Direct access to all functions with maximum information and visibility at all times.

A unique integration of touch screens and encoders eliminating complex and fatiguing mental mapping.

A compact operating surface with a perfectly optimised control density.

A pristine audio path with highly acclaimed mic preamplifiers gives possibly the cleanest sound of any digital console available today.

The time has come to forget the console and focus on the creativity.

The time has come for Soundcraft Vi Series™ digital live sound consoles.
With more than 30 years in the business, no-one knows more about live sound mixing than Soundcraft. In our opinion, there’s simply no point in presenting the live sound engineer with the undeniable power and flexibility of digital audio technology if all that power is locked away in an ill-conceived and inaccessible mixer that confuses the operator and impedes workflow. That’s why our digital live sound consoles put the engineer at the heart of the process, just like our analogue mixers do. The product of a development team that combines unrivalled Soundcraft live sound know-how with the impressive digital audio expertise of our sister company Studer, the Soundcraft Vi6™, Vi4™ and Vi2™ are third-generation digital live sound consoles which abandon the layering and central assignability concepts of other designs in favour of a system that’s altogether more intuitive.

Say goodbye to the learning curve. Say hello to Soundcraft Vi Series™ digital live sound consoles.

The Soundcraft Vi system consists of three elements: the compact, space-saving control surface, the local rack containing the SCore Live processing engine and a stagebox which connects conveniently to the local rack via Cat5 or Cat7 cable, with fibre optic interfacing available as an option.

Up to 5 stageboxes can be connected to create a digital patchbay from which the engineer can select available inputs. All input channels can have direct outputs in addition to their internal routing to 32 Group/Aux/Matrix busses, and the main LCR and LR busses.

Pristine sound quality is assured by a combination of Soundcraft ultra-low noise mic amp designs and Studer advanced 40-bit floating point digital audio processing.

And complete security is assured by diagnostics of the separate control surface, local rack and stagebox power supplies from the mixing position, with the facility to add second redundant supplies to each.

With a competitive price tag and compatibility with the groundbreaking Harman HiQnet™ communications protocol, the Soundcraft Vi2, Vi4 and Vi6 are the flagship consoles in what is fast becoming a full range of high performance Soundcraft digital live sound mixers.
At the heart of the Soundcraft Vi control surface lies the patented Vistonics™ II system. Obituating the ergonomic limitations of arranging controls around or adjacent to a flat TFT screen, Vistonics II builds the rotary encoders and switches right onto the touch screen. With the visual information and operational controls combined in one area, the burden of complex mental mapping is removed from the operator, streamlining workflow and enhancing the creative process.

Each Vistonics II interface controls eight input channels, and comprises a touch screen with 16 rotary encoders and 16 switches.

A simple touch of the screen is all it takes to access channel functions including routing, input gain, digital gain trim, delay, high and low pass filters, 4-band fully parametric EQ, compressor, limiter, gate, de-esser and pan, with immediate access to a sophisticated visual status display and straightforward controls.

In addition, a dedicated Vistonics II interface is provided for output processing control, and also functions as a complete meter overview display for all inputs and outputs, as a snapshot cue list display, and as a display for diagnostics information.
Vistonics™ II and FaderGlow™ are just part of what makes Vi Series™ digital consoles such intuitive and creative tools. By optimising the density of faders and controls on the operating surface, the engineer is able to reach all critical areas of the console comfortably from a central point, without straining or leaning over.

The angle of the touch screens has been carefully chosen to ensure that the engineer can always view display data clearly during the show. The brightness and contrast of the displays, and the illumination of the control surface itself, are designed to minimise strain on the eye.

User-configurable fader layers allow an engineer to map out his own channels on any of 3 user layers so that a combination of different inputs can be placed on one layer. This allows, for example, the main vocalist mics to be programmed to appear in the same location on every layer, or other essential channels to be brought closer to a central operating position. And the 5 main output fader layers can also be customised so, for example, that 8 stereo aux masters can be used on one layer for instant access to multiple in-ear sends.

As you can see, the integration of mechanical and operational design has Soundcraft created a digital live sound console that truly enhances the operator experience, resulting in an unimpeded workflow and a more creative mix.
The key to the intuitive operation of the Soundcraft Vi consoles is the Vistonics™ II channel strip display that functions both as a permanent overview of all the current settings for 8 channels per screen, and as the access point for immediate hands-on control of any of those settings. Simply touching the screen in one of the six vertically stacked touch zones immediately opens out that part of the strip onto the 16 real knobs and switches mounted directly on the lower part of the display, allowing immediate, tactile, analogue-style control. The colour-coded context-sensitive graphics around the knobs make it abundantly clear which type of function is being adjusted, and a clear white highlight is a constant reminder of which channel is being controlled. Touching the screen again is all it takes to move to another area of the channel strip, or to close down the control area.

