

EQUIN X
www.prolight.co.uk

Gobo projector



ORDER CODE: EQLED78 - BLACK
ORDER CODE: EQLED78A - WHITE

USER MANUAL

WARNING

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

**CAUTION!**

**Keep this equipment away from rain,
moisture and liquids.**

**SAFETY INSTRUCTIONS**

Every person involved with the installation, operation & maintenance of this equipment should:

- Be competent
- Follow the instructions of this manual



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



Before your initial start-up, please make sure that there is no damage caused during transportation. Should there be any, 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 equipment.
- Do not open the equipment and do not modify the equipment.
- 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.
- Cleaning must be done at regular intervals.
- Before cleaning, wait until the unit has cooled.
- Use a vacuum or dry compressed air and a soft brush to remove the dust collected on the external vents and accessible internal components.
- Clean the external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol and wipe with a soft, lint free cotton cloth or lense cleaning tissue.
- 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 voltage is between 100V-240V.
- Make sure that the power-cable is never crimped or damaged. Check the equipment and the power-cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately. Have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight 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.
- WARRANTY; One year 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, electric shocks, LED failure etc.

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

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

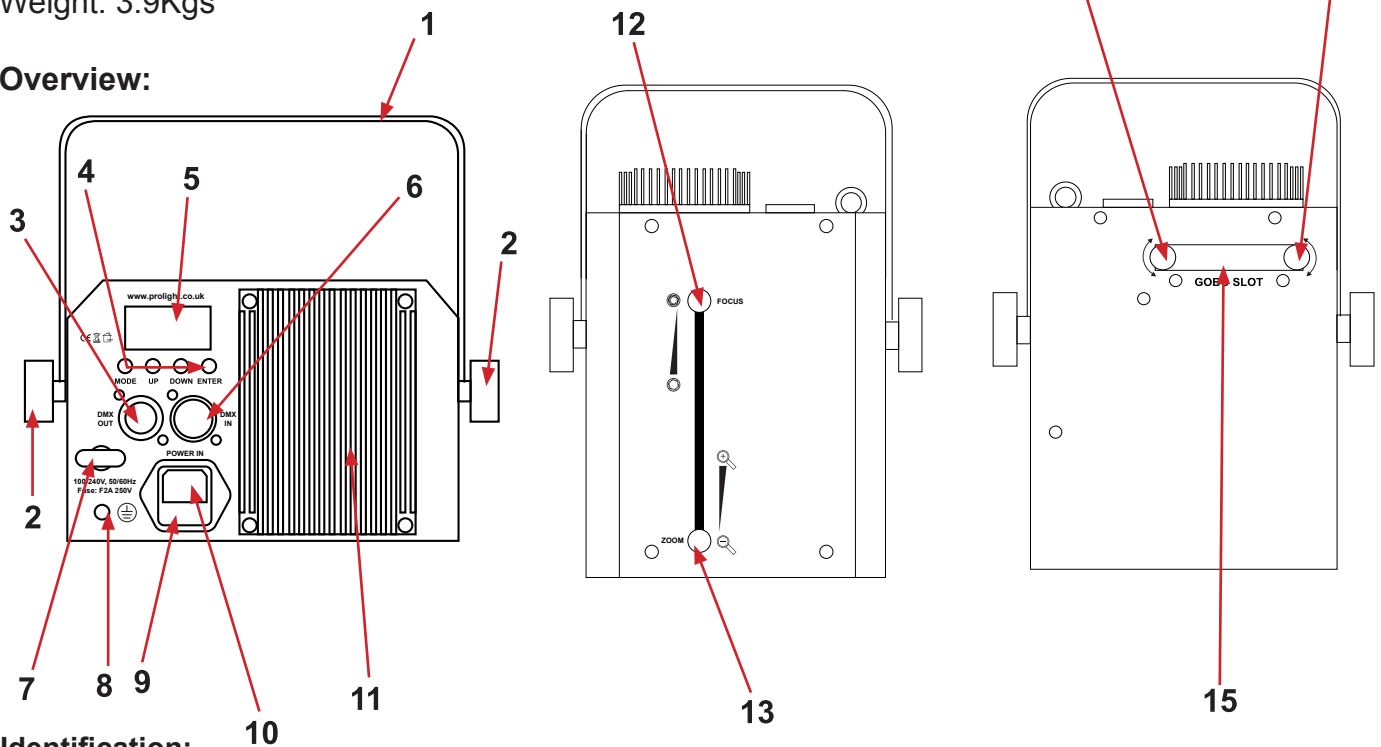
You should find inside the carton the following items:

- | | | | |
|------------------------------|---------------------|----------------|----------------|
| 1, Equinox Gobo Projector | 2, Power cable | 3, User manual | 4, Power cable |
| 5, 11 user replaceable gobos | 6, 4 colour filters | | |

Technical Specifications:

- DMX channels: 1 or 3 selectable
- Operating modes: 1, Dimming, 2, Auto 3, DMX
- 1 x 30W COB LED
- 1100Hz refresh rate
- 11 user replaceable gobos
- 4 colour filters: Yellow, pink, green and blue
- Users can print own gobos using standard transparency up to 1,0mm
- 7880 Lux @ 2m
- 4 push button menu with LED display
- IEC power in socket
- 3-Pin XLR in/out sockets
- Convection cooled
- Power consumption: 50W
- Power supply: 100~240V~50-60Hz
- Dimensions: 242 x 244 x 212mm
- Weight: 3.9Kgs

Overview:



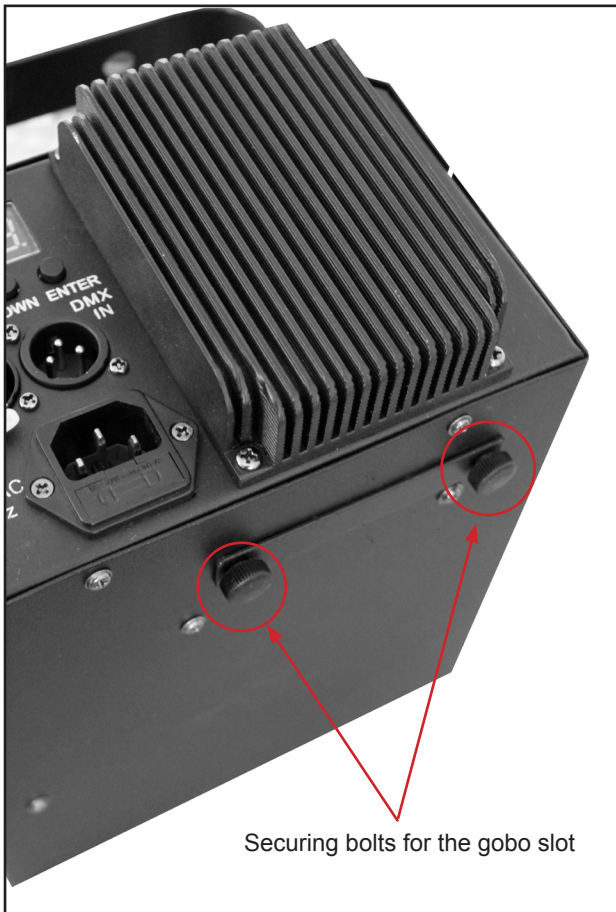
Identification:

- | | | |
|-------------------------------------|------------------------------|------------------------------|
| 1. Hanging bracket | 7. Safety eye | 13. Zoom adjustment control |
| 2. Hanging bracket tightening knobs | 8. Earth screw | 14. Gobo slot securing bolts |
| 3. DMX output socket | 9. Main fuse (F2A, 250V) | 15. Gobo slot |
| 4. Function buttons | 10. IEC power in socket | |
| 5. LED display | 11. Heat sink | |
| 6. DMX output socket | 12. Focus adjustment control | |

