SOUNDCRAFT Vi Series™ FEATURES AND SPECIFICATIONS

AUDIO CHANNELS

Max number of simultaneous mixing channels

Soundcraft Vi6™ : 96 mono inputs into 35 Outputs. Pairs of mono inputs can be linked to create stereo channels.
Soundcraft Vi4™ : 96 mono inputs into 35 Outputs. Pairs of mono inputs can be linked to create stereo channels.
Soundcraft Vi2™ : 96 mono inputs into 35 Outputs. Pairs of mono inputs can be linked to create stereo channels.

Insert points

24 insert send/return pairs can be configured (using available I/O) and assigned to any of the 96 inputs or 35 output channels

Direct Outputs

All input channels can have direct outputs in addition to their internal bus routing, assuming sufficient I/O is available (eg via 64ch optical MADI card, see below)

Busses

32 Grp/Aux/Matrix*, plus main LCR Mix and LR Solo busses.
* a maximum of 16 matrix outputs can be configured.

I/O CAPABILITY

The following I/O is available and can be patched to any channel input, direct output, bus output or insert point as required:

Local Rack Inputs

16 analogue line inputs
3 analogue mic/line inputs
1 Talkback Mic input (mounted on control surface – 2 parallel sockets front/rear)
8 pairs of AES/EBU inputs (=16 channels)
64ch MADI In via optical SC connectors

Local Rack Outputs

16 analogue line outputs
8 pairs of AES/EBU outputs (= 16 channels)
LCR Local monitor A analogue line outputs
LR Local Monitor B analogue line outputs
TB line output
64ch MADI Out via optical SC connectors

Stagebox Inputs
64 analogue mic/line inputs (with remote gain control, PAD, 48V and pre-A-D 80Hz HPF). This assumes Vi4 has been specified with 64 inputs on stagebox.

Stagebox Outputs
32 analogue line outputs

MISCELLANEOUS

Connection from local rack to stagebox
Standard fit: Cat 5e Neutrik Etherflex cable ZNK CT2672601.
Optional: Fibre Optical interface card with 150 or 200m cable (additional cost).

Max distance, local rack to stagebox:
80m using flexible reel-mounted Cat5 cable (Neutrik Etherflex only).
130m using Cat7 permanent installation cable (Amp Netconnect 600MHz PiMF, part no. 57893-x).
1500m using a single run of multimode 50/125 optical fibre.
600m using 3 X 200m reels of multimode 50/125 optical fibre joined in series.

GPIO facility
16 GPIO inputs and outputs on the local rack
8 GPIO inputs and outputs on the stagebox (All outputs are relay contact closure)

MIDI
1 MIDI Input and 2 MIDI Outputs on rear of control surface.

CHANNEL PROCESSING

Inputs
Analogue gain (remote control of stagebox or local mic preamp)
Digital Gain Trim (+18/-36dB)
Delay (0-100ms)
HPF, LPF (variable 20-600Hz and 1-20kHz)
4-band fully parametric EQ, shelf mode on HF/LF.
Compressor (variable threshold, attack, release, ratio, makeup gain with ‘auto’ mode)
Limiter (variable threshold, attack, release)
Gate or De-Esser. Gate switchable to ducker.
Insert point for external processing.
Pan – LR or LCR switchable.
Direct Output, patchable to any I/O and with selectable tap-off point.

Ouputs
HPF (variable 20-600Hz)
4-band fully parametric EQ, shelf mode on HF/LF.
Compressor, Limiter
Delay (0-1sec)
Insert point for external processing.
Pan (Output bus to LCR) – LR or LCR switchable.
Bus Feed feature – allows switched routing of one bus to another.

Graphic EQ 1/3-octave (with FX Card)
Assignable Lexicon Multi-FX processors x8 (with FX Card)

CONTROL SURFACE

Inputs

Soundcraft Vi6™ 32 input faders, switchable in 3 fixed layers to access 96 inputs.
Soundcraft Vi4™ 24 input faders, switchable in 3 fixed layers and meter screens to access up to 96 inputs.
Soundcraft Vi2™ 8 input faders, switchable in 3 fixed layers and meter screens to access 96 inputs.

Vistonics II channel strip interface, each Vistonics controls 8 input channels.
The Vistonics II interface contains 16 real knobs and switches and a touch screen.

Fader tray contains motorised fader, Mute, Solo, Isolate and F (user defined) switches, plus one assignable rotary encoder with LED ring. This encoder is globally assignable to Gain, Pan, Gate Threshold, or one of 2 user-definable parameters.

