### Virtuoso 2000 Fresnel RGBAL User Manual

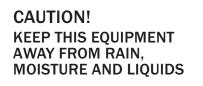


Order codes: ELUM135

### WARNING FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.







CAUTION! TAKE CARE USING THIS EQUIPMENT! HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!

#### **IMPORTANT:**

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- Do not connect this equipment to a dimmer pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is between 100~240V AC, 50/60Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.

- Never touch the fixture during operation as it may be hot.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- This lighting fixture is for professional use only it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- WARRANTY: Two years from date of purchase.

#### **OPERATING DETERMINATIONS**

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.

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### Virtuoso 2000 Fresnel RGBAL

The Virtuoso 2000 Fresnel is a bright and compact lighting fixture featuring an advanced RGBAL LED system that is suitable for many applications. HSIC colour management allows you to create almost any colour whilst the virtual colour wheel provides direct access to multiple colours along with a 2700K to 8000K colour temperature control. A motorised zoom with a 15° – 45° beam angle allows you to alter the beam providing designers with a very flexible fixture.

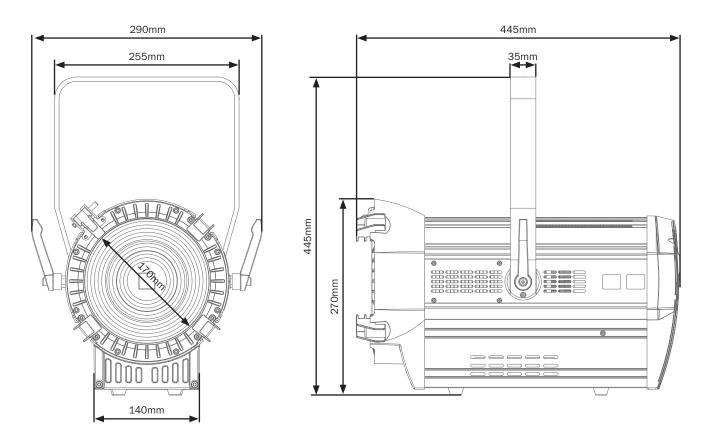
- 1 x 220W five-colour COB LED (RGBAL)
- Adjustable beam angle: 15°-45°
- 15° 6,151 Lux @ 2m (full on)
- 45° 887 Lux @ 2m (full on)
- CRI ≥ 90
- Colour temperature: 2700K-8000K
- Refresh rate: 1.2kHz, 2kHz, 4kHz, 6kHz or 25kHz selectable
- DMX channels: 8/9/10/13 or 19 selectable
- RDM (Remote Device Management)
- 0 100% 8 or 16 bit dimming and variable strobe
- 4 dimming curves: Linear, square law, inverse square law and S-curve
- 4 push button menu with LCD display
- PowerCON input/output
- 5-Pin XLR input/output
- 3-Pin XLR input/output
- Temperature controlled fan for whisper quiet operation
- Handle on rear panel
- Filter frame included

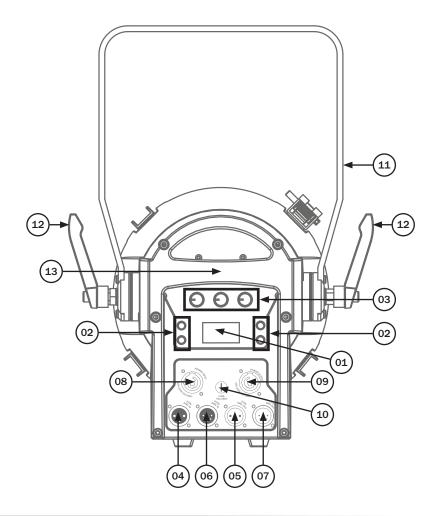
Specifications	Virtuoso 2000 Fresnel RGBAL
Power consumption	235W
Fuse	T5A 250V
Power supply	100~240V, 50/60Hz
Dimensions	440 x 290 x 445mm
Weight	7.6kg
Order code	ELUM135



15° - Lux FULL ON R G B A L	51848 13204 14280 2544 14644 26400	12871 3301 3570 636 3661 6600	5720 1467 1586 282 1627 2933	3217 825 892 159 915 1650	2059 528 571 101 585 1056
45° - Lux FULL ON R G B A L	6588 1536 1676 267 1752 2980	1647 384 419 66.9 438 745	732 170 186 29.7 194 331	411 96 104 16.7 109 186	263 61.4 67 10.7 70 119
				15° 45	
0m	1m	2m	3m	4m	5m