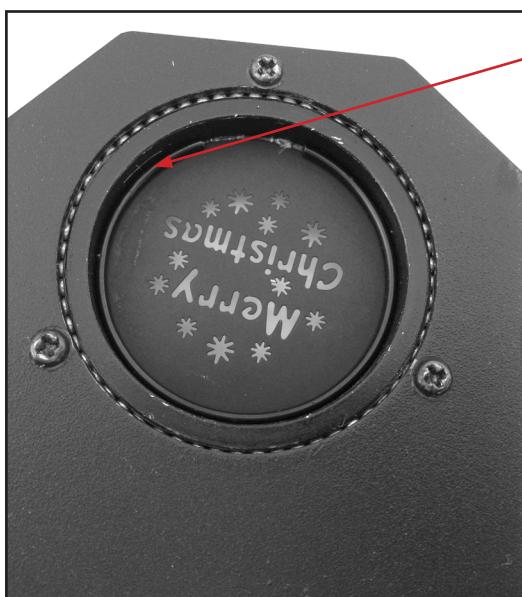
Changing a gobo / colour filter

IMPORTANT: Before changing the gobos/colour filter please make sure that the unit is unplugged from the mains power supply.

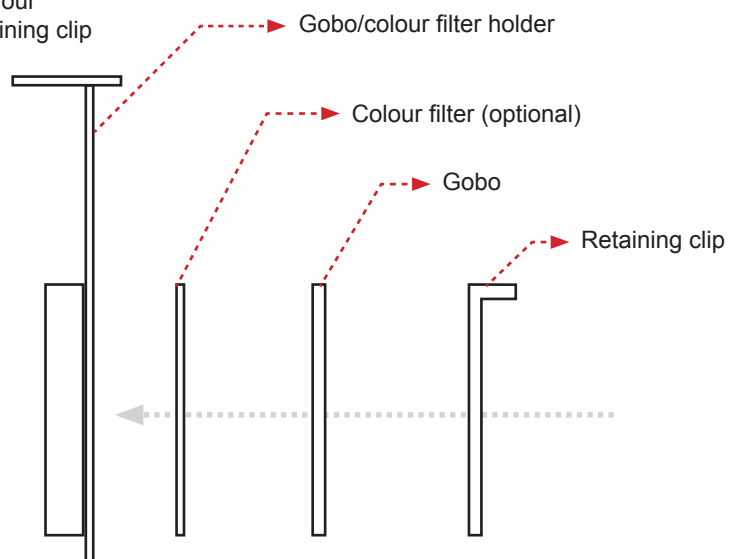
To change the gobo/colour filter, unscrew the two bolts on the underside of the unit and lift out the section as shown in the picture below. Release the retaining clip that holds the gobo in place and you can now replace any of the 11 gobos included with the unit or use your own custom made gobo (sold separately).



Securing bolts for the gobo slot



Gobo/colour filter retaining clip



DMX mode:

To select DMX mode, press the “**MENU**” button to show “**000**” on the display and press the “**ENTER**” button. Now use the “**UP**” and “**DOWN**” buttons to set the DMX address from 001-512.

For DMX functions, please refer to the DMX function chart overleaf.

DMX channel mode:

To choose one of the DMX channel modes, whilst in the DMX mode, press the “**ENTER**” button and use the “**UP**” and “**DOWN**” button to choose 1 or 3 DMX channel modes. To confirm your choice, press the “**ENTER**” button.

Dimming mode:

To select dimming mode, press the “**MENU**” button to show “**000**” on the display and press the “**ENTER**” button. Now use the “**UP**” and “**DOWN**” buttons to set the desired dimming level from 000-255. When you have finished press the “**ENTER**” button to confirm the setting.

Strobe mode:

To select strobe mode, press the “**MENU**” button to show “**5780**” on the display and press the “**ENTER**” button. Now use the “**UP**” and “**DOWN**” buttons to set the desired strobe level from 000-255. When you have finished press the “**ENTER**” button to confirm the setting.

Gobo mode:

To select gobo mode, press the “**MENU**” button to show “**6060**” on the display.

In the gobo mode you can set the speed and direction of the gobo. To adjust the gobo setting press the “**ENTER**” button to show “000” on the display. Now use the “**UP**” and “**DOWN**” buttons to set the speed and direction of the gobo from 000-255.

