

elumen8

Virtuoso 1000 Profile WW MKII User Manual



Order codes: ELUM146

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.



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.

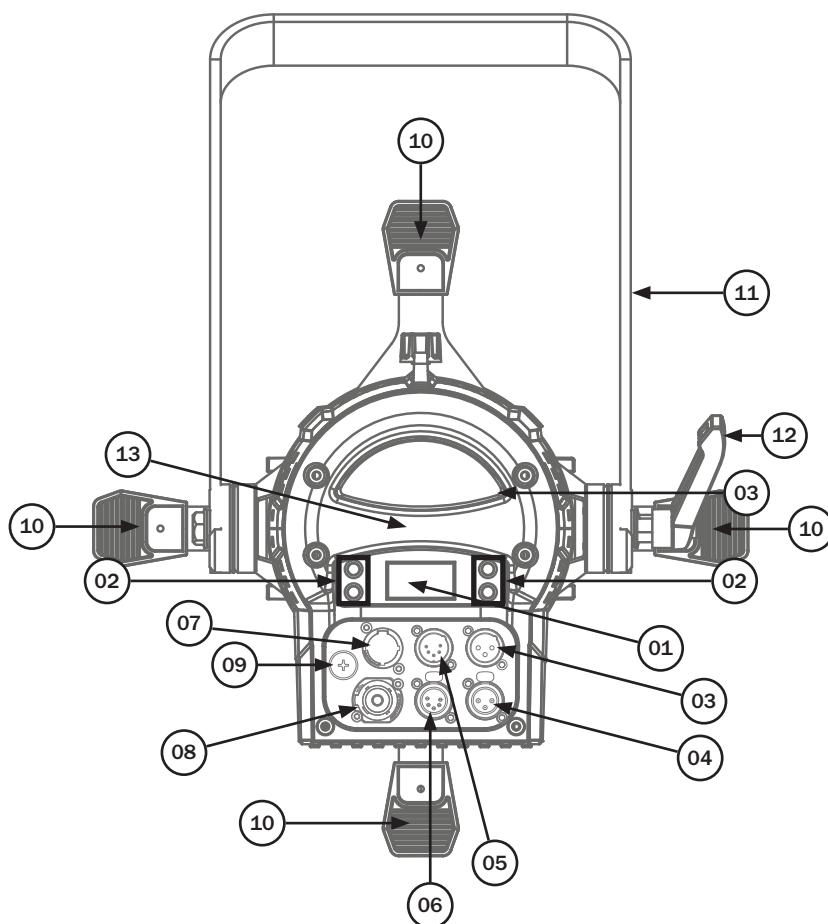
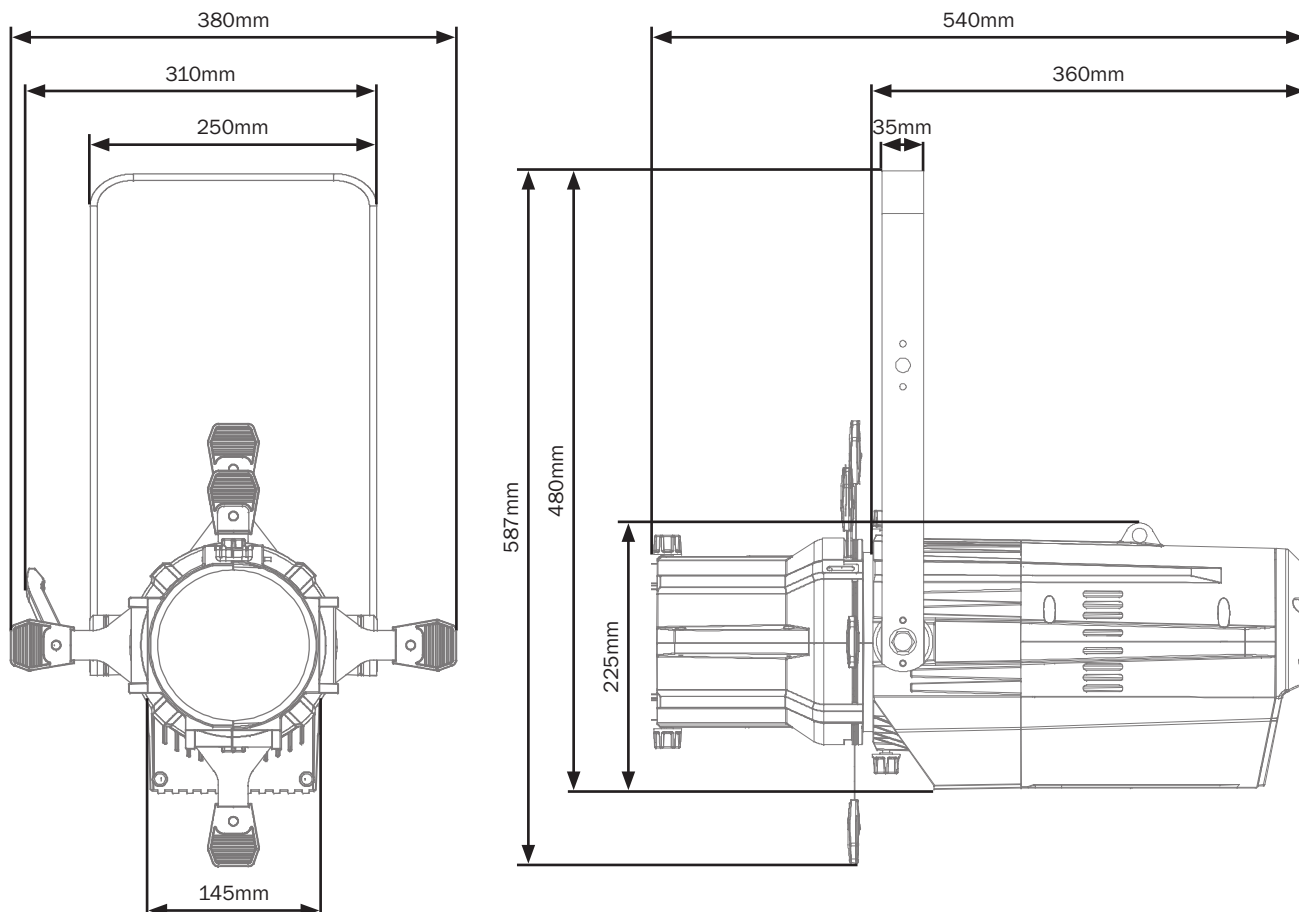
Virtuoso 1000 Profile WW MKII

The Virtuoso 1000 Profile WW MKII features an advanced optical system that outputs a flat, even field and is suitable for many applications. Focus the fixture without DMX signal at the push of a button thanks to the 'instant focus' mode. Other on-board features include; DMX, RDM and an adjustable PWM rate. Due to the design of the body many common and aftermarket lens tubes can fit directly onto the fixture allowing you to upgrade to LED without having to replace your existing lens tubes. Sold as the body only, with optional lenses and accessories available. Compatible with most industry standard lenses including Source 4.

- 2 year warranty
- 1 x 300W warm white COB LED (3,200K)
- Beam angle: 5° - 50° dependent on lens used
- CRI: 98
- CQS: 96
- TLCI: 98
- Refresh rate: 1.2kHz, 2kHz, 2.4kHz, 6kHz or 25kHz selectable
- Beam framing shutters
- DMX channels: 1/2/3 or 4 selectable
- RDM (Remote Device Management)
- 2 power emulation modes (575W and 750W)
- Can be used with a traditional dimmer pack
- 0 - 100% 8 or 16 bit dimming
- Variable strobe
- 4 dimming curves: Linear, square law, inverse square law and S-curve
- 4 button menu with LCD display
- PowerTwist TR1 input/output
- 5-Pin XLR input/output
- 3-Pin XLR input/output
- 3 selectable fan modes (live, power and studio)
- Instant fast focus mode
- Rear handle



Specifications	Virtuoso 1000 Profile WW MKII
Power consumption	242W
Fuse	T6.3A 250V
Power supply	100~240V, 50/60Hz
Dimensions	480 x 320 x 540mm
Weight	7.8kg
Order code	ELUM146

