

# **Chroma-Q™ Magic Box™ 8>4 DMX A/B Switch**

User Manual



Version 1.4 December 2006

PN: 134-0102

## Disclaimer

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Chroma-Q products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent. Chroma-Q sole warranty is that the product will meet the sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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>4 DMX A/B Switch 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.

If you experience any difficulties with any Chroma-Q products please contact your selling dealer. If your selling dealer is unable to help please contact [support@chroma-q.com](mailto:support@chroma-q.com). If the selling dealer is unable to satisfy your servicing needs, please contact the following, for full factory service:

**Outside North America:**

Tel: +44 (0)1494 446000  
Fax: +44 (0)1494 461024  
[support@chroma-q.com](mailto:support@chroma-q.com)

**North America:**

Tel: 416-255-9494  
Fax: 416-255-3514  
[support@chroma-q.com](mailto:support@chroma-q.com)

For further information please visit the Chroma-Q website at [www.chroma-q.com](http://www.chroma-q.com).

Chroma-Q is a trademark, for more information on this visit [www.chroma-q.com/trademarks](http://www.chroma-q.com/trademarks).

The rights and ownership of all trademarks are recognised.

## Approvals



# Table of Contents

<b>1. Product Overview .....</b>	<b>3</b>
<b>2. Operation .....</b>	<b>3</b>
Power	
Data	
System Diagram	
Installation	
Control and data cables	
Accessories	

## 1. Product overview

The Chroma-Q Magic Box 8>4 DMX A/B Switch is a device that manages a fast and reliable manual DMX line switchover between a master and back-up console of up to 4 DMX lines. It has two sets of 4 DMX inputs and one output set of 4 lines.

## 2. Operation

### Power

The unit requires no power, electronics or software to ensure the highest possible reliability.

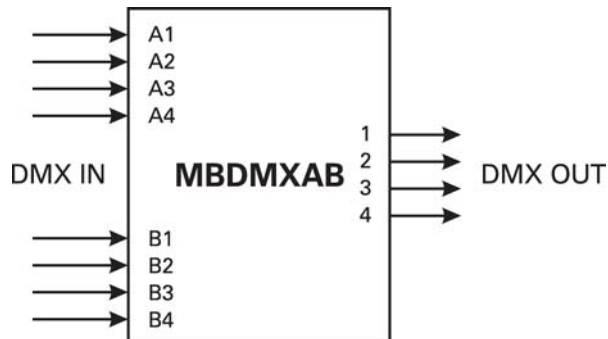
### Data

Data input ANSI E1.11 USITT DMX 512-A from an external source or lighting control console connects through 8 male XLR-5.

Data outputs ANSI E1.11 USITT DMX 512-A through 4 female XLR-5.

The unit is controlled by a simple manually operated switch.

### 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 Way DMX Buffer - MBDMX8

Chroma-Q Magic Box PS12 Power Supply - MBPS12