Speed and direction values:

000 - 127 = Manual gobo positioning

128 - 189 = Clockwise rotation slow to fast

190 - 193 = No function

194 - 255 = Anti- Clockwise rotation slow to fast

Auto mode:

To select auto mode, press the “**MENU**” button to show “**8070**” on the display and press the “**ENTER**” button. The unit will now run in auto mode.

User mode:

To select user mode, press the “**MENU**” button to show “**USER**” on the display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to set the mode “**ON**” or “**OFF**”.

Note: If the user mode is set to off, the unit will always set to the DMX mode at switch on as a default setting. For the unit to remember its last operation setting at switch on, please set this mode to on.

Reset mode:

Note: Only select the load mode to reset the unit back to factory settings.

To select the load mode, press the “**MENU**” button to show “**RESET**” on the display. Now press the “**ENTER**” button. The unit will now be reset back to factory settings.

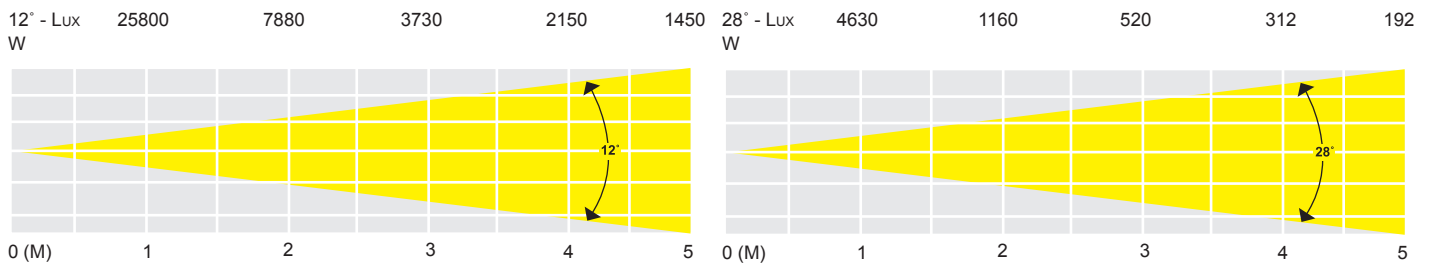
1 channel DMX chart:

Channel	Value	Function
1	0-125	Clockwise gobo rotation slow to fast
	126-129	No function
	130-255	Anti-clockwise gobo rotation slow to fast

3 channel DMX chart:

Channel	Value	Function
1	0-255	Dimmer 0-100%
2	0-127	Manual gobo positioning
	128-189	Clockwise gobo rotation slow to fast
	190-193	No function
	194-255	Anti-clockwise gobo rotation slow to fast
3	0-255	Strobe slow to fast

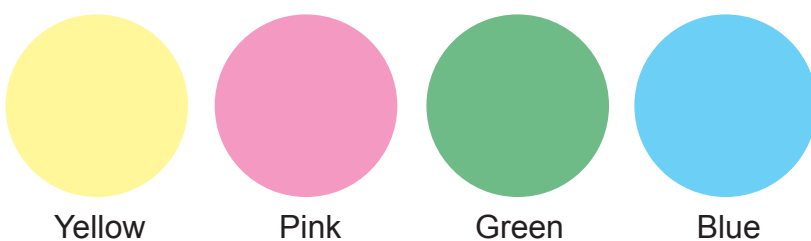
Lux Charts:

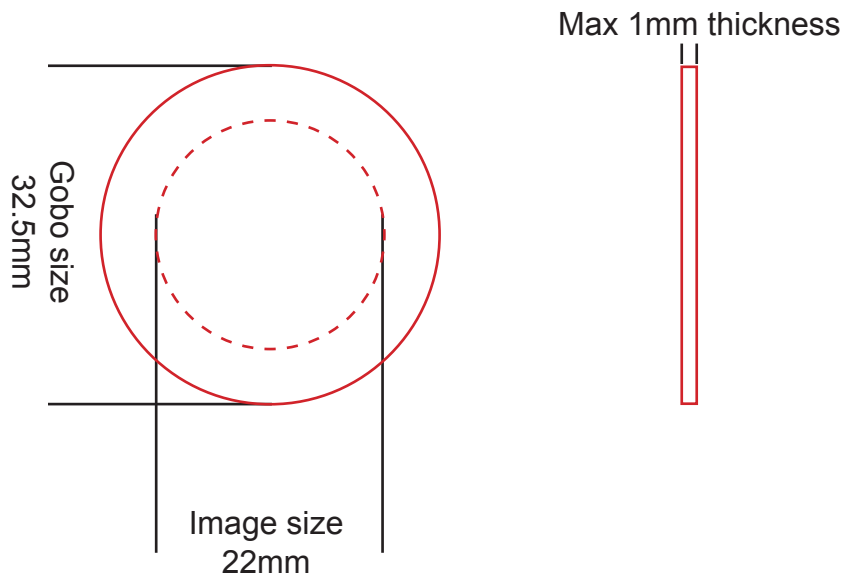


Included gobos:



Included colour filters:



Custom gobos:

Users may change the supplied gobos to a custom design of their own.

Custom gobos may be made from metal, glass or user printed onto acetate film.
(template on proligh web site).

The gobos must be maximum 1mm thick, image size 22mm and overall size 32.5mm.

Note: Gobos made from acetate and colour filters must be treated as consumable items and replaced at regular intervals.

DMX Control Mode

Operating in a DMX control mode environment gives the user the greatest flexibility when it comes to customising or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently.

Setting the DMX address

The DMX mode enables the use of a universal DMX controller. Each fixture requires a “start address” from 1- 511. 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):

- The Equinox Gobo Projector can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input/output (figure 1).

Figure 1



Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight dealers.

Please quote:

CABL10 – 2M

CABL11 – 5M

CABL12 – 10M

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

Notice:

• Be sure to follow figures 2 & 3 when making your own cables. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

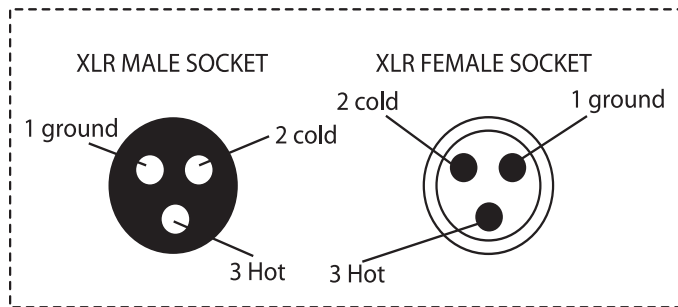
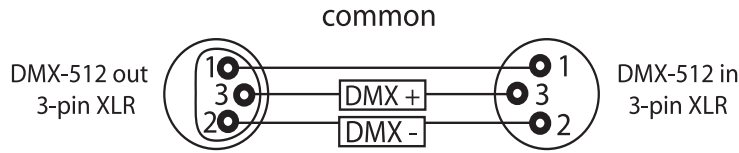


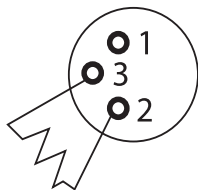
FIGURE 3

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

FIGURE 2

Special Note: Line termination:

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

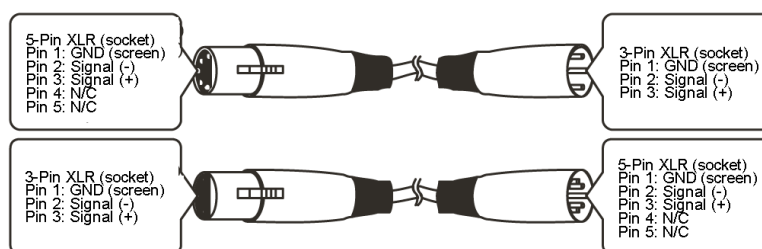


Termination reduces signal transmission problems and interference. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

