

In theatres or multi-purpose performance venues, the K1's built-in 4x4 output matrix allows multiple speaker systems to be configured with ease. Stereo inputs with four-band EQ may be used to interface DAT, CD or tape sources, and its compact frame fits neatly into the smallest control room.

The Snow Queen, Polka Theatre, London



A PROFESSIONAL PERFORMER

K1 is a rugged no-nonsense console for professionals. Designed to give reliable long-term performance, K1 combines uncompromising audio quality with professional features and flexibility. Whether the application is permanent or portable, conference or concert, K1 will make the difference between a good performance and a great performance, night after night.

With the introduction of K1, Soundcraft has re-defined the compact mixer. Drawing on a wealth of experience in the design of some of the world's best loved mixing consoles, the K1 combines the most modern analogue circuitry with robust construction and the 'classic' feel of a high-quality console.

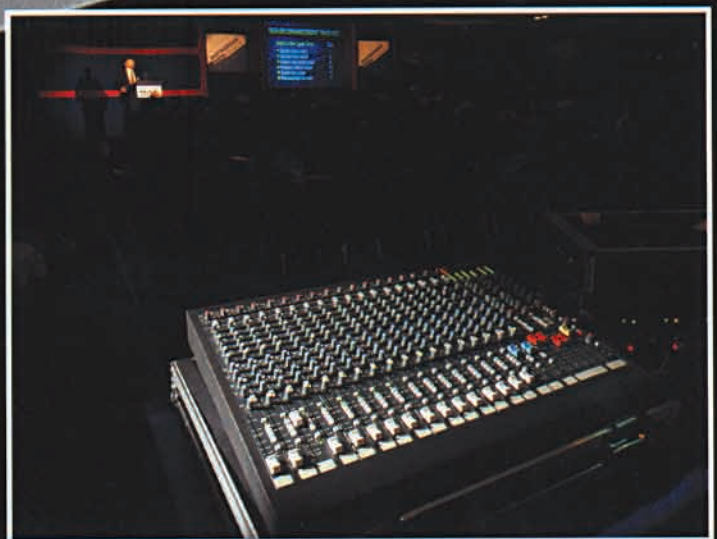
The K1 offers a choice of 8, 16, 24 or 32 mono or stereo inputs, with four sub-groups and six auxiliaries. Four-band EQ throughout, integral stereo returns and matrix complete this powerful mixing package.





Robust, all-steel construction and high-quality components make the KI ideal for mobile applications such as conferences, A-V presentations and live music. Comprehensive, natural-sounding EQ and a sophisticated auxiliary arrangement help the busy rental company to configure the KI instantly for a wide variety of work.

Leyland/DAF Dealer Conference 1994, Heathrow



K1 MONO INPUT MODULES



Soundcraft's high performance, wide-range input amplifier allows any mic or line level source to be connected either via the XLR connector or the 0.25" jack socket. The SENS control varies input sensitivity from -70dBu to +15dBu, in two ranges switched by the RNG switch. The +48 switch allows phantom power to be applied to each input. The \emptyset switch reverses the polarity of individual inputs.

The 4-band equaliser (enabled by the EQ switch) features shelving high and low frequency sections at 12kHz and 60Hz respectively, and two sweep mid bands covering 400Hz to 10kHz, and 60Hz to 1.5kHz, with a fixed Q of 0.9. The switchable 100Hz 12dB/octave high-pass filter eliminates unwanted low frequency content.

A pre-fade, pre-EQ insert point is available on a rear panel jack.

Up to six auxiliary busses can be accessed via the four Aux send controls, which can be switched pre or post fader in pairs using the PRE switches. Controls 3 and 4 may be switched to access busses 5 and 6. Internal links allow controls 2 or 4 to be routed permanently pre/post fade.

The signal is routed via the MIX, MNO, 1-2 and 3-4 switches to the stereo and mono mix and four group busses. The PAN control positions the signal in the stereo image between left and right and/or odd and even group busses. The illuminated ON switch and 100mm dirt-proof fader give overall signal control for each channel.

A post-fade direct output from the channel is available on the rear panel.

The illuminated PFL switch allows the channel to be soloed on the monitor and headphone outputs. The PFL LED doubles as a Peak indicator which illuminates 6dB below clipping. The green SIG LED illuminates when the pre fade signal exceeds -30dBu.