### **Technical specifications**



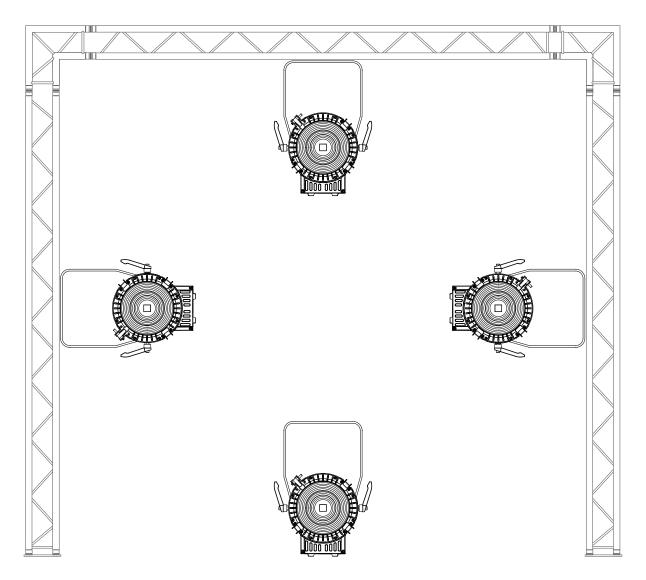


- 01 LCD display
- 02 Function buttons
- 03 Rotary controls
- 04 3-Pin DMX input
- 05 3-Pin DMX output
- 06 5-Pin DMX input
- 07 5-Pin DMX output
- 08 PowerCON input
- 09 PowerCON output
- 10 Fuse F5A 250V
- 11 Hanging bracket
- 12 Hanging bracket adjustment knobs
- 13 Carry handle
- In the box: **1 x fixture**,
- 1 x filter frame,
- 1 x power cable
- & 1 x user manual

### Installation

Before installing the fixture, the supporting structure (ie. truss) must be able to hold a minimum of 10 times the fixtures weight without any deformation (eg. 15kg - 150kg point load). The fixture must be secured with a secondary safety attachment when being installed (ie. an appropriate safety cable). Never stand directly below the fixture when mounting, removing, and/or servicing.

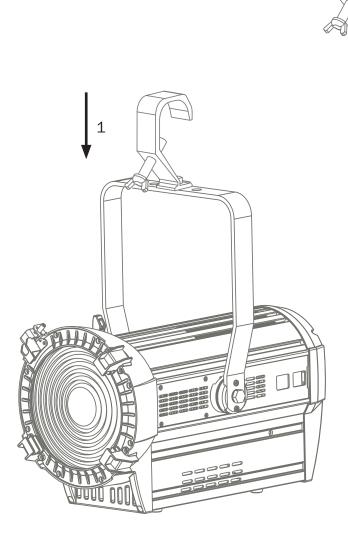
Overhead installation requires experience and qualifications to calculate working load limits, the material being used at the installation area and periodic safety inspections of the fixture and installation material. If you do not have the relevant experience and/or qualifications please do not attempt the installation yourself. The installation should be checked annually by a qualified person.

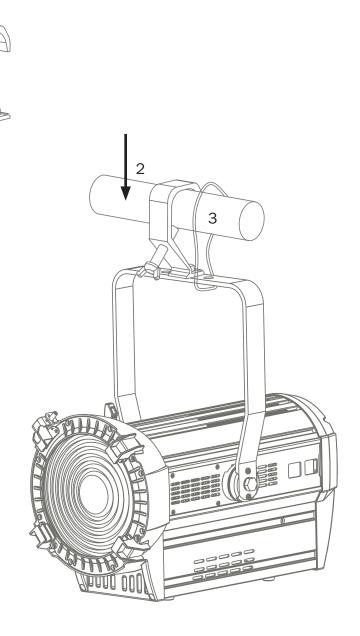


The eLumen8 Virtuoso 2000 Fresnel RGBAL can be operated in a number of mounting positions as shown in the diagram above, hanging upside-down from the ceiling or truss, mounting sideways on truss or stood upright on a flat level surface. Always use a safety wire as an extra safety precaution to prevent damage/injury in the event a clamp fails (see the next page for clamp installation). Never use the carry handles for secondary attachments.

#### Installation:

- 1. Fasten the clamp to the fixtures bracket with a bolt and lock nut through one of the mounting holes.
- 2. Mount the fixture onto your truss system via the clamp and tighten to ensure secure.
- 3. Pull the safety cable through the fixture bracket and around the truss.

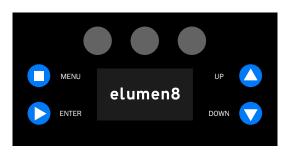




### **Control Panel Menu:**

The LCD control panel situated on the rear of the fixture allows the user to access the menu system to adjust the fixtures settings.

When the unit has been powered on the display will show "eLumen8 Virtuoso 2000 Fresnel".



The fixture will then return to its home screen.

Please note: when DMX signal is being received the display will show a small ' $\gamma$ ' icon on the top right.



Pressing the **"ENTER"** button once will take the user to the fixtures main menu. Using the **"UP"** and **"DOWN"** buttons you can then navigate between the different options in the main menu. Pressing the **"ENTER"** button on one of these options allows you to access the sub menu where you can use the **"UP"** and **"DOWN"** buttons to select option/value required. Once the option/value has been selected press the **"ENTER"** button once more to confirm the setting.