Input level and gain reduction meter is located above each fader.

Input faders can be assigned to the 16 VCA (control group) masters and/or 4 Mute Groups.

Input faders can be switched to control all 32 Grp/Aux/Matrix Outputs, or can control an individual Aux send mix, using the switchable 'Follow Solo' function. Soundcraft Fader Glow™ clearly indicates using colours when faders are not controlling inputs.

Outputs

8 assignable Output faders, plus 2 dedicated LR and C Master faders, plus 16 assignable rotary Output faders. Output faders are colour-coded using Soundcraft Fader Glow.

Output faders can be assigned to the 16 VCA (control group) masters and/or 4 Mute Groups.

Single Vistonics II interface for Output processing control, also functions as complete meter overview display for all Inputs & Outputs, plus snapshot Cue List and diagnostics info display.

Misc

Gang mode for temporary linking of any number of channels for quick adjustment and setup
Controls for Mute Group and VCA Group assignment.
Controls for assignment of Vistonics rows to bus sends (when channel parameters are not selected to Vistonics).
Snapshot automation controls
Talkback & Oscillator controls
Controls for Monitor Output level, phones level and Solo Trim and blend level.

Vi Series TYPICAL SPECIFICATIONS

Frequency Response	
Stagebox Mic input to Line output	+0/-1dB, 20Hz-20kHz
AES/EBU In to AES/EBU Out	+0/-0.2dB, 20Hz-20kHz
T.H.D. & Noise	
22Hz-22kHz	
Stagebox Mic In (min gain) to Local Line Out	<0.003% @ 1kHz
Stagebox Mic In (min gain) to Local Line Out	<0.020% @ 1kHz
Local Line In to Line Out	<0.003% @ 1kHz
Mic Input E.I.N.	<-126dBu (150W source)
22Hz-22kHz bandwidth, unweighted	
Residual Noise	-95dBu
Stagebox line output; no inputs routed, Mix fader @0dB	
CMRR	80dB @ 1kHz
Stagebox Mic input	
Sampling Frequency	44.1kHz, 48kHz
Latency	
Stagebox Mic Input to Local Line output	< 2ms @48kHz
AES/EBU Input Sample Rate	32–108kHz (with SRC enabled)
DSP resolution	40-bit floating point
Internal clock	
Accuracy	< +/-50ppm
Jitter	< +/-5ns
External Sync	BNC Wordclock, AES/EBU sync in, Video sync in
Input & Output Levels	
Mic Inputs	+28dBu max
Line Inputs	+18dBu max
Line Outputs	+18dBu max
Nominal Operating Level	0dBu (-18dBFS)
Input & Output Impedances	
Mic Inputs	2k7Ω
All other analogue Inputs	>10kΩ
Line Ouptuts	<75Ω
AES/EBU Outputs	110Ω
Oscillator	20Hz to 20kHz/Pink/White Noise, variable level

Stagebox HP Filter	80Hz fixed, 12dB per octave
Channel HP filter	20Hz-600Hz, 18dB per octave
Channel LP filter	1kHz-20kHz, 18dB per octave
EQ (Inputs and bus Outputs)	HF: 20Hz-20kHz, +/-18dB, Q= 0.3-8.7 or shelving Hi-Mid: 20Hz-20kHz, +/-18dB, Q=0.3-8.7 Lo-Mid: 20Hz-20kHz, +/-18dB, Q=0.3-8.7 LF: 20Hz-20kHz, +/-18dB, Q= 0.3-8.7or shelving
Metering	Internal 20-segment LED bargraphs plus 9-segment gain reduction meters for all inputs and Outputs. Peak hold variable from 0-2s.
Mains Voltage operating range	90-264V, 47-63Hz, autoranging
Mains Power Consumption	
Control Surface:	155W (165W redundant option)
Local Rack:	140W (150W redundant option)
Stagebox:	140W (150W redundant option)
Weights (without flightcases)	
Control Surface (Vi6)	63kg (140lb)
Control Surface (Vi4)	53kg (117lb)
Control Surface (Vi2)	26kg (57lb)
Local Rack	25kg (55lb)
Stagebox	16kg (35lb)
Operating Temperature Range	0°C - 45°C (32°F - 113°F)
Relative Humidity	0% - 90%, non-condensing T_a = 40°C (104°F)
Storage Temperature Range	-20°C - 60°C (-4°F - 140°F)

Soundcraft reserves the right to make changes to the above data without prior notice. E&OE.