Approvals & 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 Chroma-Q 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 on-going research and development.

The Chroma-Q Junior FX & Twin FX have 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. 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

**North America:**
Tel: +1 416-255-9494
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support@chroma-q.com

For further information please visit the Chroma-Q website at www.chroma-q.com.

Chroma-Q is a trademark, for more information on this visit www.chroma-q.com/trademarks.

The rights and ownership of all trademarks are recognised.
1. Overview
The Chroma-Q Junior FX and Twin FX are stand-alone gobo rotators, designed to accept standard sized glass or metal gobos. It features an advanced built-in effects system, allowing the user to create stunning kinetic effects. Refer to the specifications for details of gobo sizes.

<table>
<thead>
<tr>
<th>Rotator type</th>
<th>Gobo Size &amp; Quantity</th>
<th>Fixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior</td>
<td>(x 1) &quot;M&quot; size Gobo</td>
<td>ETC Source 4™ Junior</td>
</tr>
<tr>
<td>Twin</td>
<td>(x 2) &quot;B&quot; size Gobos</td>
<td>ETC Source 4™, Altman Shakespeare, Strand SL, and Selecon Pacific</td>
</tr>
</tbody>
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The units are supplied with a universal-input power supply to allow for use anywhere in the world. A remote speed control is available from your selling dealer.

2. Power Supply & Connections
- The power supply is designed for worldwide use. Connect the IEC power cord (not supplied) to the appropriate AC electrical outlet rated for 100-240 V, 47-63Hz.
- Do not plug the power supply into a dimmer circuit as this could cause a non-warranty failure of the supply.
- The power supply must be located at a safe distance away from sources of heat.

3. Installation of Gobos
The unit has 2 counter-rotating gobo holders in the same axial plane. The rear gobo holder allows repeatable indexing of this gobo holder (200 steps = 360°, 1 step= 1.8°). The gobos are held firmly in place by sprung retaining rings. Both the gobo holders & rings are designed to hold metal & glass patterns. The retaining rings can be removed by placing a small tool in one of the grooves of the ring & then prying the end of the ring out of the holder. Replace the retaining rings by inserting one end of the ring into the holder & then work around pushing the rest of the ring into its slot in the holder. Check that the rings are fully seated in their slots before operating the unit.

Install Metal gobos: the circular indentation in the retaining ring should be facing outwards.
Install Glass gobos: the circular indentation in the retaining ring is used to accommodate the greater thickness of the glass gobo & therefore should be facing inwards.

4. Operating the Unit
The Chroma-Q Junior FX and Twin FX gobo rotators feature a wide range of effects, these can be selected by the 4 position dip switch. The effects can then be adjusted by the potentiometer wheel.

4.1. Effect Selection
- Gobo Rotation
- 'Clock' Ω

4.2. Switch
- 1: CW rotation
- 2: CCW rotation
- 3: Accelerate
- 4: Decelerate

4.3. Potentiometer Wheel
- Rotation speed (Ω fast-slow-Ω fast)
- 0.2 - 20rpm (approx.)
- Rate (Ω fast-slow-Ω fast)

5. Mounting
Insert unit in the gobo gate or iris slot of the lighting fixture with the control box housing facing the front of the fixture. The rotator must be correctly seated in the iris slot before powering the lighting fixture (the unit must not move sideways). The Chroma-Q Junior FX and Twin FX are designed for mounting in an upright or side position only with the control-box housing above, or at the side of the fixture. Do not mount in an inverted position with the top control-box housing below the fixture.

Power Supply: The power supply must be located a safe distance away from any sources of heat, and does not present a physical danger to personnel or equipment in the near vicinity.

Safety Wire: The Chroma-Q Junior FX and Twin FX gobo rotators must always be used with the safety wire. There is a hole provided in the chassis for the attachment of a safety wire.

6. Further Information
Please refer to the Chroma-Q Junior FX & Twin FX manual for more detailed information. A copy of the manual can be found at the Chroma-Q website – www.chroma-q.com – under Support.