

LPB[®]

SIGNATURE III AUDIO CONSOLES



S-24 12 MIXER DUAL STEREO

SIGNATURE III AUDIO CONSOLES

Designed and manufactured to a high level of operational capability and electronic/mechanical reliability for the on-air and production requirements of the professional broadcaster.

Extensive human engineering and over 20 years of experience in console design have been combined to provide the operator with a console which is both visually appealing and easy to operate.

Internally the approach is similar, with immediate visual identification and ease of access to every component and connection in the console.

SIGNATURE III CONSOLE FEATURES

MODULAR ELECTRONICS: All active signal processing circuitry is "plug in" and located on 2 "mother board" main frame assemblies. Plug-in modules are used for microphone preamps, balanced high level inputs, line outputs, voltage regulator, monitor output drivers and cue/headphone amplifier functions.

DUAL LINE LEVEL OUTPUTS: All audition outputs are balanced line level and metered, identical in function and performance to the main program output.

OUTPUT DIRECTOR SWITCH: All consoles have a three position output director switch on the audition output line.

INTERNAL CUE AND MONITORING SYSTEM: Separate 1 watt power amplifiers are located within the console to provide a high quality audio source for the internal 5 inch cue speaker and the two headphone monitor outputs. Another internal monitor amplifier provides 12 watts per channel of audio for monitor speakers.

MUTING AND TALLY RELAYS: Rugged telephone-type relays are utilized and are socket mounted for ease of maintenance.

POWER SUPPLY: The power supply and transformer is completely internal to the console. The transformer is specifically designed for low field operation with Mylar interwinding insulation for protection against transient damage.

CHASSIS CONSTRUCTION: All Signature consoles are constructed of heavy duty aluminum alloy with natural finished solid oak end panels.

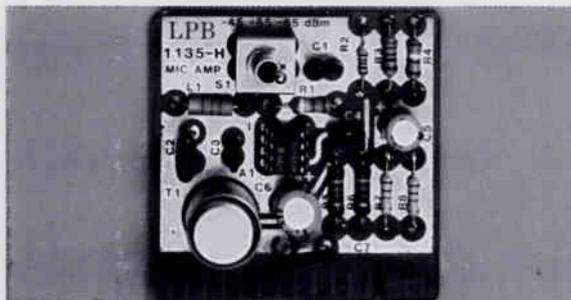
REMOTE FUNCTIONS: All mixers except the first microphone mixer have momentary pushbuttons wired to terminal strips for the external control of cartridge machines, turntables, etc.

WARRANTY: LPB guarantees freedom from RFI interference and your complete satisfaction upon delivery. LPB will provide any necessary repairs at our factory, without charge, for one year.

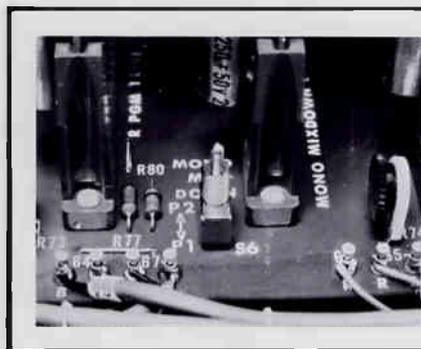
All program buss switches are rugged telephone-type roller cam design with gold alloy contacts. Additional closure contacts provide for internal relay muting.



The plug-in microphone preamp incorporates switch selectable preamp gain to allow instant level matching to -45, -55 and -65 dB microphone sensitivity levels. All microphone inputs are coupled with a dual shielded, high RF suppression transformer. All active circuitry is located on plug-in modules for flexibility and ease of maintenance.



The printed circuit boards are 2 ounce copperclad G-10 fiber glass laminate, tin lead electroplated. Internal wire connections are soldered to silver plated miniature turret terminals, and all internal wiring is multiple-strand, 100% foil shielded. The monitor power output transistors are heat-sunk to the chassis rear panel for maximum heat dissipation.

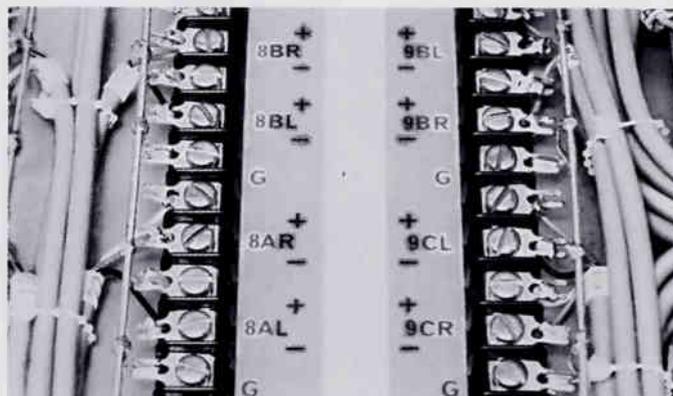


A feature of all stereo consoles is the ability to add an optional output line amplifier which will provide a mono mixdown, switch selectable, of either stereo program (P1) or audition (P2) busses.