To exit out of any of the above options, press the "MENU" button.

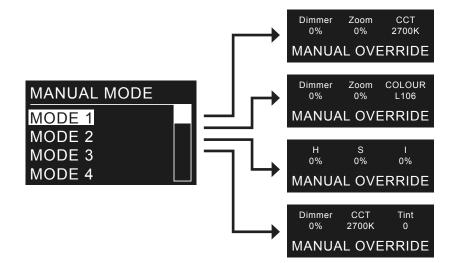
MAIN MENU	
MANUAL MODE	
STATIC	
PRESET COLOUR	
ADDRESS	
RUN MODE	
PERSONALITY	
SETTING	
KEY	
CALIB.CCT	
INFO	

### Manual mode:

To access the DMX address mode, press the **"ENTER**" button and use the **"UP**" and **"DOWN**" buttons until **"MANUAL MODE**" is highlighted on the LCD display. Now press the **"ENTER**" button and use the **"UP**" and **"DOWN**" buttons to select the required mode.

Press the "ENTER" button to confirm the setting.

- **MODE 1** Rotary controls will allow the adjustment of Dimmer, Zoom and CCT.
- MODE 2 Rotary controls will allow the adjustment of Dimmer, Zoom and Colour Preset.
- MODE 3 Rotary controls will allow the adjustment of Hue, Saturation and Intensity.
- MODE 4 Rotary controls will allow the adjustment of Dimmer, CCT and Tint.



#### Static colour mode:

To access static colour mode, press the **"ENTER**" button and use the **"UP**" and **"DOWN**" buttons until **"STATIC**" is highlighted on the LCD display. Press the **"ENTER**" button and use the **"UP**" and **"DOWN**" buttons to select the various options. Press the **"ENTER**" button and use the **"UP**" and **"DOWN**" buttons to select between **"O"** - **"255**" (Red, Green, Blue, Amber, Lime and Zoom) or **"O"** - **"25**" (Strobe). Press the **"ENTER**" button to confirm the setting.

STATIC	STATIC	
RED	RED	255
GREEN	GREEN	255
BLUE	BLUE	255
AMBER	AMBER	255
LIME	LIME	255
ZOOM	ZOOM	255
STROBE	STROBE	25

### Preset colour mode:

To access preset colour mode, press the "**MENU**" button and use the "**UP**" and "**DOWN**" buttons until "**PRESET COLOUR**" is highlighted on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the various colours. Press the "**ENTER**" button to confirm the setting.

L106 - Primary Red R05 - Rose Tint L194 - Surprise Pink R54 - Special Lavender L019 - Fire R08 - Pale Gold R89 - Moss Green R86 - Pea Green L213 - White Flame Green
R377 - Iris Purple
R80 - Primary Blue
L202 - Half C.T. Blue
L328 - Follies Pink
R3314 - Tough 1/4 Minusgreen
L101 - Yellow
L768 - Egg Yolk Yellow

PRESE	T COLOUR	
L106		
R05		
L194		
R54		
L019		
R08		
R89		
R86		
L213		
R377		
R80		
L202		
L328		
R3314		
L101		
L768		

#### DMX address setting:

To access the fixtures DMX address setting, press the "**MENU**" button and use the "**UP**" and "**DOWN**" buttons until "**ADDRESS**" is highlighted on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select between "**001**" - "**512**".

Press the "ENTER" button to confirm the setting.

#### Run mode setting:

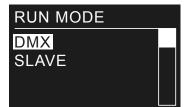
To access the fixtures run mode setting, press the "**MENU**" button and use the "**UP**" and "**DOWN**" buttons until "**RUN MODE**" is highlighted on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select between "**DMX**" or "**SLAVE**".

Press the "ENTER" button to confirm the setting.

DMX - Use this setting when using via a DMX controller.

**SLAVE** - Use this setting when using the fixture via master/slave.





### **Operating instructions**

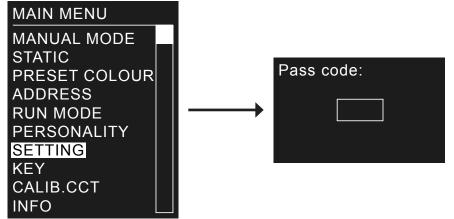
#### Channel mode (personality) setting:

To access the fixtures channel mode (personality)setting, press the **"MENU"** button and use the **"UP"** and **"DOWN"** buttons until **"PERSONALITY"** is highlighted on the LCD display. Press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to select between **"HSIC"** (8 channel), **"THEATRE"** (9 channel), **"SSP"** (10 channel), **"TOUR"** (13 channel) or **"TR16"** (19 channel). Press the **"ENTER"** button to confirm the setting.

