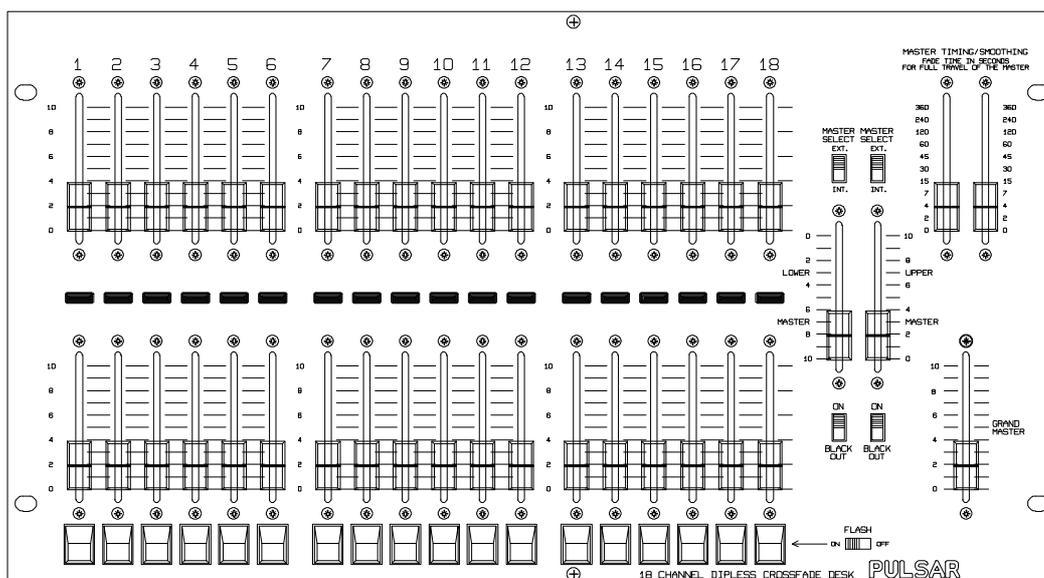


# 12 AND 18 CHANNEL 2 PRESET DESKS



## SPECIFICATION

**23900.1 - 12 CHANNEL 2 PRESET DESK**  
**23900.2 - 18 CHANNEL 2 PRESET DESK**

**INTRODUCTION** - These Desks are especially designed for use in drama, stage, cabaret and environmental lighting, providing the operator with a powerful range of facilities. They control 12(18) channels of lights each, however the Desks may be linked together, in any combination, to control from 12 to 60 channels in 6 channel increments. As low voltage controllers the Desks are normally connected to one or more Dimmer Packs. These are capable of controlling any type of lighting such as tungsten, neon, pinspots etc.

## FRONT PANEL

**UPPER PRESET SLIDERS (ORANGE)** - One per channel. These are used to set the lighting levels for scenes 1,3,5..., for example.

**LOWER PRESET SLIDERS (BLUE)** - One per channel. Used to set the lighting levels for scenes 2,4,6..., for example.

**FLASH BUTTONS** - One per channel. These are used to flash their channel to the Grand Master Level.

**FLASH BUTTONS ON/OFF SWITCH** - This allows the Flash Buttons to be disabled to prevent accidental activation.

**UPPER MASTER SLIDER** - This is the Master Dimmer for the Upper Preset.

**LOWER MASTER SLIDER** - This is the Master Dimmer for the Lower Preset.

**GRAND MASTER SLIDER** - This is the overall Master Dimmer for the whole Desk.

**MASTER TIMING/SMOOTHING SLIDERS** - Used to control the time taken for the fade in/out of the Upper and Lower Presets. The Fade Time is measured in seconds (0 to 360) and is for the full travel of the Upper and Lower Masters.

**ON/BLACK OUT SWITCHES** - One for each preset, used for an instant black out.

**MASTER SELECT SWITCHES** - These select the source of the Master control for the Upper and Lower Presets i.e. whether they are controlled by the Grand Master, Master Timing and Upper and Lower Preset Masters in THIS Desk or ANOTHER Desk. They must be in the 'Internal' position when the Desk is used on its own (or as the Master Desk with 'Slave' Desk(s) and in the 'External' position when used as a 'Slave' Desk.

