DHA LIGHTING

DIGITAL LIGHT CURTAIN

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DHA's Digital Light Curtains are available in 6 or 8 lamp versions. The integral tilt drive and colour scroller provide maximum versatility and the optional pitching yoke adds yet another dimension to the Digital Light Curtain's movement.

Control is either via DHA's own software package or by DMX512 and either method will give smooth, continuous motion at all speeds for both tilt and colour. Alignment of multiple units is easily achieved whichever control method is used, and by utilising DHA's Light Moves software, finely tuned control can easily be achieved to 1/10° of tilt.

**DIGITAL LIGHT CURTAIN SPECIFICATIONS**

**LAMPS**

The Digital Light Curtain uses 12V 240W PAR 56 lamps, wired in series. In general DHA recommends the use of very narrow beam angles but these lamps are available with medium and wide angles. Neon indicators beside each lamp will signal filament failure. Lamps locate positively into position for perfect alignment of filaments and may be easily be replaced using a flat bladed screw driver. A safety interlock cuts power when the unit is opened.

**TILT SYSTEM**

The Digital Light Curtain is capable of rotating through 320° along its centre axis to 1/10° resolution with almost no backlash. Tilt moves are programmed by time - from 60° per second to one hour for a move.

**COLOUR SCROLLER**

The built-in scroller unit holds up to 20 colours. The scroll is mounted on a detachable roller to enable a complete scroll change to be the simple process of replacing a single roller. Spare scrolls may be stored on rollers which are inexpensive and available from stock.

Fractional positions can be programmed to 1/10 of a colour band allowing the use of split colours for special effects. Colour changes are specified by time - from a maximum speed of approximately 2 colours per second to one hour for a move.

**INSTALLATION**

The Digital Light Curtain has been designed to hang in rows whilst minimising the disruption of the lamp centres between adjoining units. Each Digital Light Curtain is suspended from two hook clamps.

**CONTROL**

The Digital Light Curtain's on board microprocessor facilitates a high degree of control via the Light Talk protocol. There are no thumb wheel switches to set as units are remotely patched and repatched. Individual Digital Light Curtains can be cued either independently or in user defined groups.

Colour and tilt movements are independently timed and both are extremely smooth, even at very low speeds. Digital Light Curtains, hung end to end, can be aligned with each other electronically, dispensing with the need for precise mechanical adjustment. Light Talk control allows straightforward daisy-chaining of control cables.
LIGHT MOVES - APPLE MACINTOSH CONTROL SOFTWARE

A sophisticated control package has been written for any Apple Macintosh computer. It manages up to 99 Digital Light Curtains, enabling versatile plotting, editing and execution of cues, on or off line, as well as a wide range of housekeeping and diagnostic functions. The Macintosh may itself be driven from certain lighting desks or remotely triggered from any analogue signal.

Light Moves version 1.5 incorporates MIDI Show Control and simple configuration of all remote trigger options. Light Moves can be run on the same Macintosh and at the same time as Show Control software and cues can be sent either way between Light Moves and external hardware or other MIDI software packages.

THE DMX TO LIGHT TALK CONTROLLER

DHA's DMX to Light Talk controller integrates Digital Light Curtains with DMX512 based lighting control. It can be used on its own to allow direct plotting and control from any DMX board. With the addition of an Apple Macintosh computer and DHA's Light Moves software any additional Digital Light Curtain features can be accessed whilst maintaining DMX position and colour control. Alternatively the same controller can be used for synchronising Light Moves cues with any DMX board.

When used in stand-alone mode the DMX to Light Talk controller can control up to 14 Digital Light Curtains or 9 Pitching Light Curtains by utilising a single DMX channel per function - tilt, colour, pitch. Initialisation and calibration of the Digital Light Curtains are automatic but, if necessary, they can be remotely reset via DMX.

Using the DMX to Light Talk controller in conjunction with an Apple Macintosh computer during setup enables a wider range of facilities to be accessed. Full diagnostic and error feedback is available along with the ability to set the DMX range and resolution for each unit. Electronic alignment between units is also possible as is the directional reversal of any individual Digital Light Curtain. Setup is retained once the the Apple Macintosh connection is removed.

When used as a trigger for Light Moves the DMX to Light Talk controller gives access to a simple decimal cue number programming system. Each individual cue number can be triggered independently or alternatively a simple ‘go next cue’ trigger can be implemented. Plotting through Light Moves allows full 1/10° resolution of 320° range and selection of colour is via a pop up menu which lists colours by name.
LITECHAT

Until now, to set up and initialise DHA's Digital Light Curtain you needed an Apple Mac. Now, using LITEchat, a brand new software program, you can do it direct from your Psion series 5 or 5mx Palm top computer. Making extensive use of the Psion’s touch sensitive screen, LITEchat is extremely easy to use. Handling up to 60 Digital Light Curtains, it enables you to:

Tilt and colour calibration. Tilt high and low limit setting. Tilt sense setting.
Define current tilt as zero setting. Colour counting. Colour sense setting. Unit on/off line.

You can also interrogate the Digital Light Curtain to discover information such as its unique serial number, software version, year of manufacture and current error status. LITEchat comes on a 3.5" disc.

Requirements:
Serial lead and PC equipped with PsiWin.
Small external battery powered protocol converter to convert the Psion’s.
RS232 output to the required RS422 standard.

LITEchat does not support the recording or playing back of cues. Digital Light Curtain is a product of DHA Lighting Ltd. Psion Series 5mx, Psion Series 5 and PsiWin are registered trademarks of Psion computers PLC. All support for LITEchat is through Clever Little Box. DHA Lighting Ltd do not provide support for this software.