PERSONALITY HSIC SSP TOUR TR16 THEATRE

#### Settings menu:

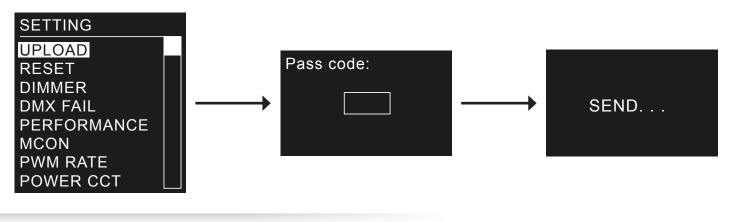
To access the fixtures settings menu, press the "**MENU**" button and use the "**UP**" and "**DOWN**" buttons until "**SETTING**" is highlighted on the LCD display. Press the "**ENTER**" button. "**Pass code**" will now be displayed and a button press combination will need to be entered. To do this press the buttons in the following order; "**UP**", "**DOWN**", "**UP**", "**DOWN**", "**ENTER**". You can now access the sub menus as described below.



#### Upload setting:

This setting allows custom programs to be sent to Slave fixtures.

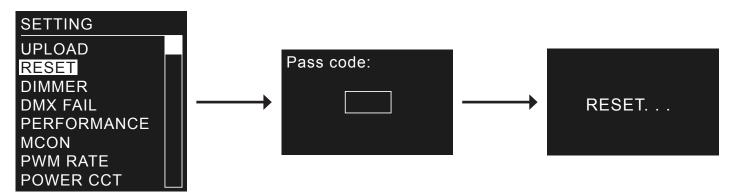
To access the fixtures upload setting, use the "UP" and "DOWN" buttons to select "UPLOAD". Press the "ENTER" button. "Pass code" will now be displayed and a button press combination will need to be entered. To do this press the buttons in the following order; "UP", "DOWN", "UP", "DOWN", "ENTER". The unit will display "SEND..." and the front lens will illuminate yellow whilst exporting to the slave units. The front lens will turn green if the export has completed successfully. If there are any problems whilst exporting the front lens will turn red.



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### Reset setting:

To access the fixtures reset setting, use the "**UP**" and "**DOWN**" buttons to select "**RESET**". Press the "**ENTER**" button. "**Pass code**" will now be displayed and a button press combination will need to be entered. To do this press the buttons in the following order; "**UP**", "**DOWN**", "**UP**", "**DOWN**", "**ENTER**". The unit will display "**RESET**..." and the fixtures settings will return to the factory settings.

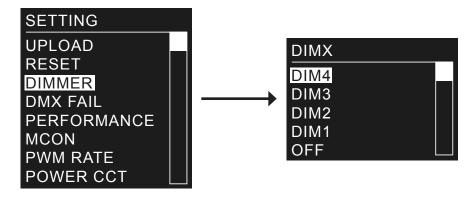


#### Dimming speed setting:

To access the dimming speed setting, use the "**UP**" and "**DOWN**" buttons to select "**DIMMER**". Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select between "**DIM4**", "**DIM3**", "**DIM2**", "**DIM1**", and "**OFF**". Press the "**ENTER**" button to confirm the setting.

DIM1-DIM4 - Dimmer speed fast-slow.

OFF - Dimmer speed off.

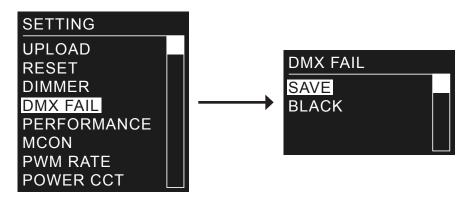


### DMX fail setting:

To access the DMX fail setting, use the "UP" and "DOWN" buttons to select "DMX FAIL". Press the "ENTER" button and use the "UP" and "DOWN" buttons to select between "SAVE" and "BLACK". Press the "ENTER" button to confirm the setting.

**SAVE** - The fixture will remember the last DMX signal.

**BLACK** - The fixture will blackout when the DMX signal is lost.



#### Fan control setting:

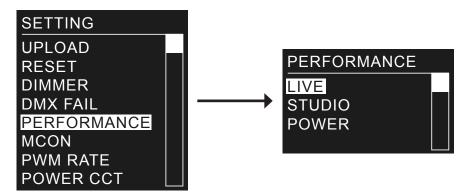
This setting allows the performance of the cooling fan to be adjusted.

To access the fan control setting, use the "UP" and "DOWN" buttons to select "PERFORMANCE". Press the "ENTER" button and use the "UP" and "DOWN" buttons to select between "LIVE", "STUDIO" and "POWER". Press the "ENTER" button to confirm the setting.

**LIVE** - This is the default performance mode. This provides a compromise between both output quality and noise level.

**STUDIO** - This is a noise level performance mode designed to operate at the lowest noise possible but with a moderate output.

**POWER** - This is an output performance mode designed to operate at full power with no consideration for the noise level.



