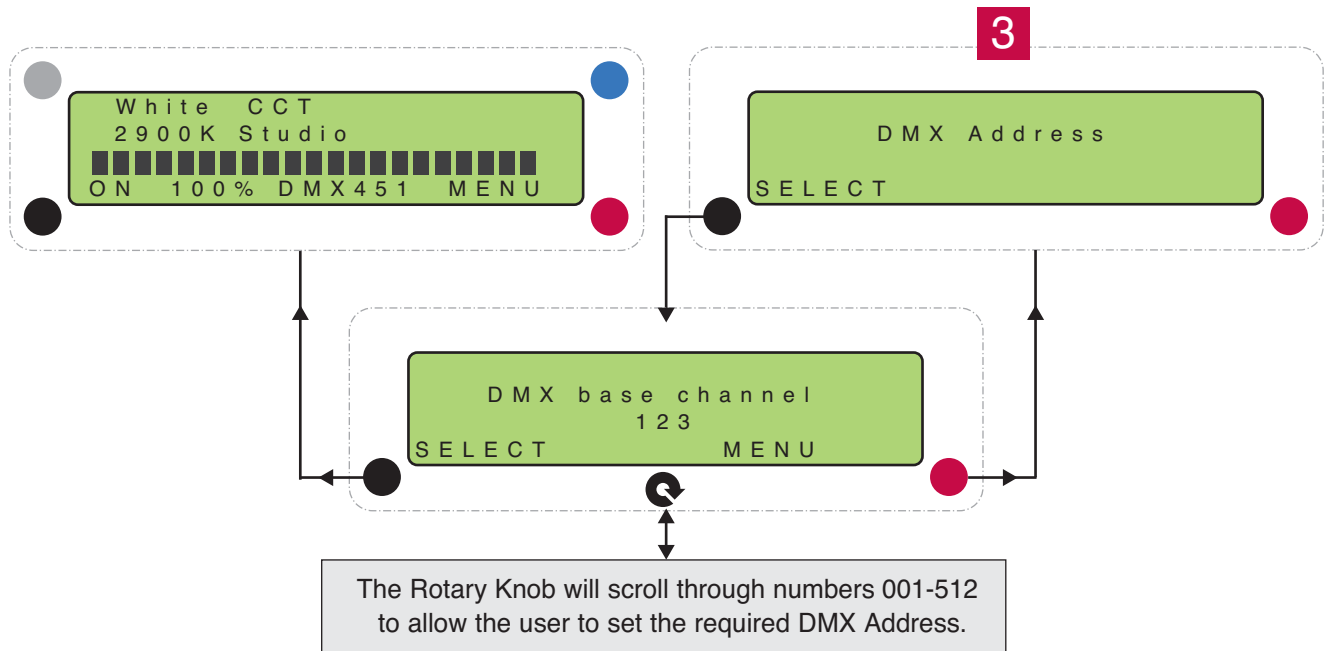
Once the required CCT is selected, the corresponding control screen will open.  
This example shows the 2900K CCT control screen.



