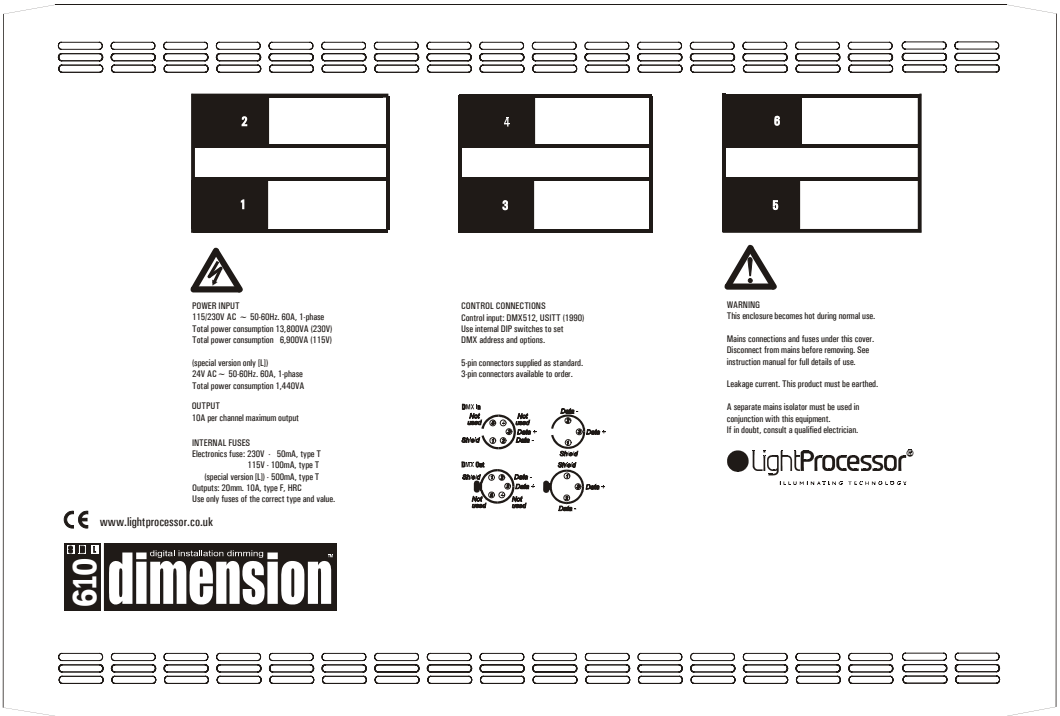
DIMENSION 6

INSTALLATION AND OPERATING MANUAL



LightProcessor®
ILLUMINATING TECHNOLOGY

Thank you for buying a LightProcessor product. To obtain the best results, please read this instruction manual carefully.

GB

Nous vous remercions d'avoir acheté un produit LightProcessor. Pour obtenir les meilleurs résultats, nous vous prions de bien vouloir lire attentivement ce manuel.

F

Wir bedanken uns für die Wahl eines LightProcessor-Produktes. Für eine reibungslose Bedienung lesen Sie sorgfältig dieses Handbuch.

D

Le damos las gracias que Ud. ha comprado un producto de LightProcessor. Para los mejores resultados lea cuidadosamente este manual.

E

Please be aware of the following warning notices and their meaning!
Veuillez faire attention aux avertissements suivants!
Beachten Sie bitte die folgenden Warnungen !
Dese cuenta de los siguientes avisos importantes!

CAUTION! RISK OF ELECTRIC SHOCK
ATTENTION! RISQUE DE CHOC ELECTRIQUE
ACHTUNG! GEFAHR EINES STROMSCHLAGES
¡ATENCION! PELIGRO DE SHOCK ELECTRICO

CAUTION! REFER TO INSTRUCTION MANUAL
ATTENTION! REFEREZ-VOUS AU MODE D'EMPLOI
ACHTUNG! BEACHTEN SIE BITTE DIE BEDIENUNGSANLEITUNG
¡ATENCION! REFERIRSE AL MANUAL DE INSTRUCCIONES

IT IS ESSENTIAL THAT YOU MAKE AN EARTH CONNECTION BEFORE CONNECTING THE EQUIPMENT TO THE MAINS SUPPLY .
IL EST INDISPENSABLE DE RACCORDER L'APPAREIL A LA TERRE AVANT D'ETABLIR LA CONNECTION AU SECTEUR.
VOR ANSCHLUSS DES APPARATS BITTE UNBEDINGT EINE ERDUNG DURCHFÜHREN.
ALTA VOLTAJE. NECESITA ABSOLUTAMENTE UNA CONEXION CON TIERRA ANTES DE HACER LA CONEXION A LA RED.

