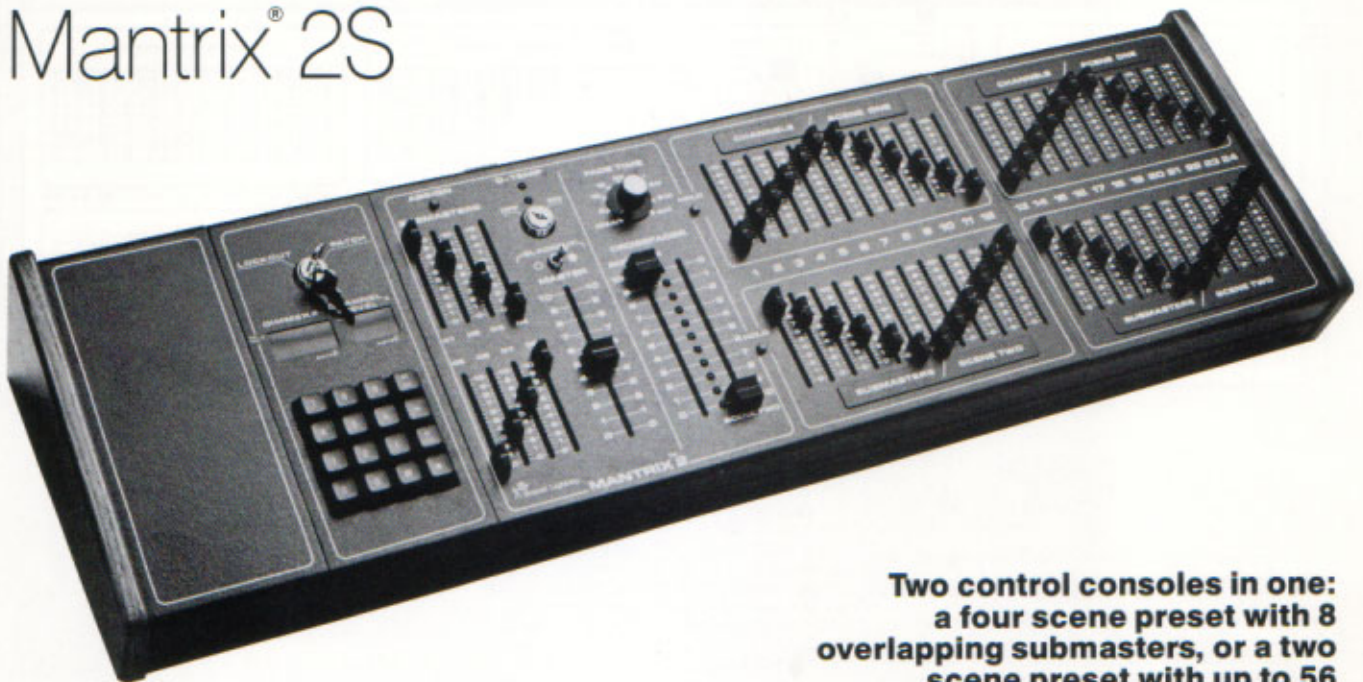


Mantrix[®] 2S



**Two control consoles in one:
a four scene preset with 8
overlapping submasters, or a two
scene preset with up to 56
overlapping submasters — at the
flip of a switch.**

8108 = SAME AS 8114 w/o PATCH

- ◀ A complete two scene preset console with up to 56 manual overlapping submasters
- ◀ Operates as a four scene preset with 8 overlapping submasters at the flip of a switch
- ◀ Electronic matrix patch (optional) with displays allows assignment of dimmers to control channels at proportional levels
- ◀ Controls up to 288 dimmers on 12 to 84 channels
- ◀ Split crossfader with tracking LED display
- ◀ Fade rate control for times from 1 second to 4 minutes with manual takeover
- ◀ Grand Master
- ◀ Blackout switch
- ◀ Multiplexed control signal for control of up to 96-2.4KW dimmers on 4 wires, or 97 to 288 dimmers on 8 wires
- ◀ Controls any combination of 2.4KW, 6KW and 12KW dimmers
- ◀ Ideal for use as manual back-up or stage manager's panel with Light Palette[®] or Mini Light Palette[®]
- ◀ Available for 220V operation

Mantrix 2S:

Catalog Number	No. of Control Channels	Description Width	Weight
8110*	12	20 ³ / ₄ " (52.7 cm)	16 lbs. (7.3kg)
8111	12	20 ³ / ₄ " (52.7 cm)	16 lbs. (7.3kg)
8112*	24	33 ¹ / ₂ " (85.1 cm)	20 lbs. (9.1kg)
8113	24	33 ¹ / ₂ " (85.1 cm)	20 lbs. (9.1kg)
8114	36	45 ¹ / ₂ " (115.6 cm)	26 lbs. (11.8kg)
8115	48	45 ¹ / ₂ " (115.6 cm)	26 lbs. (11.8kg)
8116	36	33 ¹ / ₂ " (85.1 cm)	44 lbs. (20.0kg)
8117	48	33 ¹ / ₂ " (85.1 cm)	44 lbs. (20.0kg)
8118	60	45 ¹ / ₂ " (115.6 cm)	56 lbs. (25.4kg)
8119	72	45 ¹ / ₂ " (115.6 cm)	56 lbs. (25.4kg)
8120	84	45 ¹ / ₂ " (115.6 cm)	56 lbs. (25.4kg)

