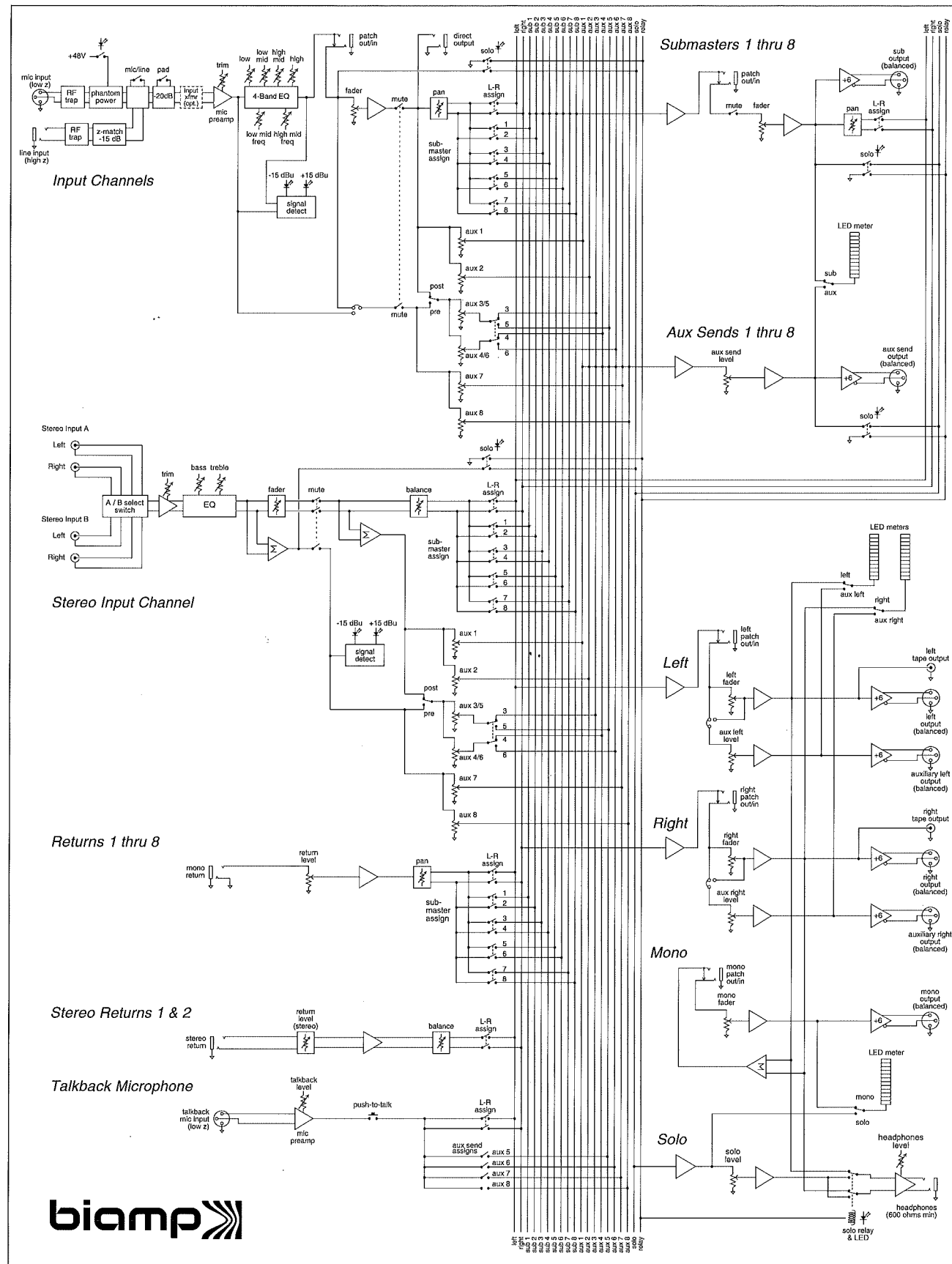