CONTENTS

ACCESSORIES PACKED WITH THE PRODUCT

Instruction Manual

GENERAL INSTRUCTIONS

Read the instructions in this handbook carefully, as they give important information regarding safety during installation and use.

Be sure to keep this manual with the product for ease of future reference. If the product is sold or given to another operator, make certain that they also receive the manual.

- This product is not intended for home use.
- After removing the packaging, check that the product is not damaged in any way. If in doubt, do not use it. Contact an authorised LightProcessor distributor.
- Packaging material (plastic bags, foam, nails etc.) must not be left within the reach of children, as it can be dangerous.
- The product must only be operated by adults. Do not allow children to tamper or play with it.
- The electrical work necessary for installing the product must be carried out by a qualified electrician.

NEVER USE THE PRODUCT UNDER THE FOLLOWING CONDITIONS:-

- In places subject to excessive humidity
- In places subject to vibrations or bumps
- In places with an ambient temperature in excess of 30°C or less than 0°C
- Protect the product from excessive dryness or humidity (ideal conditions are between 35% and 80%)
- Do not dismantle or modify the product
- Ensure that no liquids or metal objects enter the product
- Should any liquid be spilled on the product, disconnect the power supply immediately
- In the event of serious operating problems stop using the product immediately and either contact the nearest LightProcessor distributor for assistance or contact the manufacturer directly
- Never try to repair the product yourself. Repairs by unqualified people could cause damage or faulty operation. Contact your nearest LightProcessor dealer
- When carrying out any work, always comply (particularly regarding safety) with all regulations in force in the country in which the product is being used

ALWAYS INSIST ON ORIGINAL SPARE PARTS BEING FITTED

QUICK SET-UP AND INSTALL

1. Unpack the Product. (Ensure you do not throw away any accessories packed separately in the box.) Ensure you have the correct version for your application.

2. Mount the product on a vertical surface.

3. Connect control cables.

4. Connect the loads to the output terminals

5. Make an earthed mains supply connection.

This pack is designed for fixed installation and is available in both mains and low voltage switching and dimming versions for operation on a single phase mains voltage. Verify from the front panel screen that you have the correct model for your application, see Fig. 1. The product is suitable for continuous operation.

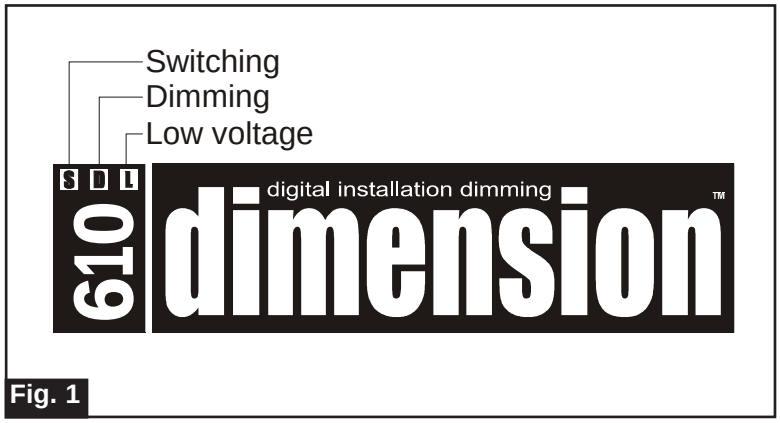


Fig. 1

OPENING

The pack is opened by removing the four corner screws. Lift the lid away slightly from the chassis and disconnect the earth cable.

CHANGING THE OPERATING VOLTAGE AND FREQUENCY

Check that the voltage links are positioned correctly for use on your voltage by referring to Fig. 2 below (does not apply in the case of the 24V version). The voltage links are found adjacent to the electronics fuse. Note that it may also be necessary to change the position of DIP switch 11 to set the mains frequency.

OFF= 50Hz.

ON = 60Hz.

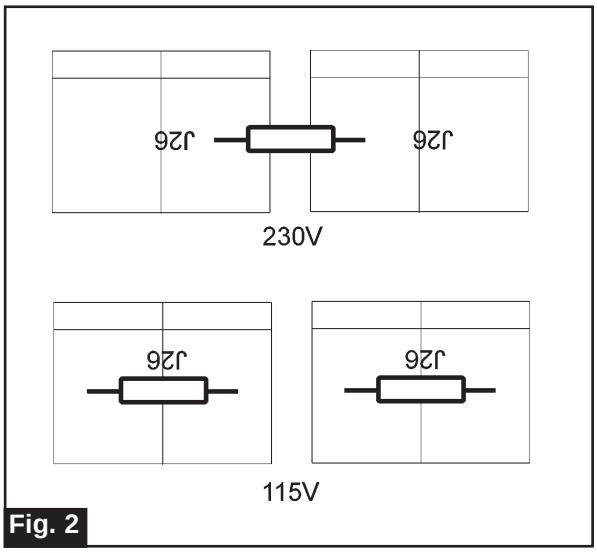


Fig. 2

MOUNTING
The pack is designed for wall mounting. Bear in mind the weight of the pack, 6Kg., and the composition of the wall when choosing screws and screw plugs.