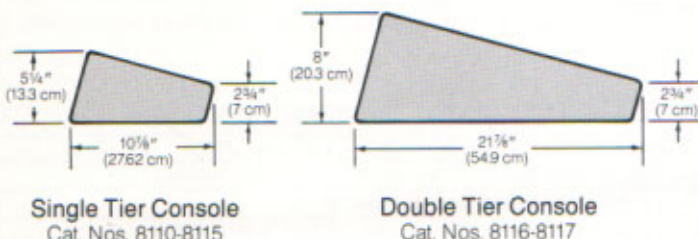
*Without patch (others include patch)

Note: All include 25' (7.6m) Control Cable and 12' (3.7m) Power Cable.

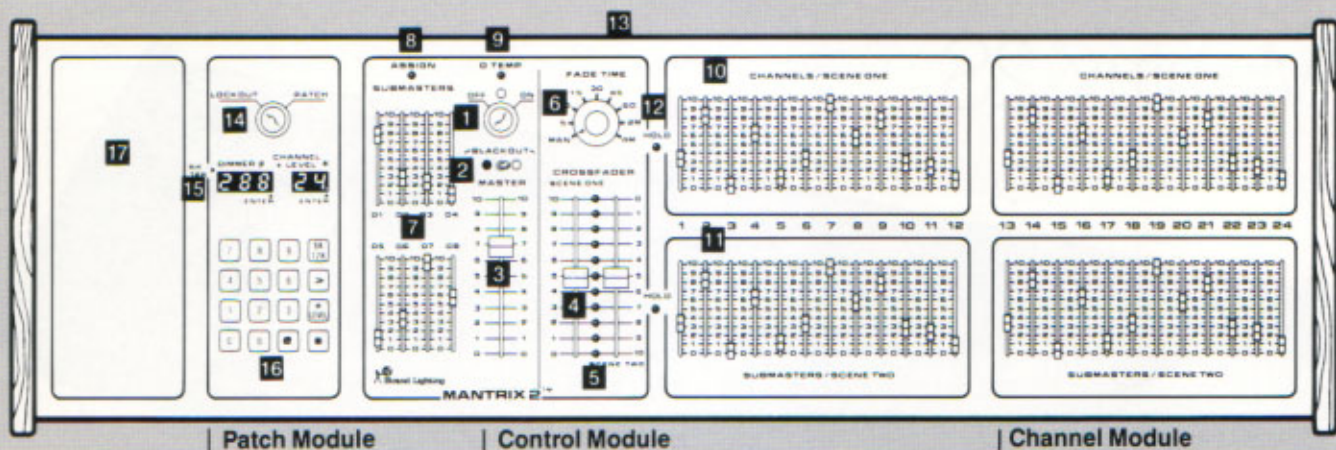
Optional Accessories:

Catalog Number	Description
8019	Castered Stand, 36" W (91.4 cm)
8022	Light as Accessory for Stand
8021/01,03,05	Vinyl Cover for Single Tier Consoles
8021/07,09,11	Vinyl Cover for Double Tier Consoles
8030	25' (7.6m) Dimmer Control Extension Cable
8031	50' (15 m) Dimmer Control Extension Cable
8032	100' (30 m) Dimmer Control Extension Cable
8174	Road Case for No. 8110, No. 8111
8175	Road Case for No. 8112, No. 8113
8176	Road Case for No. 8114, No. 8115
8177	Road Case for No. 8116, No. 8117
8178	Road Case for No. 8118, No. 8119, No. 8120

Dimensions:



Strand Lighting



Control Module

- System on/off keyswitch with pilot light
- Blackout switch
- Grand Master
- Split crossfader
- Crossfade display-indicates timed fade progress
- Rate control knob-assigns fade times and modifies times fades in progress
- Eight overlapping pile-on submasters
- Submaster assign pushbutton-assigns channels and levels to submaster
- Over temperature indicator-warns of overheating in dimmer bank

Control Module

- Control Potentiometers: a. Submaster Mode-scene one and two. b. Scene Mode-scene one
- Control Potentiometers: a. Submaster Mode-overlapping group submasters. b. Scene Mode-scene two
- Rear-illuminated "hold" pushbuttons: a. Submaster Mode-retains levels for two scene preset operation. b. Scene Mode-retains levels for four scene preset operation
- Selector switch-Scene Mode to Submaster Mode

Channel Module(s)

(see items 10 and 11 above)

Channel Module

Matrix Patch Module

- Keyswitch-enables and disables patching
- Display windows-indicate dimmer and level to channel patching
- Keypad-for dimmer to channel patching, dimmer level assignment and 6KW of 12KW dimmer designation

Blank Module(s)

- Provides space for auxiliary controls such as houselights, worklights and panic.