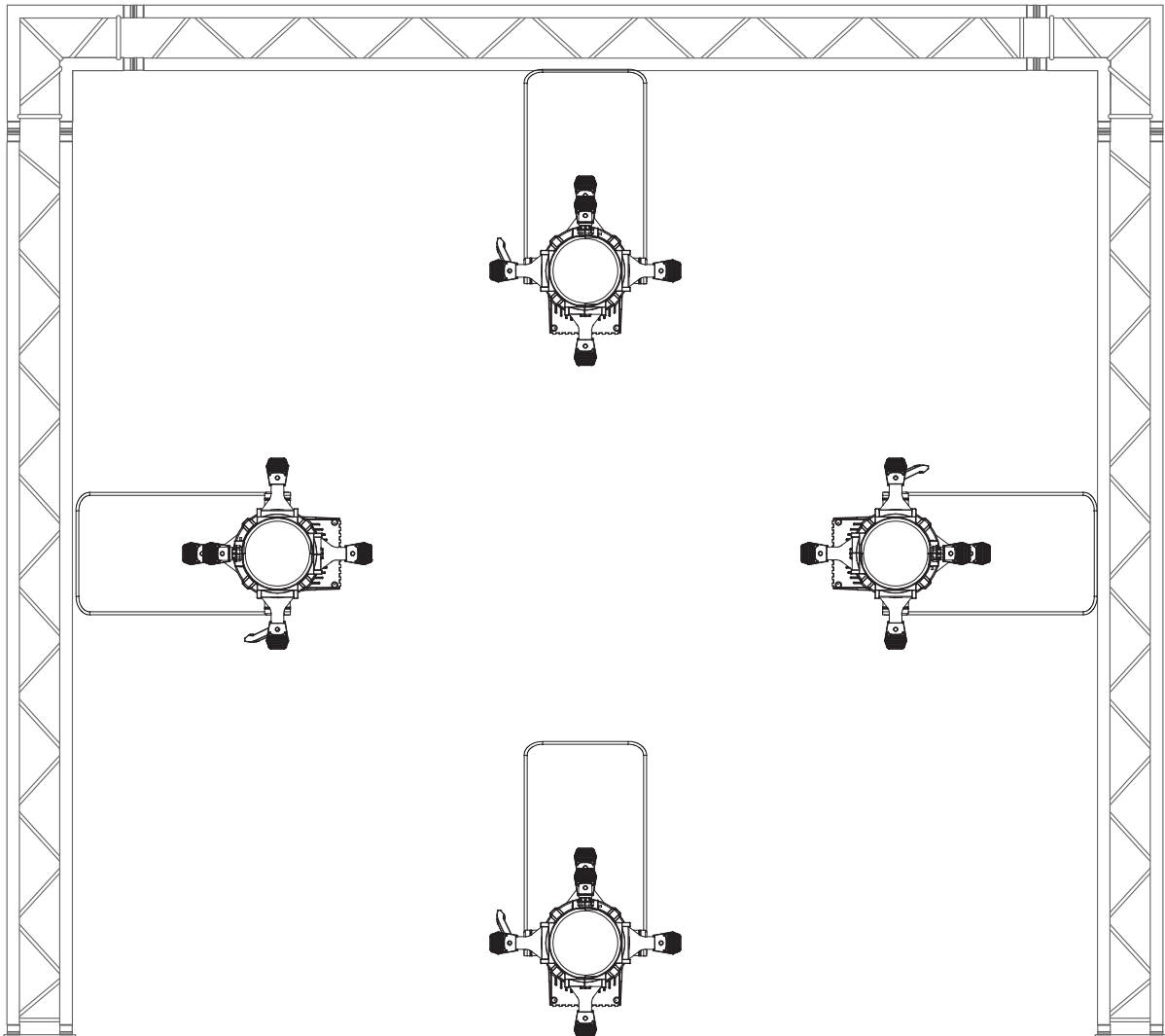


- 01 - LCD display
- 02 - Function buttons
- 03 - 3-Pin DMX input
- 04 - 3-Pin DMX output
- 05 - 5-Pin DMX input
- 06 - 5-Pin DMX output
- 07 - PowerTwist TR1 input
- 08 - PowerTwist TR1 output
- 09 - Fuse T6.3A 250V
- 10 - Shutters
- 11 - Hanging bracket
- 12 - Hanging bracket adjustment knob
- 13 - Carry handle

In the box: **1 x fixture,**
& 1 x power cable,
1 x omega clamp

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.

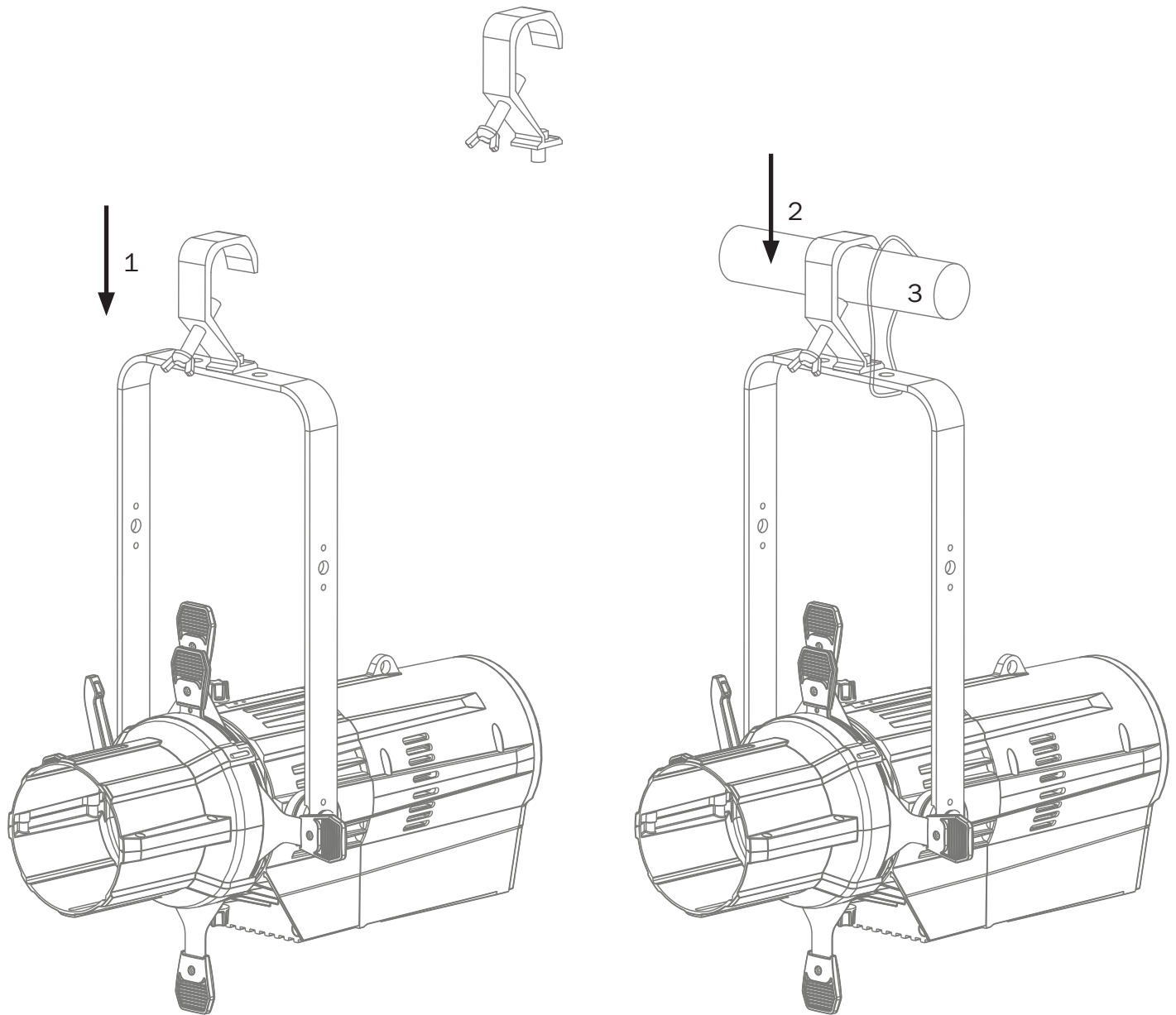


The Elumen8 Virtuoso 1000 Profile WW MKII can be operated in a number of mounting positions as shown in the diagram above, hanging upside-down from the ceiling or truss, mounting sideways on truss or stood upright on a flat level surface. Always use a safety wire as an extra safety precaution to prevent damage/injury in the event a clamp fails (see the next page for clamp installation).

Never use the carry handles for secondary attachments.

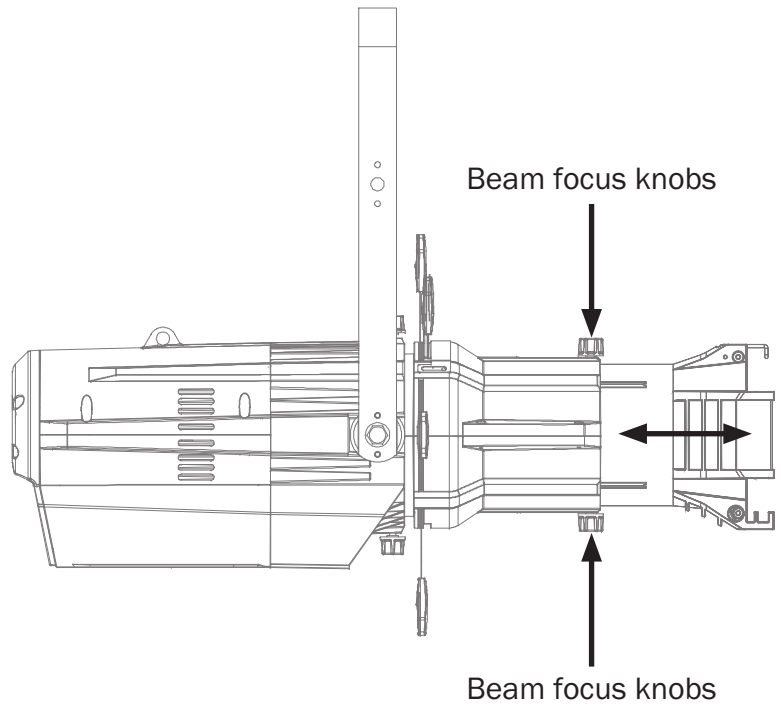
Installation:

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.



