EQUINOX

Triton Beam

User Manual

Order code: EQLED071

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!
KEEP THIS EQUIPMENT AWAY FROM RAIN, MOISTURE AND LIQUIDS

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 is dropped or damaged, disconnect the mains power supply immediately and 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 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.
- 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: 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 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.

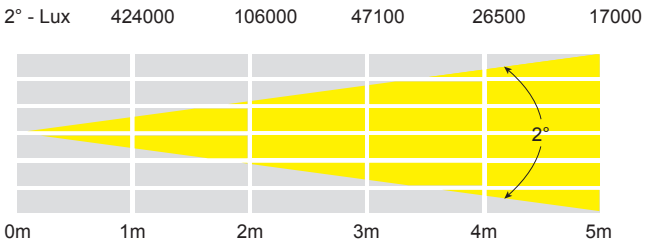
Triton Beam

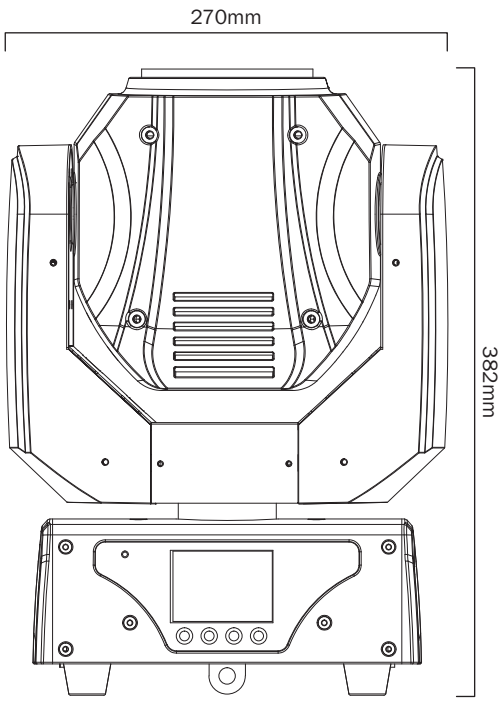
This compact moving head creates sharp beams of light and features 9 colours plus open and 14 gobos plus open. A frost filter is also included to further bolster this units arsenal of features. Also on-board is a 3 facet rotating prism for multi beam effects and motorised focus.

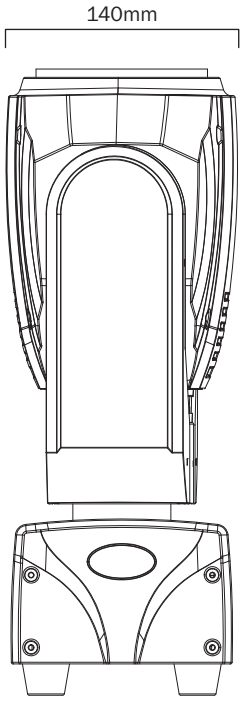
Loaded with a powerful 30W LED, the Equinox Triton Beam outputs a massive 106,000 Lux @ 2m with a tight 2° beam angle. The superb optics allow this fixtures beams to be seen over 50m away.

