

# DMX-Split RDM User Guide

(Version 1.3)

DMX-Split RDM is a fully bi-directional DMX512 splitter and distribution amplifier.

## Key Features include:

- ❑ Input Optical Isolation
- ❑ Five independent outputs
- ❑ Bi-directional outputs
- ❑ RDM (Remote Device Management Draft V1.0 & Standard V1.0)
- ❑ DMX512-A compatible
- ❑ Microprocessor controlled
- ❑ All connections via Neutrik XLR
- ❑ Truss Mounting adaptor available
- ❑ Support for High End System talkback protocol

## Specification:

Input Voltage: 9V DC  
Maximum Current: 0.5 A  
Dimensions: W:195mm H:115mm D:55mm  
Mounting: Free standing or Truss Mounted (optional adaptor)  
IP: Indoor use only  
Listings: CE, FCC

## Power Supply Options: (order separately)

PSU-9-1.5-XLR4  
Output: 9V 1.5A  
Max DMX-Splits: 1  
Connection: 4pin Female XLR  
Listing: CE / FCC / UL / PSE



## DMX512 Wiring:

XLR Pin	Function	Colour
1	Ground	Black
2	Data -	Blue
3	Data +	Red
4	No Connection	
5	No Connection	

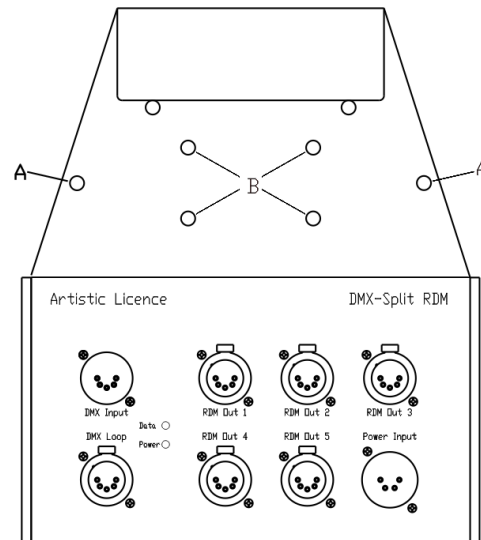
## Power Input Wiring:

XLR Pin	Function	Colour
1	Ground	Black
2	Not connected	
3	Not connected	
4	9 to 24V @ 200mA	White

## Truss-Ear Adaptor: *(Supplied separately)*

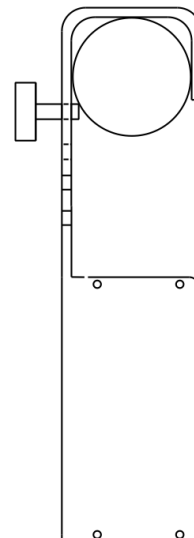
The Truss-Ear adaptor can be used to attach a DMX-Split RDM to a truss bar. To fit the Truss-Ear follow instructions below:

- 1) Remove two black end bezels
- 2) Unscrew two end plates
- 3) Push the DMX-Split RDM into the Truss-Ear
- 4) Using the eight screws provided, screw the side panels of the Truss-Ear into the DMX-Split.



## Truss Mounting:

- 1) Attach a safety wire using the eye link provided (A)
- 2) Place over truss bar and screw the two thumb screws
- 3) There are additional holes for cable management (B)



## Input:

The DMX512 input is attached via a male 5 pin XLR.

## Loop Through:

A passive Loop Through connection allows onward connection to other DMX512 devices. If this feature is not required a termination link must be connected.

## Output:

Five DMX512 outputs are provided. Each output is capable of driving 32 additional DMX512 devices. It is not necessary to terminate any outputs that are not connected. However, a terminator must be connected to the final DMX512 device.

## Indicators:

Two dual colour indicators are provided:

1. Data:

- Green: Indicates that DMX512 is being transmitted by the outputs.
- Red: Indicates that RDM data received by one of the outputs is being returned to the controller.

2. Power:

- Red: Indicates good power and normal operation.
- Flashing: Indicates that a connected RDM device is jabbering (returning unwanted data continuously).

## System Connection:

The following table summarises the internal earth interconnection and isolation:

Please note that we use the term Earth-Ground to avoid international confusion. In Europe Earth-Ground is called Earth, in the USA Earth-Ground is called Ground.

Circuit	Description	
Chassis	Normally floating. Can be connected to Earth-Ground via screen of power cable.	
DMX512 Input (including Loop Through)	Type:	Isolated.
	Pin 1:	Connects to internal isolated circuit. No connection to chassis.
	Shell:	The connector shell is connected to chassis.
DMX512 Outputs	Type:	Grounded.
	Pin 1:	Connected to chassis.
	Shell:	The connector shell is connected to chassis.
Internal Logic Ground	Connects to chassis.	

## Accessories:

- ❑ DMX-Term5 - Termination Plug
- ❑ PSU-9-1.5-XLR4 - Moulded PSU with universal mains input via an IEC 3 pin
- ❑ Truss-Ear - A Truss Mounting Kit

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