**Note:** This menu is empty upon delivery of OHM. Contact PRG for Gekko kler colour bespoke colors.

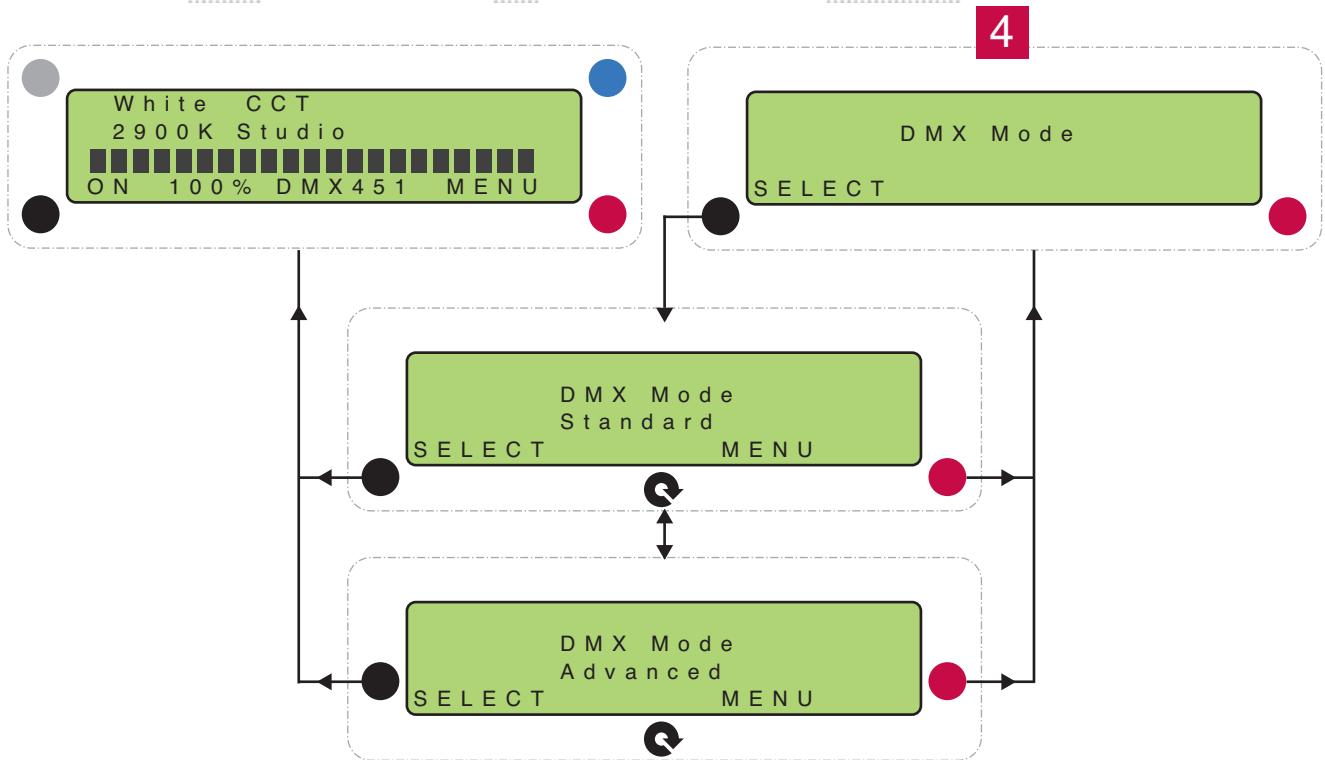
### Navigation Within 'DMX Address' Menu

Once the required DMX address is selected, the current control screen will re-open.  
This example shows the 2900K CCT control screen.