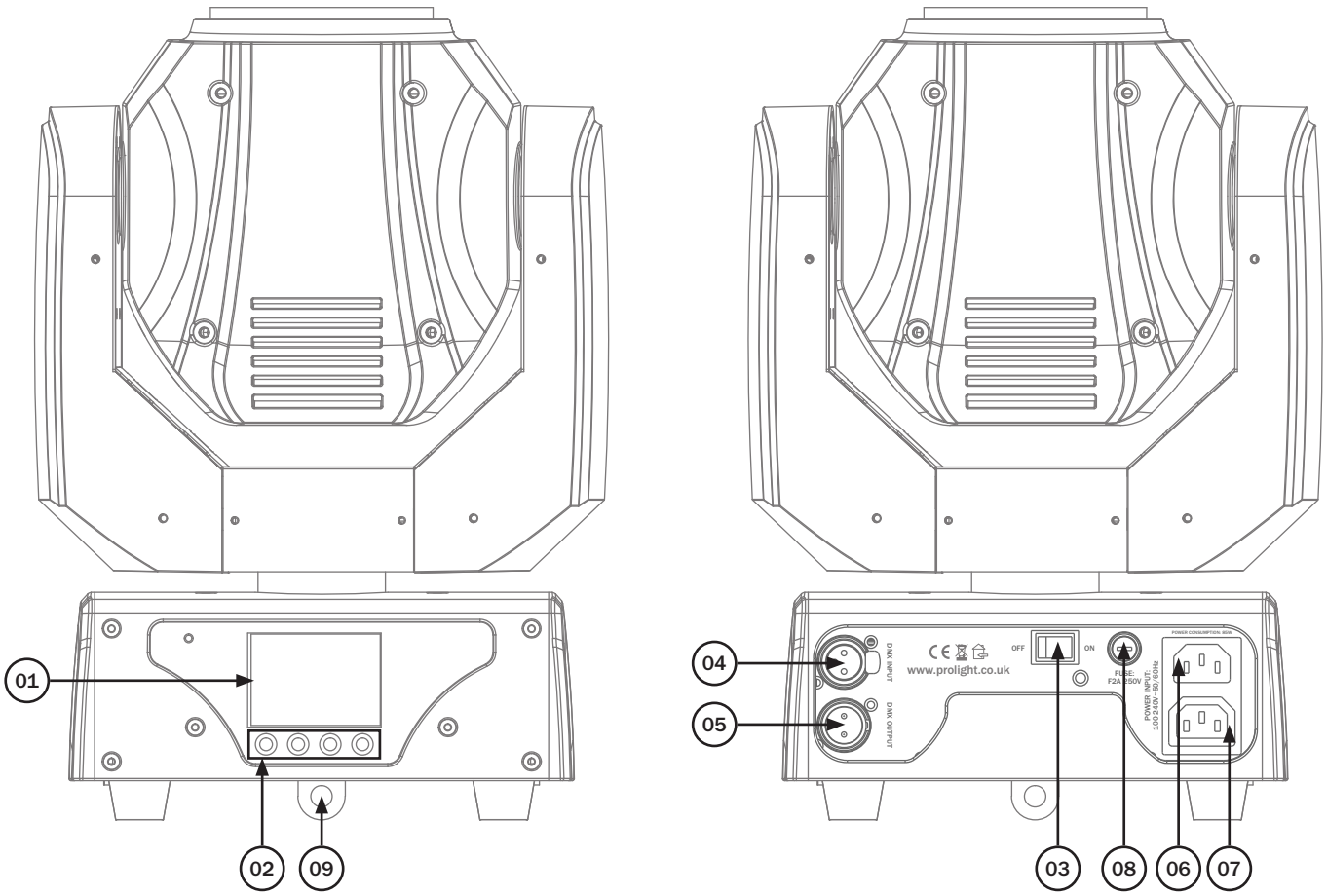
- 1 x 30W white LED
- Beam angle: 2°
- 106,000 Lux @ 2m
- Motorised focus
- 3 facet rotating prism
- Frost filter
- 14 static gobos + open
- 9 dichroic colours + open
- DMX channels: 11 or 14 selectable
- Auto, sound active and master/slave modes
- Pan: 540° or 630° selectable, Tilt: 270°
- Pan/tilt auto correction
- 0-100% dimming and variable strobe
- Supplied with quick release omega clamp
- 4 push button menu with 2.5" LCD display with invert function
- IEC power input/output
- 3-Pin XLR input/output
- Fan cooled

Specifications	
Power consumption	85W
Power supply	100~240V, 50/60Hz
Fuse	F2A 250V
Dimensions	382 x 270 x 140mm
Weight	8.2kg
Order codes	EQLED071





