Operation Manual

12 Lamp Multi-Flo
Connect cables, lamps or fixtures according to the flow charts on pages 4-6.

The Multi-Flo operates on 120 VAC, 50/60Hz at 13.5 amps or 230 VAC, 50/60 Hz at 6.75 amps.

Turn on the Master power switch. This switch also acts as a thermal breaker. Should the Multi-Flo draw more than 15 amps (120 VAC), 10 amps (230 VAC) or experience a short circuit, the breaker will trip.

12 manual switches control individual lamps that are grouped into three 4-Lamp circuits (A, B, C).

- **Red LED** indicates lamp off.
- **Green LED** indicates lamp on.

One 2ft/4ft select switch controls the operating current for each 4-Lamp output (A,B,C)

Set selector switch to **4ft** for 4ft lamps and **2ft** for 2ft and 15” lamps.
Connect cables, lamps or fixtures according to the flow charts on pages 4-6.

Any theatrical lighting board with DMX 512 protocol can be used to individually turn on/off 12 lamps per Multi-Flo.

Multi-Flos can be jumpered using the IN and OUT ports. As many as 100 Multi-Flos can be jumpered on one chain as long as the DMX cable run remains under 1000 feet or 40 x 25ft DMX cables.

**Note:** Do Not power the Multi-Flo through a dimmer rack.

The **DMX Terminate Switch** must be set to open (O) on Multi-Flos within the DMX chain.

Set to closed (I) when the Multi-Flo is the last DMX control device in the chain.

**DMX Address**

Push the tabs above or below the number window to set the address. (Valid addresses range from 001 to 512.) The yellow light above the address block will illuminate if a DMX signal is present.

After the DMX address is entered, the Multi-Flo automatically assigns the next 11 addresses to lamps 2-12. For the sake of simplification it is advisable to select address sequences such as 1, 20, 40, 60, 80 and so on.

**Note:** As soon as a DMX signal is present the LED Lights on the switches turn amber and the **manual control is disabled**.

For more DMX information go to: www.kinoflo.com
NOTE: If the Multi-Flo loses its DMX signal it will hold its last DMX command. For this reason it is important to turn it off by using the DMX commands. For example if you try to turn off the lights by turning off the dimmer board the lights will remember their last DMX command and stay on. The Multi-Flo requires a DMX “Off” or “Black-out” command in order to turn off.

3 X 4 Bank Assembly

The Multi-Flo can run up to three, 4Bank Fixtures or Harnesses. The maximum operating distance for the lamps is 75 feet or three 25 foot head extensions.
The Multi-Flo can run up to 6 Double Fixtures or Harnesses. The maximum operating distance for the lamps is 75 feet or three 25 foot head extensions. **Note:** The lamp distribution can be divided at the Multi-Flo or at the end of a 4 Bank Extension Cable using a Splitter.
The Multi-Flo can run up to 12 Single Fixtures or Harnesses. The maximum operating distance for the lamps is 75 feet or three 25 foot head extensions. **Note:** The lamp distribution can be divided at the Multi-Flo or at the end of a 4 Bank Extension Cable using a Splitter.
### Accessories

#### Head Extensions

- X16-12 4Bank Extension, 12ft
- X16-25 4Bank Extension, 25ft
- X09-12 Double Extension, 12ft
- X09-25 Double Extension, 25ft
- X04-12 Single Extension, 12ft
- X04-25 Single Extension, 25ft

#### Splitters

- X16-A4 4Bank to Single Splitter
- X16-A9 4Bank to Double Splitter

#### Harnesses

- HAR-4804 4ft. 4Bank Harness
- HAR-4802 4ft. Double Harness
- HAR-4801 4ft. Single Harness
- HAR-3601 3ft. Single Harness
- HAR-2404 2ft. 4Bank Harness
- HAR-2402 2ft. Double Harness
- HAR-2401 2ft. Single Harness
- HAR-1504 15” 4Bank Harness
- HAR-1502 15” 4Bank Harness
- HAR-1501 15” Single Harness
Fixtures

- CFX-4804 4ft 4Bank Fixture
- CFX-4802 4ft Double Fixture
- CFX-4801 4ft Single Fixture
- CFX-2404 2ft 4Bank Fixture
- CFX-2402 2ft Double Fixture
- CFX-2401 2ft Single Fixture
- CFX-1504 15” 4Bank Fixture
- CFX-1502 15” Double Fixture
- CFX-1501 15” Single Fixture

