



1. Product Name

LED Shadow™

2. Product Code

20714

3. Colour

Black

4. Brief Description

Voice-activated LED UV black light

5. Contents

- 1 x LED Shadow™ light unit
- 1 x power cable
- 2 x flush mount brackets with screws

6. Snoezelen® Stimulations

- Sight

7. Best Use

Use with fluorescent products in a darkened environment.

8. Compatible ROMPA® Products

ROMPA® offers a range of fluorescent and UV reactive products – please visit www.rompa.com for more information.

9. Starting Up

- Because of the nature of this black light, it is not advisable to take any short-cuts when installing or using this product. Please read the entire manual and familiarise yourself with the product and the installation instructions before using it.

10. Detailed Description

Voice-activated LED UV black light. Maintenance-free as no delicate UV tubes. Features blackout/static/dimmer/strobe, built-in automatic programs and additional power output for daisy-chaining units together. Use with your white and fluorescent products. 90V-240V. Weight 2.2kg.

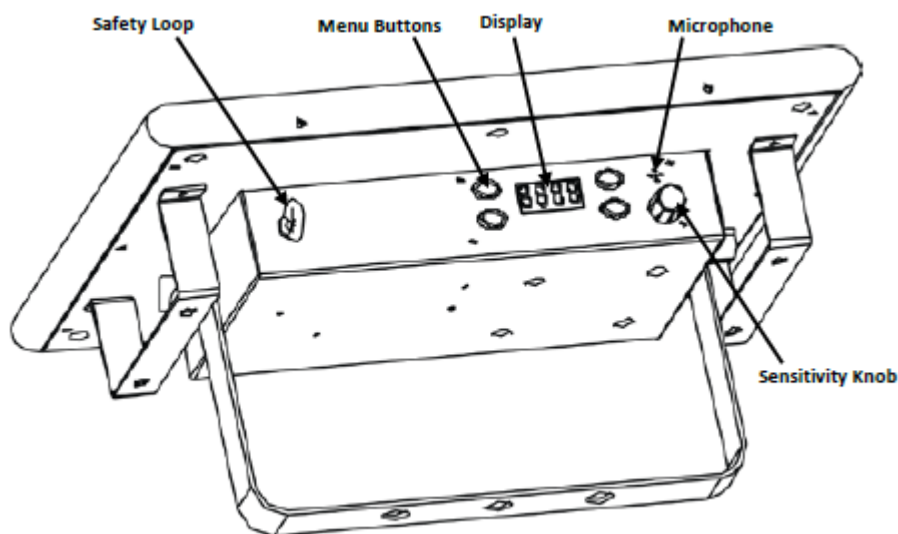
11. Safety

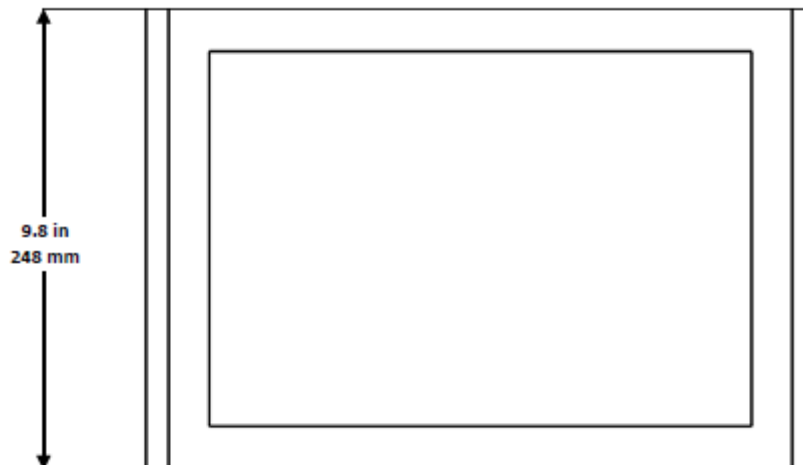
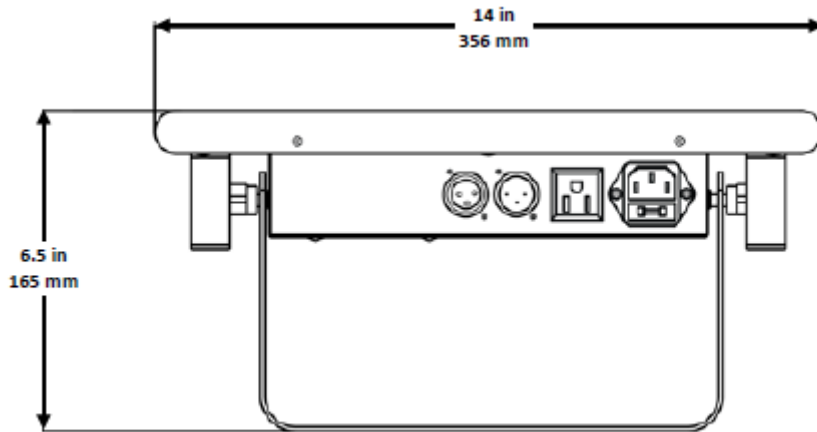
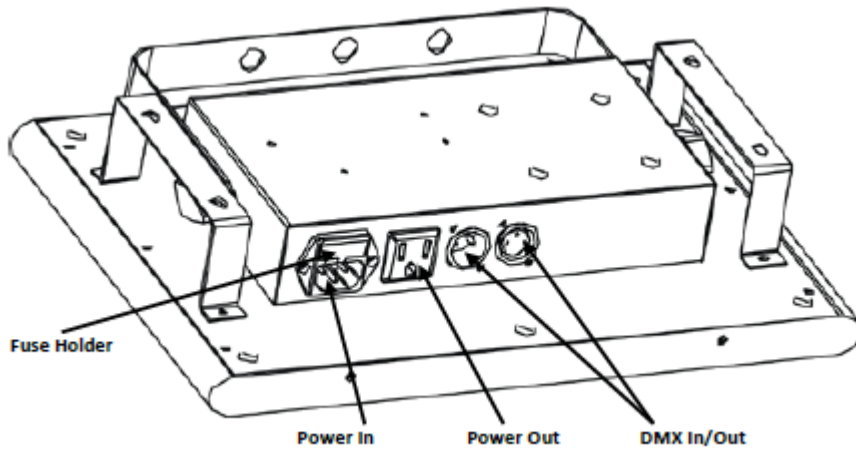
- For indoor, dry environments only. Keep away from moisture.
- Keep away from flammable objects and sources of heat (minimum distance of 1m).
- Supervise the use of this product.
- Avoid looking directly into the light.
- Limit exposure to UV light – a maximum of 1 hour for adults and 5 hours for children, assuming that the UV light is at ceiling height. If a user is to continually stand at the light then exposure should be limited to one hour.