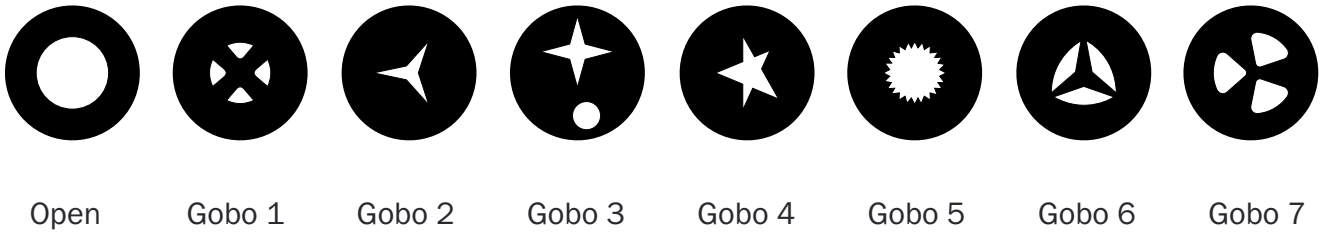




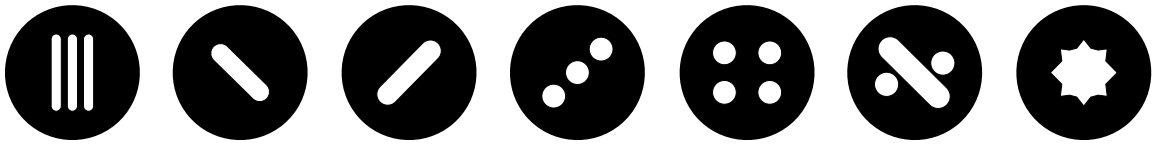
01 - LCD display
02 - Function buttons
03 - On/off switch
04 - DMX input socket
05 - DMX output socket
06 - IEC power input socket
07 - IEC power output socket
08 - Fuse F2A 250V
09 - Safety eye

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

Gobos:



Open | Gobo 1 | Gobo 2 | Gobo 3 | Gobo 4 | Gobo 5 | Gobo 6 | Gobo 7



Gobo 8 | Gobo 9 | Gobo 10 | Gobo 11 | Gobo 12 | Gobo 13 | Gobo 14

Main Menu	Sub Menu	Options/Values		Description
Address	Address Setting	001-512		DMX Address Setting
Channel	CH-Mode	11-CH (11 channel mode) 14-CH (14 channel mode)		DMX Channel Setting
Mode	No Signal Mode	Auto Music Black Hold		Functions when no DMX signal
	Master/Slave Mode	Master Slaver		Master/Slave Mode
	Auto Scene	0 1 2		Auto Mode
	Sound Sensitivity	00% (Low sensitivity) 99% (High sensitivity)		Sound Sensitivity
General	Language	English 中文 (Chinese)		Language Setting
	Display Inverse	No/Yes		Display Inverse
	Disp Return Time	10S-30S		Display Return Time to Main Menu
	Backlight Time	30S-60S		Display Backlight Time
	Default Settings			Default Settings
Control	Pan Inverse	No/Yes		Pan Inverse
	Tilt Inverse	No/Yes		Tilt Inverse
	Pan Limit	630/540		Selectable Pan Angle
	Encoder Control	No/Yes		Pan/Tilt Auto Correction
	Motor Adjust	Pan	001-255	Pan Calibration
		Tilt	001-255	Tilt Calibration
		GoboFix	001-255	Gobo Wheel Calibration
		Color	001-255	Colour Wheel Calibration
		Focus	001-255	Focus Calibration
	All Reset			Full Motor Reset
	Reset Result	Pan_Rst	OK/ERR	Pan Reset Result
		Tilt_Rst	OK/ERR	Tilt Reset Result
		Gobo_Rst	OK/ERR	Gobo Wheel Reset Result
		Color_Rst	OK/ERR	Colour Wheel Reset Result
		Frog_Rst	OK/ERR	Frost Reset Result
		Prism_Rst	OK/ERR	Prism Reset Result
		Focus_Rst	OK/ERR	Focus Reset Result
Info	Display Version	V1.0		Display Version
	Motor Version	V1.0		Motor Version
	XY Version	V1.0		XY Version
	Run Time	XXX:XX		Run Time
	Total Run Time	XXXdxxh		Total Run Time

