

TECHNICAL DATA

POWERSTATION 1200/600

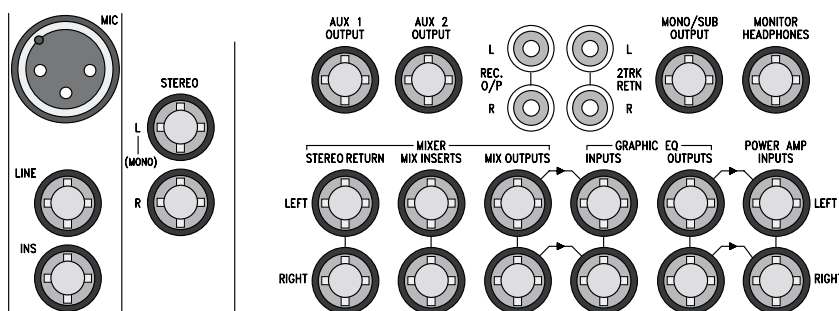
INTRODUCTION

- 16/8 mono input channels
- 24/16 inputs (including 2-track returns)
- 2 x 600/300W power amplifier
- CD-quality mixing with integrated power amp
- 2 stereo input channels
- High quality UltraMic™ preamps
- Built-in Lexicon effects processors

INDEX

INTRODUCTION	1
CONNECTORS	1
MODULES	2-3
BLOCK DIAGRAM	4
DIMENSIONS	5
ARCHITECT'S SPEC	6
TYPICAL SPECIFICATIONS	7

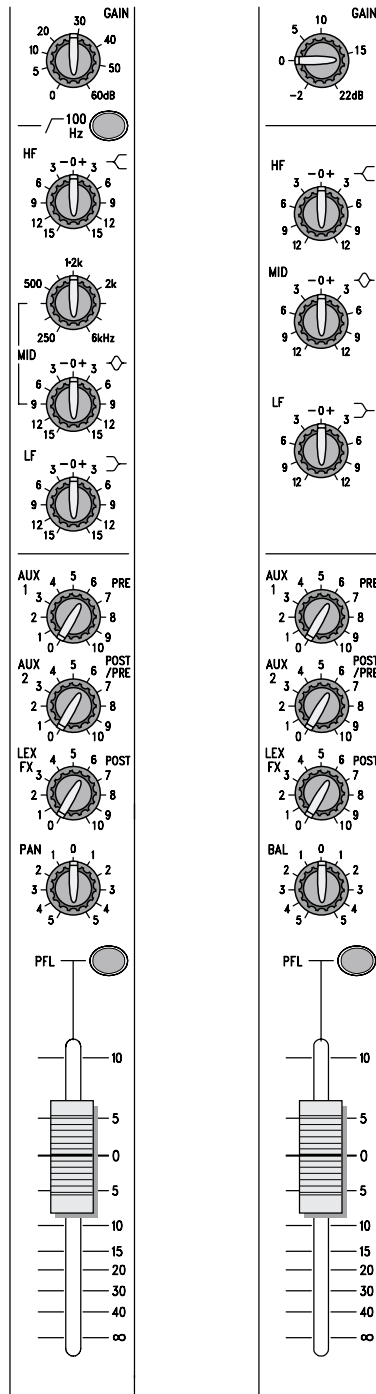
CONNECTORS



TECHNICAL DATA

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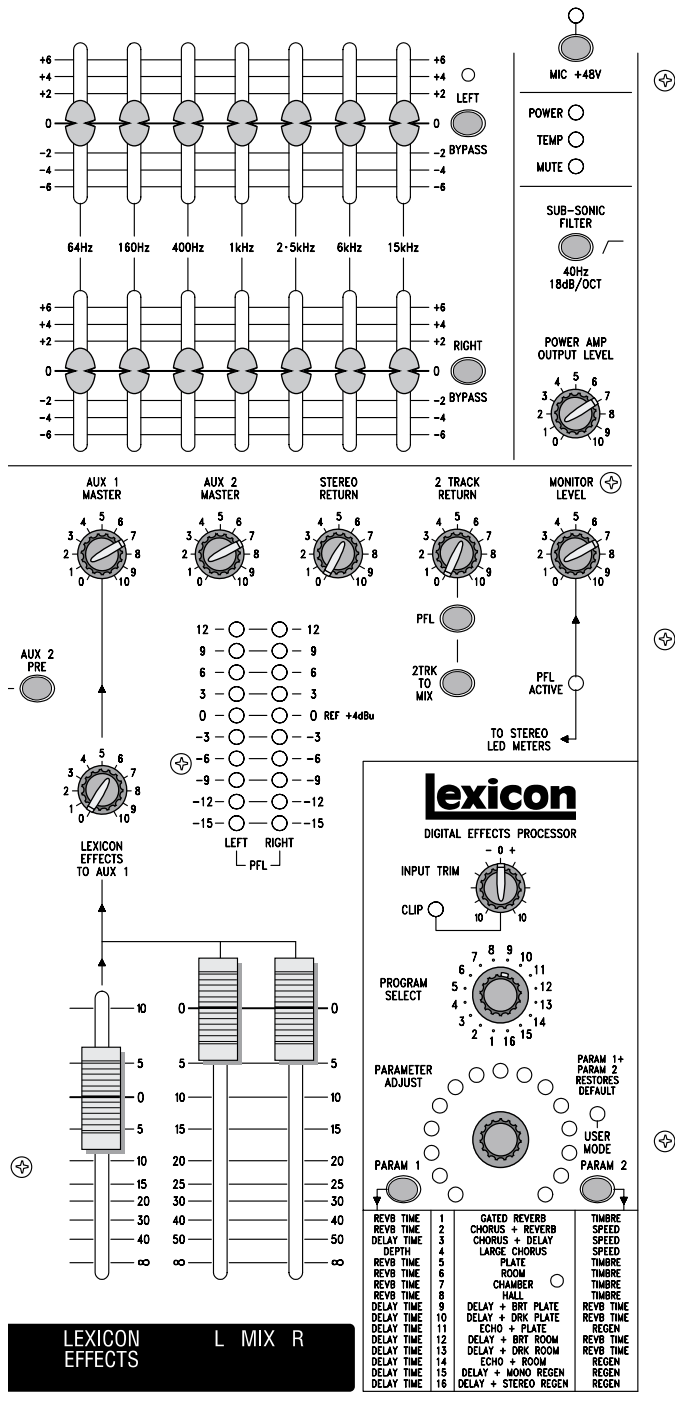
MONO/STEREO INPUTS



