

OUTSTATION OS1

FOR SOFTWARE
VERSION No.1.3



INTRODUCTION

OS1 - Outstation OS1 Control Desk

The **Outstation OS1** is a compact 60 Scene (5 Pages of 12) 54 Channel DMX programmable control desk that is ideal as an architectural controller and as a remote for our ChromaZone.

It is beautifully finished in stainless steel and fitted with chrome push buttons so it will fit into any decor.

The **OS1** is ideal for offices, bars, restaurants, foyers in fact anywhere an easy to use, and program, DMX controller is required.

The **OS1** is powered with a Low Voltage Supply of +8...25Vdc @ 60...25mA connected to pin 5 of the provided 5 pin XLR or by hardwiring to the lever operated terminal block on the Printed Circuit Board (PCB) – see Connections.

CONNECTIONS

DIGITAL AND LOW VOLTAGE SUPPLY CONNECTIONS are made by using the 5 pin XLR plug provided or hardwiring to the lever operated terminal block on the PCB.

The connections are indicated on the PCB and are:

DMX SIGNAL AND LV SUPPLY	Cable Colours
Pin 1 = --- Chassis Earth - Screen	Green-Yellow Sleeve
Pin 2 = Signal -	Blue
Pin 3 = Signal +	White
Pin 4 = no connection	Green
Pin 5 = Low Voltage Supply In	Red
+8...25Vdc @ 60...25mA	

The DMX outputs are protected against accidental application of mains voltages and static.

DISPLAY

LED DISPLAY A blue LED display is used to indicate the status of the OS1 when keys are pressed.

At switch on, the software version number is displayed.

After a short delay, the current page and button numbers are displayed; these being the ones last pressed before switch off.

PRE-PROGRAMMED SCENES

Initially all 5 Pages have pre-defined Chroma scenes, these are:

Button	Scene	Button	Scene
1	Off	7	Colour Wipes
2	Strobe	8	Cascade
3	Blue Knightrider	9	Follow 3, 18 Colour
4	18 Colour Knightrider	10	Rainbow
5	Green - Magenta	11	Random
6	18 Crossfading Colours	12	Auto

The Page arrangement may be enhanced in future software versions, if required.

Pressing any single button reveals the name of the scene on that button, releasing the button activates that scene. The display will then revert to showing page and current button number.

PAGE CHANGE

When pressing, and holding down, the PROG buttons (1 and 5); the display scrolls through "3=Page Up 11=Page Down".

Whilst still holding the PROG buttons down, the first press on buttons 3 or 11 will change the display to Current Page and Button (Scene).

Whilst still holding the PROG buttons down, further pressing of buttons 3 and 11 moves the display through the pages.

When the required page is shown in the display, release the PROG buttons (1 and 5).

Then press a button on that page to select the chosen scene.

PROGRAMMING

To enter Program Mode, press buttons 1 and 5 together and release.

SECURITY CODE To prevent unauthorised or accidental access the **OS1** requires a code to be entered when the **PROG** buttons (1 and 5) are simultaneously pressed. When these buttons are pressed the word "PROG" is displayed.

The display will blink the word "CODE" indicating the code required for programming should now be entered. This code is **12, 6, 7, 1**.

As the code is entered, the letters of the word CODE are replaced by the – character.

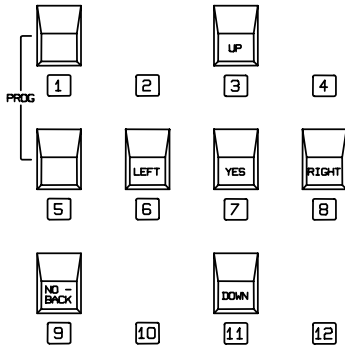
PROGRAMMING

The word "PASS" is displayed to indicate the correct code was entered.

The word "FAIL" is displayed if the wrong code was entered.

If a button is not pressed within 5 seconds, the program mode is cancelled and the word "CNCL" is displayed.

The display now scrolls through the functions of the programming buttons:



3 = UP, 11 = DOWN, 6 = LEFT, 8 = RIGHT, 7 = YES, 9 = NO – BACK

Pressing buttons 3 or 11 will cycle through the programmable options

1 = Set Channel Levels

2 = Name Scene

3 = Save Scene

4 = Page Limit

To select one of these press button 7 (YES), to go back press button 9 (NO-BACK)

Set Channel Levels

1 = Set Channel Levels 1 by 1

2 = All Channel Levels to same level

To confirm press button 7 (YES), to go back press button 9 (NO-BACK)

Name Scene

Select the characters and decimal point you require using the up/down (3/11) keys. Move on to the next/previous character using the left/right (6/8) buttons.

To confirm press button 7 (YES), to go back press button 9 (NO-BACK)

Save Scene

Press button 7 (Yes) to Save Scene.