K1 STEREO INPUT MODULES



Two full stereo input channels are fitted as standard to the K1 master module.

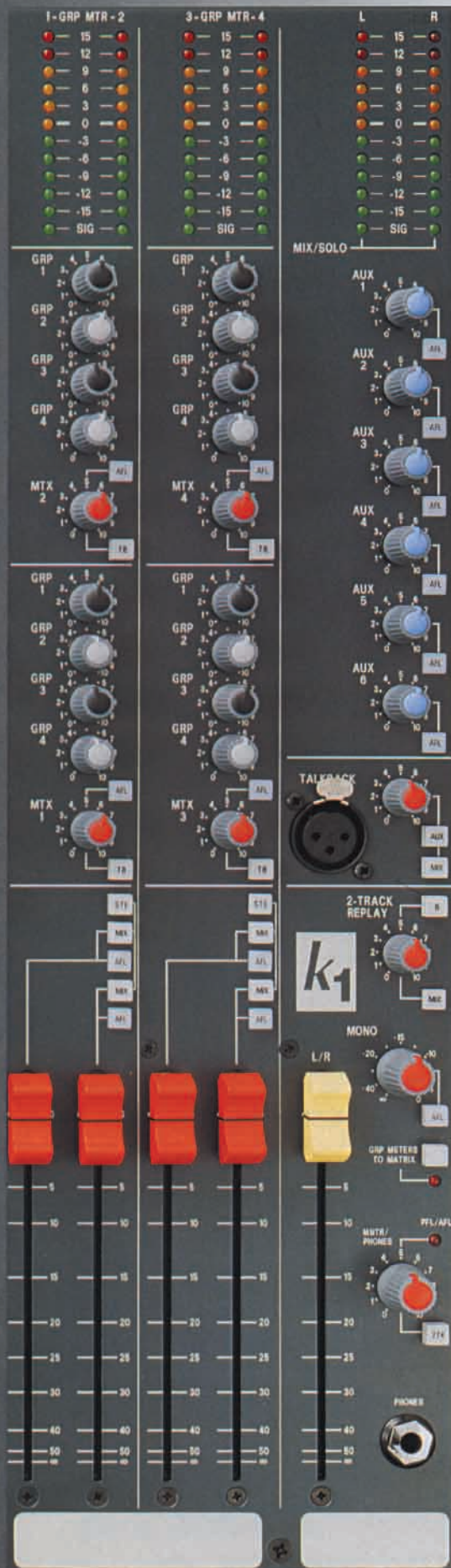
Additional stereo inputs may be fitted in blocks of four in place of mono inputs. Each stereo channel has two switchable (A, B) line-level inputs via 0.25" balanced jacks on the rear panel. The B input may be internally jumpered to offer RIAA equalisation for phono cartridges. The \emptyset switch reverses the polarity of the A or B left signal. The input sensitivity may be varied from -16dBu to +14dBu using the SENS control.

The four band stereo equaliser is enabled using the EQ switch, and allows 15dB of boost or cut at 60Hz, 250Hz, 5kHz and 12kHz. HF and LF bands have a shelving design; the two mid bands have a peak/dip response with a Q of 0.9. The independently switched 100Hz stereo high-pass filter has a slope of 12dB per octave.

All six auxiliary busses can be accessed by the four send pots in a similar manner to the mono input. The signal fed to Aux 1 and 2 is a mono sum of left and right. The signal to Aux 3 and 4 (or 5 or 6) is jumper selectable to be a mono sum, or left to Aux 3 or 5, right to Aux 4 or 6.

The signal is routed in stereo via the BAL control and stereo 100mm dirt-proof fader to the MIX, 1-2, 3-4 and MNO switches, which control signal routing to the busses. An illuminated ON switch controls the stereo channel muting.

The PFL switch allows the channel to be soloed, feeding a mono sum to the monitor outputs. The adjacent PFL LED also doubles as a Peak indicator which illuminates when left or right channels reach 6dB below clipping. The green SIG LED illuminates when the pre fade signal in either channel exceeds -30dBu.



K1 GROUP/MATRIX/MASTER MODULE

As well as the two full-function stereo input channels, this module houses the controls for groups, matrix, stereo and mono mix and auxiliary outputs.