- Do not use this product if the covers are open or if any internal component is missing.
- Should this product or its power cord become damaged, cease use of it immediately.
- Connect the product to mains of the correct voltage – check the label on the product.
- Unplug the plug – do not pull the power cord to unplug it.
- If mounting the product overhead, secure to a fastening device using a safety cable.
- Do not touch the product's housing when operating because it may be very hot.
- Never connect the product to a dimmer.
- Make sure to replace the fuse with another of the same type and rating.
- Never carry the product from the power cord or any moving part. Always use the hanging/mounting bracket.
- The maximum ambient temperature (Ta) is 104°F (40°C). Do not operate the product at higher temperatures.
- In the event of a serious operating problem, stop using the product immediately.

12. Technical Specification

Size: 36L x 25W x 17cmH
 Weight: 2.2kg
 Voltage: 100V-240V 50/60Hz

Power	Power Supply Type	Range	Voltage Selection
	Switching (internal)	100 to 240 VAC, 50/60 Hz	Auto-ranging
	Parameter	120 V, 60 Hz	230 V, 50 Hz
	Consumption	12 W	11 W
	Operating Current	0.1 A	0.1 A
	Power linking current (products)	8 A (43 products)	8 A (74 products)
	Fuse	F 1 A, 250 V	F 1 A, 250 V
	Power I/O	U.S./Worldwide	UK/Europe
	Power input connector	IEC	IEC
	Power output connector	Edison	IEC
Power Cord plug	Edison (U.S.)	Local plug	
Light Source	Type	Power	Lifespan
	LED	0.25 W	100,000 hours
	Color	Quantity	Current
	UV	192	20 mA
Photometrics	Parameter		
	Coverage Angle	28°	
	Wavelength	405 nm	
Thermal	Maximum External Temp.	Cooling System	
	104 °F (40 °C)	Convection	
DMX	I/O Connectors	Channel Range	
	3-pin XLR	3	