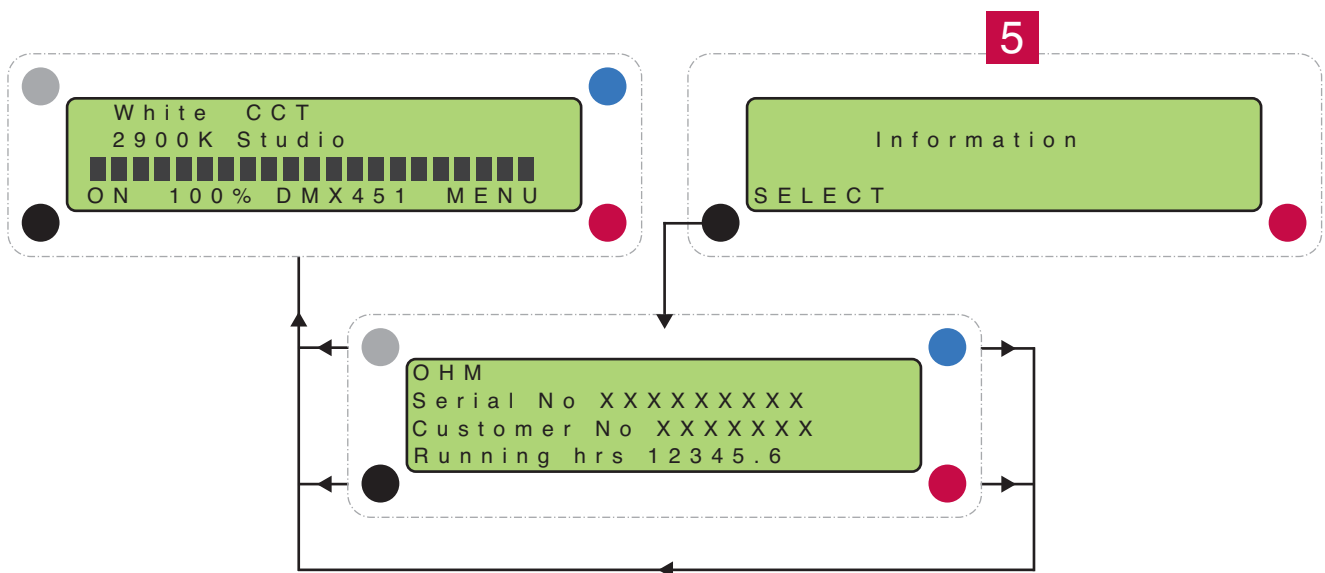
### Navigation Within 'DMX Mode' Menu

Once the required DMX Mode is selected, the current control screen will re-open.  
This example shows the 2900K CCT control screen.



### Navigation Within 'Information' Menu

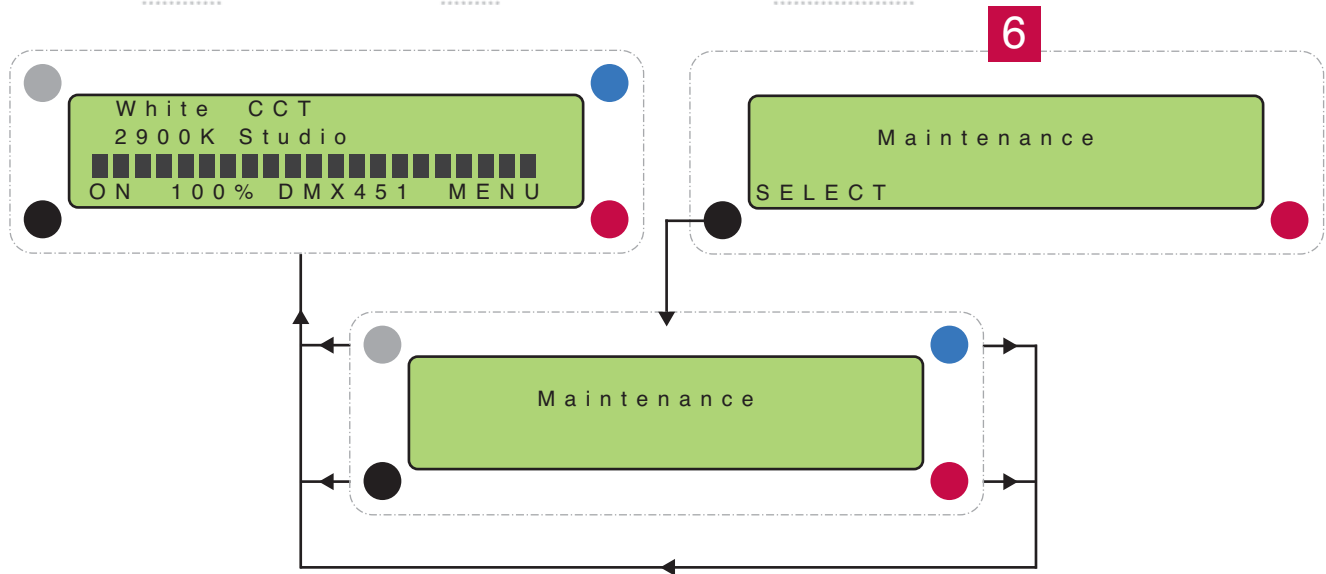
If any button is pressed, the current control screen will re-open.  
This example shows the 2900K CCT control screen.



## Navigation Within 'Maintenance' Menu

If any button is pressed, the current control screen will re-open.

This example shows the 2900K CCT control screen.



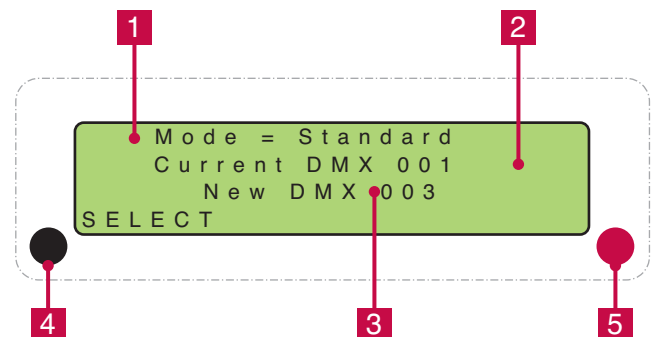
When the Maintenance option is selected, OHM functions in Maintenance Mode. This mode allows the connection to the internal electronics via use of the Communications Port. Software updates will be carried out when in this mode.