A unique feature of the Signature III Stereo Consoles is the mono/stereo input switch located behind the front panel. This switch enables a mono source to be split to the left and right program busses. These selectors are provided for each microphone channel and all high level channels.



All input-output connections are made to screw terminal barrier strips clearly identified to aid in wiring without reference to the manual. The console harness cables are also identified and correspond to the internal circuit board wiring point markings and the wiring diagram.



SIGNATURE III AUDIO CONSOLES



MODEL S-10
6 MIXER DUAL STEREO



MODEL S-11
6 MIXER DUAL MONO



MODEL S-13
8 MIXER DUAL STEREO



MODEL S-15
8 MIXER DUAL MONO



MODEL S-20
10 MIXER DUAL STEREO



MODEL S-21
10 MIXER DUAL MONO

Model S-24 12 Mixer Dual Stereo shown on front cover.



MODEL S-20
INTERIOR

LPB Inc. • 28 Bacton Hill Road • Frazer, PA 19355 • (215) 644-



ELECTRONIC INDUSTRIES, INC.

TOLL FREE:

IN STATE 1-800-445-0222

OUT OF STATE 1-800-558-0222

SPECIFICATIONS

Mixers:
 Total 6, 8, 10, 12 (stereo only)
 With Cue all
 Type Shallco step atten

Inputs:
 Standard Factory Equipped —
 Mic (mono/stereo) 6
 Hi-Level all others
 Optional Maximum —
 Mic (mono/stereo) 12
 Hi-Level all others

Input Impedance:
 Mic 150 ohms source, trans. bal.
 Hi-Level 600 ohms, trans. bal.

Input Levels:
 Mic selectable—45/—55/—65dBm
 Hi-Level —10dBm

Outputs:
 All Pgm +8dBm(OVU)
 clipping level above +22dBm
 Monitor 12 watts per channel
 Cue 1 watt with 5" int. spkr.
 Headphones 1 watt into 8 ohms

Output Impedance:
 All Pgm 600 ohms, trans. bal.
 Monitor 2 to 8 ohms
 Headphones 8 ohms

Frequency Response:
 All Pgm within 1.0dB, 20Hz—20kHz
 Monitor within 1.5dB, 20Hz—20kHz

Total Harmonic Distortion:
 All Pgm 0.05%, 20Hz—20kHz
 @ +8 dBm, output, -55dBm input
 Monitor 0.1%, 20Hz—20kHz

I.M. Distortion:
 All Pgm less than 0.15% @ +22dBm output
 Monitor less than 0.2% @ 12 watts

Signal-to-Noise:
 All Pgm better than 75dB below
 +8dBm output.

Crosstalk:
 below noise level

Stereo Separation:
 greater than 65dB

Power Requirements:
 Voltage 117VAC (234VAC avail.)
 Frequency 50/60Hz
 Power 60 to 75 watts

Dimensions:
 Height 9"
 Depth 15"
 Width—
 6 mixer 28-5/8"
 8 mixer 32-5/8"
 10 mixer 38-5/8"
 12 mixer 45-5/8"

Weight:
 30/40/55/60 lbs.