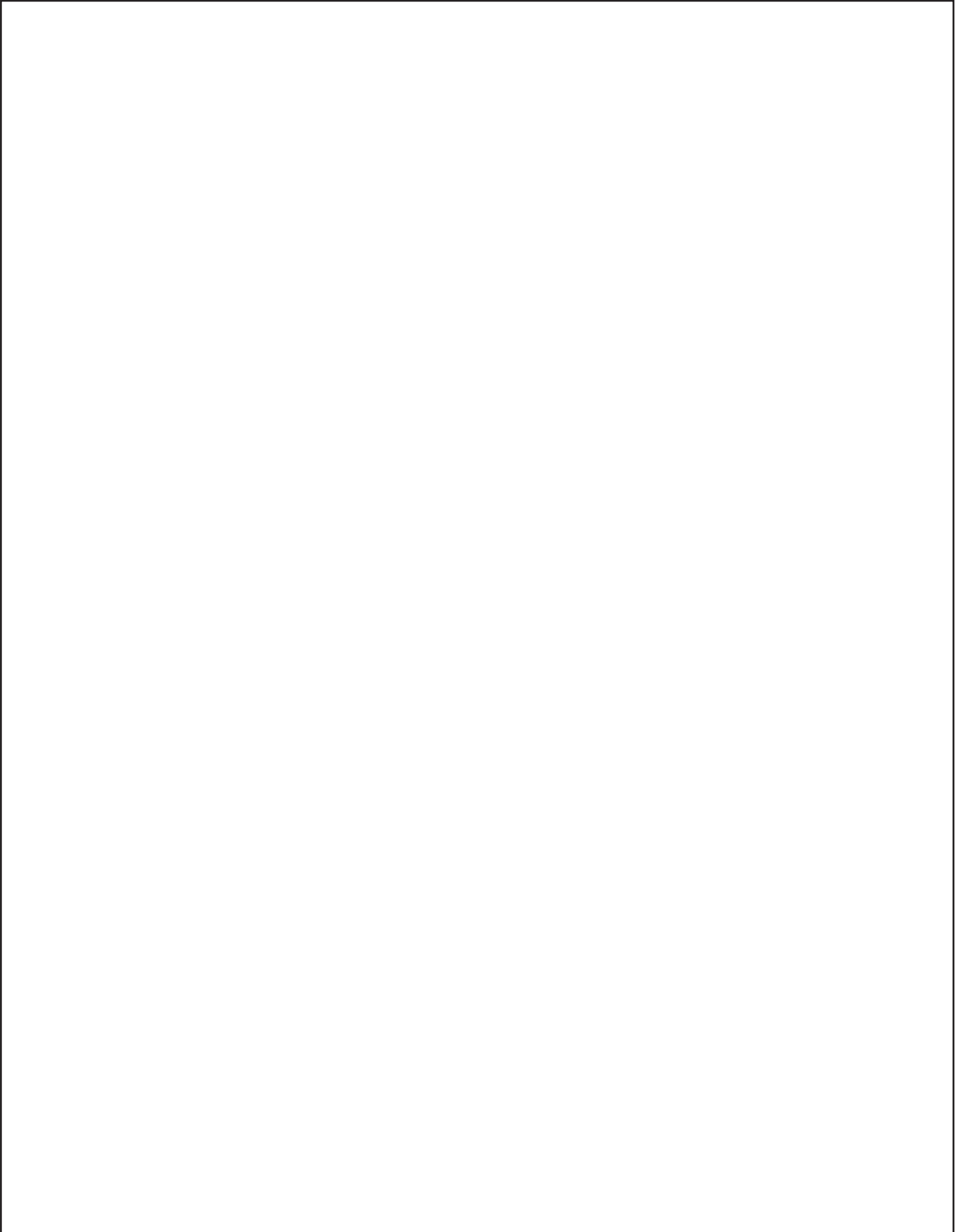
Using a cable terminator (part number CABL90 3-pin, CABL89 5-pin) will decrease the possibilities of erratic behaviour.

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 Chart below details the correct cable conversion.



Notes:

A large, empty rectangular box with a thin black border, intended for the user to write their notes. It occupies the majority of the page's vertical space.

English



**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.



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