**Note:** When OHM is powered down via the mains, the MMI will switch OFF. When OHM is powered up, the fixture will remember the last MMI settings: **Intensity**, **CCT**, **DMX Mode** and **DMX Address**.

## DMX Controls

Once the DMX is connected to OHM via the 'DMX In' port, the fixture can be controlled by the DMX. The MMI will display the DMX control screen as shown below:

- [1] **DMX Mode Setting:** The 1st line displays current DMX Mode.
- [2] **Current DMX Address:** The 2nd line displays current DMX Address.
- [3] **New DMX Address:** The 3rd line displays a new DMX Address, should the user want to change the current DMX Address. The new address can be altered by using the Rotary Knob.
- [4] **Black Button:** Once the new DMX Address has been altered via use of the Rotary Knob, the user can confirm this change by selecting the Black Button. This will change the Current DMX Address to the value chosen in the New DMX Address.
- [5] **Red Button:** This button and all others remain inactive when connected to a DMX



Depending on the DMX Mode assigned through the MMI the DMX controls are as follows:

**OHM - 'Standard' DMX Control (2 Channels)**

- + DMX Channel 1 = Master Intensity (DMX value 0-255 = level 0-100%)
- + DMX Channel 2 = CCT Color Wheel:

	2900K	3200K	3600K	4300K	5000K	5600K	6500K
OHM DMX	0	37	75	110	146	182	218
	-	-	-	-	-	-	-
	36	74	109	145	181	217	255

**OHM - 'Advanced' DMX Control (10 Channels)**

- + DMX Channel 1 = Master Intensity (DMX value 0-255 = level 0-100%)
- + DMX Channel 2 = CCT Color Wheel:

	2900K	3200K	3600K	4300K	5000K	5600K	6500K
OHM DMX	0	37	75	110	146	182	218
	-	-	-	-	-	-	-
	36	74	109	145	181	217	255

- + DMX Channel 3 = Gekko Gel Color Wheel:

	GEKKO GEL SELECTION OFF	GEKKO GEL SELECTION ON
OHM DMX	0-217	128-255

- + DMX Channel 4 = Decimal 100s
- + DMX Channel 5 = Decimal 10s
- + DMX Channel 6 = Decimal units

	0-25	26-50	51-75	76-100	101-125	126-150	151-175	176-200	201-225	226-255
Ch 4 - Decimal (100s)	0	100	200	300	400	500	600	700	800	900
Ch 5 - Decimal (10s)	0	10	20	30	40	50	60	70	80	90
Ch 6 - Decimal (units)	0	1	2	3	4	5	6	7	8	9

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**Note:** When the Gekko Gel Color Wheel is switched on by the corresponding channels, the decimal channels are used to input a specific number (e.g., 219).

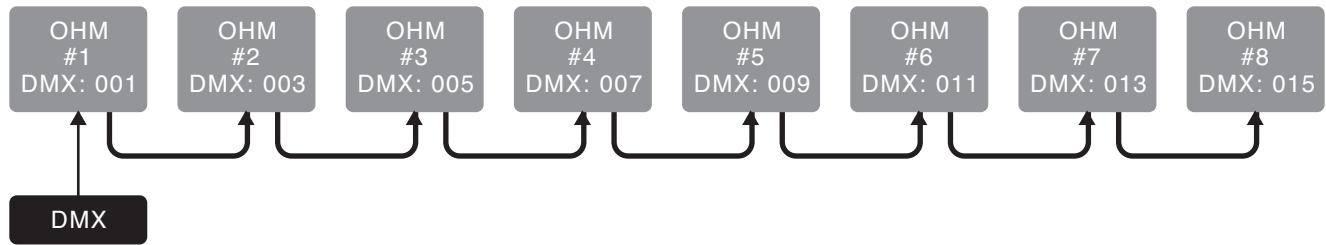
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## DMX Control: Application Example

OHM is fully controllable from the 5-pin DMX IN port on the MMI on the side of the fixture. The 'DMX Thru' jack also allows you to daisy-chain fixtures. Keep in mind the following points regarding DMX control:

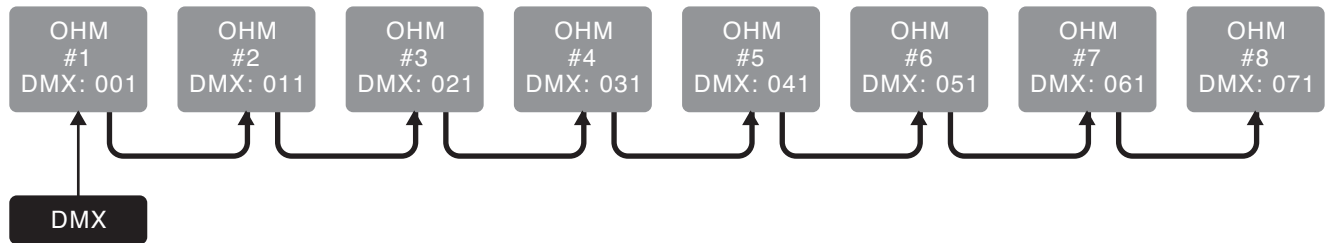
### For OHM 'Standard' DMX Control:

- + Each OHM to be controlled via DMX must have the address set accordingly.
- + For example, the first fixture to be controlled could be set to DMX address 001.
- + OHM (under 'Standard') DMX Control protocol uses 2 channels per fixture; so the subsequent fixtures should be offset by 2 as shown in the example figure below:



### For OHM 'Advanced' DMX Control:

- + Each OHM to be controlled via DMX must have the address set accordingly.
- + For example, the first fixture to be controlled could be set to DMX address 001.
- + OHM (under 'Advanced') DMX Control protocol uses 10 channels per fixture; so the subsequent fixtures should be offset by 10 as shown in the example figure below:





## OHM IS RDM ENABLED!

RDM functionality gives the ability to remotely identify the fixture and remotely set the DMX Address of the fixture. This feature also enables information about OHM to be read remotely, such as the temperature of the LED arrays.

### RDM Functions:

- + UID to allow recognition of individual fixtures
- + Sensor count:
  - Sensor 1: Temperature - Array temperature in degrees Celsius
  - Sensor 2: Temperature - Array temperature in degrees Celsius
  - Sensor 3: Temperature - Array temperature in degrees Celsius
  - Sensor 4: Temperature - Array temperature in degrees Celsius
  - Sensor 5: Temperature - Array temperature in degrees Celsius
  - Sensor 6: Temperature - Array temperature in degrees Celsius
  - Sensor 7: Temperature - Array temperature in degrees Celsius
  - Sensor 8: Temperature - Array temperature in degrees Celsius
  - Sensor 9: Temperature - Array temperature in degrees Celsius
  - Sensor 10: Temperature - Array temperature in degrees Celsius
  - Sensor 11: Temperature - Array temperature in degrees Celsius
  - Sensor 12: Temperature - Array temperature in degrees Celsius
  - Sensor 13: Temperature - Array temperature in degrees Celsius
  - Sensor 14: Temperature - Array temperature in degrees Celsius
  - Sensor 15: Temperature - Array temperature in degrees Celsius
  - Sensor 16: Temperature - Array temperature in degrees Celsius
  - Sensor 17: Temperature - Master driver temperature in degrees Celsius
  - Sensor 18: Temperature - Slave driver temperature in degrees Celsius
- + Lamp hours
- + RDM protocol version
- + Device model ID
- + Product category
- + Manufacturer label
- + DMX 512 footprint
- + Current DMX 512 personality - (Standard / Advanced, user selectable)
- + DMX start address (user editable)
- + Device label (user editable)

## SPECIFICATIONS

### Power Characteristics

#### AC Power

- + Nominal input voltage: 110-240V (AC), 50-60Hz
- + Maximum input current: 4.5A (at 110V), 2.1A (at 240V)
- + Maximum input power: 500W

#### OHM Power requirements...

OHM power supply is not currently power factor corrected. OHM Lights will draw more current on the neutral than what is being drawn on the hot leg. On large installations it may be necessary to increase your neutral run so as not to exceed cable current capacity.