TECHNICAL DATA

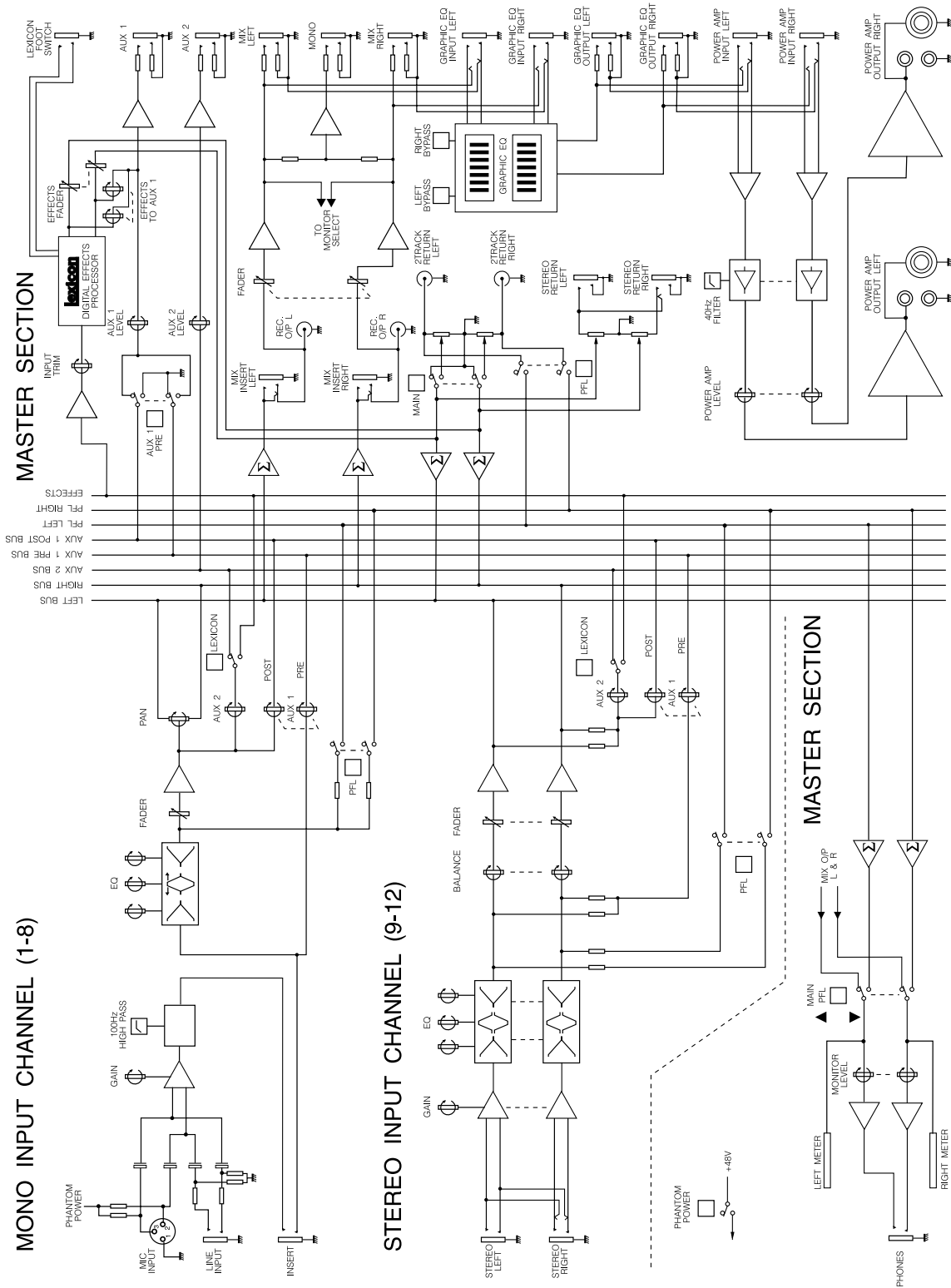
POWERSTATION 1200/600

MASTER SECTION



POWERSTATION 1200/600

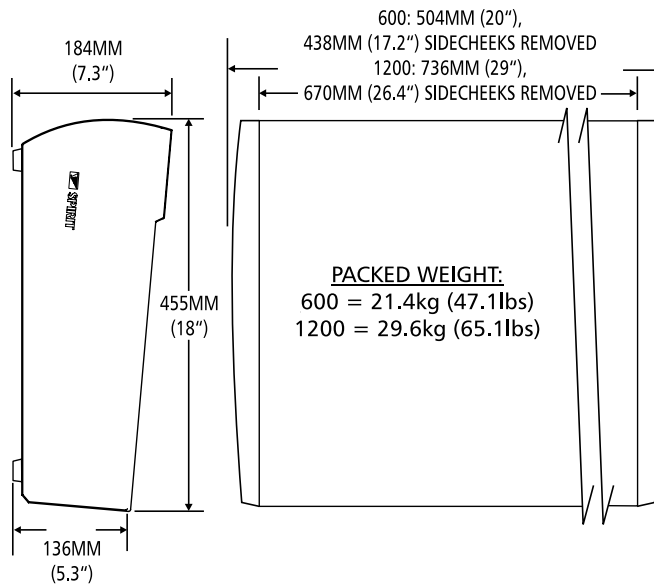
BLOCK DIAGRAM



TECHNICAL DATA

POWERSTATION 1200/600

DIMENSIONS



POWERSTATION 1200/600

ARCHITECT'S SPECIFICATION

The Mixing Console shall be constructed in an all-steel chassis with removeable side-cheeks, and shall be available in a 16 (200) 8 (600) input configuration with 2 additional stereo inputs. A built-in stereo power amplifier will be supplied. There shall be one PCB for the main channel, master and I/O section, one PCB for another 8 mono channels, one PCB for the Lexicon processor, and one PCB for the Amplifier section and power supply components. Two Graphic Equalizers will be included as standard. There shall be Main Left/Right outputs, a Mono/Sum output, 2 auxiliary send outputs, and I/O for the included graphic equalizers and amplifier. Left/Right mixer output and graphic EQ output will be normalled to the included power amp. There will be an additional RCA stereo 2 Track input. Lexicon effects will be provided as internal effects with 16 preset programs and 2 adjustable pre-set parameters per program. The Lexicon Effects shall have an input trim with a clipping indicator, and a 1/4" jack for mute/bypass purposes. The unit will be powered by an internal multi-voltage power supply.

Each Mono Input shall have low-impedance balanced inputs via XLR sockets and line-level inputs via balanced 1/4" TRS connectors. Both inputs shall be active at all times. Sensitivity shall be continuously variable from 0 dBu to -60 dBu, and phantom power will be available globally. There shall be a switchable 100Hz High Pass filter with an 18db per octave slope. The EQ shall be a 3-band type with a Shelving HF at 12kHz, Shelving LF at 80Hz, and a sweepable mid-range from 240Hz - 6kHz. The Q for the Mid-range shall be fixed at 1.5. Gain shall be cut or boosted by 15db on all bands (center detented). Three Aux sends shall be provided. Auxes 1-2 shall be external sends and Aux 3 will send to the internal Lexicon Effects. Aux 1 will be pre-fader, Aux 2 will be globally switchable pre or post-fader, and Aux 3 will be post fade. All Auxes will be post-EQ. There shall be a pre-EQ, TRS 1/4" insert point. A PFL Switch shall be provided. Faders will be 60mm Panasonic faders.

