

# Chroma-Q™ Magic Box™ 8 Way DMX Buffer

User Manual



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Chroma-Q reserves the right to change or make alteration to devices and their functionality without notice due to our on going research and development.

The Chroma-Q Magic Box 8 Way Buffer has been designed specifically for the professional entertainment lighting industry. Regular maintenance should be performed to ensure that the products perform well in the entertainment environment.

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## Approvals



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## 1. Product overview

The Chroma-Q Magic Box 8 Way DMX Buffer is a fault tolerant, self healing DMX buffer designed to isolate 8 XLR-5 outputs from the DMX input, through and each other.

## 2. Operation

### Power

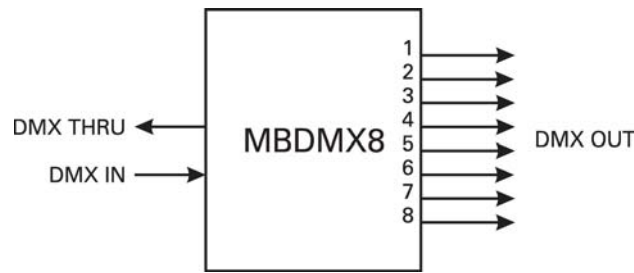
Connect power through a fused male IEC chassis connector with input power of 100 - 240V, 50-60 Hz. The standard fuse is a 5x20 mm 500mA GMA.

### Data

Data input ANSI E1.11 USITT DMX 512-A from an external source or lighting control console connects through a male XLR-5. A pass through connection is available on the female XLR-5.

Data outputs DMX-512 through 8 female XLR-5. Each individual output is fully protected, self healing, boosted from the original DMX signal and fully isolated from each other and the DMX input and through connections,

### System Diagram



### Installation

Unique Magic Box interlocking enclosure facilitates easy rack mounting when used in pairs and easy truss mounting via captive nut insert. Rack mounting brackets are available in single unit and dual unit versions.

**Note:** for truss mounting, we recommend the use of a 1/2"-13UNC x 3/4" long bolt to avoid damage.

### Control and Power Cables

The XLR-5 cable is wired pin to pin, in the following format:

Pin #	Function
1	Ground (screen)
2	Data minus
3	Data plus
4	Spare data minus
5	Spare data plus

### Accessories

Chroma-Q Magic Box pair of rack ears - Single Box - CHRM1

Chroma-Q Magic Box pair of rack ears - Dual Box - CHRM2

Chroma-Q Magic Box 8>4 DMX A/B Switch - MBDMXAB

Chroma-Q Magic Box PS12 Power Supply - MBPS12