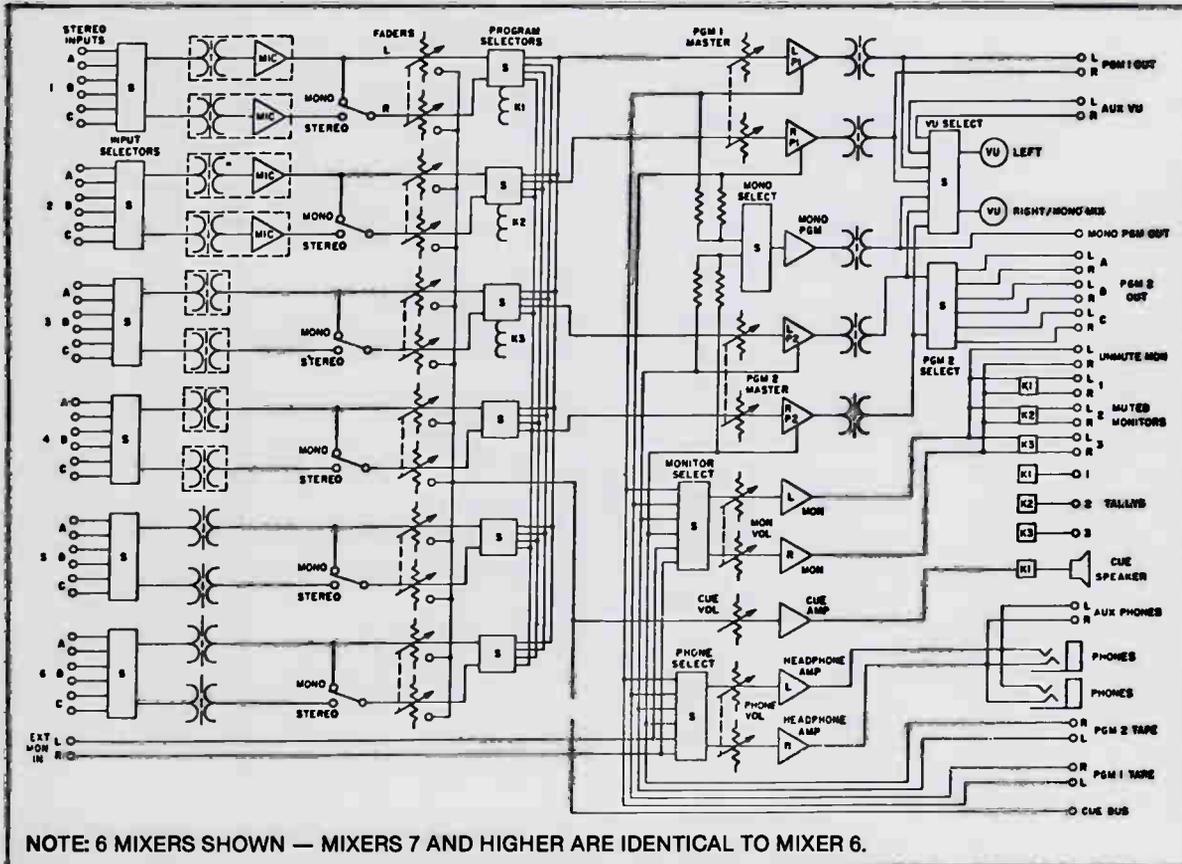
Plug-In Modules:
 Types Mic Preamp, Hi-Level Input, Cue Head-
 phone Amp, Line Amp, Power Amp, and Voltage Regulator

Total:
 9 to 17

Cabinet:
 Material 0.125" Aluminum
 Finish Textured scratch resistant bright cream
 exterior, clear anodized interior, oak end panels

Panel:
 Material 0.125" Aluminum
 Finish Horizontally ground, brushed
 and clear anodized aluminum with
 black epoxy silk screening

(Specifications subject to change)



OPTIONS

- (See Price List for details):
- P&G rotary stepless faders
- Mono mixdown (on stereo models)
- Different mix of Microphone and Hi-Level inputs
- Additional microphone plug-in capability (special order)
- Copy Stand for top of console
- Spare plug-ins
- Semiconductor and Extended Spare kits

LPB introduces...

Citation II.



The brand new console with a ten year track record.

Start with one of the longest-running success stories in the radio console business: the LPB Citation I. Then add the combined wisdom of ten years of user feedback and make that "wish list" of features standard. Now you've got the idea behind LPB's new low profile Citation II console.



Not just a change for change's sake, Citation II represents the "real world" of radio today. For today's fast-paced air shifts, we placed all essential controls — and *only* the essential controls — directly in front of the operator. Lesser-used controls are logically grouped together on the right.

For flexibility, the ten-mixer Citation II features three inputs per mixer with lock-out switching, two stereo output busses, mix-minus capability, mono mixdown with independent VU, two user configurable four position auxiliary selectors and programmable monitor and cue muting for the first five mixers.

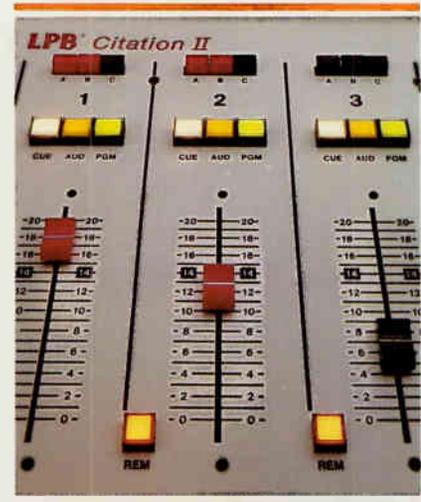
For convenience, a digital clock and a separate event/cumulative timer are standard, and every mixer has a remote start button which follows the input selected.

For durability, Citation II's low profile front panel is protected by a tough Lexan® overlay. And the entire console is built for long life and easy maintenance, in the LPB tradition. Plus, it's value priced in the LPB tradition as well.

Best of all, Citation II sounds great, just like our legendary Citation I.

Before you buy *any* studio console, talk to a LPB Citation user (there are hundreds of them, so finding one won't be hard.) Then

call your LPB distributor and check out our Citation II, the only brand new console backed by ten years of proven reliability and performance.