Stereo inputs will have line-level balanced 1/4" jacks for left and right signal input. Stereo input shall default to mono with only Left input applied. Gain sensitivity shall be continuously variable from 0 to 22 db. The EQ shall be a 3-band Shelving type with HF at 12kHz, MF at 1kHz, and LF at 80Hz. Gain shall be cut or boosted by 15db on all bands (center detented). Three Aux sends shall be provided. Auxes 1-2 will be external sends and Aux 3 will send to the internal Lexicon Effects. Aux 1 will be pre-fader, Aux 2 will be globally switchable pre or post-fader, and Aux 3 will be post fade. All Auxes will be post-EQ. A Balance control shall be provided, and it shall behave as a Panning control if only one input is present. A PFL Switch shall be provided. Faders will be 60mm Panasonic faders.

The Master section shall consist of two 60mm master faders which control Left and Right master level, 3 master Aux sends, and the Lexicon Effects return. The Lexicon Effects return shall be configured with a dedicated 60mm Panasonic fader and an Aux 1 send. Main Left/Right master outputs shall be balanced 1/4" with 1/4" TRS inserts available. A 1/4" balanced Mono Sum output shall be included, deriving its signal from the summation of the Left and Right master outputs. A 1/4" stereo headphone jack shall also be provided with dedicated level control. A 2 Track input will be provided via a pair of RCA inputs with a dedicated level control and PFL, and a "2 TRK" selection button shall allow this RCA input to feed the main mix. A pair of -10 RCA outputs shall be included, deriving signal from the Main Mix outputs. There shall be included a Stereo Return with level control via 2 1/4" balanced input jacks. A 10 segment multi-colored LED meter for the Left and Right Master output shall be included, and a PFL indicator shall be provided.

Two Graphic Equalizers shall be included with Bypass control. The bands shall be fixed at 64Hz, 160Hz, 400Hz, 1kHz, 2.5kHz, 6kHz, and 15kHz. Equalizer I/O shall be via balanced 1/4" jacks. Left/Right Mix output shall be normalled to EQ input, and EQ output shall be normalled to Power Amplifier input. Signal-path may be broken by insertion of an external signal jack.

The included two-channel stereo power amplifier will be rated for 600 watts per channel (RMS) into 4 ohms. The amplifier will deliver rated power output with +4dBu signal provided and amp level control at maximum. With these conditions, the THD of the system at 1kHz shall be less than .025% with both channels driven just before clipping. There shall be a Sub-sonic filter supplied, with an 18db per-octave rolloff at 40Hz. A level control will be included. Input will be via Left/Right 1/4" balanced jacks, yet signal will be normalled from the Graphic Equalizer output. Signal-path may be broken by insertion of an external signal jack. Power amp operation will be monitored by three LED indicators: Power, Temperature, and Amp-Mute status. There shall be provided Left and Right speaker output jacks, both in SPEAKON and binding-post format. A ground/earth post will be included as well as a master power-on switch.

Powerstation 1200 dimensions shall be 28.98" W x 17.89" D x 7.22" H. The console shall weigh 59.5lbs. The unit shall be called the Powerstation 1200.

Powerstation 600 dimensions shall be 19.84" W x 17.89" D x 7.22" H, and shall have a rack-mount option available. The console shall weigh 40.78lbs. The unit shall be called the Powerstation 600.

POWERSTATION 1200/600

TYPICAL SPECIFICATIONS

T.H.D.

Mic, Line or stereo input to Main Outputs,
+4dB at outputs, @1kHz<0.009%

Crosstalk

Fader Attenuation100dB @1kHz

Aux Send Attenuation80dB @1kHz

Stereo Separation70dB @1kHz

Noise

Measured RMS, 22Hz to 22kHz bandwidth

Aux Outputs-83dBu

Main Outputs-80dBu

E.I.N.

Microphone Input, Maximum Gain, terminated 150Ω129dBu

Max. Gain to Main Outputs

Mic Input74dB

Line Input54dB

Stereo Input32dB

Stereo Return & 2Track Return12dB

Maximum Input Levels

Mic Input+21dBu

Line Input>30dBu

Stereo Input+26dBu

Stereo Return & 2Track Return>30dBu

Maximum Output Levels

Any Output+22dBu

Power Amplifier Power Output

Powerstation 600300W + 300W RMS into 4Ω

Powerstation 1200600W + 600W RMS into 4Ω

Amplifier will deliver rated power output with +4dBu at power amp input sockets, power amp level control at maximum.

THD @ 1kHz with both channels driven just below clipping:

Into 4Ω<0.025%