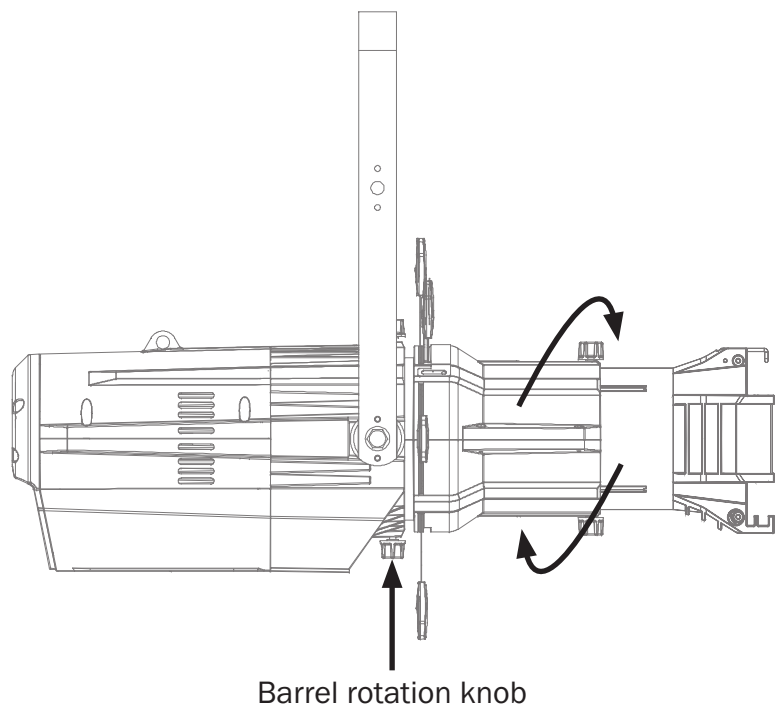
Beam Focus:

1. Loosen the beam focus knobs located at the top and bottom of the barrel.
2. Slide the lens tube forward or backward until you achieve the desired focus.
3. Once the fixture is focussed, tighten the beam focus knobs.



Rotating the Barrel Assembly:

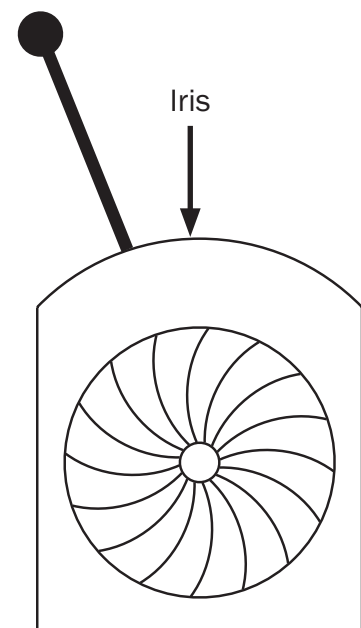
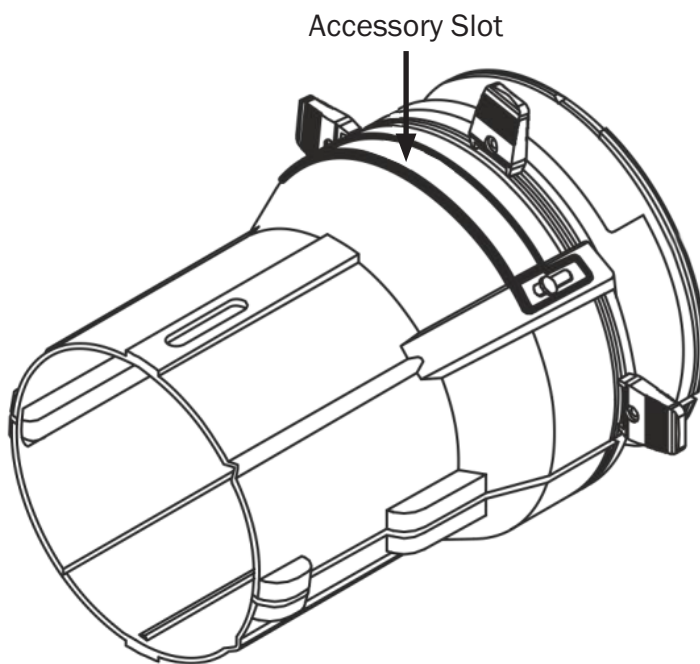
1. Loosen the barrel rotation knobs located at the bottom of the fixture (do not remove the knobs or the barrel assembly).
2. Rotate the barrel into the desired position.
3. Once the barrel is rotated, tighten the barrel rotation knobs.



Accessory Slot:

The Virtuoso 1000 Profile WW MKII has an accessory slot, which holds a drop-in iris or a motorised pattern device (sold separately). When the slot is not in use a small metal cover secures the slot with 2 screws to prevent light leakage.

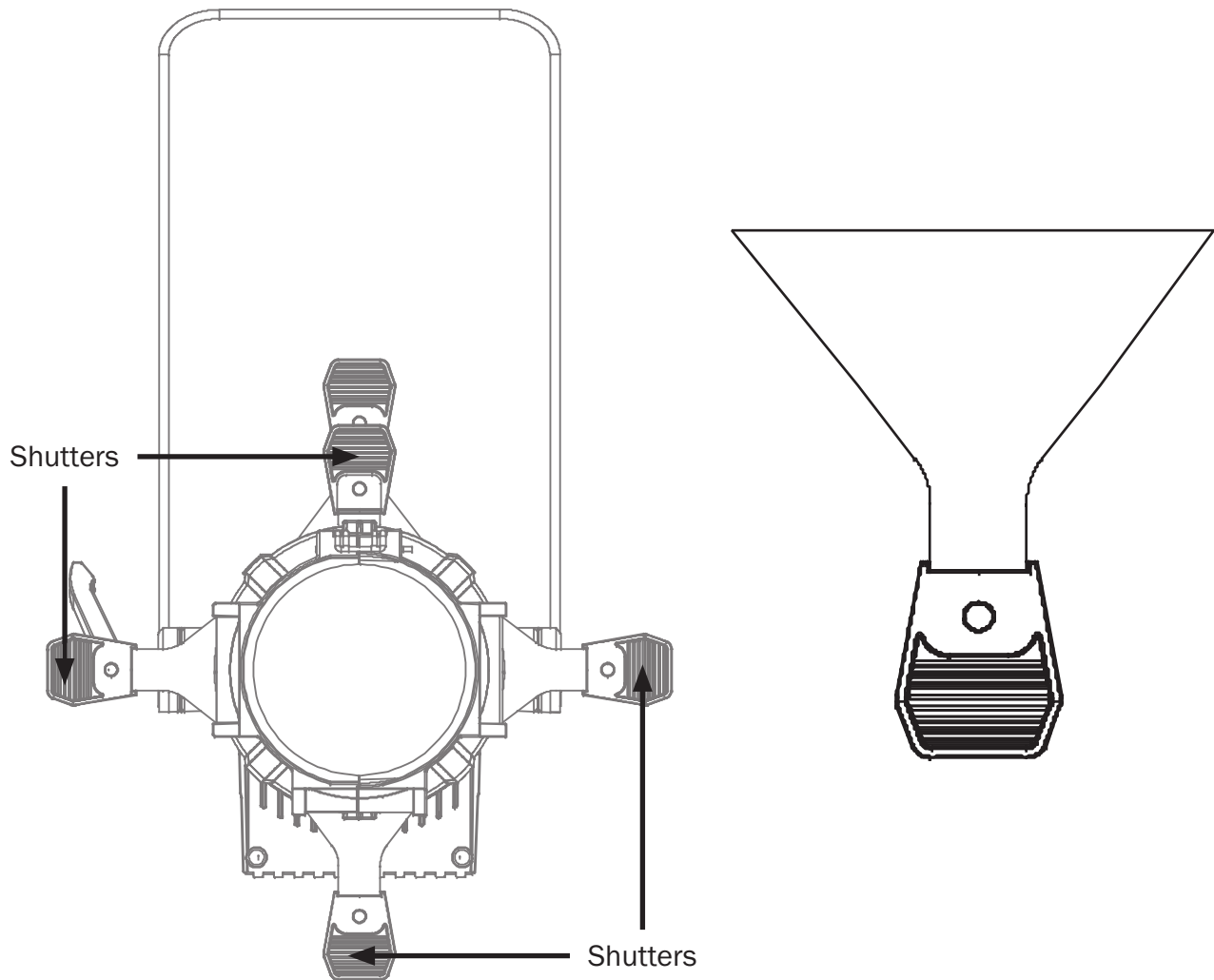
1. Use a screwdriver to loosen the screws on the slot cover (do not remove the screws).
2. Slide the cover completely forward to expose the slot.
3. Insert the iris or motorised pattern device. When installing an iris, install the flat side towards the shutters and make sure the iris handle extends upwards from the slot.
4. Slide the cover back towards the shutters until it meets the iris handle. Make sure any handles or adjustment tools that stick out the top are able to function correctly.
5. Secure the slot with the tightening screws.



Order code: ELUM132G

Shutters:

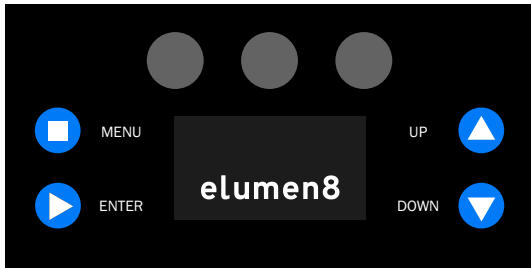
The shutters are located inside the barrel. They can be adjusted via the shutter handles to adjust the shape of the beam.



Control Panel Menu:

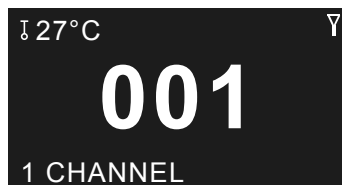
The LCD control panel situated on the rear of the fixture allows the user to access the menu system to adjust the fixtures settings.