11 channel mode:

Channel	Value	Function
CH1	000-255	Pan adjustment 0-630°
CH2	000-255	Tilt adjustment 0-270°
CH3	000-255	Pan/Tilt speed (fast-slow)
CH4	000-255	Master dimmer (0-100%)
CH5	000-015	Strobe off
	016-095	Strobe (1Hz-25Hz slow-fast)
	096-175	Strobe (1Hz slow-fast)
	176-255	Random strobe
CH6	000-004	Open
	005-009	Gobo 1
	010-014	Gobo 2
	015-019	Gobo 3
	020-024	Gobo 4
	025-029	Gobo 5
	030-034	Gobo 6
	035-039	Gobo 7
	040-044	Gobo 8
	045-049	Gobo 9
	050-054	Gobo 10
	055-059	Gobo 11
	060-064	Gobo 12
	065-069	Gobo 13
	070-074	Gobo 14
	075-080	Gobo 1 Shaking (fast-slow)
	081-086	Gobo 2 Shaking (fast-slow)
	087-092	Gobo 3 Shaking (fast-slow)
	093-098	Gobo 4 Shaking (fast-slow)
	099-104	Gobo 5 Shaking (fast-slow)
	105-110	Gobo 6 Shaking (fast-slow)
	111-116	Gobo 7 Shaking (fast-slow)
	117-122	Gobo 8 Shaking (fast-slow)
	123-128	Gobo 9 Shaking (fast-slow)
	129-134	Gobo 10 Shaking (fast-slow)
	135-140	Gobo 11 Shaking (fast-slow)
	141-146	Gobo 12 Shaking (fast-slow)
	147-152	Gobo 13 Shaking (fast-slow)
	153-128	Gobo 14 Shaking (fast-slow)
	159-203	Gobo Wheel CCW (fast-slow)
	204-211	Open
	212-255	Gobo Wheel CW (slow-fast)
CH7	000-015	Open
	016-027	Red
	028-039	Green
	040-051	Blue
	052-063	Yellow
	064-075	Orange
	076-087	Magenta
	088-099	Light Green
	100-111	Purple
	112-123	Cyan
	124-255	Colour Wheel CW (slow-fast)
CH8	000-029	Prism Close
	030-127	Prism Open
	128-255	Prism Wheel
CH9	000-127	Frost Close
	128-255	Frost Open
CH10	000-255	Focus
CH11	000-049	No function
	050-099	Auto 1
	100-149	Auto 2
	150-199	Auto 3
	200-249	Sound
	250-255	All Reset

14 channel mode:

Channel	Value	Function
CH1	000-255	Pan adjustment 0-630°
CH2	000-255	Pan fine
CH3	000-255	Tilt adjustment 0-270°
CH4	000-255	Tilt fine
CH5	000-255	Pan/Tilt speed (fast-slow)
CH6	000-255	White LED Master dimmer (0-100%)
CH7	000-015	Strobe off
	016-095	Strobe (1Hz-25Hz slow-fast)
	096-175	Strobe (1Hz slow-fast)
	176-255	Random strobe
CH8	000-004	Open
	005-009	Gobo 1
	010-014	Gobo 2
	015-019	Gobo 3
	020-024	Gobo 4
	025-029	Gobo 5
	030-034	Gobo 6
	035-039	Gobo 7
	040-044	Gobo 8
	045-049	Gobo 9
	050-054	Gobo 10
	055-059	Gobo 11
	060-064	Gobo 12
	065-069	Gobo 13
	070-074	Gobo 14
	075-080	Gobo 1 Shaking (fast-slow)
	081-086	Gobo 2 Shaking (fast-slow)
	087-092	Gobo 3 Shaking (fast-slow)
	093-098	Gobo 4 Shaking (fast-slow)
	099-104	Gobo 5 Shaking (fast-slow)
	105-110	Gobo 6 Shaking (fast-slow)
	111-116	Gobo 7 Shaking (fast-slow)
	117-122	Gobo 8 Shaking (fast-slow)