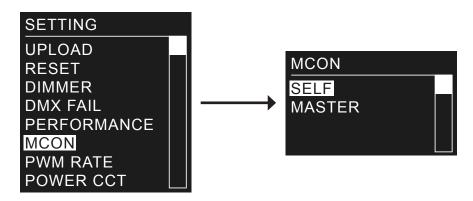
### MCON setting:

This setting allows the DMX data transfer to be set.

To access the MCON setting, use the "UP" and "DOWN" buttons to select "MCON". Press the "ENTER" button and use the "UP" and "DOWN" buttons to select between "SELF", and "MASTER". Press the "ENTER" button to confirm the setting.

SELF - DMX data transfer OFF.

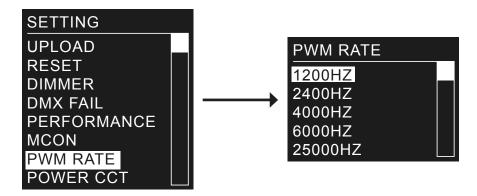
MASTER - DMX data transfer ON.



#### PWM rate setting (refresh rate):

This setting allows the refresh rate to be adjusted.

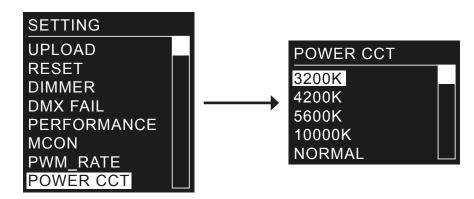
To access the PWM rate setting, use the "**UP**" and "**DOWN**" buttons to select "**PWM RATE**". Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select between "**1200Hz**", "**2400Hz**", "**4000Hz**", "**6000Hz**", and "**25000Hz**". Press the "**ENTER**" button to confirm the setting.



### Power CCT setting (correlated colour temperature):

This setting allows the colour temperature to be adjusted.

To access the CCT setting, use the "UP" and "DOWN" buttons to select "POWER CCT". Press the "ENTER" button and use the "UP" and "DOWN" buttons to select between "3200K", "4200K", "5600K", "10000K", and "NORMAL". Press the "ENTER" button to confirm the setting.



#### XY Offset:

There is also an **"XY OFFSET**", sub menu within the settings menu this can be set between **"HIDE**" (default) and **"SHOW**". When set to show this will display the XY OFFSET calibrations in some menus.

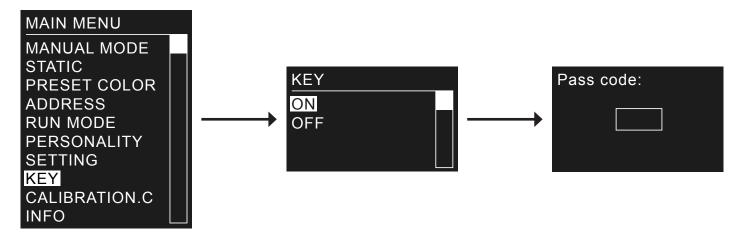
These calibrations have been set when the fixture was being manufactured to ensure the colour consistency throughout fixtures from different batches. These settings should NOT be changed. If these settings are accidentally changed then the "**RESET**" function can be used to reset them to the defaults (see page 11).

#### Safety lock setting:

To access safety lock setting, press the **"ENTER**" button and use the **"UP**" and **"DOWN**" buttons until **"KEY**" is highlighted on the LCD display. Press the **"ENTER**" button and use the **"UP**" and **"DOWN**" buttons to between **"ON**" and **"OFF**". Press the **"ENTER**" button to confirm the setting.

When this is set to ON, the passcode will need to be entered each time the display goes off.

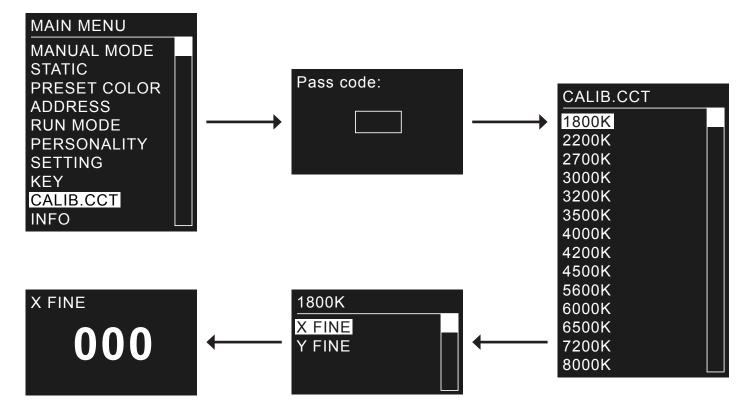
The passcode sequence is; "UP", "DOWN", "UP", "DOWN", "ENTER".