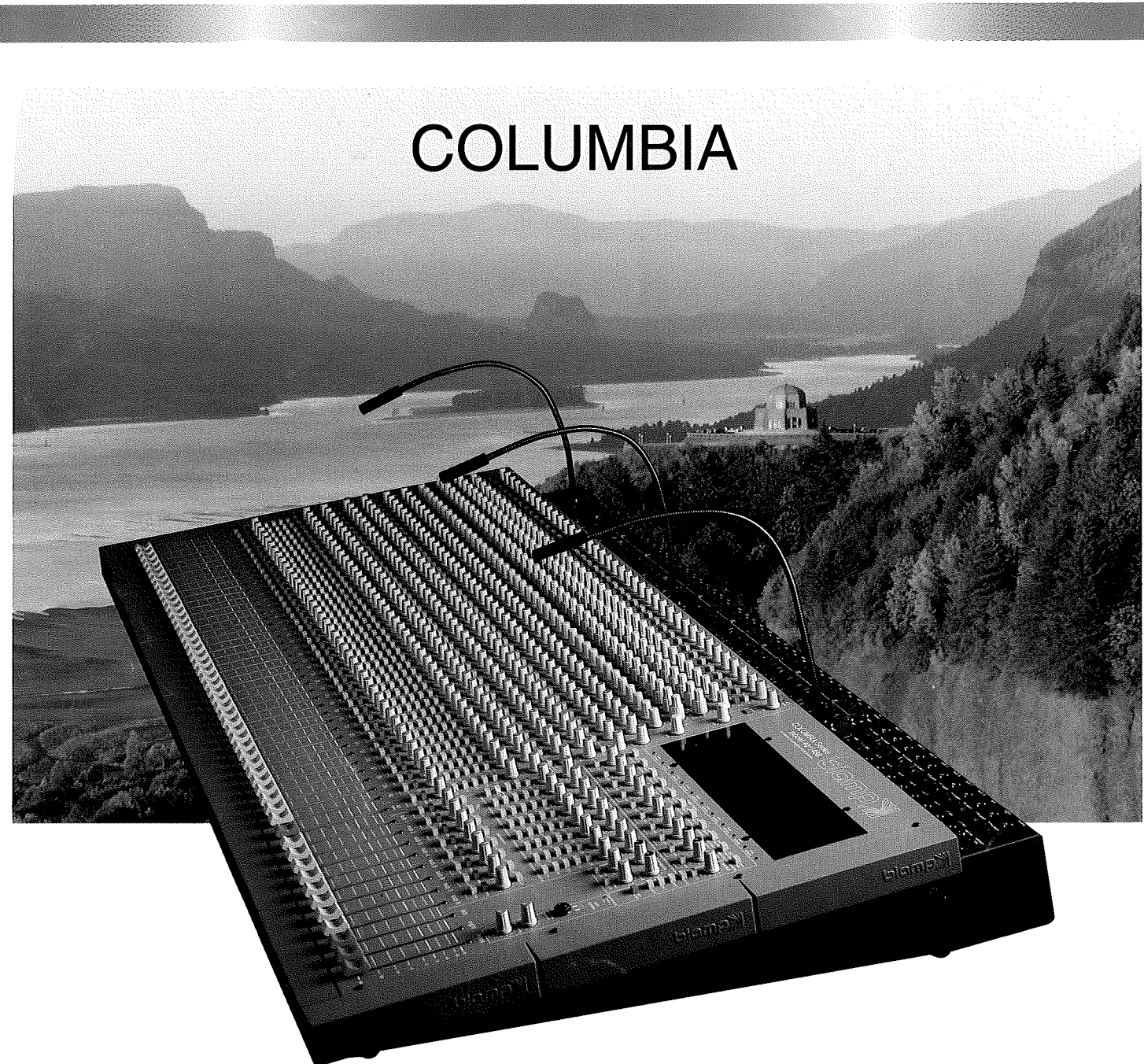