When the unit has been powered on the display will show “**Elumen8**”.



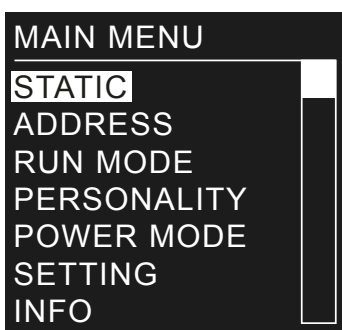
The fixture will then return to its home screen.

Please note: when DMX signal is being received the display will show a small ‘Y’ 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.



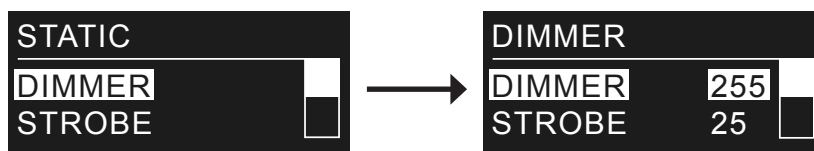
Instant fast focus mode:

If you need to focus the fixture quickly and easily when nobody is around to control via DMX you can put the fixture into “Instant fast focus mode”. To do this hold down the “**MENU**” button for 5 seconds and the fixture will come on at full brightness for 60 seconds, which will allow you to set the focus. After 60 seconds the fixture will return to normal operation.

Static mode setting:

To access Static mode setting, 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 between “DIMMER” and “STROBE”. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “0” - “100” (Dimmer) or “0” - “25” (Strobe).

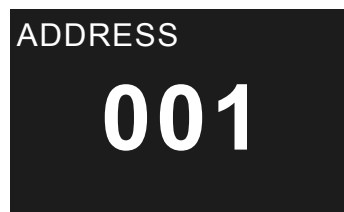
Press the “ENTER” button to confirm the setting.



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”.

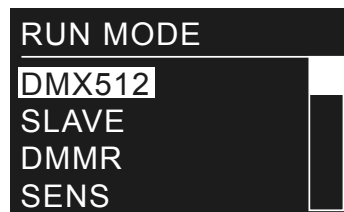
Press the “ENTER” button to confirm the setting.



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 “DMX512”, “SLAVE”, “DMMR” or “SENS”.

Press the “ENTER” button to confirm the setting.



DMX512 - Use this setting when using via a DMX controller.

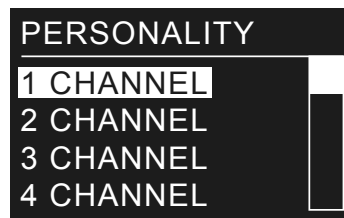
SLAVE - Use this setting when using the fixture via master/slave.

DMMR - Dimmer pack control mode

SENS - Auto detect DMX/DMMR mode

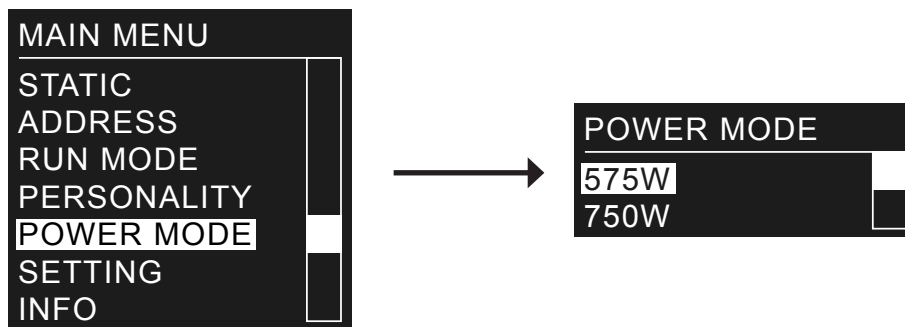
Channel mode (personality) setting:

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 “1 CHANNEL”, “2 CHANNEL”, “3 CHANNEL” or “4 CHANNEL”. Press the “ENTER” button to confirm the setting.



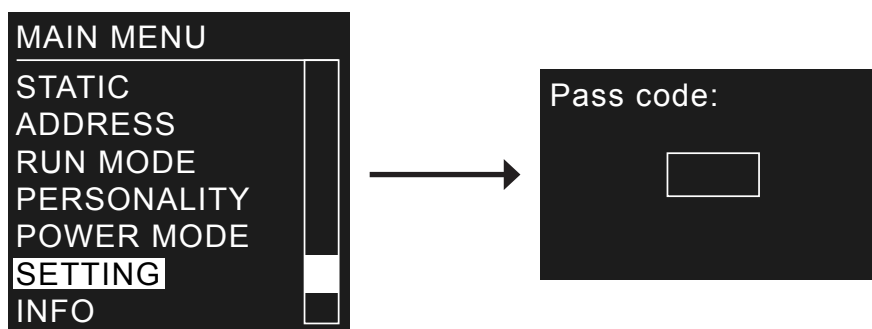
Power mode setting:

To access the Power mode setting, use the “UP” and “DOWN” buttons to select “POWER MODE”. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “575W” and “750W”. Press the “ENTER” button to confirm the setting.



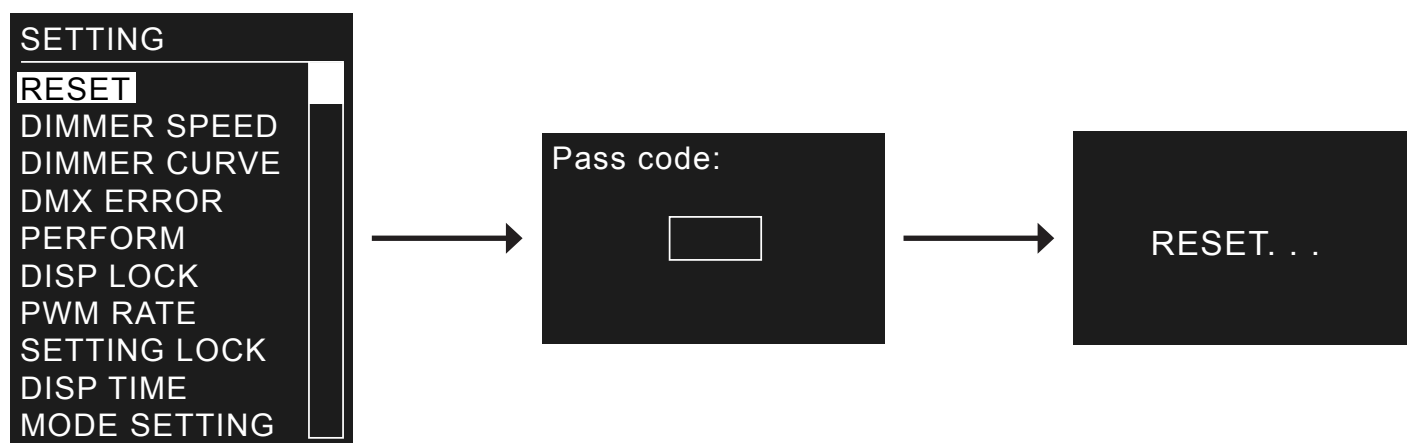
Settings menu:

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.



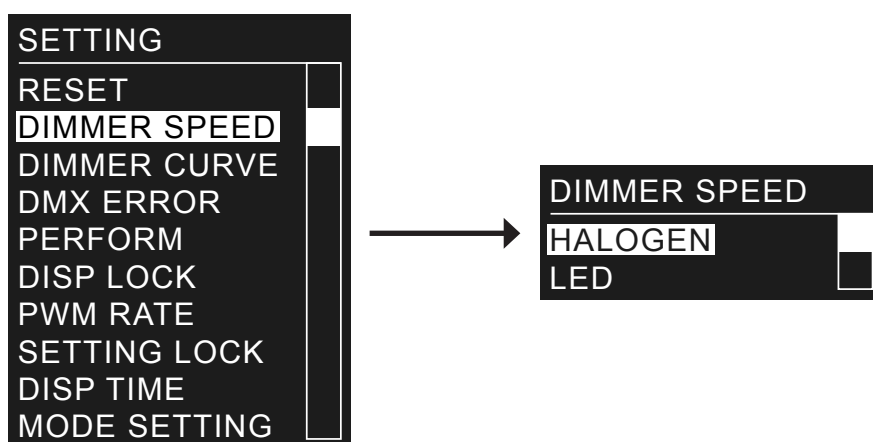
Reset setting:

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.



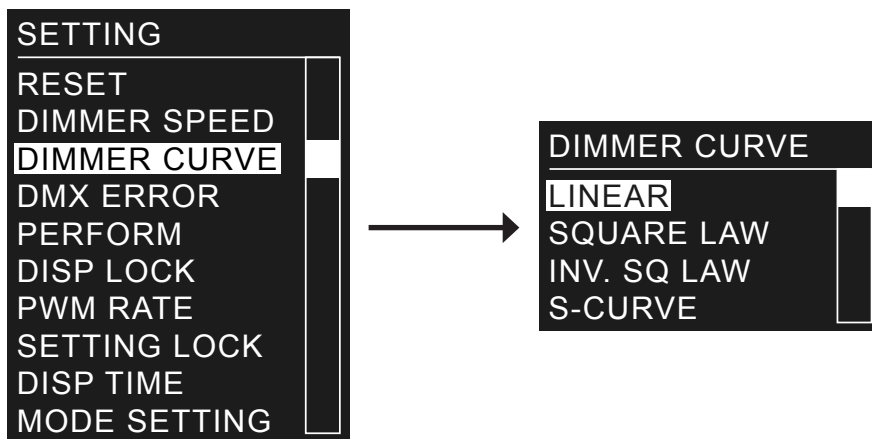
Dimming speed setting:

To access the dimming speed setting, use the “UP” and “DOWN” buttons to select “DIMMER SPEED”. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “HALOGEN” and “LED”. Press the “ENTER” button to confirm the setting.