**CROSSFADING** - The Upper and Lower Master Dimmer Sliders are adjacent to each other, but with the settings reversed, enabling the operator to easily produce a smooth crossfade between Upper and Lower preset scenes.

The usual way of using the controls is to put both Master Dimmer Sliders in the upper position (i.e.. Lower Master at '0' and Upper Master at '10'), then set up Scene 1 on the Upper Preset Sliders and Scene 2 on the Lower Preset Sliders. On the cue, slide both Masters to the lower position (i.e.. Lower Master at '10' and Upper Master at '0') whereupon the lights will crossfade from Scene 1 to Scene 2. Similarly Scene 3 could then be set up on the Upper Preset and the Masters moved up again on the next cue and so forth.

These are 'Dipless Crossfade' Desks, which means that while crossfading between the two presets, the level of light will remain constant for channels which are at the same level on both presets.

It is possible to achieve other types of crossfade easily with this system, for example, there can be a chosen amount of 'dip' between scenes or both scenes may be at full before the first is faded out. With both Masters at full, a switch, fitted on the back panel, enables you to select whether the preset levels are 'pile added' or 'averaged'.

**TIMING** - The Master Timing Sliders can fulfil a number of functions. If they are set to '0' the crossfade will occur at the rate that the Master Dimmer Sliders travel, however you may choose to set the timers to 2 seconds to smooth out any visible jerkiness. They may also be used to control the rates of fade of the Upper and Lower presets. If the Upper Timer (orange) is set to 15 seconds and the Lower Timer (blue) to 60 seconds and the Masters are moved down from the upper to the lower position, the lighting levels programmed on the Upper Preset would fade down in 15 seconds while the lower preset would take 60 seconds to fade up.

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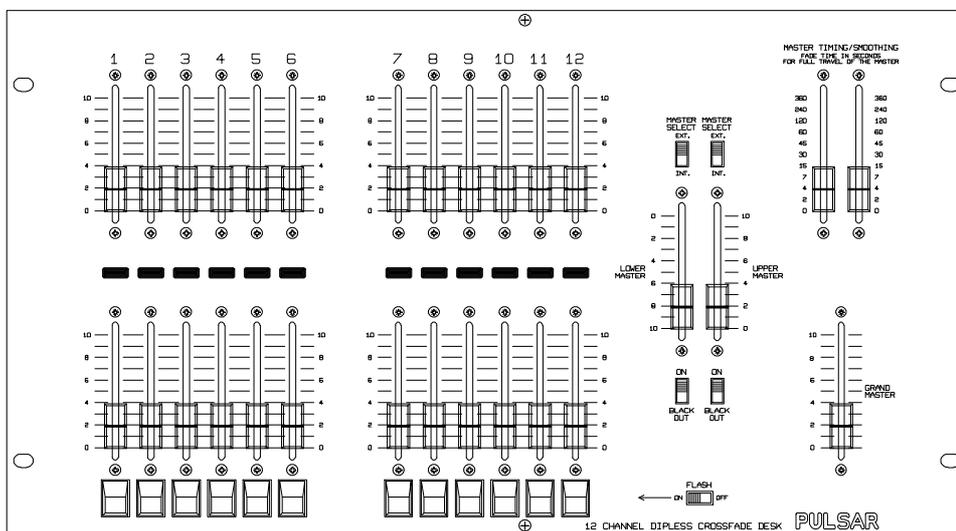
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## FRONT PANEL cont.

Finally, the timers also operate on the Grand Master. If, for example, a sunrise effect is required, the timers could be set to 6 minutes and the Grand Master brought up to the required level. The overall lighting level will then gradually rise from 0 to the required daylight levels over 6 mins.

## BACK PANEL CONNECTIONS

**MASTER DESK DIN SOCKET** - As a Master Desk, use a DIN-DIN lead from this socket, to send Master signals to a Slave Desk's top Slave Desk DIN socket.

