The new black // Legendary Studer mixing, now more affordable than ever
Introducing the Vista 1 Black Edition

The all-in-one compact, flexible mix system for broadcast, live and production

Designed to pack everything you need within a single compact console, Vista 1 Black Edition combines an industry-leading Studer control surface with advanced DSP, fully-configurable I/O and redundant power supplies - all in one unit.

Vista 1’s powerful feature set and flexible I/O configurations mean it can handle the widest range of applications, from OB and ENG vans, to small studios, to mobile productions where the console needs to be moved frequently.

Ready for easy integration with AoIP networks and expandable via Studer’s D21m system and our Compact Stage Boxes. Vista 1 Black Edition is a cost-effective, future-proof console ready for anything that gets thrown its way.

Key Features

- 32 or 22 motorised faders, with Studer FaderGlow™
- Up to 256 Inputs and Outputs
  - Standard configuration (32 Mic/line In, 32 Line Out, 8 AES In & Out) can be customised
  - Desk operator headphone
  - USB jingle player socket
  - Integral 64x64 optical MADI port
  - Slots for additional D21m I/O cards (one double-width or two single-width cards) such as AoIP (AES67/Dante, Livewire), Dual MADI, AES/EBU, ADAT, TDIF, CobraNet®, Aviom A-Net®, Daby® E/Digital, SDI, etc.
- 96 DSP channels, including 5.1 surround channels
- Powerful integrated Lexicon FX
- Soundcraft Realtime Rack Plug-in engine
- True broadcast monitoring, talkback, red light control and 8 general-purpose control inputs/outputs (GPIO)
- Input level and gain reduction LED bargraph meter in every fader strip
- Optional TTF-Meter Bridge
- 6 high-resolution VFD master level meters
- Full mix-minus (n–x) system for live two way operations
- Vista data format compatibility for easy transfer of console snapshots between different Vista consoles
- Integrated jingle player for immediate playback of 8 different station identifier clips, background FX or other audio files from a jingle stick/USB memory device
- Studer Virtual Vista Online/offline editor
- Snapshot automation
- Outstanding Theatre CUE list automation
- Support for the Studer® Vista Compact Remote Bay over Ethernet or even WLAN
- Harman HiQnet® support for controlling other Harman devices
- Ember and Pro-Bel protocol support for use with broadcast/newsroom automation systems
- Redundant PSU
- Studer’s RELINK input/output sharing system allows sharing inputs and outputs with other Studer Vista and OnAir consoles
- Support for the whole Studer stagebox range via a MADI link, such as the 4U Studer Compact Stagebox
- The system can be extended by using additional Studer D21m I/O frames accepting cards from the comprehensive D21m I/O system programme
Studer Compact Stagebox.
Cost-effective flexible expansion

Offering high-density I/O in a 4U rack space, the Compact Stagebox is the most cost-effective way to expand a Vista 1's connectivity. With the flexibility to cover the widest range of scenarios, the standard configuration features 32 mic/line inputs and 16 line outputs. However, it is also possible to replace the output module and increase the inputs to 48 inputs, in which case analogue or AES/EBU outputs can be facilitated via D-Type connections on D21m expansion cards. Expansion slots allow connection to formats including CobraNet®, Aviom A-Net®, Ethersound, ADAT, TDIF, SDI (SD/HD/3G), Dolby® E and Dolby® Digital.

Comprehensive integral I/O

Vista 1's core integral I/O includes 32 mic/line inputs, 32 line outputs, one 64ch optical MADI I/O port and 8 stereo AES inputs & outputs. For added flexibility, it's possible to replace 1 x Mic/Line-In bank (16 inputs) and 1 x Line-Out card (16 outputs) with an additional AES 8 Stereo In & Out (16 mono In/Out).

Making expansion simple, Vista 1 uses Studer D21m I/O to enable a scalable, high-density 24-bit-48-bit audio system. Optional D21m I/O cards are available for popular formats and protocols - including:

- Axia Livewire®M AoIP
- 4-channel D-type Mic/Line In with 4 Direct Outputs
- 8-channel D-type Line In
- 8-channel D-type Line Out
- 8-channel D-type AES/EBU In/Out *
- MADI (RJ45 or optical SC), max. 64 channels of I/O *
- 16-channel ADAT In/Out (optical)
- 8-channel TDM/In/Out (D-type) *
- 8 or 16-channel SDIF (SD/HD/3G) In or I/O on BNC sockets
- 8 or 16-channel Dolby® E/Digital In on BNC sockets
- CobraNet® 32-channel In/Out on RJ45 sockets
- Aviom A-Net® 16-channel Out on RJ45 sockets
- Ethersound® 64-channel In/Out on RJ45 sockets *