HiQ net™ integration allows the simple creation of Cue Lists from console snapshots, MIDI events and HiQ net Venue Recall commands, which can be used to trigger changes in amplifier levels, loudspeaker processing EQ and routing across an entire HiQ net system. Compatibility with the HiQ net protocol also enables the console to receive and display system diagnostic messages from other devices on the HiQ net network.

Virtual Vi editing software can be downloaded at soundcraftdigital.com
Engineers can set up shows offline on a PC, and load them into the console via a USB memory drive.
Vi Series consoles are packed with powerful automation features which place the operator in total control of the show.

A sophisticated Cue List Management allows changes to be applied to multiple cues and recall scope to be set per snapshot.

Sophisticated cue list management allows changes to be applied to multiple cues and recall scope to be set per snapshot.

Snapshots can use crossfades to smoothly transition from one setting to the next.

Software control. Rapid configuration and powerful automation.

Select from a library of settings.

Along with a useful library of EQ and Dynamics settings, operators can store their own settings in the console or to a USB memory stick, making initial set up and transition between shows even easier.

The acclaimed Soundcraft Vi Series operating system is designed to dramatically reduce set up time and protect every critical setting in the event of power failure. The Copy/Paste function allows the settings of any channel, bus or FX section to be copied and pasted, dramatically cutting down the set up time.

The last paste operation can be quickly reversed with an UNDO function. Blocks or individual parameters within a channel are selected for copying via touch screen selection on the same intuitive Vistonics™ II screens that are used for audio control functions. Advanced Library functionality allows a user to select any set of parameters in use on the desk, for example a single channel EQ setting or a group of channels set up for a drum kit, to be stored in the internal library and recalled at will. These libraries can be exported to, or imported from, a USB memory stick, allowing users to build up their own portable channel and processing libraries that can easily be transferred to any Vi console they have to work on. This is done independently of the Show Files which already allow entire desk settings to be exported. Within the software are a number of useful libraries of EQ and Dynamics settings to suit common applications.

Vi Series consoles are packed with powerful automation features which place the operator in total control of the show.

In the event of mains power to the surface being interrupted during a show, the auto-backup system ensures that the last settings of the desk will be retained and restored automatically when power is restored, meaning no changes to the audio - or the set up.

Theatre users will welcome sophisticated snapshot filtering. In addition to a conventional Isolate function where a channel may be isolated from snapshot recall, it’s also possible to apply high-granularity recall filtering both globally and on each snapshot, right down to parameter level – for example, a Pan setting or an individual Aux send.

Also important in theatre applications is the facility for snapshot recalls to use crossfades to smoothly transition from one setting to the next. A snapshot preview mode allows the engineer to check in advance what settings are about to be recalled, and also allows editing of other cues without affecting the audio.
The Soundcraft Vi Series™ Processor Card adds world-renowned Lexicon and BSS processing to the Soundcraft Vi digital mixing platform. The single, high-powered card provides on-board BSS third-octave Graphic Equalisation to every bus output, in addition to 8 independent stereo Lexicon multi-effects units – each providing 14 reverbs, 7 delays and 8 pitch shifting effects, patchable to input channels, aux outputs and channel inserts.

The Vistonics™ II interface provides the perfect vehicle for displaying and editing effects parameters. Controlling the Graphic EQ is similarly straightforward. Simply bringing up the output channel strip and touching the Graphic EQ button immediately assigns the first 30 faders on the console to Graphic EQ, with the Soundcraft FaderGlow™ changing to red, indicating that the console is no longer in channel fader mode. Alternatively, all 30 bands can be ‘condensed’ onto 8 faders, to save opening space and allow access to input channels while working on output EQ. The original ‘full width’ GEQ mode is still available if required. The cut or boost values of the GEQ bands are also displayed above each fader as they are adjusted.

The Vistonics™ II interface provides the perfect vehicle for displaying and editing effects parameters. With the Soundcraft Vi Series Processor card, the most intuitive digital live sound mixer in the world gains some of the most powerful processing in the business. No wonder engineers are claiming this is probably the only console they would consider using without any additional outboard processing equipment.

Another important feature is that the Master output graphic and parametric equalisers can be linked for easier LR or LCR EQ adjustments, whilst on stereo input channels, the Pan and Gain controls are individually adjustable on left and right.
Radio mic status monitoring, directly from the console.