# COLUMBIA Block Diagram



**biamp** AMERICAN SOUND CRAFTSMANSHIP



# COLUMBIA

## PROFESSIONAL EIGHT-SUBMASTER MIXING CONSOLES

The **BIAMP COLUMBIA** Series mixing consoles provide professional features, solid reliability, and excellent sonic performance in three models. Available in 24, 32, and 40 Input Channel configurations, each with an additional Stereo Input Channel, the COLUMBIA Series mixing consoles are packed with enough features to handle the most demanding professional applications. COLUMBIA 24+/488, 32+/488, and 40+/488 models are compact, with a logical layout of controls and a conveniently located connector panel for ease of operation. All models feature discrete transistor Mic/Line preamplifiers and use 5532 and TLO-72 op-amps throughout the signal path for extremely noise free, high-fidelity performance. All Submaster, Auxiliary Send, Left & Right Main, Mono Main, and Auxiliary Main output circuits are balanced. A rugged assembly, utilizing individual circuit boards and an all metal chassis, provides long-term reliability for either mobile usage or fixed installations.

**biamp**

## FEATURES

- 24, 32, and 40 Input Channel models available
- Discrete transistor Mic/Line preamplifiers for superb sonic quality
- 4 band Equalization, with both mid-frequencies sweepable, on each Input Channel
- 8 Auxiliary Send busses, with 6 Send controls and an output assignment switch on each Input Channel (includes Send 3 & 4 Pre/Post switch and internal Pre/Post jumpers for all Sends) (factory default: 2 Pre-Fader/2 switchable/2 Post-Fader)
- Signal Present and Peak indicators on each Input Channel to help manage signal levels
- Mic/Line and 20dB Pad switches on each Input Channel
- 48 Volt Phantom Power to power condenser microphones (switch and indicator for each group of 4 channels)
- Direct Output on each Input Channel (Post-Fader)
- Optional Input Transformers (user installed)
- Additional Stereo Input Channel to accommodate tape decks or other stereo line level devices
- 8 Mono and 2 Stereo Auxiliary Returns (assignable)
- Auxiliary Left & Right Main outputs with level controls

- Solo switch and indicator on all Input Channels, Submasters, Auxiliary Sends, and Auxiliary Mains for individual monitoring
- Mute switch on all Input Channels and Submasters
- Patch Insert Points on all Input Channels, Submasters, and Mains for insertion of external signal processing devices
- Balanced outputs on Submasters 1-8, Auxiliary Sends 1-8, Left & Right Mains, Mono Main, and Auxiliary Mains
- Separate Stereo Tape Output on RCA jacks
- Talkback Mic input with level control, momentary push-to-talk switch and routing assignment
- Headphone Output monitors Left & Right Mains with automatic interruption by any Solo signals (includes: Headphone Level, Solo Level, and Master Solo LED)
- 11 Level Meters assignable to indicate levels at all Submasters, Auxiliary Sends, Left & Right Mains, Mono Main, Auxiliary Mains and Solo (Solo allows individual Input Channel metering)
- 100mm professional Faders
- External Power Supply, for low noise operation, with status indicators on each supply voltage

## SPECIFICATIONS \*

### MICROPHONE PREAMPLIFIERS:

Frequency Response (20Hz-20kHz, +4dBu out)	+0/- .5dB
Total Harmonic Distortion (20Hz-20kHz, 40dB gain, +4dBu out)	<.01%
Intermodulation Distortion (SMPTE)	<.02%
Equivalent Input Noise (20Hz-20kHz, 150 ohm termination)	-128dBu
Maximum Gain (mic input)	53dB
Maximum Gain (line input)	25dB
Trim Control Range	40dB
Input Impedance (mic/balanced)	2k ohms
Input Impedance (line/balanced)	20k ohms
Maximum Input (mic)	+27dBu
Maximum Input (line)	+27dBu
Phantom Power	+48 Volts DC

### INPUT CHANNEL EQUALIZATION:

High EQ	+/-12dB @ 10kHz (shelving)
High-Mid EQ	+/-12dB @ 200Hz-10kHz (peaking)
Low-Mid EQ	+/-12dB @ 100Hz-5kHz (peaking)
Low EQ	+/-12dB @ 100Hz (shelving)

### STEREO INPUT CHANNEL:

Frequency Response (20Hz-20kHz, +4dbu out)	+0/- .5dB
Total Harmonic Distortion (20Hz-20kHz, 10dB gain, +4dBu out)	<.01%
Intermodulation Distortion (SMPTE)	<.02%
Input Impedance (line/balanced)	12.5k ohms
Maximum Gain	20dB
Trim Control Range	20dB
Maximum Input	+21dBu
High EQ	+/-15dB @ 10kHz
Low EQ	+/-15dB @ 100Hz

### MIXER SECTION:

Frequency Response (20Hz-20kHz, +4dBu out)	+0/-1dB
Total Harmonic Distortion (20Hz-20kHz, unity gain, +4dBu out)	<.01%
Intermodulation Distortion (SMPTE)	<.02%
Noise Floor (submaster/main outputs, 0Hz-30kHz, unity gain)	-88dBu
Crosstalk (channel-to-channel @ 1kHz)	-77dB
Crosstalk (channel-to-channel @ 10kHz)	-77dB
Crosstalk (submaster-to-submaster @ 1kHz)	-77dB
Crosstalk (submaster-to-submaster @ 10kHz)	-50dB
Input Impedance (returns/unbalanced)	20k ohms
Input Impedance (patch/unbalanced)	20k ohms
Output Impedance (sends, subs, & mains/balanced)	100 ohms
Output Impedance (patch/unbalanced)	100 ohms
Output Impedance (tape/unbalanced)	1k ohms
Maximum Output (sends, subs, & mains/balanced)	+27dBu
Maximum Output (patch/unbalanced)	+21dBu
Maximum Output (tape/unbalanced)	+8dBu
Maximum Output (headphones/each side)	+18dBm
Minimum Load Impedance (sends, subs, & mains)	600 ohms
Minimum Load Impedance (patch)	2k ohms
Minimum Load Impedance (tape)	5k ohms
Minimum Load Impedance (headphones/each side)	600 ohms

