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# DS4 / DSP

## DMX512 1x4 Splitter Users Guide

### DS4 OVERVIEW

The DS4 is a DMX512 1 in 4 out splitter that takes a DMX512 output of a lighting console or any device that transmits a DMX512 signal and actively splits the signal providing 4 separate DMX512 outputs, and offers electronic protection by separating the input device and the output devices. The optional chipset upgrade will offer additional protection *Transient Voltage Suppression* ICs. Field serviceable: socketed IC's for easy replacement, standard IC's available from many electronic parts suppliers, replaceable power supply.

### CONNECTION

Connect the power supply to the power input connector and apply power. Connect a DMX512 source into the input connector (5 or 3 pin) and insure the data LED is illuminated (showing data is present). Use any of the outputs to source up to 32 DMX512 devices (*depending on the devices and configuration*). As with any DMX512 daisy chain, each output must be terminated at the end of each daisy chain. Unused outputs do not need to be terminated.

### OPERATION

The DS4 is simple to use. Connect a DMX512 data signal input into the input connector the same DMX512 data signal will be sent out to all 4 outputs independently. Each output can source up to 32 DMX512 devices. There is no user operational controls.

### RDM OPERATION (If equipped)

- GREEN POWER LED: ON = power is applied
- YELLOW DMX LED: ON = valid DMX is Rx'ing / OFF = No valid DMX
- SINGLE FLASH = valid RDM forward packet was received
- RED RDM LED: FLICKER = RDM data being sent back to controller (line reversed)
- 4 SECOND PULSE = RDM OFF/BYPASS switch is on-no RDM data is not returned, data line will not reverse
- ON SOLID = ERROR - locked in reversal mode

**RDM OFF/BYPASS** – Depressing the switch (or shorting the jumper) will turn off RDM functionality and will ignore RDM traffic and will not reverse the DMX data line. To process and allow RDM traffic to pass through the splitter depress the switch again (or open jumper)

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## SPECIFICATIONS

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|------------------------|---|
| Chassis:               | Anodized Aluminum .093" thick RoHS compliant.   |
| Voltage Input:         | +5VDC   |
| Power:                 | Apx 350mA with 4 outputs sourcing 32 loads each   |
| Data Type:             | DMX512 (250Khz)   |
| Data Input:            | DMX512 - 5 (or 3) pin male XLR, <i>Pin 1 - (Shield) Not connected, Pin 2 Data - , Pin 3 Data +,</i>                   |
| Data Output:           | 4 separate DMX512 outputs - 5 (or 3) pin female XLR's, <i>Pin 1 - Power supply common, Pin 2 Data -, Pin 3 Data +</i> |
| Dimensions:            | 3.7 x 6.7 x 2.1 inches  |
| Weight:                | 1.5 pounds  |
| Internal PCB Fuse:     | 500mA 5x20 mm   |
| External Power Supply: | +5VDC wall mount  |
| Voltage Input:         | 100 ~ 132 (or 240) VAC  |
| Current Output:        | 1 Amps Typical  |
| Power:                 | 5 Watts Typical   |
| Polarization:          | Positive Center   |
| Output Connector:      | Barrel Plug, 2.5mm I.D. x 5.5mm O.D. x 9.5mm  |