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.

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 I11 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.

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.

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

ELECTRONIC INDUSTRIES, INC.
TOLL FREE:
IN STATE 1-800-445-0222
OUT OF STATE 1-800-558-0222

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

Mixers:
Total ........................................... 6, 8, 10, 12 (stereo only)
With Chokes .................................. all
Type ........................................... Shalco 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
Monitor ......................................... @ +8 dBm, output, -55dBm input

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 .......................................... 28-5/8"
6 mixer ......................................... 32-5/8"
8 mixer ......................................... 36-5/8"
10 mixer ...................................... 45-5/8"
12 mixer ......................................

Weight ........................................... 30/40/55/60 lbs.

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

Total ........................................... 9 to 17

Cabinet:
Material ...................................... 0.125" Aluminum
Finish .......................................... 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

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

NOTE: 6 MIXERS SHOWN — MIXERS 7 AND HIGHER ARE IDENTICAL TO MIXER 6.
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.

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

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 ± 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.