### Colour calibration setting:

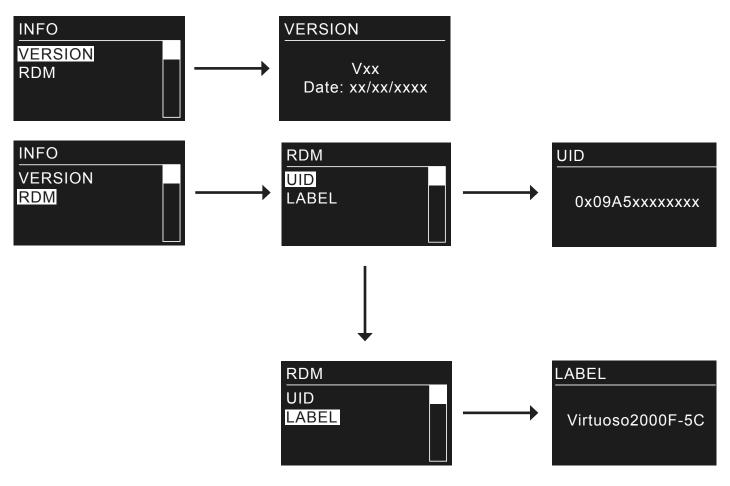
To access the colour calibration setting, press the "ENTER" button and use the "UP" and "DOWN" buttons until "CALIB.CCT" is highlighted on the LCD display. Press the "ENTER" button. "Pass code" will now be displayed and a button press combination will need to be entered. To do this press the buttons in the following order; "UP", "DOWN", "UP", "DOWN", "ENTER". Use the "UP" and "DOWN" buttons to select between "1800K", "2200K", "2700K", "3000K", "3200K", "3500K", "4000K", "4200K", "4500K", "5600K", "6000K", "6500K", "7200K" and "8000K". Press the "ENTER" button to enter the selected menu. Now use the "UP" and "DOWN" buttons to select between "X FINE", and "Y FINE" (these settings will adjust the tint of the CCT). Press the "ENTER" button and use the "UP" and "DOWN" buttons to adjust between "-200", and "+200". Press the "ENTER" button to confirm the setting.

Please note: XY Offset must be set to show to adjust colour calibration (see page 14).



### Fixture information:

To access the fixture information press the "ENTER" button and use the "UP" and "DOWN" buttons until "INFO" is highlighted on the LCD display. Press the "ENTER" button and use the "UP" and "DOWN" buttons to select between "VERSION" and "RDM". If VERSION is highlighted press the "ENTER" button and the version number and manufacture date will be displayed. If RDM is highlighted, press the "ENTER" button and use the "UP" and "DOWN" buttons to select between "UID" and "LABEL". If UID is highlighted press the "ENTER" button and the fixtures RDM UID will be displayed. If LABEL is highlighted press the "ENTER" button and the model number will be displayed.



#### 8 channel mode (HSIC):

Channel	Value	Function
CH1	000-255	Intensity (0-100%)
CH2	000-255	Hue
СНЗ	000-255	Hue fine
CH4	000-255	Saturation
	000-010	No function
	011-028	1800K
	029-046	2200K
	047-064	2700K
	065-082	3000K
	083-100	3200K
	101-118	3500K
CH5	119-136	4000K
	137-154	4200K
	155-172	4500K
	173-190	5600K
	191-208	6000K
	209-226	6500K
	227-244	7200K
	245-255	8000K
	000-009	No function
	010-099	Strobe (slow-fast)
СН6	100-109	No function
	110-179	Lightning strobe
	180-189	No function
	190-255	Random strobe
CH7	000-255	Zoom (narrow-wide)
	000-009	Dimming mode (set in menu)
	010-029	No function
СН8	030-069	Dimming speed 1
	070-129	Dimming speed 2
	130-189	Dimming speed 3
	190-255	Dimming speed 4

### 9 channel mode (THEATRE):

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-255	Dimmer fine (0-100%)
СНЗ	000-255	Red (0-100%)
CH4	000-255	Green (0-100%)
CH5	000-255	Blue (0-100%)
CH6	000-255	Amber (0-100%)
CH7	000-255	Lime (0-100%)
0110	000	No function
CH8	001-255	Strobe (slow-fast)
CH9	000-255	Zoom (narrow-wide)

#### 10 channel mode (SSP):

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-255	Red (0-100%)
СНЗ	000-255	Green (0-100%)
CH4	000-255	Blue (0-100%)
CH5	000-255	Amber (0-100%)
СН6	000-255	Lime (0-100%)
	000-010	No function
	011-020	L106 - Primary Red
	021-030	R05 - Rose Tint
	031-040	L194 - Surprise Pink
	041-050	R54 - Special Lavender
	051-060	L019 - Fire
	061-070	R08 - Pale Gold
	071-080	R89 - Moss Green
	081-090	R86 - Pea Green
CH7	091-100	L213 - White Flame Green
	101-110	R377 - Iris Purple
	111-120	R80 - Primary Blue
	121-130	L202 - Half C.T. Blue
	131-140	L328 - Follies Pink
	141-150	R3314 - Tough 1/4 Minusgreen
	151-160	L101 - Yellow
	161-170	L768 - Egg Yolk Yellow
	171-255	No function
	000-009	No function
	010-099	Strobe (slow-fast)
0110	100-109	No function
CH8	110-179	Lightning strobe
	180-189	No function
	190-255	Random strobe
СН9	000-255	Zoom (narrow-wide)
	000-009	Dimming mode (set in menu)
	010-029	No function
	030-069	Dimming speed 1
CH10	070-129	Dimming speed 2
	130-189	Dimming speed 3
	190-255	Dimming speed 4

