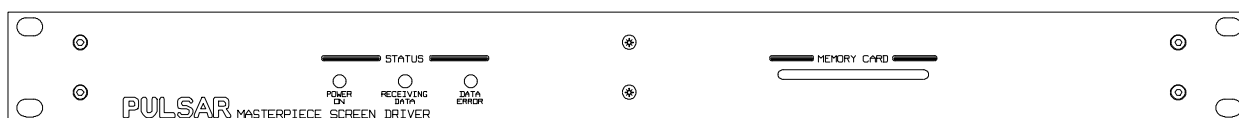


MASTERPIECE SCREEN DRIVER



SPECIFICATION

23900 - PULSAR MASTERPIECE SCREEN DRIVER 1U x 19" Rack Mounting

The Masterpiece Screen Driver together with a suitable monitor - available from Pulsar is designed to help the lighting operator by

- Replacing the program record sheets with an on screen display of the Channel Assignments, Scenes, Chases and Environments programmed.
- Providing on line Help Screens/Tutorial in many languages.
- Providing a Bar Graph display of the channel levels.

FRONT PANEL

STATUS INDICATORS LEDS

Power On - Shows that power is being received from the Masterpiece or a Dimmer/Switching Pack.

Receiving data - Shows that data from the Masterpiece (this MUST be the Master Masterpiece in a multiple Masterpiece system) is reaching the Screen Driver.

Data Error - Shows that the Screen Driver did not recognise the last information received - please check your cables.

MEMORY CARD SOCKET - This Socket will accept the 32K SRAM Card supplied, to store the text you have typed. Pressing Memory-to-Card or Card-to-Memory on the Masterpiece front panel causes the Screen Driver to do the same thing - even if there is no Card in the Masterpiece. The Screen Driver will SAVE to the Card provided that the Card's Protection Switch is not on. It will READ text from a Card only if the Card contains valid text. The Screen shows that all the text for a Master Masterpiece and 4 Slaves will be transferred unless you use the Output or Keyboard Select keys to arrange for a selective transfer, before entering the Security Code.

BACK PANEL CONNECTIONS

OUTPUT SOCKETS - Four output connectors are provided:

- **8 pin DIN socket** for any Home Computer type monitor or any Colour Television that has an RGB input.
- **A 9 pin D connector** is wired to drive any CGA compatible monitor which accepts an analogue input (for example a Philips CM8833/Aries series 2000 colour monitor).
- **The BNC socket** provides composite video to drive any Green Screen / Monochrome monitor.
- **A SCART socket** to drive any Television/VCR with a SCART connector. (NB : The SCART connector uses the primary colour (RGB) signals and NOT the composite video signal, please check that the TV/VCR you wish to use supports these signals) - available from Pulsar. The only suitable SCART lead is type U (universal) carrying ALL pin connections and is usually identified by a BLACK marking (e.g. RS Components Part no:474-675).

DIN IN/THRU SOCKETS - These are only used to allow the Screen Driver to pick up a Current Supply (Is) from the Masterpiece's Remote Control Socket or from a Pulsar Dimmer/Switching Pack. Please connect the DIN lead provided either IN-LINE with one of the analogue outputs of the Masterpiece (so the Screen driver picks up power from the

Dimmer/Switching pack being driven) OR if none of the Masterpiece's Analogue Outputs are being used, connect it to the Masterpiece's Remote Control Socket (use the Screen Driver's "THRU" socket for Remote Control use).

PMX IN/THRU 3 PIN XLR CONNECTORS - The PMX (Pulsar MultipleX using RS232/423) output from the Masterpiece (Master Masterpiece in a multiple Masterpiece system) drives the Screen Driver. The 3 pin XLR cable provided is connected between the Screen Driver and the Masterpiece's PMX output socket.

DIL SWITCH - Switches 1-4 select the language for the Help Screens. Please refer to the printing on the lid and the opening Title Screen to select your Help Screen language.

NORMAL USE & TEXT ENTRY

NORMAL SCREEN LAYOUT - The screen will normally display a Bar Graph of the Channel Levels and either the current Output Select OR the current Keyboard Select page.

OUTPUT SELECT & KEYBOARD SELECT SCREENS - These are the normal screens and can display custom information about your particular system. One line is dedicated to each Output Channel / Scene / Scene Chase / Environment or Environment Chase. Up to 28 characters may be written on each line. For example, Output No 1 may control a red spotlight, so the words "Red Spotlight" can be written to the screen alongside 0.1.-1 (Output Select page 1, Channel 1). If using a colour monitor the word "Red" could also be written in red.

BAR GRAPH DISPLAY - Normally a Bar Graph is displayed at the bottom of the screen, each Bar displaying a Channel Level in 10 steps. The format of the Bar Graph will depend on which particular model of Masterpiece you are using. For the Masterpiece 108, Output Select keys O1-O3 will display Channel Levels 1-54, while selecting O4-O6 will automatically switch the display over to displaying Channel Levels 55-108. For the Masterpiece 48 All Channel Levels will be displayed.

HELP SCREENS/TUTORIAL - A Help Screen can be displayed for any Key on the Masterpiece (except the actual Keyboard along the bottom edge). To display a Key's Help Screen, hold your finger on the Key for about one second and its Help Screen will appear. The Help Screen will be displayed for as long as you keep your finger on the Key, with the exception of Set User Access Levels, which will remain until cancelled.