Dimming curve setting:

To access the dimming speed setting, use the “UP” and “DOWN” buttons to select “DIMMER CURVE”. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “LINEAR”, “SQUARE LAW”, “INV. SQ LAW” and “S-CURVE”. Press the “ENTER” button to confirm the setting.

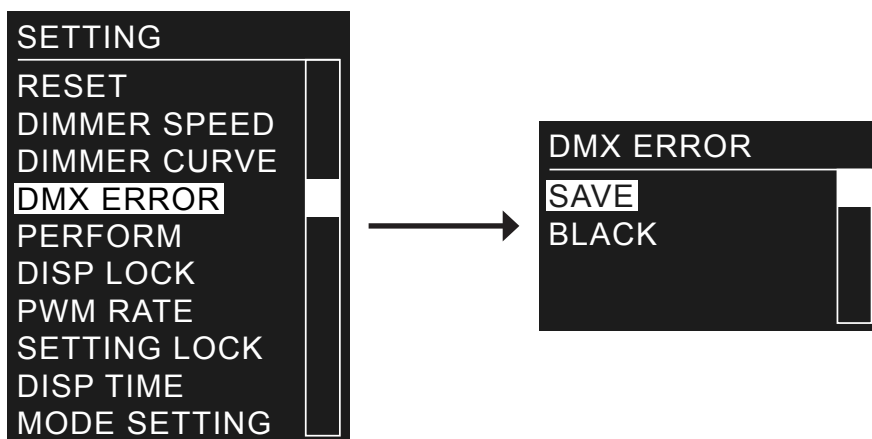


DMX fail setting:

To access the DMX fail setting, use the “UP” and “DOWN” buttons to select “DMX ERROR”. 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:

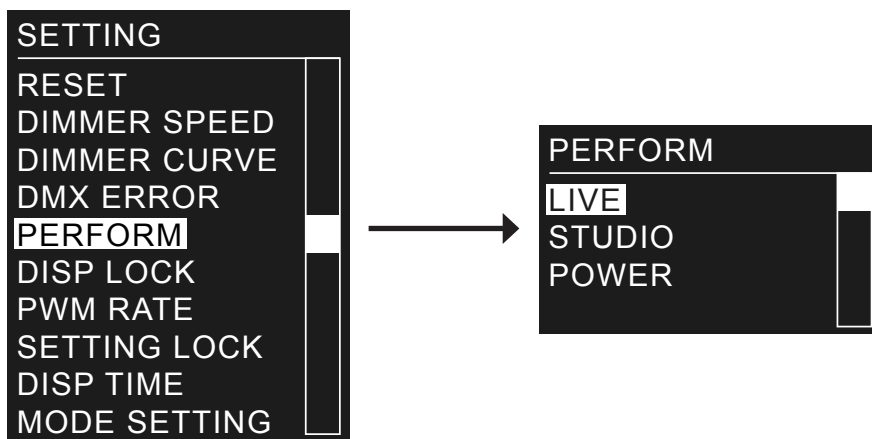
This setting allows the performance of the cooling fan to be adjusted.

To access the fan control setting, use the “UP” and “DOWN” buttons to select “PERFORM”. 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.



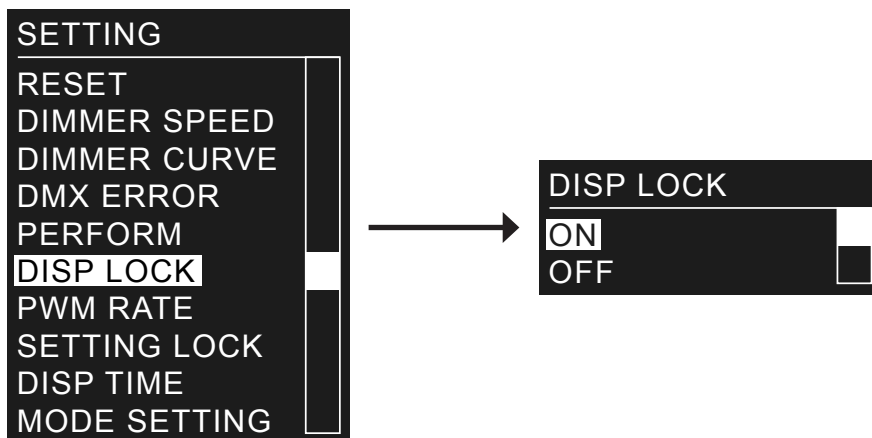
Display lock setting:

To access the Display lock setting, use the “UP” and “DOWN” buttons to select “DISP LOCK”. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “ON” and “OFF”.

Press the “ENTER” button to confirm the setting.

ON - PASS CODE required to unlock menu - “UP”, “DOWN”, “UP”, “DOWN”, “ENTER”.

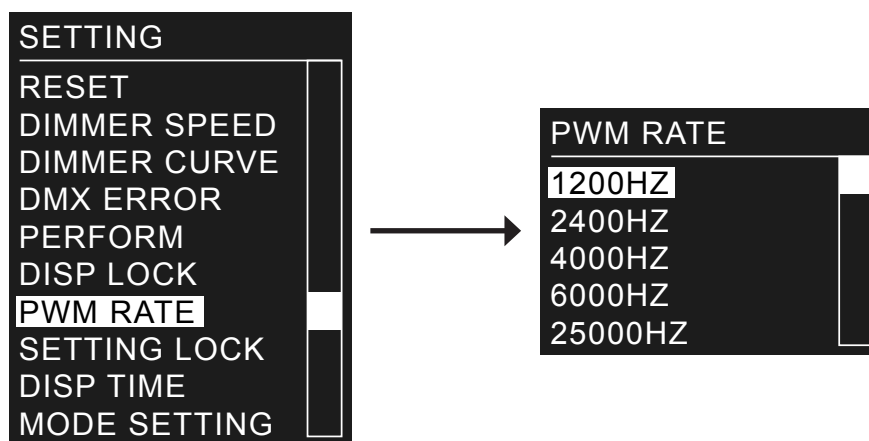
OFF - PASS CODE not required to unlock menu.



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.

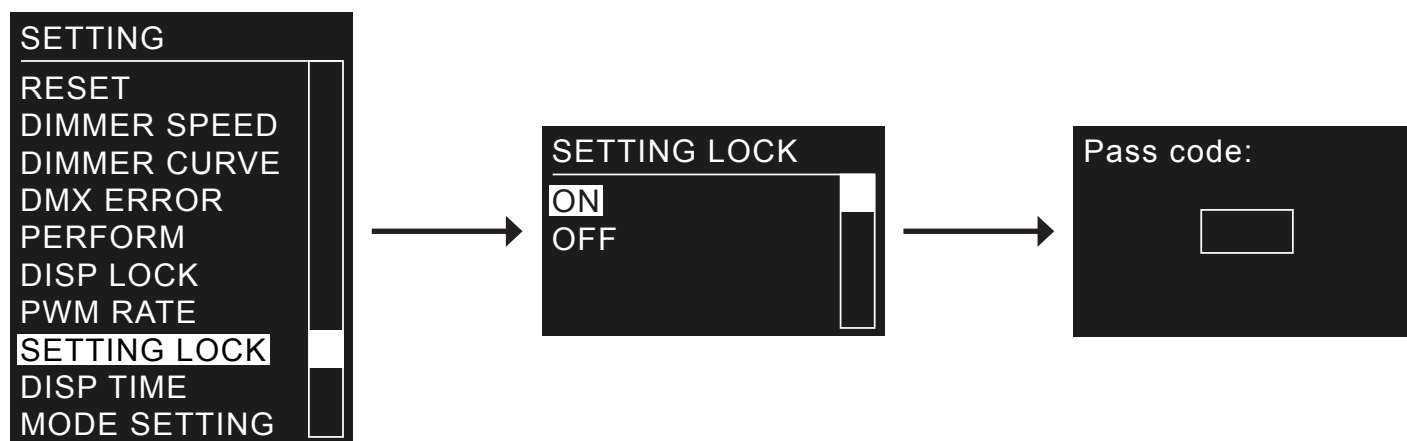


Safety lock setting:

To access safety lock setting, press the “ENTER” button and use the “UP” and “DOWN” buttons until “SETTING LOCK” 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”.



Display time setting:

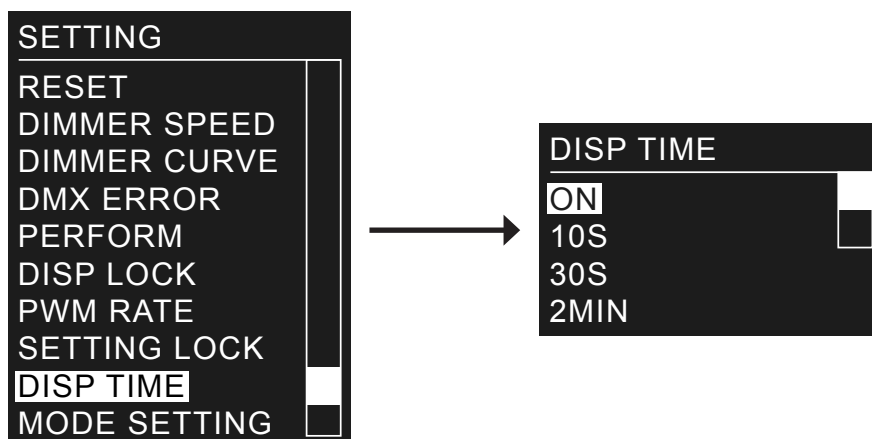
To access the Display time setting, use the “UP” and “DOWN” buttons to select “**DISP TIME**”. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “ON”, “10S”, “30S” and “2MIN”. Press the “ENTER” button to confirm the setting.