INPUT WIRING
The pack requires an input of 60Amps. single phase. Cable should be chosen accordingly. Fit a 32mm. cable gland in the base of the chassis and pass the cable through it.

Fit the earth conductor to the earth bar. Fit the phase and neutral conductors to the input terminal block. Note that the input should be protected externally by a suitable 60A circuit breaker. Withdraw any excess cable from the enclosure and tighten the gland.

OUTPUT WIRING
Each of the six outputs has a capacity of 10Amps.. Cables should be chosen accordingly. Remove the grommets and fit a 20mm. cable gland to each of the outputs to be used. Pass the conductors for each output through a gland and secure the earth conductor to the earth block. Secure the neutral to the corresponding numbered terminal of the neutral connector block and the phase conductor to the corresponding terminal CH1-CH6. Withdraw any excess cable from the enclosure and tighten the gland.

FUSE VALUES AND TYPES

Electronics fuse	5 x 20mm., 50mA type T for 230V operation
	5 x 20mm., 100mA type T for 115V operation
	5 x 20mm., 500mA type T for 24V operation
Output fuse	5 x 20mm., 10A type F HRC

DMX CONNECTION
DMX pin-outs are as follows:-
1 = screen
2 = signal invert
3 = signal true
Pins 4 and 5 of a 5-pin XLR are not used. Connect the signal input to the pack to the male connector. Output to the next DMX device in the chain is made from the female connector. Note that DIP switch 12 may be set to the ON position to terminate the DMX line in the event that the pack is the last device in the DMX chain. Note that packs fitted with 3-pin XLRs are available to special order.

DIP SWITCHES
The DIP switches perform the following functions. Isolate the pack before removing the front cover.
Switches 1-9 set the DMX address as follows:-
Switch 1 = 0 or 1
Switch 2 = 0 or 2
Switch 3 = 0 or 4
Switch 4 = 0 or 8
Switch 5 = 0 or 16
Switch 6 = 0 or 32
Switch 7 = 0 or 64
Switch 8 = 0 or 128
Switch 9 = 0 or 256
Switch 10 - OFF = no preheat. ON = preheat (approx. 10%). Not applicable to the switching version.
Switch 11 - OFF = 50Hz. operation. ON = 60Hz. operation.
Switch 12 - OFF = Normal. ON = Terminate DMX line.

Re-apply the power to allow DIP switch changes to take effect.

FAN COOLING

The pack is fitted with a fan that will operate automatically as necessary. When the pack becomes warm and reaches a factory-set threshold, the fan will switch on to assist in the cooling of the triacs. If the pack passes through a second temperature threshold, then the dimming version will reduce its power output by 50%, while the switching version will shut off channels 1, 3 and 5. If the pack overheats, then it shuts down automatically. Input power should be removed and the pack allowed to cool before power is re-applied.

TEST FUNCTION

Disconnect the pack from the mains and set DIP switches 1-9 to the ON position. Re-apply the power. All channels should go to full on. Disconnect again from the mains, set a valid DMX address and re-apply power to resume normal operation.

MAINTENANCE

As with all commercial products of this type, it is the responsibility of the user/owner of the equipment to apply test and maintenance procedures to ensure compliance with local laws and regulations. Regular internal inspection by qualified personnel will ensure reliable operation. Accumulated dirt and dust should be removed carefully. There should be no loose cables within the unit. Any cables/connectors showing signs of wear or damage should be replaced. Any internal installation wiring should be kept to a minimum and kept clear of the heatsink. The cooling fan is the only moving part; it has a normal lifespan of approximately five years. Rotate the fan manually to assess its state of health. Keep the fan and its grille free from dust and dirt. Do not use a high pressure pneumatic line for this purpose, as it may damage the fan motor and electronics.

