

# Soundtech™

## S E R I E S A

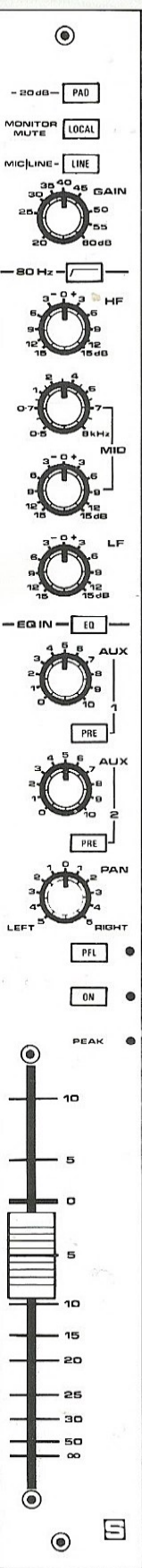
M O D U L A R A U D I O C O N S O L E S



The Soundtech™ Series A is designed to meet the demand for a competitively priced high performance mixing console for use in local radio, audio visual, and portable applications. The fully modular construction and choice of seven sizes of extruded alloy frame allow the customer to specify the ideal mixer for the job.

State of the art electronics are used throughout for optimum audio performance. Main inputs and outputs are active balanced for easy connection to either professional or semi-professional equipment. All modules are removable from the front of the unit for ease of service. High quality 100 mm slide faders are used offering

### MONO INPUT



**20dB PAD**  
Avoids high level microphone overload.

**LOCAL MONITOR MUTE**  
Prevents howl-round when microphones are used in close proximity to studio monitor loudspeakers.

**MIC/LINE**  
Selects microphone or line level inputs.

**GAIN**  
Level control for microphone and line inputs.

**HIGH PASS FILTER**  
12dB/octave, attenuates unwanted frequencies below 80Hz

**HF CONTROL**  
+/- 15dB at 12kHz, shelving characteristic.

**MID CONTROLS**  
+/- 15dB at any frequency from 500Hz to 8kHz, bell characteristic.

**LF CONTROL**  
+/- 15dB at 60Hz, shelving characteristic.

**EQ. IN**  
Inserts equaliser section.

**AUXILIARY SENDS**  
Each switchable pre or post fader for foldback or effect sends.

**PAN CONTROL**  
Determines signal position within the stereo image.

**PFL (Pre fade listen)**  
Pre fader monitoring for cueing and auditioning.

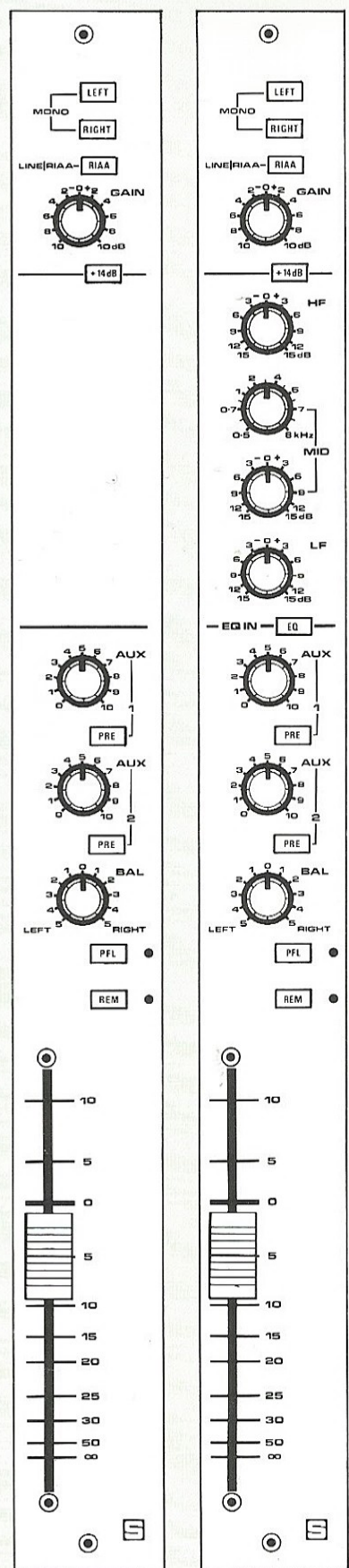
**ON**  
Feeds channel output to main and auxiliary mix busses.