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- 8 or 16-channel Dolby® E/Digital In on BNC sockets
- CobraNet® 32-channel In/Out on RJ45 sockets
- Aviom A-Net® 16-channel Out on RJ45 sockets
- Ethersound® 64-channel In/Out on RJ45 sockets *

From analogue I/O to AoIP Vista 1 Black Edition is fully-configurable to suit any application

RELINK, Share your I/O across your network

Vista 1 can be integrated seamlessly within the Studer RELINK (Resource Linking) managed I/O system. RELINK allows multiple Studer consoles across a broadcast facility to share I/O across a wide area network. RELINK is based on Studer’s existing SCore platform which forms an integral part of ever Studer console, so no extra hardware is required to complete the network. Communicating over TCP/IP, any combination of Studer Vista and OnAir consoles, as well as Route 600 can connect via RELINK.
Vistonics. See it. Touch it. Control it.

Vistonics puts the controls right where engineers need them, with rotary controls and switches built right into the touch screen so they can directly control the parameter they are looking at without the need to glance away or focus on two different control surface elements simultaneously. By combining display and controls in one area, the operator is immediately presented with a simple, clear mix system that streamlines workflow and enhances the creative process.

FaderGlow. Bringing clarity to the most complex mix.

In complex productions, large numbers of audio sources requiring on-the-fly adjustment, traditional fader layers can be confusing. FaderGlow solves the problem by illuminating the fader tracks in colours that match those on the Vistonics display, letting the operator immediately see what each fader is controlling - even before reading the text labels for each fader.

FaderGlow is simple. If the settings of the graphic equalizer are mapped to the console faders, those faders are illuminated red - corresponding to the Vistonics display. This simple feature reduces stress and makes light work of hectic live productions.

Full desk control from anywhere in the venue

Designed for any application where it is desirable to have a secondary desk, the Vista Compact Remote provides access to all control and monitoring functionality. Highly portable, the unit features a control surface with 19" touch screen, 12 motorised faders, 40 rotary channel controls, a touch pad and a slide-in keyboard.

Typical applications include theatre or live sound installations where Vista Compact Remote makes it possible to control the sound balance from the auditorium.
Surround Sound made simple

Vista 1 makes it easy to create stunning realistic sound fields from mono sources.

Rather than relying on conventional amplitude panning techniques which usually result in unrealistic stereo or surround mixes, Vista 1 uses Studer’s acclaimed Virtual Surround Panning (VSP II). Using VSP II the operator has a powerful creative tool to position a source within the sound field by using the channel’s pan control. VSP II automatically takes care of generating the directionality and time delays on all speakers.

For broadcasts requiring Multicast 5.1 with 3G SDI and Dolby E audio distribution, Vista ONE features option cards for both formats via the D23m I/O system.

Everyone’s talking? Let VistaMix deal with the headache.

Live multi-microphone productions such as talk-shows, discussion panels and game-shames can all suffer from excess noise due to microphone-spill and background noise from equipment. The result? Reduced intelligibilty and unpredictable distortion and feedback issues.

Offering lightning fast relief to this audio headache, Vista Mix mimics the actions of a highly skilled human operator in these environments but at a fraction of human reaction time. Once activated, Vista Mix is always listening – increasing gain for ‘talking’ mics while reducing gain for others to ensure intelligibility while simultaneously keeping the total gain at a consistent optimum level for the clearest live mix.

Vista FX. Loaded with Lexicon’s best.

Vista 1’s powerful internal DSP core powers high-quality Lexicon effects directly within the console – no need for external hardware or additional cabling.

8 fully-featured FX processors are always available without any loss of mix processing power or I/O capacity and can be patched or inserted onto channels or groups; these can also be assigned by the operator to create mono, stereo or even four-channel processing blocks, especially useful on surround signals.

Like other console parameters, the FX are easily controlled via the Vista’s display making on-the-fly control easy. The available Lexicon FX types include stunning Reverbs, Modulation, Delay, Resonance and Pitch effects.

Mix live with UAD plug-ins

Soundcraft’s Realtime Rack empowers Vista 1 with access to Universal Audio’s acclaimed analogue audio processing simulations and award-winning UAD plug-ins.

Connecting a Realtime Rack software gives Vista console operators all the control they need to insert UAD plug-ins on individual channels, auxiliary channels, and master busses – just as easily as real hardware. A comprehensive snapshot system allows total recall of all plug-ins and their settings while tight network integration with the Vista 1 ensures that all settings of the application are stored inside the console.

The available Universal Audio plug-ins include stunning Reverbs, Modulation, Delay, Resonance and Pitch effects.

