

Strand Lighting Specification

I. MANTRIX LX CONTROL CONSOLE

A. GENERAL

1. The control console shall be a microprocessor based control system specifically designed and constructed for simplified control of theatrical, television, film, and architectural dimming systems. The control console shall be designed to be lightweight, portable and easily operated.

B. CHANNEL CAPACITY

1. The control console shall provide for control of 12 or 24 dimmers on 12 or 24 channels, arranged in two scenes of manual potentiometers.

C. MECHANICAL

1. The control system shall consist of a free standing table top console with LED status indicators.
2. The console shall be made of light weight alloy and engineering grade polycarbonate with a dark grey finish with white and blue silk screen graphics. The control panels shall fit into an extruded aluminum chassis in matching grey, with four rubber feet.

D. ELECTRICAL

1. The low voltage power shall be supplied through a calculator-style female connector with the outer surface positive, the pin hole negative. 110/120VAC, 60Hz AC or 220/240VAC, 50Hz AC power supplies are available on request. The supply voltage shall be 18V DC $\pm 10\%$ (from power supply).
2. The console shall provide, as standard, dimmer output connectors for Analog dimmer control. The cable connector shall be a 15 pin Min-D panel socket (s). Cable size shall depend on length: 24AWG (up to 30ft), 22AWG (up to 60ft). Control outputs shall be 0V (off) to +10V (full on) via a 1k $\frac{1}{2}$ resistor and silicon diode.
3. The power supply shall be UL listed.

E. OPERATIONAL FEATURES

1. LED Indicators shall indicate the following:
 - a. 'A' & 'B' sliders to show active preset
 - b. Active channels
 - c. Manual level selected
 - d. Blackout active
2. Channel Sliders
 - a. The console shall feature two sliders for each channel, mounted one above the other as two presets.
 - b. Each preset of channel faders shall be under the control of a separate master slider.
3. Master Sliders

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- a. The console shall feature two master sliders mounted adjacent and in opposition so that a dipless crossfade is performed by moving both sliders in tandem.
 - b. If the masters are set at opposite ends of their scales, the console shall either mix both presets (both at 10) or blackout (both at 0).
4. Timed Fader
- a. If the time fader is set to a time from 1 second to 5 minutes, the crossfade shall complete in the time set after the masters move to the other end of the scale.
5. Bump Buttons and Bump Master
- a. The console shall have 12 or 24 channel bump buttons, one located below each of the channel faders on the lower bank.
 - b. The console shall have a bump master which sets the maximum level for any channel when its bump button is pressed. If the master is set to zero, the bump buttons shall be disabled.
6. Blackout Control
- a. The console shall provide a Blackout button. When the blackout button is pressed all channels are set to zero. Pressing the blackout button again shall reset the channels to their previous levels.
 - b. The Blackout button shall have a LED that shall be illuminated when Blackout is active.
 - c. If power is disconnected to the console while blackout is active, the desk shall retain the blackout condition if power is resumed within a 5 minute period.

F. WEIGHTS AND DIMENSIONS

1. The 12 channel console shall be no larger than 18" (452mm) W x 11" (285mm) D x 2.5" (65mm) H and shall weigh no more than 4.4lbs (2kg).
2. The 24 channel console shall be no larger than 28" (714mm) W x 11" (285mm) D x 2.5" (65mm) H and weigh 8.8lbs (4kg).

G. OPERATING ENVIRONMENT

1. The console should be operated under general office level conditions, with a minimum of dust.
2. The maximum operating ambient temperature shall be 32° - 95°F (0° - 35°C).
3. The relative humidity shall be 10% - 95% (non-condensing).

H. INCLUDED FURNISHINGS

1. (1) Power supply
2. (1) 25' Analog control cable

I. PERIPHERAL EQUIPMENT

1. An Analog Splitter cable shall be available, to allow the control signal to pass to more than one dimmer rack or pack.

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J. ACCESSORIES

1. A vinyl cover shall be available for the console.

K. SUPPLY THE FOLLOWING:

Qty.	Cat. No.	Description
#	61213	Mantrix LX12 manual console
#	61225	Mantrix LX24 manual console
#	66094	Analog output cable, DB15M/DB15M, 25' (7.6m)
#	95146	Analog output cable, DB15M/DB15M, 50' (15m)
#	95147	Analog output cable, DB15M/DB15M, 100' (30m)
#	95143	Analog splitter cable, DB15F/2 - DB15M, 18" (450mm)
#	95878	Vinyl cover for Mantrix LX 12
#	95879	Vinyl cover for Mantrix LX 24