**PEAK LED**  
Illuminates 3dB below clipping to warn of channel overload.

**CHANNEL FADER**  
Long throw 100mm fader with ultra smooth action and long life. Selectable fader switching (see local monitor mute) is fitted as standard.

**CONNECTIONS:-**  
Microphone input (balanced) 3 pin XLR JACK  
Line input (balanced) 3 pole 1/4" JACK  
Insert point (unbalanced) 3 pole 1/4" JACK

### STEREO INPUTS



**LEFT**  
Routes left input to both sides of stereo image.

**RIGHT**  
Routes right input to both sides of stereo image.

**MONO**  
LEFT and RIGHT together mono the channel.

**LINE/RIAA**  
Selects stereo line or equalised phono input.

**GAIN**  
+/- 10dB level control for line and RIAA inputs.  
+ 14dB  
Inserts extra gain for domestic equipment.

**OPTIONAL EQ SECTION**  
**HF CONTROLS**  
+/- 15dB at 12kHz, shelving characteristic.  
**MID CONTROLS**  
+/- 15dB at any frequency from 500Hz to 8kHz, bell characteristic.  
**LF CONTROL**  
+/- 15dB at 60Hz, shelving characteristic.  
**EQ.IN.**  
Inserts equaliser section.

**AUXILIARY SENDS**  
Each switchable pre or post fader for foldback or effect sends.

**BALANCE CONTROL**  
For correction of stereo imbalance or special effect.

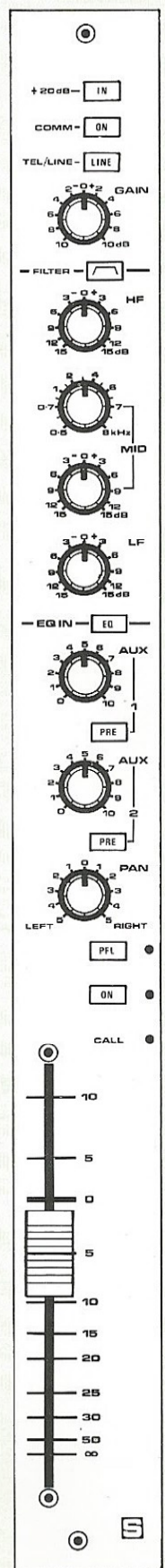
**PFL (Pre fade listen)**  
Pre fader signal monitoring for cueing and auditioning.

**REM**  
Remote control for external equipment, internally selectable for pulsed or continuous closing contact output.

**CHANNEL FADER**  
Long throw 100mm fader with ultra smooth action and long life. Fader start can be fitted as an option.

**CONNECTIONS:-**  
Lines inputs (balanced) 3 pin XLR  
RIAA inputs (unbalanced) RCA/Phono  
Remote control 2 pole 3.5mm JACK

### TELEPHONE INPUT



+20dB IN  
Inserts extra gain for domestic equipment.

COMM ON  
May be used for microphone PFL at TEL/LINE.

TEL/LINE  
Selects telephone or line input.

GAIN  
+/- 10dB level control for line and RIAA inputs.  
+ 14dB  
Inserts extra gain for domestic equipment.

**OPTIONAL EQ SECTION**  
**HF CONTROLS**  
+/- 15dB at 12kHz, shelving characteristic.  
**MID CONTROLS**  
+/- 15dB at any frequency from 500Hz to 8kHz, bell characteristic.  
**LF CONTROL**  
+/- 15dB at 60Hz, shelving characteristic.  
**EQ.IN.**  
Inserts equaliser section.

**AUXILIARY SENDS**  
Each switchable pre or post fader for foldback or effect sends.

**BALANCE CONTROL**  
For correction of stereo imbalance or special effect.

**PFL (Pre fade listen)**  
Pre fader signal monitoring for cueing and auditioning.

**REM**  
Remote control for external equipment, internally selectable for pulsed or continuous closing contact output.

**CHANNEL FADER**  
Long throw 100mm fader with ultra smooth action and long life. Fader start can be fitted as an option.