Mantrix® 2S Specifications:

The lighting control console shall conform strictly to requirements of this specification without deviation. The lighting control console indicated and called for herein is known as MANTRIX® 2S as manufactured by Strand Lighting Inc.

The MANTRIX 2S Control System shall include, but not be limited to, a complete multi-scene preset manual system with a dipless split handle crossfader, fade time selector, grand master, overlapping submasters, blackout switch, key switch, and over temp pilot indicator. An optional electronic patch module shall be provided when indicated.

The console shall be capable of operating in either of two distinct modes, Scene or Submaster, as detailed below. The mode of operation shall be set by the user, as required, by means of an external switch.

The console shall be modular in construction for expandability and shall provide up to 96 control channels to control up to 288-2.4KW Strand Lighting Dimmers. All modules shall be plug-in. Dimmer control signals shall be multiplexed, and no more than eight control wires shall be necessary to control a maximum of 288-2.4KW dimmers. Systems requiring a separate control wire for each dimmer will not be accepted.

Control surfaces shall be textured black finish with identification in white. Channel controllers shall be color coded to respective split crossfaders. The console shall be factory wired with receptacles for the plug-in dimmer control cables. A 12' (3.7m) long A.C. power cable shall be included.

The MANTRIX 2S shall consist of, but not be limited to, the following elements and controls:

1. Control Module (one required)

A. Manual Controllers-24 (2 for each of 12 channels) in Scene Mode these set lighting levels for four presets or scenes, two of which shall be accessed by means of an illuminated "hold" pushbutton. In Submaster Mode the upper row of controllers is used for setting levels for two scenes, one of which shall be accessed by means of the

"hold" button. The lower row of twelve controllers shall function as overlapping group submasters. Any number of channels at various levels may be assigned to any or all submasters by means of an illuminated "assign" pushbutton. Submasters shall provide proportional control over the assigned channels and their levels and may be operated independently of the crossfader or in a pile-on mode to the crossfader. Each linear fader shall have no less than 25/16" (58.7mm) travel with associated scale of "0" to "10" calibrated in half steps.

B. Crossfader-provides for one hand dipless crossfade between presets. Dual handles may be split for lead/lag fades or pile-ons. Can be operated in Automatic Mode with fade times varying from 1 second to 4 minutes. It shall be possible at any time to modify the speed, or to take control manually, of a timed fade. A fade progress indicator (LED array) which tracks the progress of the crossfader shall be provided, matching the length of travel of the crossfaders which shall be not less than 3 7/8" (98.4mm)

C. Grand Master-shall provide proportional mastering of all lighting levels. Length of travel shall be identical to the crossfader.

D. Overtemp-LED, activated by a sensor in the dimmer bank.

E. Keyswitch-power on/off switch, with LED indicator.

F. Blackout switch-two position toggle switch.

G. Submasters-eight submasters shall provide overlapping group mastering capability. These submasters shall be functional in either Scene or Submaster Mode. In Submaster Mode they shall function in addition to all other submasters in the system.

H. An integral power supply shall included. External power supplies will not be accepted. Voltages shall be regulated to within +0.1% for incoming the line voltages between 105-125VAC (195-230VAC).

2. Channel Module (___ required)

A. Manual Controllers-24 per module (2 for each of 12 channels). In Scene Mode these set lighting levels for

four presets or scenes, two of which shall be accessed by means of an illuminated "hold" pushbutton. In Submaster Mode the upper row of controllers is used for setting levels for two scenes, one of which shall be accessed by means of the "hold" button. The lower row of controllers shall function as twelve overlapping group submasters. Any numbers of channels at various levels may be assigned to any or all submasters by means of an illuminated "assign" pushbutton. Submasters shall provide proportional control over the assigned channels and their levels, and may be operated independently of the crossfader or in a pile-on mode to the crossfader. Each linear fader shall have no less than 25/16" (58.7mm) travel with associated scale of "0" to "10" calibrated in half steps.

3. Electronic Patch Module (optional)

A. Keypad-16 position keypad to allow for the assignment of dimmers at proportional levels to control channels within the limits of the MANTRIX 2S system specified above.

B. Keyswitch-provides blackout capability of patch function.

C. Displays-two numerical displays marked "Dimmer" and "Channel + Level" which can also be used for pre-viewing assignments. Stored information shall be maintained for a minimum of 24 hours in case of loss of A.C. power.

4. Auxiliary Module(s) (optional)

Modules shall be supplied with house-light controllers, panic switches and other required components as specified. Control for these specified functions shall be totally independent of the stage lighting system.

5. General Requirements

A. Cooling-convective cooled. Fans shall not be required. Maintained ambient temperature shall not exceed 104°F (40°C).

B. Power Consumption-120 (220)V, 60 (50) Hz, 5 Watts.



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Facilities in Paris and New York

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