Channel	Value	Function
CH8 cont.	123-128	Gobo 9 Shaking (fast-slow)
	129-134	Gobo 10 Shaking (fast-slow)
	135-140	Gobo 11 Shaking (fast-slow)
	141-146	Gobo 12 Shaking (fast-slow)
	147-152	Gobo 13 Shaking (fast-slow)
	153-128	Gobo 14 Shaking (fast-slow)
	159-203	Gobo Wheel CCW (fast-slow)
	204-211	Open
CH9	000-015	Open
	016-027	Red
	028-039	Green
	040-051	Blue
	052-063	Yellow
	064-075	Orange
	076-087	Magenta
	088-099	Light Green
	100-111	Purple
	112-123	Cyan
	124-255	Colour Wheel CW (slow-fast)
CH10	000-029	Prism Close
	030-127	Prism Open
	128-255	Prism Wheel
CH11	000-127	Frost Close
	128-255	Frost Open
CH12	000-255	Focus
CH13	000-255	Focus Fine
CH14	000-049	No function
	050-099	Auto 1
	100-149	Auto 2
	150-199	Auto 3
	200-249	Sound
	250-255	All Reset

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 and your DMX controller require a standard 3-pin XLR connector for data input/output, see image below.

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

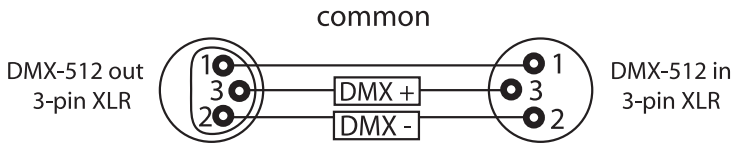
Please quote:

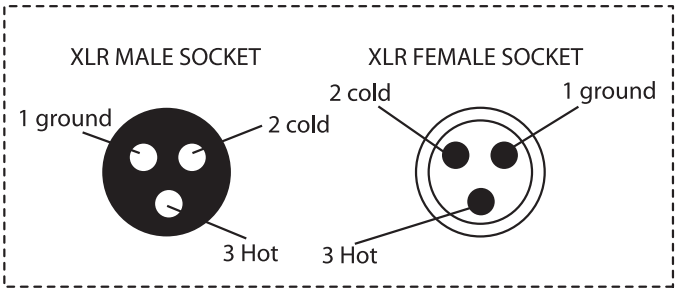
CABL10 – 2m
CABL11 – 5m
CABL12 – 10m

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

Notice:

Be sure to follow 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.





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

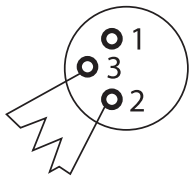
Special note:

Line termination:

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

Using a cable terminator will decrease the possibilities of erratic behaviour.

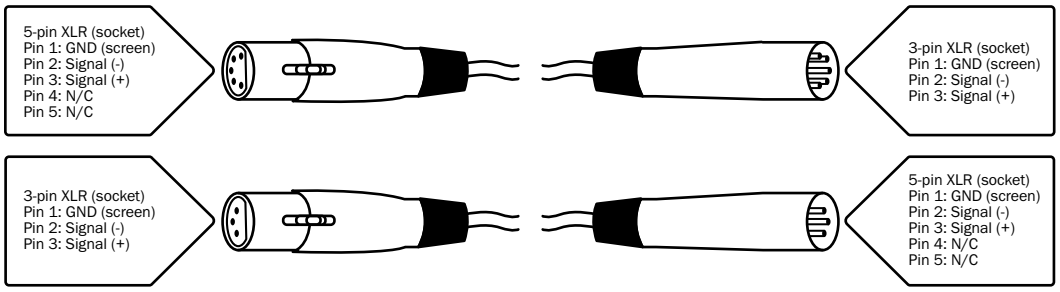
(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)



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.

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.



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 of 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.

EQUINOX