

AX, AY and AZ UV EXPOSURE UNITS



Installation

Position the exposure unit on a flat level surface where the lid can be raised and lowered without obstruction. Read electrical safety notice on the rear of this instruction sheet. Then insert power lead into the unit and plug moulded fused plug into a suitable socket.

Explanation of Controls

| | |
|-------------------------------|--|
| Mains on/off switch | - Two position rocker type switch |
| Illuminated digital display | - Three digit red display 0-500 seconds |
| Green start touch switch | - Starts exposure cycle |
| Blue up/down touch switches | - Used to set each time required |
| Rocker switch right hand side | - Isolates bottom set of tubes |
| Vacuum gauge | - Shows vacuum pressure. Should be 25 plus before starting (AY & AZ units only) |
| Vacuum on/off rocker switch | - Turns vacuum pump on and off |
| Blue knob above vacuum switch | - Opens and closes vacuum bleed valve |

Operating Instructions

1. With the mains lead connected, (see above installation procedure), turn the rocker switch to on. When powered on the timer and digital display will set to 888 for a short time and then revert to 0.
2. The timer can then be set from 0-500 seconds in 1 second intervals by pushing the blue membrane up/down touch switches beside the digital display.
3. It is essential to warm up the UV tubes prior to making your first exposure to ensure that they give the maximum UV output. This is done by turning the unit ON for 200-300 seconds.
4. Exposing the material is done as follows:-
 - a) Set the required exposure time.
 - b) For single sided exposure open the lid and place the material to be exposed in the centre of the unit. Place the artwork emulsion side down right reading on top of the material and carefully close the lid to ensure that the artwork does not move.
 - c) Make sure that the right hand rocker switch nearest the front is in the off position so that only the top tubes come on. **(Double sided units only)**
 - d) Turn on the vacuum pump using the rocker switch next to the vacuum gauge and when the gauge reads 25 plus press the start button and the timer will start counting down. **AY & AZ units only**
 - e) When exposure is completed the display will show the set exposure time and flash. When the lid is opened the display will remain flashing until the start button is pressed for a new exposure cycle.
 - f) Before opening the lid turn the blue bleed valve knob anti-clockwise to release the vacuum then tighten it back up. **AY & AZ units only**
 - g) For double sided exposure turn on the bottom tube rocker switch. Then align your top and bottom artworks with the emulsion sides facing inwards and right reading. Tape the two short ends together to form an envelope. Lift the lid and place the artwork envelope in the centre of the unit. Slide a piece of double sided material between the two artworks taking care not to scratch the emulsion. Close the lid and expose as for single sided exposure.

NB. Always ensure that the artwork envelope is at least 15mm longer on either side than the material to be exposed to ensure No loss of registration.

Servicing and Spares

Before cleaning or servicing ensure power is switched off and the mains cable is removed.

Periodically clean the glass and Mylar film in front of the tubes with a damp cloth. Any obstruction caused by dirt could be transferred as an image on the exposed material.

Electrical Safety Notice

CONNECTIONS TO MAINS ELECTRICAL SUPPLY

This equipment is designed to safety class1.

Before connecting this equipment to the mains electricity supply, examine the information on the apparatus rating label.

Ensure that the mains supply is single phase alternating current (a.c.) of the stated frequency (Hz), with neutral nominally at earth potential.

Check the supply voltage is within the stated range.

The equipment rating label states the value of the fuse fitted to the apparatus itself. Ensure that the plug or supply circuit is fitted with an appropriate fuse of higher value.

WARNING THIS APPARATUS MUST BE EARTHED

The wires in the mains lead are coloured in accordance with the following code:

| | |
|----------------------|-----|
| Green/Yellow - Earth | (E) |
| Blue - Neutral | (N) |
| Brown - Live | (L) |

If a moulded fused plug is not fitted connect the wires to a non-reversible 3 pin plug as follows:

Green/Yellow wire to terminal marked: E (earth) or G (ground) or coloured Green or coloured Green/Yellow.

Blue wire to terminal marked: N (neutral) or Common or coloured blue.

Brown wire to terminal marked: L (live) or Phase or coloured Brown.

NO SERVICING OR MAINTENANCE SHOULD BE CARRIED OUT UNTIL THE UNIT HAS BEEN SWITCHED OFF AND ISOLATED FROM THE MAINS ELECTRICITY SUPPLY.

Any spare parts which may be required are supplied on the understanding that the replacement of these requiring the exposure of live electrical connections will be undertaken by an electrically qualified person.

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Mega Electronics Limited

Mega House, Grip Industrial Estate, Linton, Cambridge, CB21 4XN

Tel: +44(0)1223 893900

Fax: +44 (0) 1223 893894

email: sales@megauk.com Web: www.megauk.com