ON - Display constantly ON.

10S - Display will go off after 10 seconds.

30S - Display will go off after 30 seconds.

2MIN - Display will go off after 2 minutes.

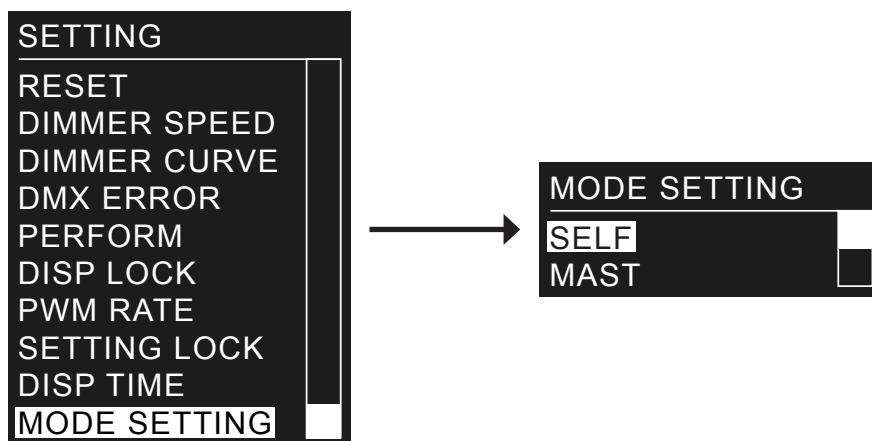


Mode setting:

To access the Mode setting, use the “UP” and “DOWN” buttons to select “**MODE SETTING**”. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “SELF” and “MAST”. Press the “ENTER” button to confirm the setting.

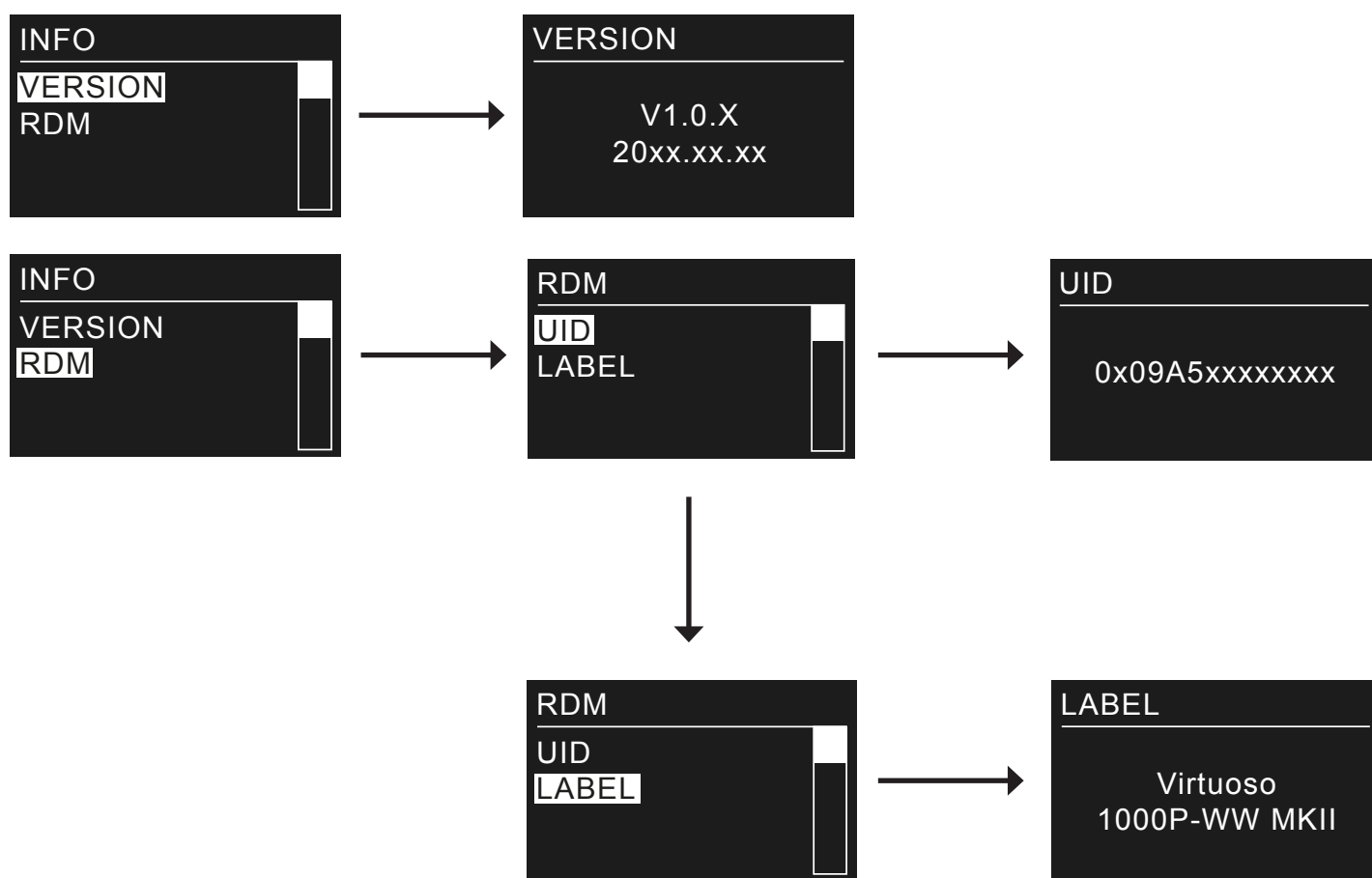
SELF - Stand Alone.

MAST - Master.



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.



1 channel mode :

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)

2 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-255	Dimmer fine (0-100%)

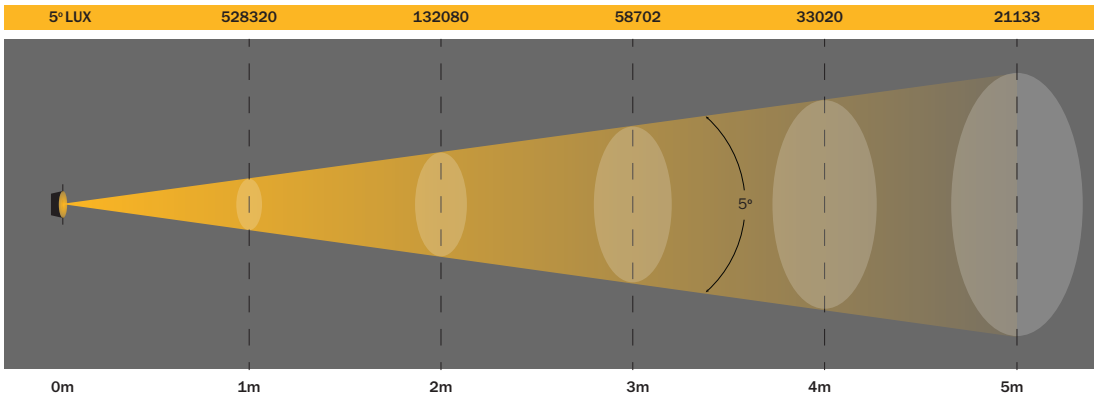
3 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-255	Dimmer fine (0-100%)
CH3	000-009	No Function
	010-099	Strobe (slow-fast)
	100-109	No Function
	110-179	Lighting Strobe (slow-fast)
	180-189	No Function
	190-255	Random Strobe (slow-fast)

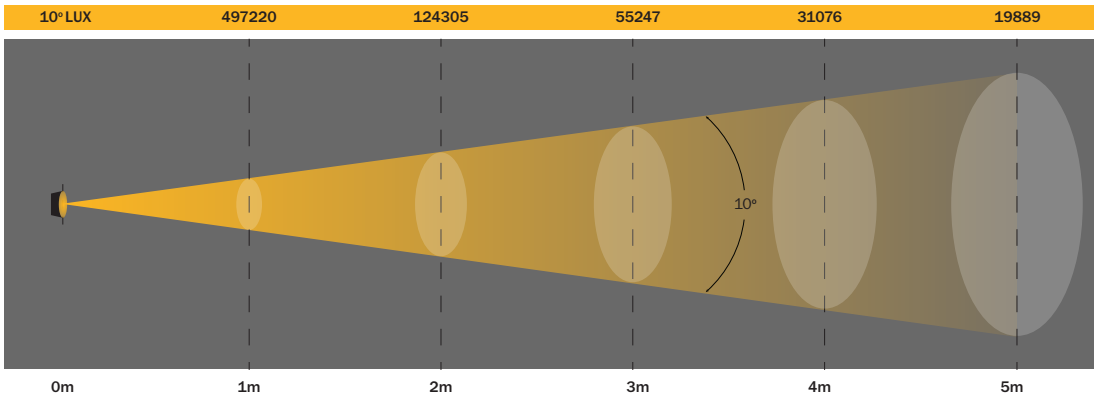
4 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-255	Dimmer fine (0-100%)
CH3	000-009	No Function
	010-099	Strobe (slow-fast)
	100-109	No Function
	110-179	Lighting Strobe (slow-fast)
	180-189	No Function
	190-255	Random Strobe (slow-fast)
CH4	Control (Execute after 3 seconds)	
	000-010	No Function
	011-020	Live
	021-030	Studio
	031-040	Power
	041-060	No Function
	061-070	Dimming speed halogen (DIM4)
	071-080	Dimming speed LED (OFF)
	081-100	No Function
	101-110	Linear
	111-120	Square law
	121-130	Inv. square law
	131-140	S-curve
	141-160	No Function
	161-170	1200Hz
	171-180	2400Hz
	181-190	4000Hz
	191-200	6000Hz
	201-210	25000Hz
	211-230	No Function
	231-240	All reset
	241-255	No Function