You know what it’s like. The radio mics check out fine on the RF Tech’s laptop, but that’s before the talent walks onto the stage. Reception black spots, drained batteries, accidental mutes — anything can happen once the show gets underway. Thankfully, Soundcraft and AKG are here to make the FOH engineer’s life easier. Now you can monitor the status of any HiQ net-compatible AKG radio mic directly from the Soundcraft Vi Series console surface, courtesy of VM2 (Vistonics Microphone Monitoring). With real-time visual displays of battery life, RF status, mic muting and internal clipping, you’ll be able to see a problem long before you hear it, right there on the relevant channel strip — with expanded information instantly available just by touching the Vistonics™ screen.

And system configuration couldn’t be more straightforward — simply plug in the mics, associate them to the related console channels, and you’re done. You can even identify the relevant mic receiver in the rack by pressing the Locate button, causing the receiver front panel display to flash. It all adds up to much more efficient workflow and one less thing for the hard-pressed engineer to worry about.

VM2 is available on all Soundcraft Vi Series consoles in V4.5 software, including Vi1, Vi2, Vi4 and Vi6. Compatible AKG Wireless mic systems are WMS 4000, WMS 4500 and DM 700 (optional WMR 4000Q HiQnet Ethernet interface required).
Communicating with the outside world.
A series of optional interface cards, designed to fit either the local rack or stagebox, enable Vi Series™ consoles to directly interface with a wide range of other systems and audio networks using industry standard protocols.

Using a MADI connection on the Vi Series local and stage racks, the Optocore DD2FR-FX interface allows not only the connection of up to 128 channels of audio onto the Optocore network, but also the Vi Series is able to remotely control the microphone preamplifiers in either its own stagebox or the Optocore LX4AP stagebox, giving an additional degree of flexibility and allowing multiple consoles and stageboxes to be interconnected with full redundancy.

**Optocore DD2FR-FX network interface**

**MADI**

In addition to the optional card choices, an optical MADI interface is fitted as standard, allowing direct connection to a Pro Tools HD™ recording system via a third party converter box or any MADI compatible device (eg SSL XLogic Delta-Link).

Along with the ADAT card, the MADI card offers a simple recording solution for the Vi Series. Additional MADI cards may be fitted by exchanging with other I/O cards, in order to connect additional stageboxes or other MADI equipment.

**ADAT**

The ADAT card provides two optical eight-channel ADAT inputs and outputs, with selectable 44.1/48/96 kHz operation. Optical inputs and outputs are provided on Toslink connectors and can be used to record to, for example, an Axia HD-24 hard disk recorder or other device with ADAT inputs and outputs, and receive playback audio. In 96kHz operation, the number of channels is limited to eight, i.e. four per I/O.

**DOLBY E**

The Dolby E card decodes the audio channels from a Dolby E on Dolby Digital stream and allows them to be patched into separate inputs on the console for mixing. Each card provides two full decoder sections, and can dramatically save external hardware cost, space and weight.

**SDI**

The SDI card can de-embed up to 16 audio channels from an SDI (Serial Digital Interface) stream, and re-embed them back on to the stream for onward transmission in a broadcast environment, saving high costs of external units and, of course, weight. These channels may be patched in to any input as usual.

**AES/EBU**

Each stagebox analogue input card (8 inputs) can be replaced by an optional AES/EBU input card which holds 4 pairs of AES/EBU inputs, with built-in Sample Rate Converters.

Similarly, each analogue output card (8 outputs) can be replaced by an optional AES/EBU output card which holds 4 pairs of AES/EBU outputs.

**AES/EBU OUT**

Each stagebox analogue input card (8 inputs) can be replaced by an optional AES/EBU input card which holds 4 pairs of AES/EBU inputs, with built-in Sample Rate Converters.

Similarly, each analogue output card (8 outputs) can be replaced by an optional AES/EBU output card which holds 4 pairs of AES/EBU outputs.
Cat5 or Cat7 cables with Amphenol RJ45 connectors provide a convenient, highly robust connection between the Soundcraft Vi Series™ stageboxes and local rack.

Flexible, reel-mounted Cat5 cabling enables the mixing position to be located up to 100 metres from the stage, while Cat7 increases that distance by 30 metres in fixed installations. And in larger venues and installations, an optional Fibre Optic interface allows a run of up to 1.5 kilometres between the stagebox and the local rack.

A comprehensive provision of inputs and outputs can be patched to any channel input, direct output, bus output or insert point as required.

The standard Vi stagebox houses 64 analogue mic/line inputs and 32 analogue line outputs, with 48V phantom power and a 100Hz HPF before the A-D converters. Mic amp gain can be controlled remotely from the control surface. Optional AES/EBU inputs and outputs are available for the stagebox in sections of 8.