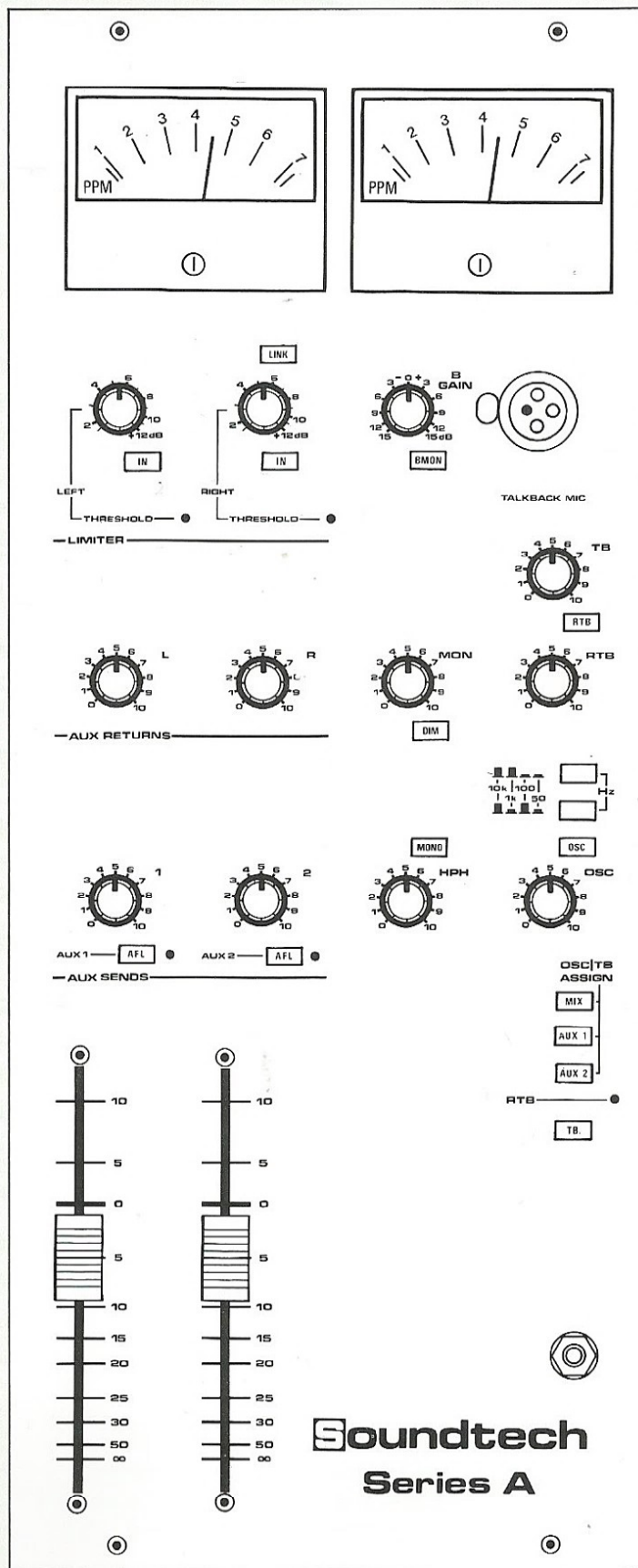
**CONNECTIONS:-**  
Lines inputs (balanced) 3 pin XLR  
RIAA inputs (unbalanced) RCA/Phono  
Remote control 2 pole 3.5mm JACK

exceptionally smooth action and long life. Many innovative facilities are included as standard. Stereo input modules feature built in domestic interface and phono pre-amplifiers, remote start is standard with an option of fader start. Mono input modules have switchable 48v phantom power and local monitor muting. The telephone input module

produces a mix-minus cleanfeed for connection to a telephone hybrid. The master output module is available with a choice of VU or PPM metering and features comprehensive monitoring, oscillator and talkback facilities. The dbx™ VCA based output limiters sound superb either as unobtrusive overload limiters or as effects processors and may

be linked for stereo. Soundtech™ Series A mixers are manufactured to exacting standards by Alice Soundtech Ltd in a modern purpose-built factory in Burgess Hill, England, and are now in use in over 20 countries worldwide. **TELEPHONE: 04446 48071**