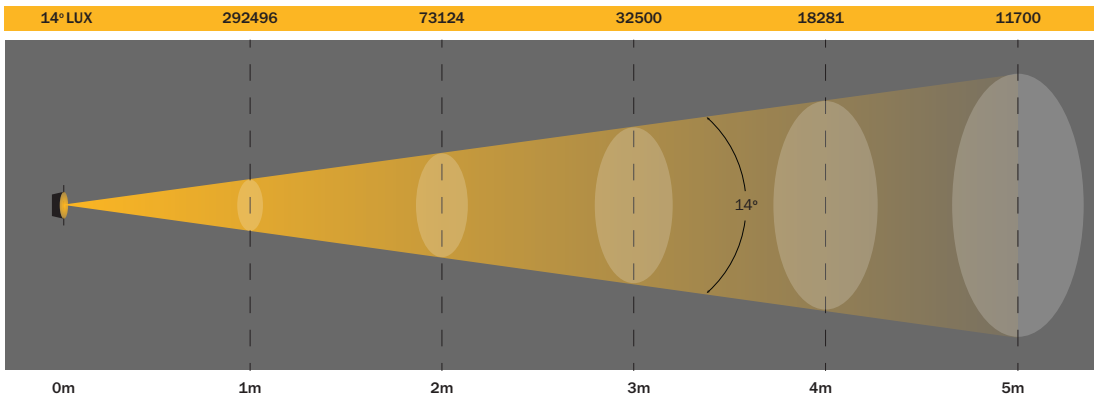
5° Fixed Lens (ELUM132L)



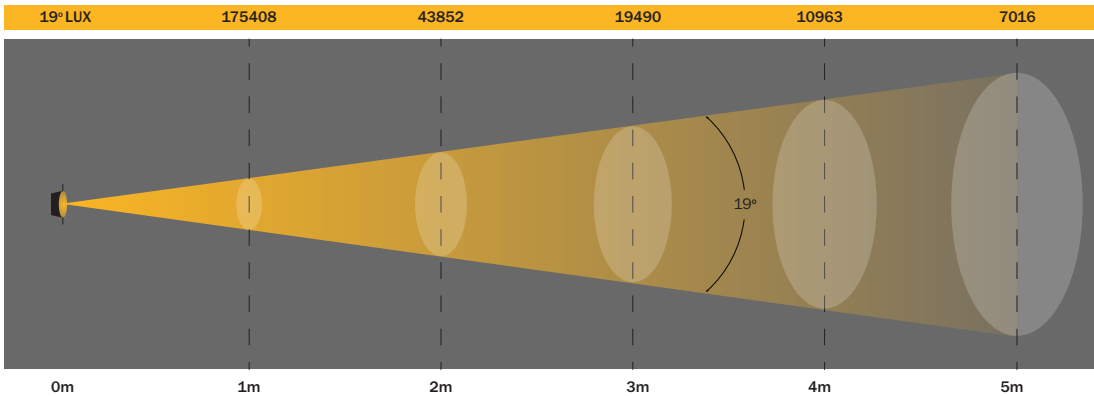
10° Fixed Lens (ELUM132M)



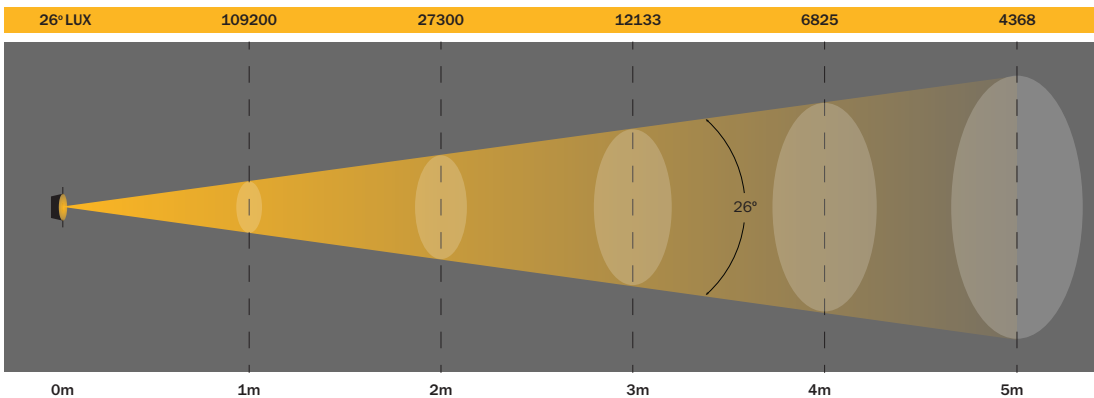
14° Fixed Lens (ELUM132N)



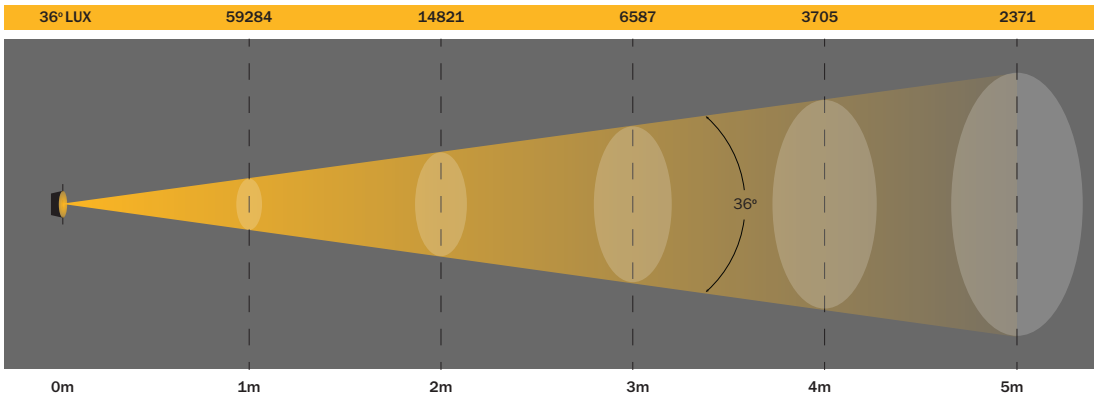
19° Fixed Lens (ELUM132C)



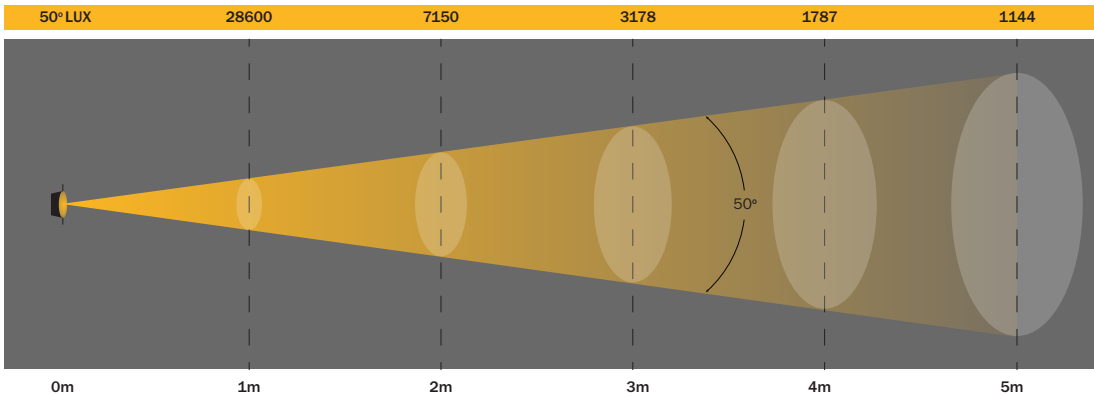
26° Fixed Lens (ELUM132D)



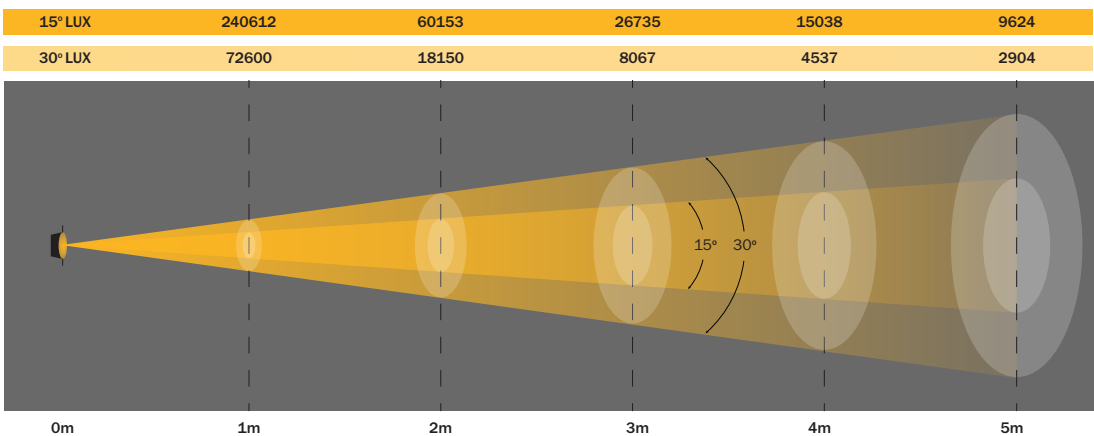
36° Fixed Lens (ELUM132E)