The group outputs are controlled by four 100mm faders and appear on balanced XLR connectors on the rear panel. Illuminated AFL switches allow each group to be soloed; The MIX switch routes the group to the stereo bus. The STE switch allows pairs of groups to be routed in stereo to the master outputs (group 1 and 3 to left, group 2 and 4 to right). Pre fade insert points for each group are provided on the rear panel.

The matrix section is a highly versatile tool allowing various output mixes to be derived for different applications. Four balanced matrix outputs on 0.25" jacks are controlled by master level controls MTX 1-4. These may be soloed with their illuminated AFL switches and have talkback injected with the TB switches. Each matrix output is derived from a mix of the groups, controlled by the GRP 1-4 controls.

Four 12-segment peak-reading bargraph meters monitor the group or matrix output signals, switched globally by the 'group meters to matrix' switch.

The six auxiliary outputs are fed via Aux 1-6 master level controls to ground-compensated 0.25" jack sockets on the rear panel. Illuminated AFL buttons allow soloing for level-checking.

The talkback section feeds a microphone signal from the front-panel XLR to the Aux or Mix busses by pressing the associated switch, or to any of the four matrix outputs by pressing the TB buttons on the matrix section.

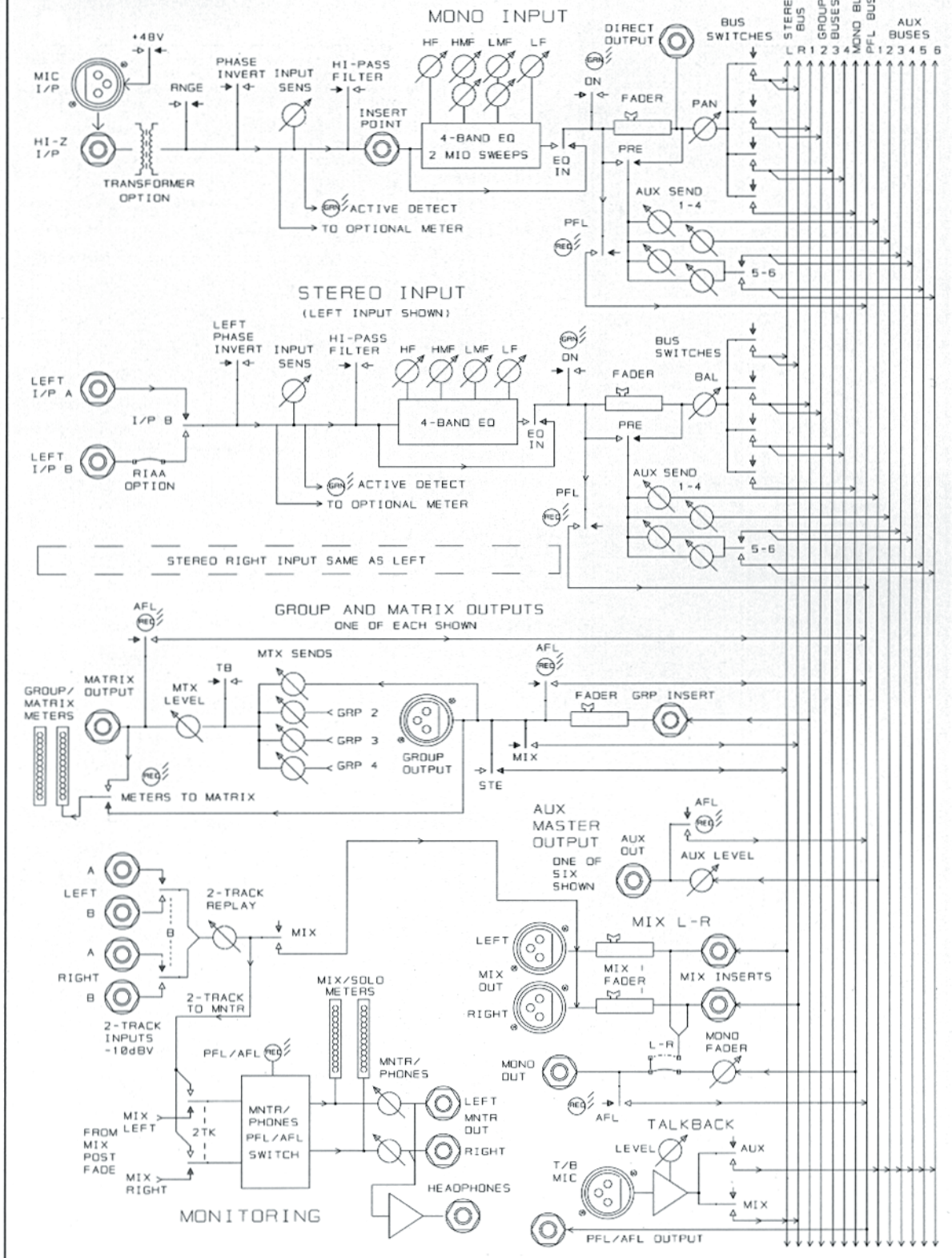
The 2-Track replay section receives one of two stereo inputs (A or B) from 0.25" jacks on the rear panel, via a rotary control. The MIX switch routes the signal to the stereo bus.