LPB®

LPB, Inc.

28 Bacton Hill Road
Frazer, Pennsylvania 19355
Tel: 215-644-1123
Fax: 215-644-8651

LPB Citation II Audio Console

Standard Features

- 3 inputs per channel
- Five illuminated VU meters with LED peak indicators — each with a calibration amp and variable peak threshold
- 12/24 hour digital clock and 4 digit timer
- Remote Start momentary pushbutton on each channel follows the input — for sustained contact, an internal switch transfers control to Program/Audition switches
- Easily serviceable: Entire front panel opens to provide access to complete console interior
- Internal programmable muting matrix
- Plug-in stereo pre-amp for each channel with mono/stereo input switch
- Mic pre-amp switches also select hi/mid/lo gain and external processing
- Program and Audition Masters on console panel switchable to internal level controls
- Two 4-position auxiliary selectors for additional inputs, extra outputs, or external inputs to monitor, headphone, VU meters, etc.
- Clearly identified barrier strip terminals simplify console installation and input source addition or alteration

Specifications

CHANNELS:

Model C2-10 • 10 Penny & Giles Linear Faders

INPUTS:*

Mic • 6 Stereo
Line Level • 24 Stereo
External Monitor • 1 Stereo
External Headphone • 1 Stereo
External VU Meter • 2 Stereo

INPUT IMPEDANCE:

Mic • 150 Ω source, transformer balanced
Line Level • 600 Ω terminating, transformer balanced
External Monitor • 4.7k Ω unbalanced
External Headphone • 4.7k Ω unbalanced
External VU Meter • 100k Ω balanced, 47k Ω unbalanced
Mic Process • 10k Ω unbalanced

INPUT LEVELS:

Mic • - 45 dBm, - 55 dBm, - 65 dBm selectable
Line Level • - 10 dBm
External Monitor • 250 mV
External Headphone • 250 mV
External VU Meter • 1 V rms = 0 VU
Mic Process • 1.2 V rms

OUTPUTS:

Program • 1 Stereo
Audition • 1 Stereo
Mono Mixdown • 1 Mono
Monitor • 4 muted, 1 unmuted Stereo
Headphone • 1 Stereo, 2 jacks
Tape Out • 2 Stereo, 1 Mono
Cue Bus • 1 Mono
Mic Send • 1 Mono

OUTPUT IMPEDANCE:

Program, Audition, Mixdown • 600 Ω , transformer balanced
Monitor • 600 Ω minimum
Cue Bus • 4.7k Ω
Headphone • 8 Ω minimum
Tape Out • 1k Ω source
Mic Process, Mic Send • 10k Ω

OUTPUT LEVELS:

Program, Audition, Mixdown • + 8 dBm (0 VU) clipping headroom above + 22 dBm
Monitor • 1 V
Cue • 0.5 W to internal speaker
Headphone • 0.5 W
Tape Out • + 1 dBm @ 10k Ω , - 6 dBm @ 600 Ω
Cue Bus • - 5 dBm
Mic Process • 300 mV
Mic Send • 500 mV

REMOTE START:

Dry relay contacts, rated 24 VDC & 200 mA

FREQUENCY RESPONSE:

Program, Audition, Mixdown • 20 Hz to 20 kHz \pm 1 dB

TOTAL HARMONIC DISTORTION:

Program, Audition, Mixdown • 0.04% typical, 0.1% maximum @ + 22 dBm output, - 55 dBm input, 20 Hz to 20 kHz

INTERMODULATION DISTORTION:

Program, Audition, Mixdown • 0.03% typical, 0.1% maximum @ + 22 dBm output, - 55 dBm input, 20 Hz to 20 kHz

SIGNAL/NOISE RATIO:

Program, Audition, Mixdown • better than 75 dB below + 18 dBm output, - 55 dBm input

CROSSTALK:

Program, Audition • below Noise level

ELECTRICAL:

Power • 117/234 VAC, 50/60 Hz, 100 W max.

CABINET:

Material • 0.125" aluminum
Finish • Textured scratch-resistant baked enamel
Trim • Solid oak end panels and front panel strip
Interior Chassis Identification • Epoxy ink silk-screened
Front Panel Finish • Lexan®

MECHANICAL:

Dimensions • 47" W x 25" D x 7.5" H above table top, 3.5" below surface (11" total height)
Shipping Weight • 100 lbs. net, 130 lbs. gross

NOTES:

* Standard configuration is 2 Mic and 8 Line Level channels: Any combination is available.



ELECTRONIC INDUSTRIES, INC.

TOLL FREE:

IN STATE 1-800-445-0222

OUT OF STATE 1-800-558-0222

LPB®

LPB, Inc.

28 Bacton Hill Road • Frazer, Pennsylvania 19355

Tel: 215-644-1123 • Fax: 215-644-8651