**SLAVE DESK DIN SOCKETS** - As a Slave Desk, use a DIN-DIN lead in the top socket to receive signals from the previous Desk. Use the bottom socket to send signals on to the next Slave Desk.

**OUTPUT DIN SOCKETS** - There are 4(6) DIN sockets on the back panel of the 12(18) Channel Desks for connecting to the Dimmer Packs. They are wired so that 2(3), 6 Channel leads or 4(6), 3 Channel leads may be used. See back panel printing.

**OUTPUT BICC SOCKET** - One 'BICC' socket is provided in the centre of the back panel as an alternative multicore output to the Dimmer Packs.

**PILE ADD/AVERAGE SWITCH** - For special fades, where the SUM of the Upper PLUS Lower Master Dimmer Slider levels are greater than 10, select either 'Pile Add Upper and Lower preset' or 'Average Upper and Lower preset', to suit your requirements.

## OTHER INFORMATION

**CHANNEL LABELS** - A grey block is printed next to each channel, allowing the operator to record which lamp is being controlled by that channel. We suggest that a water based felt tip pen is used so that it can be easily wiped off.

**SPILLAGE OF DRINKS** - If a drink is spilt on your Desk, immediately disconnect it, plunge the whole unit into clean water and rinse thoroughly. Shake and wipe dry, then leave in a warm place for 2 days to dry right out before use. Failure to do this will result in extensive damage - drinks are very corrosive.

**DUST COVER** - This is provided to protect the unit when not in use.

**19" RACK MOUNT** - For 19" rack mounting, the metal tray may be removed. All the circuitry is low voltage and inherently safe.

**POWER SUPPLY** - +14V to +25V, 15mA minimum, automatically provided by the pack(s) as Is1, Is2, Is3. One pack is sufficient to run the whole Desk. No mains connection is required as this is a low voltage system.

## OUTPUT VOLTAGE

0V = Lights OFF 0%  
+10V = Lights ON 100%

## MASTER RAIL INPUT/OUTPUT VOLTAGES

+1.3V = Lights OFF 0%  
+11.3V = Lights ON 100%

**STANDARDS** - The 12 and 18 Ch 2 Preset Desks comply with the following International and National Standards:

**Electrical Safety** - IEC65, EN60065, BS415

**EMC** - EN50081-1, EN55022, EN50082-1

**Rack Mounting** - IEC297

**Index of Protection** - IP20

**CE Marking Directive 93/68/EEC** - The 12 and 18 Ch 2 Preset Desk meets the EMC Directive 89/336/EEC

These are low voltage units operating on less than 25V d.c. without a connection to the mains supply, they are therefore inherently safe as they operate on less than 75V d.c. as specified in the Low Voltage Directive 73/23/EEC.

**GUARANTEE** - 12 months from the date of original purchase.

The guarantee is limited to parts and labour. The guarantee is void if the unit is misused or repairs are performed by unauthorised persons. In the unlikely event of a fault occurring, do not use without repair. Return the unit, with a description of the fault, to your supplier or direct to Pulsar for immediate attention.

## ACCESSORIES

The following products have been designed to work with and compliment the **Pulsar 12 and 18 Channel 2 Preset Desks**. Please contact us to receive further details of these superb products!

### Cables and Plugs

A wide variety of DIN Signal Leads (with plugs) and BICC Signal Leads are available, from 1.5M through to 50M in length.

Pulsar also manufacture a comprehensive range of Strobes, Dimming and Switching Packs, Stage Lanterns and Effect Spots. Please contact us to receive further information of these superb products!

## DIMENSIONS AND WEIGHTS

Code	Unit	Width	Height	Depth	Weight
		mm.	mm.	mm.	kgs.
23900.1	12 Channel 2 Preset Desk	482.6	265.9	130.0	5.2
23900.2	18 Channel 2 Preset Desk	482.6	265.9	130.0	5.8
	Console Cut Out	435.0	258.0	130.0	-
	Fixing Holes	465.6	190.6	-	-