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

The Chroma-Q PS02 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:

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

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## Quick Start Guide PS02



For a full product manual please visit [www.chroma-q.com](http://www.chroma-q.com)

## 1. Product Description

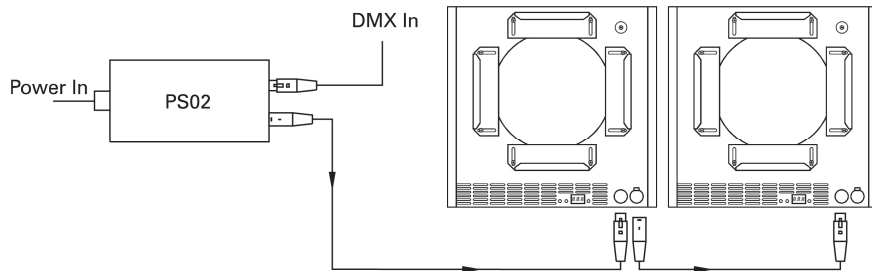
The Chroma-Q PS02 supplies power and data to the Chroma-Q range of colour changers and compatible products (see below). A maximum capacity of 2PU (Power Units), it can receive signal via ANSI E1.11 USITT DMX 512-A and deliver power and data via an XLR-4 output. No through connector is provided for DMX.

## 2. Operation

1. Connect power through a male IEC chassis connector with input power of 100 – 240V, 50 – 60 Hz.
2. Connect input data ANSI E1.11 USITT DMX 512-A from an external source or lighting console through a male XLR-5.
3. Connect power and data from the female XLR-4 output of the PS02 to the color changer units.
4. "PU" (Power Unit) is used to calculate the load requirements of the Chroma-Q system. The PS02 will supply up to 2 PU's, so you can plug-in 2 Chroma-Q Plus (2 x 1 PU = 2PU).

**Note:** The PS02 has been designed for cable runs of up to 60m (≈200 ft.)

## 3. System Diagram



## 4. Compatibility

The Chroma-Q PS02 is compatible with all Chroma-Q colour changers – Chroma-Q Plus, Original, Broadway, Universal, Cascade, M5, M8, Mirror, Junior gobo rotator, Twin Effects gobo rotator and Twin DMX gobo rotator.

## 5. Power Units

Chroma-Q Colour Changer	Power Unit
Plus	1PU
Broadway	1PU
Cascade	1.5PU
Universal	1.5PU
M5	1.5PU
M8	1.5PU
Moving Mirror	1PU
DMX Gobo Rotator	.6PU

## 6. Control and Power Cables

The Chroma-Q utilises an XLR-4 pin cable system. This is used to supply power and data. Pins 1 and 4 supply 24VDC power and Pins 2 and 3 supply ANSI E1.11 USITT DMX512-A control protocol with a ground drain wire to the connector shell.

Only genuine Tourflex Data Safe Cable is recommended for use of the Chroma-Q colour changing system.

Damage will occur if the power connections short circuit to the data or ground/shield connections. When assembling XLR-pin cables, heat shrink sleeves should be used on each individual data pin and the drain wire to prevent short circuits.

The XLR-4 cable is wired pin to pin, in the following format:

Pin	Function
1	0V DC
2	Control Data Minus
3	Control Data Plus
4	+24 V DC
Chassis	Ground Bonding

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
Chassis	Spare Data Plus

## 7. Further Information

Please refer to the Chroma-Q PS02 manual for more detailed information. A copy of the manual can be found at the Chroma-Q website – [www.chroma-q.com](http://www.chroma-q.com) – under Support.