The Monitor section with its level control provides stereo monitor outputs to the front-panel phones socket which cut the signal to the rear panel ground-compensated monitor output jacks. The 2TK switch replaces the stereo bus signal with the selected 2-track input. PFL/AFL signals are automatically switched to override the normal signal when any channel is soloed; the PFL/AFL LED indicates their presence. The twin L/R 12-segment, peak-reading bargraph meters monitor the output of the monitor/phones section, including PFL/AFL and 2-track signals.

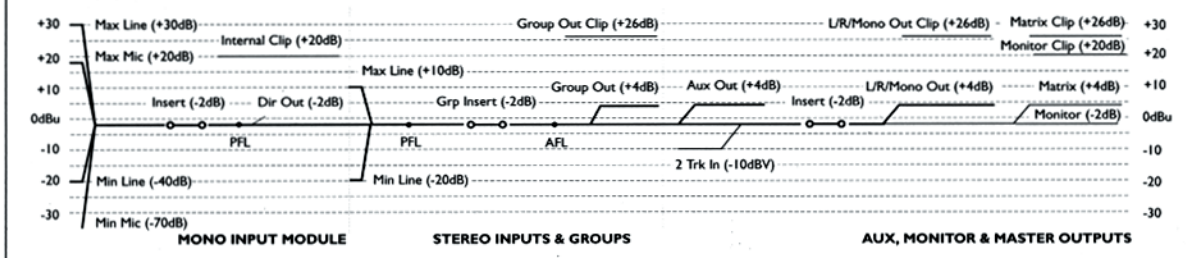
The main stereo bus output signal is controlled by the 100mm L/R fader. The signal is fed to balanced XLRs on the rear panel, and pre fade insert points are provided on 0.25" jacks. The mono bus output is controlled by the rotary Mono fader and fed to a balanced rear-panel 0.25" jack output; monitoring is possible using the AFL switch. The mono output may be internally jumpered to become a mono sum of the main stereo outputs.

A ground-compensated PFL/AFL output is provided on a rear-panel jack, for cue speaker or other monitoring purposes.

KI BLOCK DIAGRAM



KI NOMINAL LEVEL DIAGRAM



KI CONFIGURATION AND DIMENSIONS



32ch RW5256

24ch RW5187

16ch RW5186

8ch RW5184

*Please note the master section is in the centre on 32ch

KI REAR CONNECTOR PANEL



8ch RW5184

16ch RW5186

24ch RW5187

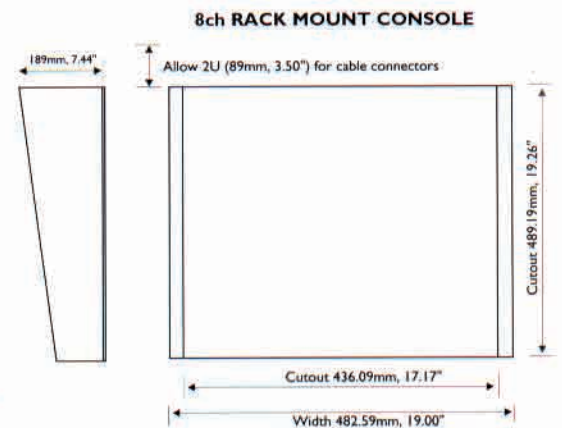
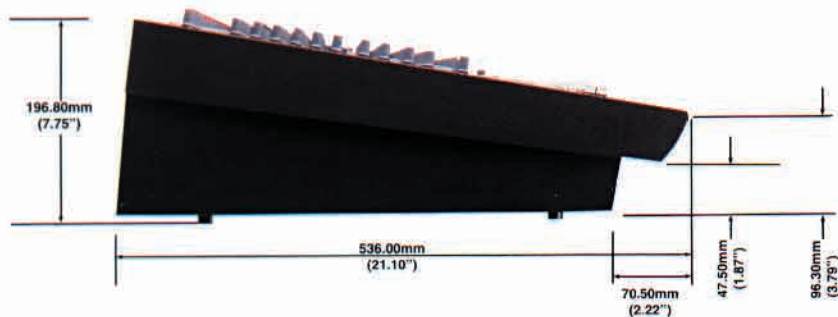
32ch RW5256