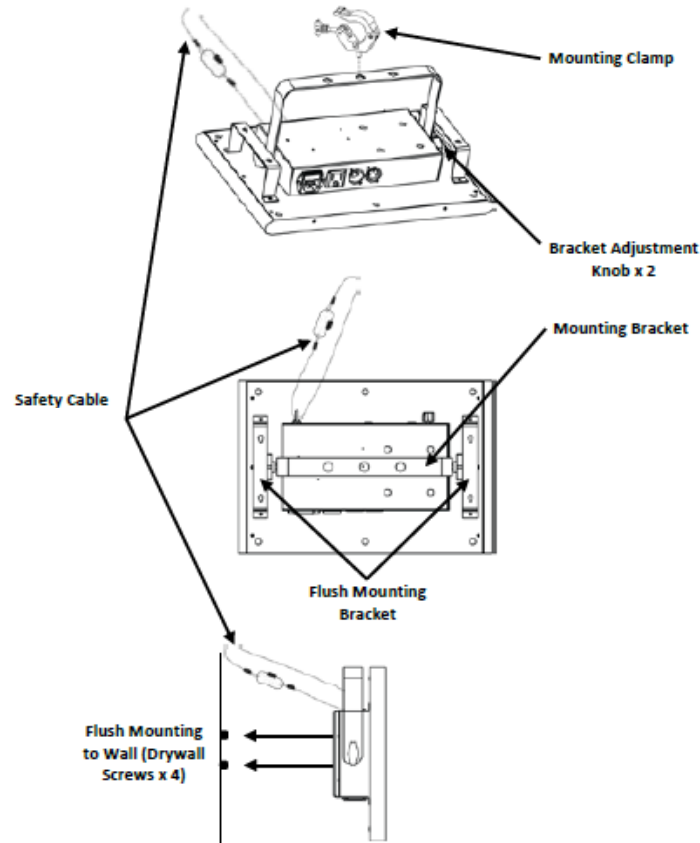


13. Installation

Unpack, identify all the parts and keep the packaging in a safe place.
Make sure the product is appropriately earthed.

Mounting:

1. Choose an appropriate mounting location, bearing in mind the following:
 - Make sure there is easy access to the product for maintenance and programming purposes.
 - Adequate ventilation is required – at least 50cm from adjacent surfaces.
 - The product should be plugged in directly to the mains without using dimmers.
 - Any fixture used must be capable of supporting the weight of the product and must appropriate to the construction of the surface the product will be attached to.
 - Use a safety cable/chain to further secure the LED Shadow.
 - If linking multiple products, ensure these are close enough together for power linking cables to reach.
 - The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.



AC Power:

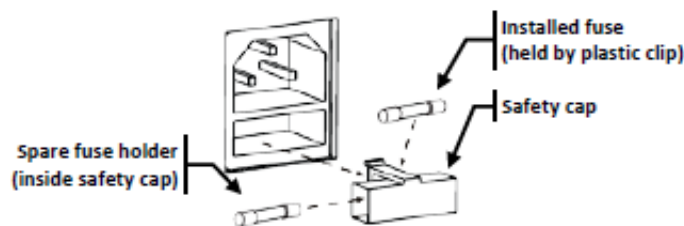
The LED Shadow™ has an auto-ranging power supply and it can work with an input voltage range of 100-240 VAC, 50/60 Hz. To determine the product's power requirements (circuit breaker, power outlet and wiring), use the current value listed on the label affixed to the product or refer to the product specification chart. The listed current rating indicates the product's average current draw under normal conditions.

Always connect the product to a protected circuit (Circuit breaker or fuse). Make sure that the product has an appropriate electrical ground to avoid the risk of electrocution or fire.

Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 – 100% switch.

Fuse Replacement:

- Disconnect the product from the power outlet before replacing the fuse.
- Wedge the tip of a flat-head screwdriver into the slot of the fuse holder.
- Pry the fuse holder out of the housing.
- Remove the blown fuse from the holder and replace with a fuse of the exact same type and rating.
- Insert the fuse holder back in place and reconnect power.



Configuration (DMX Linking):

The LED Shadow can work with a DMX controller. Set the product in DMX mode to control with a DMX controller.

Connect the product to a suitable power outlet.

Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.

When selecting a starting DMX address, always consider the number of DMX channels the product uses. If you choose a starting address that is too high, you could restrict the access to some of the product's channels.

The LED Shadow uses 3 DMX channels which defines the highest configurable address to 510.