SPARE PARTS

Item	Reference
Triac	T1KWTRIAC
Electronics fuse	F50MA2AS, F100MA2AS (for 115V), F500MA2AS (24V)
Output fuse	F10A2QB
Transformer	T6VA/9-0-9
Fan	FAN/DIGI

SPECIFICATION

Power Requirements	Voltage 230V AC nominal, link selectable to 115V AC Frequency 50/60Hz. Single phase + neutral + earth Also available in 24V version		
Capacity	Six channels of switching/dimming per unit (depending on model). Maximum load: 10A per channel/60A total. Minimum load: Both models 100W		
Control Inputs	USITT DMX512 (1990), via 5-pin XLR (3-pin XLR available to order).		
Output Connectors	Screw terminals		
Physical Characteristics	Weight:	Switching Model	5Kg
		Dimming Model	6Kg
	Dimensions	Height: 239mm Width: 347mm Depth: 98mm	
Environment	Temperature	0-30°C	
	Relative humidity	0-90% non-condensing	
	Pollution	Degree 2	
	Protection Classification	IP30	
Conformance	Designed to meet CE regulations covered by: LVD (using EN60439 and EN60950) EMC (EN55014 and EN50082-1)		

WARRANTY STATEMENT

LightProcessor provides a warranty against manufacturing defects for all Products for a period of eighteen months from date of shipping to the Customer provided that the Products have not been subjected to any unauthorised modification or repair.

LightProcessor shall not be liable to the Customer by reason of any representation or any implied warranty, condition or other term or any duty at common law for any indirect, special or consequential loss or damage, costs, expenses, or other claims for compensation whatsoever which arise out of or in connection with the sale or supply of the Products or their use or resale by the Customer.

All items added to the Product by the Customer, it's agents or customers, must be removed from the Product prior to return to LightProcessor. The return of the Product shall authorise LightProcessor to remove any such items. LightProcessor shall not be obliged to reconnect any such items before returning the Product. LightProcessor will not be under any liability in respect of such items.

The liability of LightProcessor to its Customers for death or personal injury resulting from our negligence is unlimited. Apart from that, LightProcessor will not in any event be liable to its Customers for indirect or consequential loss, and any liability on behalf of Lightprocessor for any loss or expense shall be limited to the contract price of the defective goods.

The cost of shipping defective Product back to LightProcessor is borne by the Customer. The cost of shipping back to the Customer is borne by LightProcessor.

LightProcessor reserves the right either to repair or replace any defective Product

WARRANTY REPAIRS PROCEDURE

Prior to any Product being shipped for warranty repair or replacement the Customer must have applied for a "Warranty Authorisation Number". These can be obtained from the Sales Administration Manager at LightProcessor's Head Office.

LightProcessor will then issue a 'Warranty Fault Report' that must be completed in all respects by the Customer. Failure to complete the 'Warranty Fault Report' may cause delays in processing the repair of the Product.

The completed 'Warranty Fault Report' may either be Faxed, E-Mailed, Mailed or accompany the Product when it is returned

LightProcessor will advise the Customer within 1 working day of the receipt of the Product or the Warranty Fault Report, whichever is the later, whether or not its accepts that the Product is covered under Warranty.

Warranty Repairs will be completed within 2 working days, subject to spare parts being available, and will be returned to the Customer without delay.

Should a Product be returned for repair in damaged packaging or other than its original, LightProcessor reserves the right to re-package the Product in its correct packaging and to charge £20.

NON-WARRANTY REPAIRS PROCEDURE

Prior to any Product being shipped for repair the Customer must have applied for a "Repair Authorisation Number". These can be obtained from the Sales Administration Manager at LightProcessor's Head Office.

LightProcessor will then issue a 'Repair Fault Report' that must be completed in all respects by the Customer. Failure to complete the 'Repair Fault Report' may cause delays in processing the repair of the Product.

The completed 'Repair Fault Report' may either be Faxed, E-Mailed, Mailed or accompany the Product when it is returned

LightProcessor will advise the Customer within 5 working days of the receipt of the Product or the Repair Fault Report, whichever is the later, the Estimated Cost of Repair excluding labour and carriage.

Non-Warranty Repairs will be completed within 10 working days of receipt by the Customer of the Repair Cost Estimate, subject to spare parts being available, and will be returned to the Customer without delay.

Should a Product be returned for repair in damaged packaging or other than its original, LightProcessor reserves the right to re-package the Product in its correct packaging and to charge £20.

Also available from LightProcessor

- QCommander automated lighting control system
  - QCommander 256 (standard and extended models)
  - QCommander 512 (standard and extended models)
  - Input Extender fader panel
  - Replica memory store and playback unit

- Paradime digital dimmer range

- DMX Tools
  - DMuX
  - Store
  - Buffer
  - Merge

- Analogue and DMX 2-preset desks
  - Q12
  - Q24
- Analogue and DMX 1-preset desks
  - Zip 6
  - Zip 12
  - Zip 18

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Note the serial numbers of the products in this installation and quote them when seeking help.