SCREEN TEXT MODE - To write to the screen, the Masterpiece must be switched into Screen Text Mode. Once in Screen Text Mode, O1-O4 keys select one of four quadrants, for Caps Lock, Lower Case, Numbers & Symbols, Accents & Colours. The quadrant information is printed on each relevant key of the Masterpiece. To type accented characters, first type the character, then add the accent. To change text colour, use a colour character instead of a space. The Copy key copies an entire line to any other line - press Copy to select the source line, use the Up or Down Cursor keys to select the destination line and finally press Copy again. Note: MP48's Copy key is its S2L Monitor key.

Note: Due to the compression techniques employed in the storage of text, up to 320 characters of your text will be stored per screen. The Screen Driver will compress then uncompress your text when

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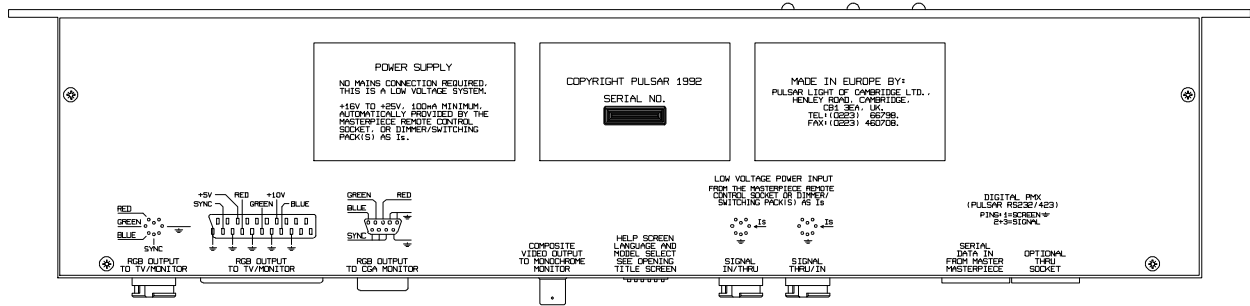
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leaving Screen Text Mode. If some of the characters at the end of your text have disappeared, there are too many characters in the user text area, please retype to reduce the total.

SLAVE MASTERPIECE TEXT - Text for up to five Masterpiece's (1 Master + 4 Slaves) can be typed into the Screen Driver. The Slave text pages are accessed by holding one finger on the Master/Slave key and selecting either O1 - O5, S1 - S5 or keyboard keys 1 - 5. Text for the Slave Masterpiece's is input in the same way as the Master Masterpiece.

POWER SUPPLY

POWER SUPPLY - No mains connection is required. The Screen Driver needs 100ma at 16 to 25V DC. This is normally automatically supplied by the Masterpiece Remote Control Socket or by the Switching or Dimmer Packs.

OTHER INFORMATION

SOFTWARE UPDATES - Other languages and enhancements may be added to the Screen Driver software in the future. The opening Title Page shows your software version. Contact your distributor or Pulsar for software update news.

STANDARDS - The Masterpiece Screen Driver complies with the following International and National Standards:

Electrical Safety - IEC65, EN60065, BS415

EMC - EN50081-1, EN50082-1

Rack Mounting - IEC297

Index of Protection - IP20

Marking Directive 93/68/EEC - The Masterpiece Screen Driver meets the EMC Directive 89/336/EEC.

This is a low voltage unit operating on 18-25V d.c. without a direct connection to the mains supply, it is therefore inherently safe as it operates on less than 75V d.c. as specified in the Low Voltage Directive 73/23/EEC.

CE 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, repairs are performed by unauthorised persons, or the incorrect type of fuse has been used. 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 complement the **Pulsar Screen Driver**. Please contact us to receive further details of these superb products!

Multi Control and Spares

Product No.	Controller/Accessory
23000	Masterpiece 48 Control Desk.
24000	Masterpiece 108 Control Desk.
23900	Masterpiece Screen Driver.
24301.1	Masterpiece Monitor for screen Driver.
22202SP	Masterpiece RAM Card.
24001SP	Latest Masterpiece 108 Upgrade software.
29800AA	Masterpiece Outstation Basic.
29800ST	Masterpiece Outstation Status with LEDs.

Datapak Range

Product No.	Datapak
29900.3/29901.3	12 Ch Dimming/Switching Datapaks 5/10A
29902.3/29903.3	18 Ch Dimming/Switching Datapaks 5/10A
29950 /29951	12 Ch Switching Datapaks 5/10A
29952 /29953	18 Ch Switching Datapaks 5/10A
29904.3	9 Ch Dimming/Switching Datapak 20A

Signal Processing

Product No.	Interface
27300	Universal Interface.
27400	18 Channel Switching Interface.

21109ST	6 x 10A 4U 1-3 Ph Dimmer Pack 6xCEE.
25400	4U Rack cabinet.
25600.1	8U Rack Cabinet.
25600.2	12U Rack Cabinet.

19" Racks and Accessories

Product No.	Accessory
25400	4U Rack cabinet.
25600.1	8U Rack Cabinet.
25600.2	12U Rack Cabinet.

Pulsar also manufacture a comprehensive range of Cables, Splitter Blocks, Strobes, Dimming and Switching Packs, Control Desks, Pincspots, and Stage and Rock and Effect Lanterns. Please contact us to receive further detail of these superb products!

DIMENSIONS AND WEIGHTS

Code	Unit	Width	Height	Depth	Weight
		mm.	mm.	mm.	kgs.
23900	Masterpiece Screen Driver	482.6	44.0	101.3	1.9
	Console Cut Out	450.0	40.0	150.0	-
	Fixing Holes	465.6	31.8	-	-