### AC POWER REQUIREMENTS

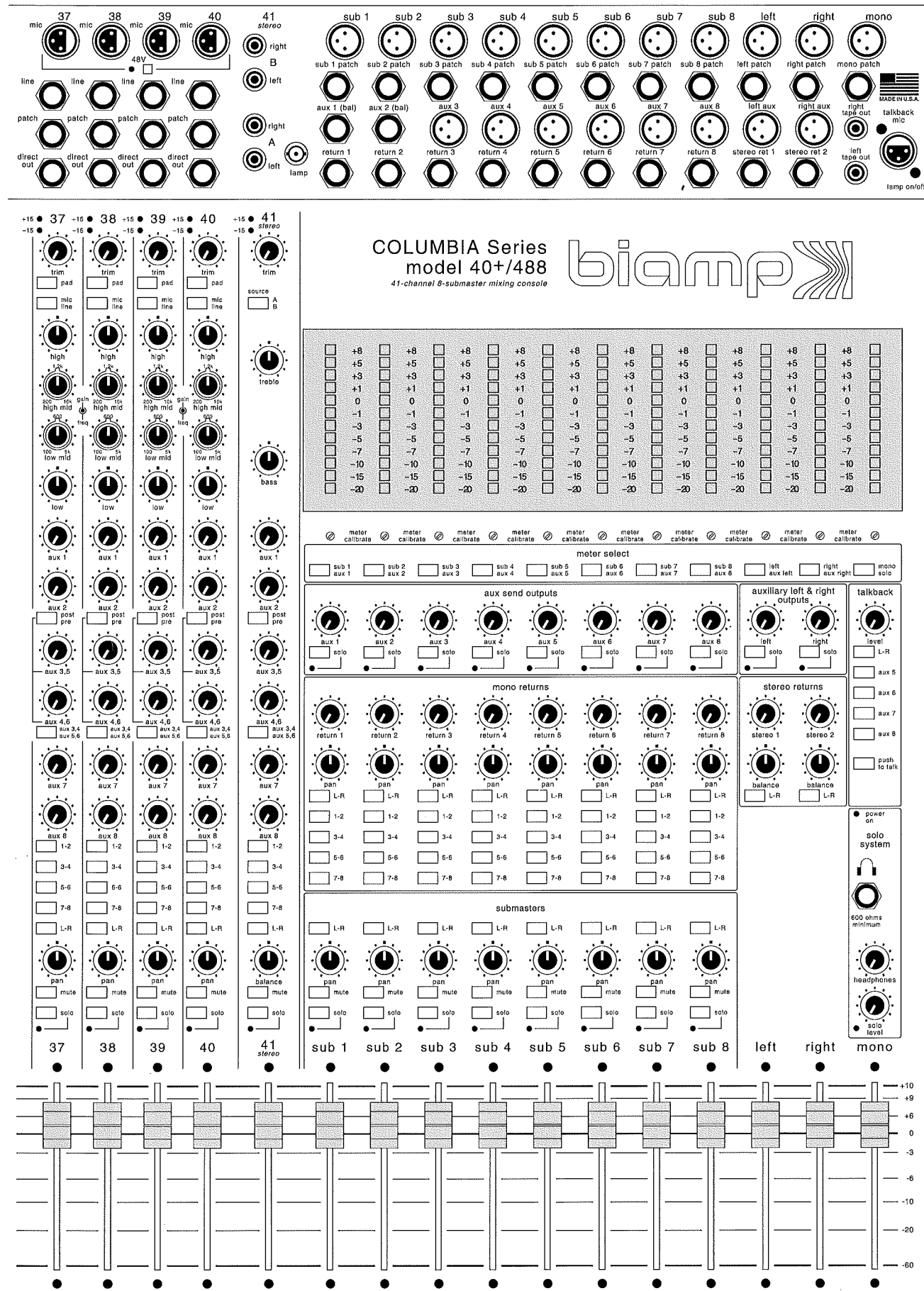
(115/230VAC @ 50/60Hz)	200 Watts
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### DIMENSIONS:

	24 channel	32 & 40 channel
Height	6 inches	6 inches
Width	46 inches	63.25 inches
Depth	30 inches	30 inches

### WEIGHT:

	24 channel	32 channel	40 channel
	85 lbs.	115 lbs.	120 lbs.



\* preliminary