To select the starting address, do the following:

Press **<MENU>** repeatedly until "**Addr**" shows on the display

Press **<ENTER>** and **d001-510** will show on the display

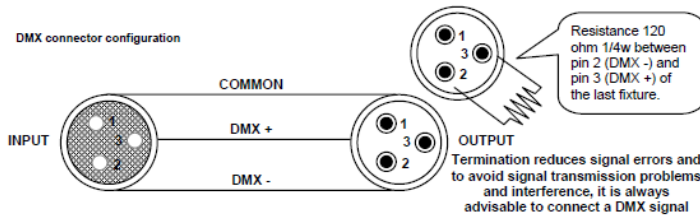
Use **<UP>** or **<DOWN>** to select the starting address.

Press <ENTER>.

DMX Channel Assignments and Values:

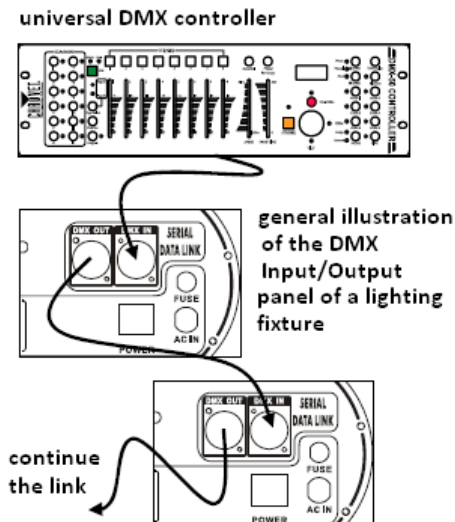
3-CH	Channel	Function	Value	Percent/Setting
1	Mode		000	No function
			001 ✕ 039	Dimmer mode
			040 ✕ 079	Automatic mode 1
			080 ✕ 119	Automatic mode 2
			120 ✕ 159	Automatic mode 3
			160 ✕ 199	Automatic mode 4
			200 ✕ 239	Automatic mode 5
			240 ✕ 255	Sound-active
2	Strobe Mode Speed (When Ch. 1 is 001 ✕ 039)		000 ✕ 009	No strobe
			010 ✕ 255	Strobe speed (0-100%)
	Auto Mode Speed (When Ch. 1 is 040 ✕ 239)		000 ✕ 255	Automatic mode speed (slow to fast)
3	No Function (When Ch. 1 is 240 ✕ 255)		000 ✕ 255	No function
3	Intensity		000 ✕ 255	100-0%

You will require a suitable DMX controller and appropriate serial data link cables. Fixtures on a serial data link must be daisy-chained on one single line. Cabling must have a male XLR connector at one end and a female XLR connector on the other end.



Setting up a DMX Serial Link:

Connect the male 3 pin connector of the DMX cable to the female output 3 pin connector of the controller. Connect the end of the cable coming from the controller (which will have a female 3 pin connector) to the input connector of the next fixture (a male 3 pin connector). Repeat for further devices.



Standalone/Master-Slave Fixture Linking:

Connect the male 3 pin connector of the DMX cable to the female output 3 pin connector of the first device.

Connect the end of the cable coming from the first device (which will have a female 3 pin connector) to the input connector of the next device (a male 3 pin connector).

Repeat for further devices.

Operation:

To access the control panel functions, use the four buttons located under the display. Please refer to the Product Overview to see the button locations on the control panel.

Button	Function
<MENU>	Press to find an operation mode or to back out of the current menu option
<ENTER>	Navigates upwards through the menu list and increases the numeric value when in a function
<UP>	Navigates downwards through the menu list and decreases the numeric value when in a function
<DOWN>	Enables the currently displayed menu or sets the currently selected value into the selected function

Main Level	Programming Steps		Description
Aut (automatic)	Aut0	S. 01-99	Automated programs and speed
	Aut1		
	Aut2		
	Aut3		
	Aut4		
Sou (sound-active)	Soud		Sound-Active mode
CoL	CoLo	L.000-255 (UV)	Dimmer
		S. 0-8	Strobe rate
Addr	d001-510		3-channel DMX mode
SLA	SLAV		Slave mode
SYS	LEdS	On	Display timeout on
		oFF	Display timeout off
	tEST		Performs a test of all LEDs
rEST		Resets the software	

Configuration (stand-alone):

Set the product in one of the stand-alone modes to control without a DMX controller.

Connect the product to a suitable power outlet.

Note: Never connect a product that is operating in any stand-alone mode to a DMX string connected to a DMX controller. Products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

Auto Programmes:

To run an auto program, do the following:

Press <MENU> repeatedly until **Aut** shows on the display

Press <ENTER> and Aut0-5 will show on the display.