The local rack has 16 analogue line inputs, 3 analogue mic/line inputs, a talkback mic input (mounted on the control surface) and 8 pairs of AES/EBU inputs. Outputs include 16 analogue line, 8 pairs of AES/EBU, 3 LCR local monitor A line, 2 LR local monitor B line and TB line.

Up to 5 stageboxes can be connected to create a digital patchbay, where the operator can select the 64 or 96 inputs to the console from a selection of inputs available on any of the connected stageboxes.

64 channel MADI I/O via optical SC connectors is fitted as standard and can be replaced by optional CobraNet™ or Soundcraft A-NET 16V cards.

The Compact Stagebox adds a cost-effective expansion option to all Vi Series consoles, offering a high density of I/O connections in only 4U of rack space. The modular unit is fully configurable but is offered with a standard configuration of 32 mic/line inputs, 8 line outputs, 8 channels of AES/EBU outputs and 2 expansion slots for standard Studer D21m I/O cards. The D21m is the I/O architecture for Studer as well as Soundcraft digital mixing systems and allows connection to most popular digital formats including CobraNet®, AVON A-NET®16, Ethersound, ADAT and RockNet. A MADI recording interface can also be fitted to the expansion slots.

It is possible to equip the Compact Stagebox with an additional 16 mic/line input XLR module instead of the output module, providing 48 inputs. In this case, analogue or AES outputs could still be obtained on D-Type connectors via D21m cards fitted to the expansion slots.

The Compact Stagebox is ideal for existing owners of Vi Series consoles as a cost-effective method of expanding the input capability by expanding to up to 96 mic/line analogue inputs from remote stageboxes.

All Soundcraft stageboxes are compatible with Soundcraft Si Series and Si Compact consoles, and with the Studer Vista 5 SR console, allowing owners of multiple consoles to maximise use of inventory.

The unit comes complete with twin redundant power supplies, thermally-controlled fan cooling and full LED status monitoring. An 8ch GPO interface is also provided.

The Compact Stagebox is connected to the host console using either Cat-5 or Optical-fibre MADI, the same way as the larger 64 Mic/line Vi6 Stagebox is hooked up, and shares the same redundant MADI cable capability. Cat5 Version: E947.350000 Optical version: E947.351000.
System hardware diagram.

Multiple stageboxes.

**Stagebox**
- 64 Analogue Mic/Line Inputs
- Optional card with 4 pairs of AES/EBU inputs (replaces 8 Mic/Line inputs)

**Local Rack**
- 16 Analogue Line Inputs
- See card options on page 8: 3 (LCR) local
- 16 Analogue Line Outputs
- 8 GPIO Contact Closures
- 8 pairs of AES/EBU Outputs
- Optional card with 4 pairs of AES/EBU outputs (replaces 8 Analogue Line Outputs)
- Talkback Line Output
- 16 GPIO Contact Closures

**Console Surface**
- 35 Analogue Line Outputs
- 8 GPIO Contact Closures
- CatS Data Link
- Phones & TB Audio

**Console Surface**
- Vi consoles support up to 5 stageboxes. This means that a digital patchbay can be created, where the engineer can select the 64/96 inputs to a Vi6/Vi2 (or 48/72 on a Vi4) from a selection of inputs available on any of the connected stageboxes. So, for example, with two stageboxes connected there are 128 inputs to select from, with three there would be 172, and so on, up to a limit of 192 channels, which is the combined maximum of local plus stagebox inputs.

**Cable specifications**

**Cat5e:**
- Maximum 100m (330 feet) using Evolution XPC Heavy Duty Tactical CAT5e, terminated with Amphenol RJF connectors.
- Suitable 100m cable mounted on a lightweight drum is available from Soundcraft, part number RZ2746.
- These cables are not included with the standard console and must be ordered separately.

**Cat7:**
- Maximum 130m (422 feet) using AMP Netconnect 57893 PMF cable.
- Note: This cable is solid core and only suitable for fixed installations, not for touring use.

**Optical Multimode Fibre:**
- Maximum distance 1500m (4875 feet) using continuous run of 50/125 multimode fibre, terminated with Fibrecast™ expanded beam connectors.
- Suitable cable is available from Soundcraft on a lightweight drum in the following lengths:
  - 5m RZ2709
  - 50m RZ2714
  - 150m RZ2702
  - 200m RZ2701
- Note: One of the above cables must be ordered if the optical stagebox link is requested.

