SOUNDCAST 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.

Outputs
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.
22Hz-22kHz bandwidth, unweighted <-126dBu (150W source)

Residual Noise
Stagebox line output; no inputs routed, Mix fader @0dB -95dBu

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