### MASTER OUTPUT



**BROADCAST VERSION OUTPUT MODULE WITH UPRIGHT METERING AND WITHOUT MASTER FADERS AVAILABLE TO SPECIAL ORDER.**

**B.GAIN CONTROL**  
+/- 15dB level correction for non-standard B. monitor input levels, detented normal position.

**TALKBACK MIC**  
XLR connector for connection of gooseneck or similar microphone.

**B. MONITOR**  
Selects tape return or off-air receiver to monitor.

**TB**  
Gain control for talkback microphone.

**RTB**  
Enables return talkback to monitoring.

**RTB CONTROL**  
Sets level of incoming talkback.

**MONITOR CONTROL**  
Sets level sent to studio monitor system.

**DIM**  
Reduces monitoring level by 20dB.

**OSC**  
Selects four frequency line up oscillator.

**OSC CONTROL**  
Sets oscillator level.

**MONO**  
Allows stereo to mono compatibility to be checked.

**HPH CONTROL**  
Sets headphone level.

**OSC/TB ASSIGN**  
Routes talkback and oscillator to any combination of MIX, AUX1 or AUX2.

**RTB LED**  
Indicates incoming talkback (irrespective of RTB switch).

**TB**  
Talkback send switch.

**HEADPHONE SOCKET**  
Accepts stereo headphones in the range of 8 to 600ohms.

VU or PPM versions are available. Meters follow monitoring i.e. mixer output, B MON (Tape or off air return), PFL or AFL.

**LINK**  
Couples limiter for stereo operation without image shifting.

**LEFT AND RIGHT OUTPUT LIMITERS**  
Selectable VCA limiters with variable threshold from +2dB to +12dB. LEDs indicate onset of gain reduction.

**AUX RETURNS**  
Mixes effect returns into left and right mixer outputs.

**AUX SENDS**  
Master gain controls for auxiliary sends.

**AFL**  
Selects auxiliary sends to monitor.

**OUTPUT MASTER FADERS**  
Controls left and right output levels. Long throw 100mm faders with ultra smooth action and long life.

**CONNECTIONS:-**  
Main outputs (balanced) 3 pin XLR  
Auxiliary outputs (balanced) 3 pole 1/4" JACK  
Auxiliary returns (balanced) 3 pole 1/4" JACK  
Monitor output (unbalanced) 3 pole 1/4" JACK  
Red light control 2 pole 3.5mm JACK  
B monitor inputs (balanced) 3 pole 1/4" JACK  
Osc/talkback output (balanced) 3 pole 1/4" JACK  
Return talkback input (balanced) 3 pole 1/4" JACK  
Talkback control 3 pole 1/4" JACK



## SPECIFICATIONS

### FREQUENCY RESPONSE (20Hz - 20kHz)

Mic input at 40dB gain	+0dB -0.5dB
Line input at 0dB gain	+0dB -0.4dB

### DISTORTION (THD) typical

Mic input -40dBu to output +8dBu		
40Hz 0.013%	1kHz 0.013%	10kHz 0.05%
Stereo line input +8dBu to output +8dBu		
40Hz 0.012%	1kHz 0.012%	10kHz 0.05%

### NOISE (RMS 30Hz - 15KHz) typical

Mic input EIN ref 150ohms	-131.3dBu
Stereo line input 0dB gain	-90dBu (ref +8dBu)

### MAXIMUM GAIN

Mic input	80dB
Line input	44dB

### MAXIMUM INPUT LEVEL

Mic input	+5dBu
Mic input with PAD	+25dBu
Line input	+28dBu

### OUTPUT CAPABILITY

All outputs to balanced input	10k ohms +26dBu 600ohms +24dBu
-------------------------------	-----------------------------------

### IMPEDANCES

Microphone inputs	> 2k ohms Active balanced
Line inputs	> 20k ohms Active balanced
Phono inputs (RIAA equalised)	47k ohms Unbalanced
Main and auxiliary outputs	< 50 ohms Active balanced

All balanced inputs and outputs are self compensating, either terminal may be grounded for unbalanced operation.

### LIMITER

Ratio	> 100 : 1
Dynamics	Program controlled
Stereo tracking	Within 0.5dB over a 20dB range

### PHASE

Stereo phase matching	Within 1 degree (20Hz - 20kHz)
Note 0dBu = 0.775V rms	

In keeping with our policy of continuous development we reserve the right to change designs or specifications without prior notice.