#### 13 channel mode (TOUR):

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-255	Red (0-100%)
CH3	000-255	Green (0-100%)
CH4	000-255	Blue (0-100%)
CH5	000-255	Amber (0-100%)
CH6	000-255	Lime (0-100%)
	000-010	No function
	011-020	L106 - Primary Red
	021-030	R05 - Rose Tint
	031-040	L194 - Surprise Pink
	041-050	R54 - Special Lavender
	051-060	L019 - Fire
	061-070	R08 - Pale Gold
	071-080	R89 - Moss Green
	081-090	R86 - Pea Green
CH7	091-100	L213 - White Flame Green
	101-110	R377 - Iris Purple
	111-120	R80 - Primary Blue
	121-130	L202 - Half C.T. Blue
	131-140	L328 - Follies Pink
	141-150	R3314 - Tough 1/4 Minusgreen
	151-160	L101 - Yellow
	161-170	L768 - Egg Yolk Yellow
	171-255	No function
	000-010	No function
	011-030	Red (100%), Green (0-100%), Blue (0%)
	031-050	Red (100-0%), Green (100%), Blue (0%)
	051-070	Red (0%), Green (100%), Blue (0-100%)
CH8	071-090	Red (0%), Green (100-0%), Blue (100%)
	091-110	Red (0-100%), Green (0%), Blue (100%)
	111-130	Red (100%), Green (0%), Blue (100-0%)
	131-150	Red (100%), Green (0-100%), Blue (0-100%)
	151-170	Red (100-0%), Green (100-0%), Blue (100%)

#### 13 channel mode (TOUR) cont.:

Channel	Value	Function
	171-195	Full on (RGBAL)
	196-199	1800K
	200-203	2200K
	204-207	2700K
	208-211	3000K
	212-215	3200K
	216-219	3500K
CH8 cont.	220-223	4000K
	224-227	4200K
	228-231	4500K
	232-235	5600K
	236-239	6000K
	240-243	6500K
	244-247	7200K
	248-255	8000K
	000-009	No function
	010-099	Strobe (slow-fast)
СН9	100-109	No function
	110-179	Lightning strobe
	180-189	No function
	190-255	Random strobe
CH10	000-255	Zoom (narrow-wide)
	000-040	No function
	041-060	Auto 1
	061-080	Auto 2
	081-100	Auto 3
	101-120	Auto 4
CH11	121-140	Auto 5
	141-160	Auto 6
	161-180	Auto 7
	181-200	Auto 8
	201-220	Auto 9
	221-255	Auto 10
CH12	000-255	Auto speed (slow-fast)
	000-009	Dimming mode (set in menu)
	010-029	No function
CH13	030-069	Dimming speed 1
	070-129	Dimming speed 2
	130-189	Dimming speed 3
	190-255	Dimming speed 4

### 19 channel mode (TR16):

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-255	Dimmer fine (0-100%)
CH3	000-255	Red (0-100%)
CH4	000-255	Red fine (0-100%)
CH5	000-255	Green (0-100%)
CH6	000-255	Green fine (0-100%)
CH7	000-255	Blue (0-100%)
CH8	000-255	Blue fine (0-100%)
CH9	000-255	Amber (0-100%)
CH10	000-255	Amber fine (0-100%)
CH11	000-255	Lime (0-100%)
CH12	000-255	Lime fine (0-100%)
	000-010	No function
	011-020	L106 - Primary Red
	021-030	R05 - Rose Tint
	031-040	L194 - Surprise Pink
	041-050	R54 - Special Lavender
	051-060	L019 - Fire
	061-070	R08 - Pale Gold
	071-080	R89 - Moss Green
	081-090	R86 - Pea Green
CH13	091-100	L213 - White Flame Green
	101-110	R377 - Iris Purple
	111-120	R80 - Primary Blue
	121-130	L202 - Half C.T. Blue
	131-140	L328 - Follies Pink
	141-150	R3314 - Tough 1/4 Minusgreen
	151-160	L101 - Yellow
	161-170	L768 - Egg Yolk Yellow
	171-255	No function
	000-010	No function
CH14	011-030	Red (100%), Green (0-100%), Blue (0%)
	031-050	Red (100-0%), Green (100%), Blue (0%)
	051-070	Red (0%), Green (100%), Blue (0-100%)
	071-090	Red (0%), Green (100-0%), Blue (100%)