Upgrade your workflow speed

Powerful features to simplify production tasks

Premium audio processing

Lexicon and Universal Audio FX at your fingertips

Vista ONE features option cards for both Multicast 5.1 with 3G SDI and Dolby E audio distribution via the D23m I/O system.
Outside broadcast vehicles present a series of challenges to equipment providers. As well as the inherent audio functionality required, consoles in particular need to be robust and reliable, have suitable redundancy, be very space efficient as audio space is always a premium in OB vans, and be flexible enough to handle different types of production very easily. Studer’s Vista in OB vehicle installations is well known. Not only does the Vista 1 fit perfectly into small spaces, but it is easily expanded through the D21m I/O and stageboxes. Integral MADI connectivity allows huge reductions in analogue patching systems.

The console itself offers all the functionality that may be required of it for OB:

- Full surround source management with up and down-mixing for sports events
- Mix minus feeds
- Audio-follows-video which can be tied to camera feeds and VT sources using several protocols, including Probel
- Multitrack capabilities for music events
- Dynamic automation for live mixdown of multitrack audio
- Integral audio router which saves on further external equipment, with control possible from video switchers
- Remote stagebox systems using environment-proof fibre-based MADI connectivity

With the existing popularity of Studer Vista consoles in fixed and mobile broadcast facilities, most engineers will already be familiar with the operation of the console, but new users will find themselves easily assimilating the Vistonics user interface.

With its compact footprint, the Vista 1 is fully-equipped to handle large numbers of sources and feeds along with full surround management, integral interfacing capabilities to numerous source formats including SDI, Dolby, AES, MADI, CobraNet, Livewire and more. The integral audio router functionality means that systems may be much more closely integrated and controlled than before.
In addition to the standard functionality, the input channels provide several broadcast live production specific features. Dedicated controls for extensive snapshot filtering are available to deal with the most complex live productions. Dedicated buttons for talkback (e.g. to Direct Out, N-1 etc) and for user programmable functions provide more flexibility and ease during live operation. Dedicated Matrix busses can be configured which suits the fixed install application but can also offer a fast and easy method of handling complex headphone feeds in a broadcast environment. 16 dedicated Mute Groups are also available.

Simple outside source management
In the last few minutes before the studio goes on-air or the show starts, stress is at its highest and many things are happening at once. Problems with outside sources and reporters often induce a high stress factor; setting up the correct return feeds and talkback on-air needs to be as simple as possible. In some cases the n-1 feed may not be what the outside source wants to hear while waiting to go on-air. The Vista offers a dedicated switch per channel that automatically sends the outside source and alternative signal to the n-1 whilst the outside source is not on-air.

When the outside source is put out on-air (fader opened), the correct n-1 feed is automatically switched to the outside source without the user having to disable the switch manually. In addition, any number of outside sources are able to talk off line together in a conference mode (MPX), with the outside source automatically removed from the conference and sent the correct n-1 feed when put on-air.

On the spot playout
For ease of use, the Vista 1 contains an integrated jingle/slot player which accepts a variety of audio formats from a USB memory device which may be triggered from 8 dedicated buttons on the surface. DAW interfacing Studer Vista consoles interface with the major DAW systems available on the market. Many DAW functions can now be directly controlled from the console, where innovative operating concepts such as StripSetup and Ganging bring DAW integration to a new level and greatly enhance the production workflow. Editing is faster; customers are happier.

Simple configuration screens within the Vista system allow the operator to select the DAW control interface and enable it. Then, you can mix and match DAW channels alongside Vista channels. Directly at the channel fader tracks may be armed ready for record using console buttons. Additionally, the DAW gains features of the Vista consoles such as ganging. No additional hardware is required and connection is made through a simple Ethernet link rather than multiple MIDI cables typically found in other systems.
Vista 1 Black Edition is ideal for large House of Worship venues. With a compact, easily accommodated format, the console has all the required processing power and features to manage Worship events with ease.

Workflow-enhancing features

The SpillZone lets the engineer better manage the huge amount of hundreds of processing channels by allowing to make an inverse interrogation of “what’s on my bus or group”, dramatically speeding workflow and reducing the chance of error.

The large numbers of performers involved in Worship events can often result in monitoring challenges. With Vista 1 setting up monitoring where large numbers of singers and band members need their own monitor mix is perfectly managed with Vista’s new FollowSolo function, which brings the auxiliary contribution levels directly onto every single channel while FaderGlow shows the corresponding bus color. Channels can directly be assigned to the SOLO’d channel by pressing the specific Assign-Button in the Vistonics touch area.

Podium discussions on stage are managed and mixed by Studer’s VistaMix, which automatically monitors each mic channel and adjusts gain and levels to ensure the clearest overall mix while preserving intelligibility.

CLUE-Based production

Since shows in HoW are often well planned and structured, Vista 1’s CLUE automation is invaluable. This automated Snapshot rundown can be enhanced with Events like MUTE automation, Universal Audio Plugin snapshots, different StripSetups, and MIDI commands.