DMX Cables

- XLR-515 DMX cable 15ft
- XLR-525 DMX cable 25ft

### Fixture Specifications

#### Kino Flo 4Bank Fixture Dimensions

<table>
<thead>
<tr>
<th>Fixture Style</th>
<th>Length</th>
<th>Width</th>
<th>Depth</th>
<th>Barndoor Width</th>
<th>Weight w/Lamps</th>
</tr>
</thead>
<tbody>
<tr>
<td>15” 4Bank</td>
<td>18”</td>
<td>13”</td>
<td>3.5”</td>
<td>6.5”</td>
<td>6 lbs</td>
</tr>
<tr>
<td>2ft 4Bank</td>
<td>27”</td>
<td>13”</td>
<td>3.5”</td>
<td>6.5”</td>
<td>7.5 lbs</td>
</tr>
<tr>
<td>4ft 4Bank</td>
<td>52”</td>
<td>13”</td>
<td>3.5”</td>
<td>6.5”</td>
<td>11.5 lbs</td>
</tr>
</tbody>
</table>
## Kino Flo Double Fixture Dimensions

<table>
<thead>
<tr>
<th>Fixture Style</th>
<th>Length</th>
<th>Width</th>
<th>Depth</th>
<th>Barndoor Width</th>
<th>Weight w/Lamps</th>
</tr>
</thead>
<tbody>
<tr>
<td>15” Double</td>
<td>18”</td>
<td>7.5”</td>
<td>3.5”</td>
<td>6”</td>
<td>3.5 lbs</td>
</tr>
<tr>
<td>2ft Double</td>
<td>27”</td>
<td>7.5”</td>
<td>3.5”</td>
<td>6”</td>
<td>4.7 lbs</td>
</tr>
<tr>
<td>4ft Double</td>
<td>52”</td>
<td>7.5”</td>
<td>3.5”</td>
<td>6”</td>
<td>7.7 lbs</td>
</tr>
</tbody>
</table>

## Kino Flo Single Fixture Dimensions

<table>
<thead>
<tr>
<th>Fixture Style</th>
<th>Length</th>
<th>Width</th>
<th>Depth</th>
<th>Barndoor Width</th>
<th>Weight w/Lamps</th>
</tr>
</thead>
<tbody>
<tr>
<td>15” Single</td>
<td>18”</td>
<td>4.5”</td>
<td>3.5”</td>
<td>3.5”</td>
<td>2 lbs</td>
</tr>
<tr>
<td>2ft Single</td>
<td>27”</td>
<td>4.5”</td>
<td>3.5”</td>
<td>3.5”</td>
<td>2.7 lbs</td>
</tr>
<tr>
<td>4ft Single</td>
<td>52”</td>
<td>4.5”</td>
<td>3.5”</td>
<td>3.5”</td>
<td>4.3 lbs</td>
</tr>
</tbody>
</table>

## Kino Flo Lamp w/ Harness Dimensions

<table>
<thead>
<tr>
<th>Lamp Type</th>
<th>Length</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>15” Medium Bi-Pin</td>
<td>15.5”</td>
<td>1.5”</td>
</tr>
<tr>
<td>2ft Med. Bi-Pin</td>
<td>24.5”</td>
<td>1.5”</td>
</tr>
<tr>
<td>3ft Med. Bi-Pin</td>
<td>36.5”</td>
<td>1.5”</td>
</tr>
<tr>
<td>4ft Med. Bi-Pin</td>
<td>48.5”</td>
<td>1.5”</td>
</tr>
</tbody>
</table>
**Multi-Flo Specifications**

<table>
<thead>
<tr>
<th>Power requirements:</th>
<th>120 VAC or 230 VAC 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amperage:</td>
<td>13.5 amps at 120 VAC</td>
</tr>
<tr>
<td></td>
<td>6.75 amps at 230 VAC</td>
</tr>
</tbody>
</table>

| Thermal Breaker:    | 15amps 120 VAC,             |
|                     | 10 amps 230 VAC             |

| Weight:             | 51.5 lbs. / 23.2 Kg         |

| Case dimension:     | 32” X 21” X 8”              |
|                     | 81.5cm x 53.3cm x 20.5cm    |

| Lamp Types:         | 15”, 2ft, 3ft, 4ft          |

---

**Environmental: Disposal of Old Electrical & Electronic Equipment.**

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. This product is made of recyclable materials and should be disposed of in accordance with local and state regulations.

Rev 10-05-2005
Part No. 3100015

Kino Flo, Inc. 2840 N. Hollywood Way, Burbank, CA 91505, USA
Tel: 818 767-6528  website: [www.kinoflo.com](http://www.kinoflo.com)