*Please note the master section is in the centre on 32ch



CONSOLE	WEIGHT
8ch/8chRM	13.4kg (29.5lbs)
16ch	19.2kg (42.2lbs)
24ch	25.0kg (55.0lbs)
32ch	30.8kg (67.76lbs)

WEIGHT EXCLUDES PACKING AND POWER SUPPLY



KI TYPICAL SPECIFICATIONS

Frequency Response	Any input to any output	20Hz - 20kHz, +0/-0.5dB
Total Harmonic Distortion	(All measurements at +20dBu) Line In to Group or Mix out	Less than 0.004% @ 1kHz Less than 0.02% @ 10kHz
Noise	(22Hz-22kHz bandwidth, unweighted) Mic Input Equivalent Input Noise (150Ω source) Mix Noise (16ch routed)	Less than -128.5dBu Less than -84 dB
Crosstalk	Mix to Group Output	Less than -90dB @ 1kHz
Input and Output Impedances	Mic Inputs (XLR) Hi-Z and Stereo Inputs (0.25" jack) Insert Points Aux Outputs Group, Mix and Matrix Outputs	1.5kΩ balanced Greater than 10kΩ balanced 75Ω/10kΩ unbalanced 75Ω gnd comp 75Ω balanced
Input and Output Levels	Mic Input Sensitivity (XLR) Line Input Sensitivity (0.25" jack) Insert Send/Return Aux Outputs Group, Mix and Matrix Outputs PFL Output	-12dBu to -70dBu, +15dBu to -40dBu +15dBu to -40dBu -2dBu nominal +4dBu nominal +4dBu for 0VU -2dBu

KI CONFIGURATION INFORMATION

KI 8 channel console fitted with 8 mono inputs + 2 stereos			RW5184
KI 8 channel console as above for 19" rack mounting			RW5185
KI 16 channel console fitted with 16 mono inputs + 2 stereos (Above consoles supplied with DCP125 external mains PSU)			RW 8005
KI 24 channel console fitted with 24 mono inputs + 2 stereos (supplied with DCP200 external mains PSU)			RW 8006
KI 32 channel console fitted with 32 mono inputs + 2 stereos (supplied with DCP200 external mains PSU)			RW 8006
KI 4 way Mono Input Module	RS4700/RSS700	Spares Kit	RZ2389
KI 4 way Stereo Input Module*	RS4716/RSS716	Spare User Manual	ZM0088
KI 4 way Blank Module	PH1246	Technical Manual	ZM0089
Spare DCP125 PSU	RW8005	KI 8 channel flightcase	PL1197
Rackmount kit for above	RW5050	KI 16 channel flightcase	PL1198
Spare DCP200 PSU	RW8006	KI 24 channel flightcase	PL1199
Rackmount kit for above	RW1255	KI 32 channel flightcase	PL1200
		(flightcases accommodate console and PSU)	

*Please check PSU requirement before ordering

KI CONNECTOR WIRING CONNECTIONS

Balanced XLR Inputs	I: Screen	2: + Signal	3: - Signal
Balanced XLR Outputs	I: Screen	2: + Signal	3: - Signal
Gnd Compensated Jack Outputs	T: Signal	R: Gnd Sense	S: Screen
Unbalanced Jack Outputs	T: Signal	R: Screen	S: Screen
Unbalanced Jack Insert Points	T: Return Signal	R: Send Signal	S: Screen



Soundcraft reserve the right to improve or otherwise alter any information supplied in this document or any other documentation supplied hereafter.
E&OE 0397

This equipment complies with the EMC Directive 89/336/EEC



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Part no: A4; ZL0221
US; ZL0222