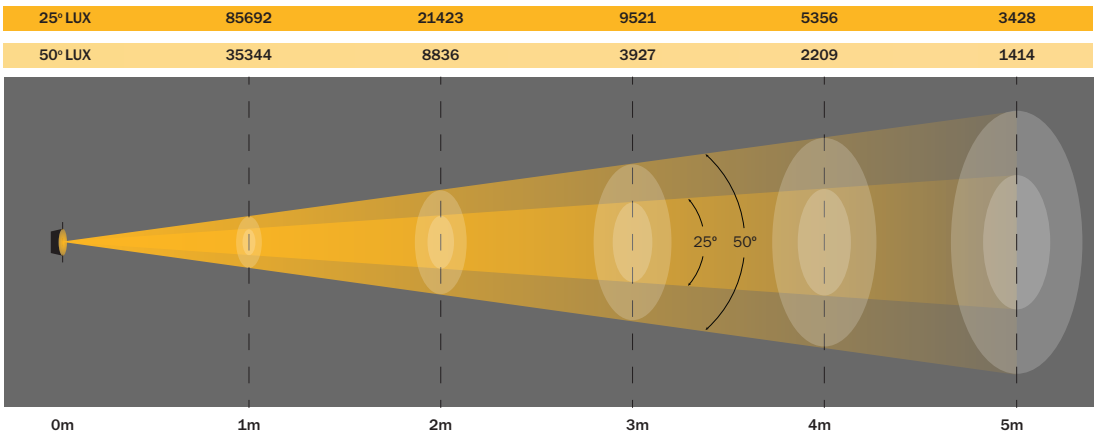
50° Fixed Lens (ELUM132F)



15° - 30° Fixed Lens (ELUM132A)



25°- 50° Fixed Lens (ELUM132B)



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 from 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.

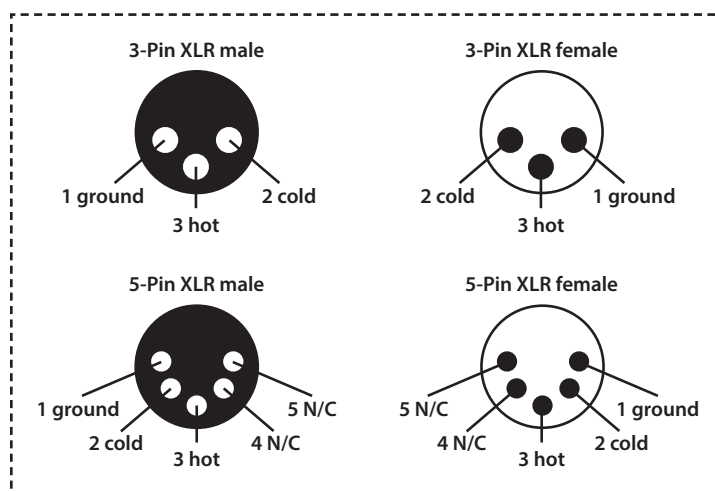
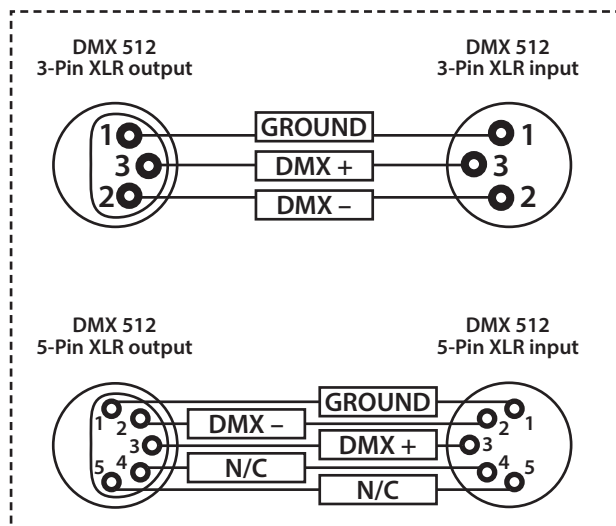
Please quote:	3-Pin:	CABL10 – 2m	CABL11 – 5m	CABL12 – 10m
	5-Pin:	CABL185 – 2m	CABL187 – 5m	CABL188 – 10m

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

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.

Pin Configuration	
3-Pin	5-Pin
	Pin 1 - Ground
	Pin 2 - Negative
	Pin 3 - Positive
-	Pin 4 - N/C
-	Pin 5 - N/C



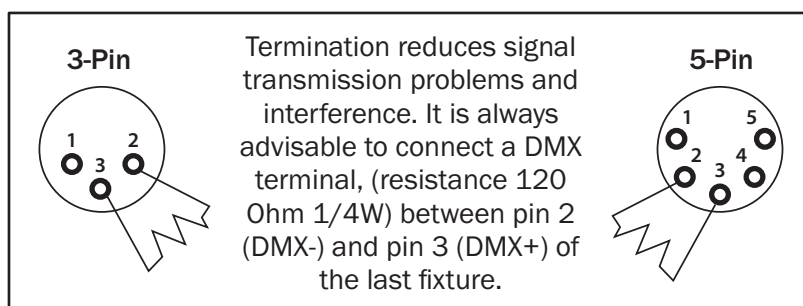
Line termination:

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.

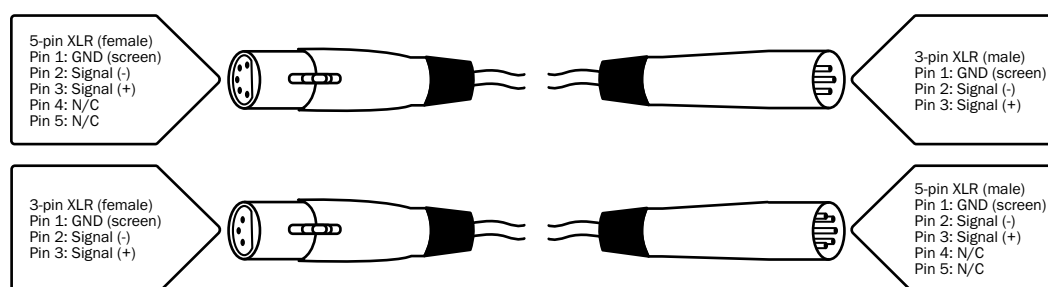
(3-pin - Order ref: CABL90,

5-pin - Order ref: CABL89)



5-pin XLR DMX connectors:

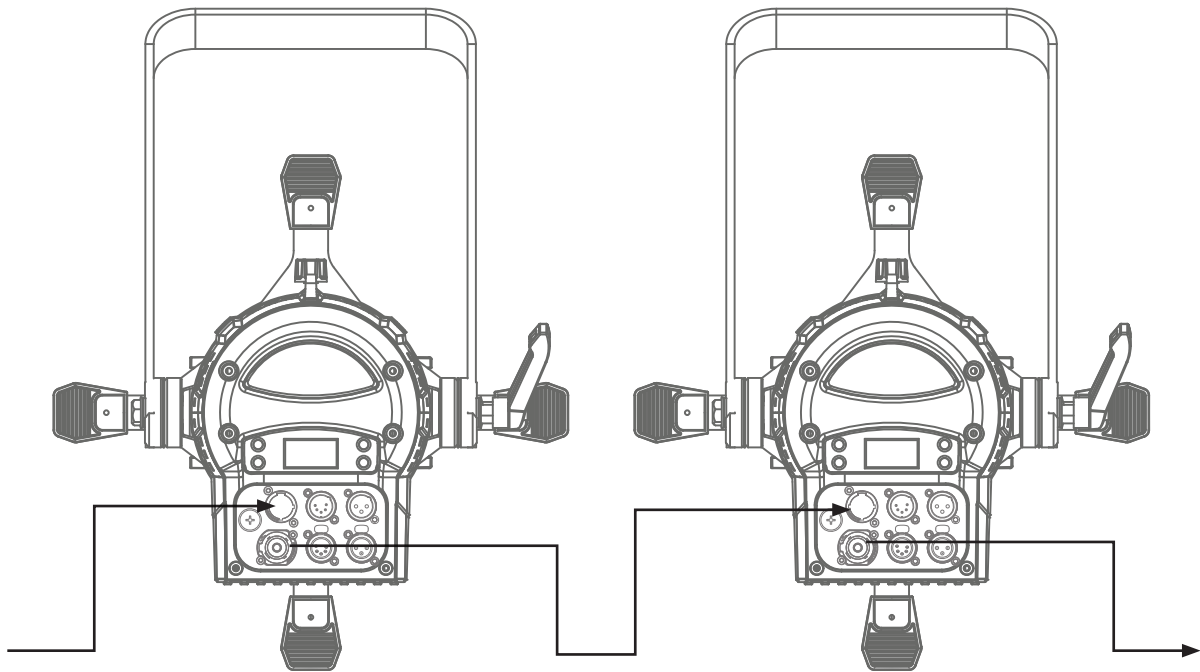
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



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 1000 Profile WW MKII 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.





***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.