### Physical Characteristics

#### OHM Dimensions (Excluding Yoke)

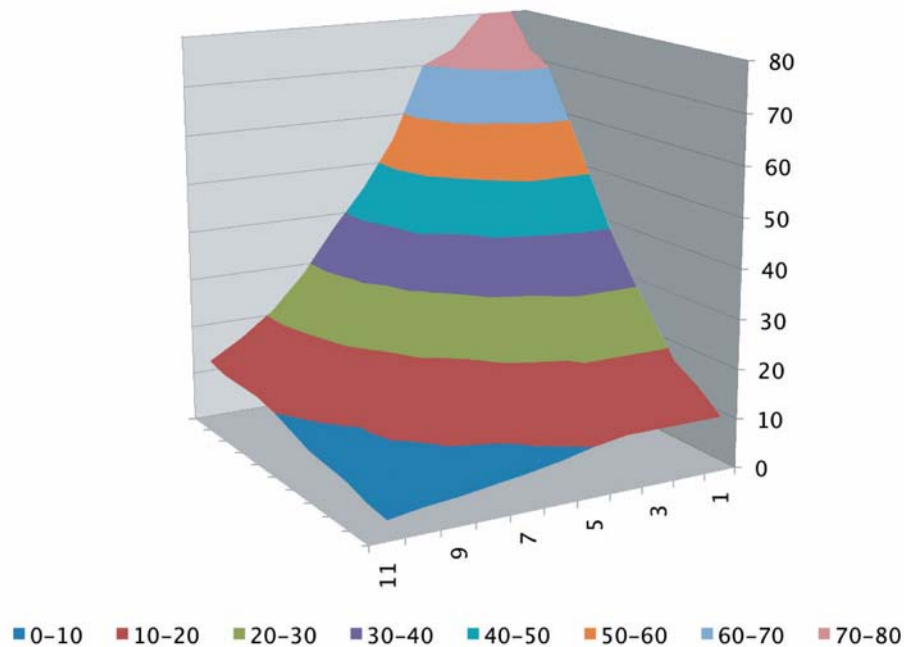
- + 740 mm x 660 mm x 290 mm
- + (29.1" x 26" x 11.4")

#### OHM Weight (Excluding Accessories)

- + 32kg

### Optical Characteristics




The waterfall diagram shows a typical spread of light when OHM is suspended at a height of 10 feet. Measurements are done on a temperature-stabilized OHM at maximum intensity.





## Warnings and Cautions

Read, keep, and heed all warnings and cautions.

SYMBOL	MEANING
	<p><b>Risk of Electric shock / Risk of Fire</b></p> <p>Do not open. To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.</p>
	<p><b>Burning Injuries</b></p> <p>Be aware of high case temperatures of 60-90°C while and after use of OHM. Don't touch the metal cases, frames, LEDs to avoid burning injuries.</p>
	<p><b>Flammable Materials</b></p> <p>Keep flammable materials away from the installation (such as curtains). A lot of energy is transferred into heat. The installation should be such that the amount of air flow required for safe operation of the equipment is not compromised. Proper ventilation must be provided.</p>
	<p><b>ESD and LED's</b></p> <p>LED components used in OHM are ESD (Electro-Static Discharge) sensitive. To prevent the possibility of destroying LED components do not touch either in operation or while switched off. DO NOT remove the clear protective cover in front of the LEDs or optics.</p>
	<p><b>Light Output</b></p> <p>Due to high light-output intensity do not look directly into the bare LED. Use diffusers when exposing the light to human eyes.</p>
	<p><b>Disconnect Device</b></p> <p>When the appliance inlets of the individual OHMs are not accessible, the socket outlets supplying the rack shall be installed near the equipment and be easily accessible, or a readily accessible general disconnect device shall be incorporated in the fixed wiring. Disconnect device should state 3mm separation in both poles and should include reference to national wiring rules.</p>
	<p><b>This equipment MUST be earthed</b></p> <p>In order to protect against risk of electric shock, the installation should be properly grounded. Defeating the purpose of the grounding type plug will expose you to the risk of electric shock.</p>
	<p><b>Mains Cords</b></p> <p>Use only a Neutrik PowerCon NAC3FCA Connector. The user is responsible for ensuring power cables are of adequate condition for each application. If the power cords are damaged, replace them only with new ones. Never try to repair a power cord.</p>
	<p><b>Environmental: Disposal of Old Electrical &amp; Electronic Equipment</b></p> <p>This symbol on the product or on its packaging indicates that this product shall not be treated as household waste.</p>

This product is protected by Patents and pending Patent applications.





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