### 19 channel mode (TR16) cont.:

Channel	Value	Function
	091-110	Red (0-100%), Green (0%), Blue (100%)
	111-130	Red (100%), Green (0%), Blue (100-0%)
	131-150	Red (100%), Green (0-100%), Blue (0-100%)
	151-170	Red (100-0%), Green (100-0%), Blue (100%)
	171-195	Full on (RGBAL)
	196-199	1800K
	200-203	2200K
	204-207	2700K
CH14 cont.	208-211	3000K
	212-215	3200K
	216-219	3500K
	220-223	4000K
	224-227	4200K
	228-231	4500K
	232-235	5600K
	236-239	6000K
	240-243	6500K
	244-247	7200K
	248-255	8000K
	000-009	No function
	010-099	Strobe (slow-fast)
	100-109	No function
CH15	110-179	Lightning strobe
	180-189	No function
	190-255	Random strobe
CH16	000-255	Zoom (narrow-wide)
	000-040	No function
	041-060	Auto 1
	061-080	Auto 2
	081-100	Auto 3
	101-120	Auto 4
CH17	121-140	Auto 5
	141-160	Auto 6
	161-180	Auto 7
	181-200	Auto 8
	201-220	Auto 9
	221-255	Auto 10

Channel	Value	Function	
CH18	000-255	Auto speed (slow-fast)	
	000-009	Dimming mode (set in menu)	
	010-029	No function	
	030-069	Dimming speed 1	
CH19	070-129	Dimming speed 2	
	130-189	Dimming speed 3	
	190-255	Dimming speed 4	

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### Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1- 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, 105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

#### DMX 512:

DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a data "out" terminal).

#### DMX linking:

DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

### DATA cable (DMX cable) requirements (for DMX operation):

This fixture can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit requires either a standard 3-pin or 5-pin XLR connector for data input/output, see images below.



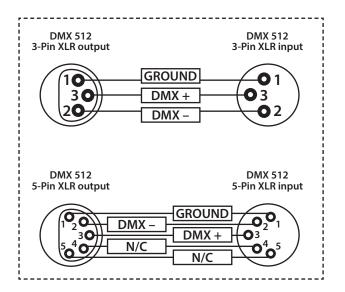
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.						
Please quote:	3-Pin:	CABL10 - 2m	CABL11 - 5m	CABL12 – 10m		
	5-Pin:	CABL185 – 2m	CABL187 – 5m	CABL188 – 10m		

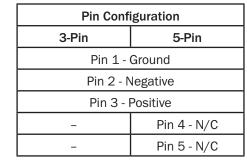
Also remember that DMX cable must be daisy chained and cannot be split.

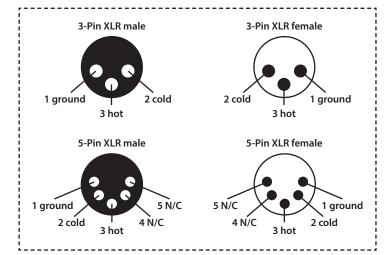
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### Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.



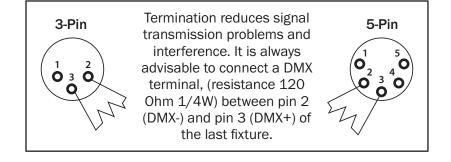




#### Line termination:

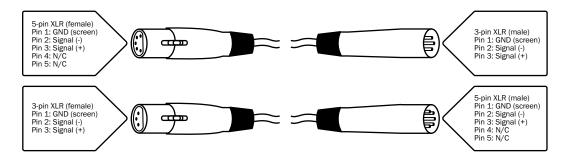
When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

Using a cable terminator will decrease the possibilities of erratic behaviour. (3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)



#### 5-pin XLR DMX connectors:

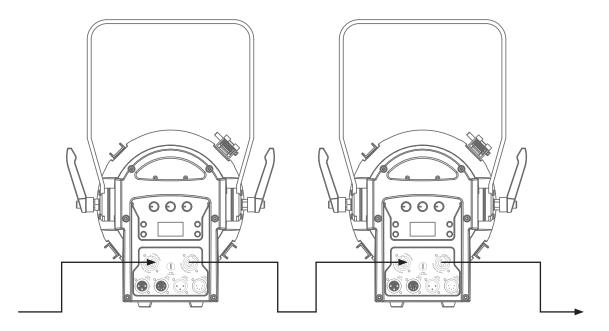
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



### Power linking:

This fixture provides power linking via the power output on the rear allowing multiple units to be connected together. The maximum number of fixtures that can be connected is 6 fixtures @ 240V or 3 fixtures @ 120V (including the first fixture). After the maximum number of fixtures are connected a new power run will need to be started.

Please note: Caution should be used when power linking other fixtures to the Virtuoso 2000 Fresnel as the power consumption of other fixtures will vary. Fixtures fitted with lamps often require 2/3 times more current on startup, these may require their own power source.



### **WEEE notice**



Correct Disposal of this Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