Display shows Page No. on the left and Button No. on the right.

Select the required Page No. and destination Button by pressing 3/11 (Up/Down) to select the Page and destination Button, using 6/8 (Left/Right) to adjust Page and Button numbers.

To confirm press button 7 (YES), to go back press button 9 (NO-BACK)

Page Limit

Useful for restricting user access when not all Pages are required.

Display shows 1 to n, where n is the current upper Page Limit (max.5).

Select the new upper Page Limit by pressing 3/11 (Up/Down), the display shows the Page Limits as the buttons are pressed

To confirm press button 7 (YES), to go back press button 9 (NO-BACK)

Modifying Scenes

Press the Button to select the Scene to be modified

Follow the **Programming Sections – Set Channel Levels, Name Scene and Save Scene**, to save the modified Scene to the same Page and destination Button, or a new one.

Copying Scenes

Switch on the Scene to be copied.

Follow the **Programming Section - Save Scene** to copy the scene to the required Page and destination Button.

DMX TERMINATION

The end of DMX lines longer than 50m must always be terminated with a 100Ω resistor connected between data+ and data-, this resistor can conveniently be mounted in a suitable XLR plug which should be inserted in the last unit on the DMX line(s).

5 pin DMX line terminating plugs are available from Pulsar, Product No. 21750.4

INSTALLATION

SURFACE MOUNTING Four holes are provided in the tray base to allow the tray to be fixed to a surface.

Remove the four M3.5 screws holding the front panel to the tray. Carefully lift the front panel away and, if necessary, disconnect the provided control cable by pushing down on the levers of the terminal block. Carefully store the front panel.

Remove the required number of M3 blanking plugs located in the tray, offer the tray up to the surface and mark the positions of the fixings on the surface.

Once suitable holes have been drilled in the surface, screw the tray to the surface; if the cable had been disconnected, reconnect the cable to the lever operated terminal block and fix the front panel to the tray using the M3.5 screws.

FLUSH MOUNTING The OS1 may be mounted in a 4 way electrical box mounted in a wall. The four M3.5 screws holding the front panel to the tray are in the standard position for fitting faceplates to such boxes.

Having fitted the box into the wall and run the appropriate insulated cable (4 core minimum) to the box; remove the four M3.5 screws on the front of the OS1.

Carefully lift the front panel away and disconnect the provided control cable by pushing down on the levers of the terminal block.

Connect your control cable to the lever operated terminal block (observing the functions of each terminal) and fix the OS1 front panel to the electrical box using the M3.5 screws.

OTHER INFORMATION

STANDARDS - The OS1 complies with the following International and National Standards:

Electrical Safety - IEC65, EN60065, BS415

EMC - EN50081-1, EN55022, EN50082-1

Index of Protection - IP20



Marking Directive 93/68/EEC - The OS1 meets the EMC Directive 89/336/EEC.

This is a low voltage unit operating on +8...25VDC without a direct connection to the mains supply, it is therefore inherently safe as it operates on less than 75VDC as specified in the Low Voltage Directive 73/23/EEC.

GUARANTEE Your OS1 is guaranteed for a period of 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 unauthorised persons perform repairs. In the unlikely event of a fault occurring in the OS1 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 Pulsar OS1 has been designed to work with and complement the following products. Please contact us to receive further details of these superb products!

ChromaRange

Product No. Controller

24500 ChromaZone 12 Way Controller for ChromaRange

Signal Processing

Product No. Interface

27770 6 Channel PMX/DMX – 0-10V Interface

27350 18 Channel Universal Interface DMX – 18x10V

27300 36 Channel Universal Interface DMX – 36x10V

27400 18 Channel Switching Interface DMX – 18x10V

Rackpaks and Datapaks

A large range of dimming, and switching, packs for control of up to 20A per channel. Wall, Rack Mounting and Free Standing versions are available.

Cables

Product No. Cable

21750.4 DMX Line Terminator Plug (XLR-5)

21755.1 2m DMX Ext. Lead - 5 core (1 XLR-5 Plug, 1 Skt)

21755.2 5m DMX Ext. Lead - 5 core (1 XLR-5 Plug, 1 Skt)

21755.3 10m DMX Ext. Lead - 5 core (1 XLR-5 Plug, 1 Skt)

DIMENSIONS AND WEIGHTS

Code	Unit	Width			Height	Depth	Weight
		mm	mm	mm			
OS1	Outstation OS1 Control Desk	146	146	38			

Outstation OS1

User Programmed Pages and Scenes

Page 1

Button	Scene	Button	Scene
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	

Page 2

Button	Scene	Button	Scene
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	

Page 3

Button	Scene	Button	Scene
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	

Page 4

Button	Scene	Button	Scene
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	

Page 5

Button	Scene	Button	Scene
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	