**Single Mode Fibre:**
- Maximum distance 10km
- Note: Special Optical MADI card is required, please contact Soundcraft for delivery time.
Flightcases. Soundcraft Vi6 shown.

Weight when cased:
- Control Surface, Soundcraft Vi6: 167kg/367lbs
- Control Surface, Soundcraft Vi4: 133kg/292lbs
- Control Surface, Soundcraft Vi2: 81kg/180lbs
- Local Rack/Stagebox: 50kg/110lbs

Control Surface Dimensions:

Soundcraft Vi2
- Dimensions: 467mm/18.4" x 144mm/5.64" x 28mm/1.1"
- Part No.: BH10.947401

Soundcraft Vi4
- Dimensions: 467mm/18.4" x 144mm/5.64" x 28mm/1.1"
- Part No.: BH10.947400

Soundcraft Vi6
- Dimensions: 467mm/18.4" x 144mm/5.64" x 28mm/1.1"
- Part No.: BH10.947405

Soundcraft Vi2/Vi4/Vi6
- Dimensions: 467mm/18.4" x 144mm/5.64" x 28mm/1.1"
- Part No.: BH10.947402

An optional Script Tray is available for use on the Vi2, Vi4 and Vi6 control surface. Part No. A947.006000
Technical Specifications.

FREQUENCY RESPONSE
Stagebox Mic input to Line output .......................... 20Hz to 20kHz
AES/EBU In to AES/EBU Out .......................... 0/–1dB, 20Hz–20kHz
T.H.D. & NOISE
Stagebox Mic In (min gain) to Local Line Out, 22Hz–22kHz .......................... <0.003% @ 1kHz
Stagebox Mic In (max gain) to Local Line Out, 22Hz–22kHz .......................... <0.012% @ 1kHz
Local Line In to Line Out, 22Hz–23kHz .......................... <0.003% @ 1kHz
Mic Input E.I.N (22Hz–23kHz bandwidth, unweighted) .......................... <126dBu (1500 source)
Residual Noise, Stagebox line output, no inputs routed, Mx fader >60dB .......................... <91dBu
CMRR, Stagebox Mic input .......................... >80dB @ 1kHz
Sampling Frequency .......................... >96kHz
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
Input & Output Levels Mic Inputs .......................... <24dBu max
Line Inputs .......................... <22dBu max
Line Outputs .......................... <220dBu max
Nominal Operating Level .......................... 0dBu (1dBFS)
Input & Output Impedances Mic inputs .......................... >2kΩ
Line Inputs .......................... >2kΩ
Line Outputs .......................... >75Ω
AES/EBU Outputs .......................... >11Ω
Oscillator .......................... 20Hz to 20kHz/Pink/White Noise, variable level
Stagebox HP Filter .......................... 20Hz–20kHz, +/-18dB, Q = 0.3–8.7 or shelving
Channel HP filter .......................... 20Hz–60kHz, 18dB per octave
Channel LP filter .......................... 1Hz–20kHz, 18dB per octave
EQ (Inputs and bus Outputs) .......................... HF: 20Hz–2kHz, +/-18dB, Q=0.3–8.7 or shelving
Lo-Mid: 20Hz–2kHz, +/-18dB, Q=0.3–8.7
LF: 20Hz–2kHz, +/-18dB, Q=0.3–8.7 or shelving

Metering, .......................... Internal 20-segment LED bargraphs plus 9-segment gain reduction meters for all inputs and outputs.
Stagebox Mic In (min gain) to Local Line Out, 22Hz–22kHz .......................... <91dBu
CMRR, Stagebox Mic input .......................... >80dB @ 1kHz
Sampling Frequency .......................... >96kHz
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
Input & Output Levels AES/EBU Assignable Level .......................... >24dBu max
Input & Output Levels AES/EBU Assignable Level .......................... >22dBu max
Nominal Operating Level .......................... 0dBu (1dBFS)
Input & Output Levels AES/EBU Outputs .......................... >11Ω
Oscillator .......................... 20Hz to 20kHz/Pink/White Noise, variable level
Stagebox HP Filter .......................... 20Hz–20kHz, +/-18dB, Q = 0.3–8.7 or shelving
Channel HP filter .......................... 20Hz–60kHz, 18dB per octave
Channel LP filter .......................... 1Hz–20kHz, 18dB per octave
EQ (Inputs and bus Outputs) .......................... HF: 20Hz–2kHz, +/-18dB, Q=0.3–8.7 or shelving
Lo-Mid: 20Hz–2kHz, +/-18dB, Q=0.3–8.7
LF: 20Hz–2kHz, +/-18dB, Q=0.3–8.7 or shelving

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