To aid in rehearsal and show build, cues containing a snapshot can now be created with a single button press, cues can be comprehensively inserted and re-numbered, and cues can be automatically recalled via a precisely timed event to give the engineer an extra pair of hands. Cues can also fire MIDI/MMC events, for example for SFX playback, where the MIDI ports can be muted for cue list navigation. Most importantly, the enhanced cue list now provides a large display of the current cue, as well as an indication of whether a snapshot is masked or not made clearly visible in the cue list.

Stunning onboard effects

The direct integration of Lexicon effects with control via the Vistonics interface gives HoW engineers everything they need to create the highest quality mix for every production, and of course, all the settings and parameters can be stored and instantly recalled using the Vista snapshot function.
Theatre sound designers and console operators make some of the highest demands when it comes to efficient workflow on the heart of their audio system. Nothing must go wrong, while everything needs to be changed quickly! To enhance workflow processes from offline programming, rehearsals through to daily performances, Studer has developed special software which makes Vista consoles the ideal choice for cue-based theatre productions. Sound designers now have a complete toolkit provided with the standard Vista Software which is available for the whole range of Studer Vista consoles. Together with the Vista’s already extensive facilities which suit theatre sound, such as high input/output capacity, the acclaimed Vistonics™ user interface, very compact footprint and outstanding sonic performance, the Studer Vista series of consoles is the perfect choice for world class theatres.

Enhanced Theatre Cue Lists
To aid in rehearsal and show build, cues containing a snapshot can now be created with a single button press, cues can be comprehensively inserted and re-numbered and cues can be automatically recalled via a precisely timed event to give the engineer an extra pair of hands. Cues can also fire MIDI/MMC events, for example for SFX playback, where the MIDI ports can be muted for cue list navigation. Most importantly the enhanced cue list now provides a large display of the current cue, as well as an indication of whether a snapshot is masked or not made clearly visible in the cue list.

Character/Actor Library Event handling
Characters in a production can be given any desired library entry (for example, a special EQ setting) on a cue by cue basis. This allows easy temporary or permanent adjustment of these library settings, as well as a very straightforward way to replace the settings of an actor with replacement-actor or understudy settings. There are two ways of applying library events to characters, firstly by using the two new Vistonics controls on the actual channel, and secondly the large overview window where a list of all cues and all characters is provided. The Library window itself enables selection of the different actors as well as very easy creation of understudy actors.
Technical Specifications

**EQ**
- **Input Impedance**
  - 100 Ω
- **Frequency Response**
  - 20 Hz to 20 kHz
- **THD + Noise**
  - 1 kHz, –9 dBFS, 1 kHz
- **Output Level**
  - +6 to +74 dBm for 0 dBFS

**Line Output**
- **Conditions / Details**
  - Line 3.6 kΩ (electronically balanced)

**Power**
- **Power Consumption, Studer Vista 1**
  - 190 W typ., 250 W peak

**General Conditions**
- **Gain Setting**
  - 15 dBu

**Weights (approx.)**
- **Studer Vista 1**
  - 59 kg / 130 lbs

DSP configurations

Correct at time of going to press. Subject to change without notice.

1. MONO
   - **Path Type**
     - Mono
     - Stereo
     - 3.1
     - Mono
     - Stereo
     - 3.1
   - **Processing Blocks**
     - ALL
     - GEO DIN
     - DIN
     - GEO

2. STEREO
   - **Path Type**
     - Mono
     - Stereo
     - 3.1
     - Mono
     - Stereo
     - 3.1
   - **Processing Blocks**
     - ALL
     - GEO DIN
     - DIN
     - GEO

3. SURROUND
   - **Path Type**
     - Mono
     - Stereo
     - 3.1
     - Mono
     - Stereo
     - 3.1
   - **Processing Blocks**
     - ALL
     - GEO DIN
     - DIN
     - GEO

4. FOH
   - **Path Type**
     - Mono
     - Stereo
     - 3.1
     - Mono
     - Stereo
     - 3.1
   - **Processing Blocks**
     - GEO DIN
     - GEO DIN

5. MONITOR
   - **Path Type**
     - Mono
     - Stereo
     - 3.1
     - Mono
     - Stereo
     - 3.1
   - **Processing Blocks**
     - ALL
     - GEO DIN
     - GEO DIN

Monitoring and TB I/O
The requirements for monitoring and talkback inputs/outputs are different, depending on which configuration is used. Therefore these inputs and outputs are automatically allocated to the rear-panel connectors in a reasonable way when selecting a configuration.
Optional floorstand dimensions

Vista 1 BE 32 Fader Console

Vista 1 BE 22 Fader Console

Frame Sizes

Dimensions

Vista 1 BE 32 Fader Console

Vista 1 BE 22 Fader Console