Use <UP> or <DOWN> to select the desired program.

Press <ENTER> and S. 01-99 will show on the display.

Use <UP> or <DOWN> to increase or decrease the programme speed.

Press <ENTER>.

To run the LED Shadow™ in sound activation mode, follow the instructions below:

1. Press <MENU> repeatedly until **Sou** shows on the display.
2. Press <ENTER> **Soud** will show on the display
3. Turn the sensitivity knob until the product responds to the beat of the music.

In sound activation mode, the product will only respond to low frequencies of music (bass and drums).

Manual Mode:

To turn the LED Shadow in manual mode, follow the instructions below:

Press <MENU> repeatedly until **CoL** shows on the display.

Press <ENTER> and **CoLo** will show on the display.

Press <ENTER> again and L.00-255 will show on the display.

Use <UP> or <DOWN> to increase or decrease the dimmer value.

Press <ENTER> and S. 0-8 will show on the display.

Use <UP> or <DOWN> to increase or decrease the strobe rate.

Press <ENTER>.

Display Timeout:

To turn the display timeout on or off, do the following:

Press <MENU> until **SYS** shows on the display.

Press <ENTER> and **LEdS**, **tEST**, or **rEST** will show on the display.

Use <UP> or <DOWN> to select **LEdS**.

Press <ENTER> and **on** or **oFF** will show on the display.

Use <UP> or <DOWN> to select whether the display timeout should be **on** or **oFF**.

Press <ENTER>.

Test Mode:

To reset the software of the LED Shadow, do the following:

Press <MENU> until **SYS** shows on the display.

Press <ENTER> and **LEdS**, **tEST** or **rEST** will show on the display.

Use <UP> or <DOWN> to select **rEST**.

Press <ENTER>.

Reset:

To reset the software of the LED Shadow, do the following:

Press <MENU> until **SYS** shows on the display.

Press <ENTER> and **LEdS**, **tEST**, or **rEST** will show on the display.

Use <UP> or <DOWN> to select **rEST**.

Press <ENTER>.

Master/Slave Mode:

The Master/Slave mode allows a single LED Shadow product (the “master”) to control the actions of one or more LED Shadow products (the Slaves) without the need of a DMX controller. The master product will be set to operate in either Automatic mode or Sound-Activation mode, while the slave products will operate in unison with the master product.

Configure the products as indicated below:

Slave products:

Press <MODE> until **SLA** shows on the display.

Press <ENTER> to accept. **SLAV** will show in the display.

Connect the DMX input of the first slave product to the DMX output of the master product.

Connect the DMX input of the subsequent slave products to the DMX output of the previous slave product.

Finish setting and connecting all the slave products.

Master Product:

Set the master product to run in Auto mode or Sound Activation Mode.

Make the master product the first product in the DMX daisy chain.

Configure all of the slave products before connecting the master to the daisy chain.

Never connect a DMX controller to a DMX string configured for Master/Slave operation because the controller may interfere with the signals from the master.

Do not connect more than 31 slaves to the master.

14. Care and Maintenance

Clean the device regularly – typically twice a month. Dust can cause over-heating and reduces light output.

To clean the product, follow the instructions below:

- Always unplug after use and before cleaning or any maintenance. Allow the product to cool before handling – allow at least 15 minutes. The fixture surface may reach temperatures of up to 160°C (320°F).
- Use a vacuum cleaner or dry compressed air and a soft brush to remove dust from external surface and vents. Clean all glass with a mild solution of glass cleaner and a

soft lint-free cloth or lens tissue. Apply the solution to the cloth and drag dirt to the outside of the lens. Gently polish optical surfaces till they are clean and free of haze and lint. Do not touch the glass with your hands during cleaning. Periodically clean internal and external lenses and/or mirrors to optimize light output. Allow all parts to dry properly. Clean external optics at least every 20 days. Clean internal optics at least every 30 days.

- Should the product fail, cease use immediately. Do not attempt to repair this product yourself. There are no user-serviceable parts inside the unit. Please contact ROMPA® in the case of product failure.
- Once this product is eventually exhausted, please dispose of it appropriately and responsibly.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use, completely disconnect the product from power.

15. Troubleshooting

In the unlikely event of product failure, please check the following:

Problem: The LED Shadow will not work

- Check the product is plugged in
- Check the fuse

Further copies of these instructions can be downloaded at www.rompa.com

We hope you find our instructions invaluable. If you have any suggestions for improving them further your comments will be greatly received – please contact us at

producthelp@rompa.com