STUDER® GLACIER SERIES

Highly customizable broadcast audio control surfaces
Introducing the **GLACIER SERIES**

**Flexible Control for Broadcast Audio Workflows**

The Studer Glacier Series is a broadcast audio control surface that will revolutionize the way you mix sound. The innovative and highly customizable surface provides comprehensive control, flexibility, and interoperability for any on-air application. The Glacier Series makes use of cutting-edge technology to enhance and modernize traditional console features.

Two streamlined modules are equipped with essential controls for live broadcast, ensuring fast and easy operation. The multi-touch graphical user interfaces provide virtualized control surfaces, allowing users to customize controls to suit their specific needs. User configurations can be recalled instantly, prompting the surface to adapt dynamically according to the specific needs of the operator.

Each Glacier Series component offers forwards and backwards compatibility with Studer Nano SCore, Compact SCore and SCore Live DSP platforms, and Infinity Core integration is coming soon. Multiple modules can be added to create custom-tailored consoles that bring new levels of control and versatility to any broadcast. The Glacier Series perfectly blends upscale functionality, innovative design, and renowned Studer quality.
KEY FEATURES

- Renowned Studer quality and performance
- Modular, IP-based scalable architecture
- Intuitive, user-configurable GUI provides a highly adaptable virtualized control surface
- There are two types of control modules:
  - Central Screen Module for quick control
  - Fader Module for effortless on-air multitasking
- Multiple control modules can be combined or used independently, depending on your needs and preferences
- Mix and match modules to support up to 60 faders and 4 monitoring positions
- Deep integration with third party studio systems
- Studer FaderGlow for quick function and channel identification
- Forwards and backwards compatibility with Studer DSP platforms, including SCore Live and Infinity Core
- Library of widgets to conveniently manage a variety of functions and third party systems within the Central Screen Module
VERSATILE CONTROL SURFACES

The Studer Glacier Series includes two easy-to-use control surfaces that are tailored to provide streamlined physical controls for live operation and integrated mic input, monitoring outputs and AoIP connectivity to the main DSP core. All other controls are provided virtually, via intuitive multi-touch graphical user interfaces.

The Central Screen Module features a vibrant display for easily assigning and accessing GUI controls.

The Fader Module provides simplified tactile control for effortless multitasking, and features Studer FaderGlow so you can assign colors to each fader for channel layout and management.

Each module is a self-contained unit that connects and operates fully with the Studer DSP Core via TCP/IP. Multiple modules can be connected together to create versatile, customized surfaces tailored for specific applications and environments.
A TAILORED USER EXPERIENCE

The Studer Glacier graphical user interface (GUI) offers incredible flexibility by letting users tailor the view to fit their specific needs. The GUI can be personalized to complement the technical and operational requirements of each user, displaying all the controls they need and hiding those they don’t.

Engineers and other technical operators can view comprehensive DSP controls, gaining full access to detailed functions including equalization, dynamics, etc. This is particularly useful when setting up the console for a show. Conversely, when it is time for the production to go on the air, the surface can be instantly streamlined to provide only the parameters and controls needed for live operation. This removes the visual clutter, speeds up the workflow, and eliminates the likelihood of user error.

The Glacier Series will automatically recall user settings upon login, instantly configuring the surface according to the user’s needs.
DYNAMIC CONTROL

Today’s on-air and production environments require dynamic flexibility. The Studer Glacier GUI eliminates the constraints of static buttons and dedicated labels by allowing you to remove unused parameters and display only the controls you need. The virtualized control surface makes it easy to adapt to broadcast situations, deploy the console in different ways around your facility, and interface with additional studio gear.

The virtualized control surface is heavily influenced by Studer’s cutting-edge Vistonics functionality, providing users with a streamlined control experience. Since the Glacier Series does not have static buttons, the options for control are truly limitless. As users engage with the Vistonics-inspired interface, they immediately gain access to expanded control options based on their current needs. With Vistonics principles applied to the Glacier Series’ touch surface, users gain powerful, intuitive control alongside immense flexibility.
FEATURES

Central Screen Module: TCP/IP Control

- PoE (Power over Ethernet)
- Customizable GUI
- Capacitive Multi-Touch Display
- 2x Rotary Encoders
- 26x Capacitive Touch/Push buttons

Studio Connections:
- Dante AoIP: To connect the surface with the processing engine
- 1x HQ Mic Inputs: For the DJ mic or a talk-back microphone
- 2x Line Outputs: XLR connectors for balanced line outputs with fix output level of 15dBu to connect active loudspeakers
- 1x Headphone Output: A stereo headphone amplifier with an unbalanced stereo output on stereo jack connector

Compatibility:
- Supports Nano SCore, Compact SCore, and SCore Live DSP engines
- Support for Infinity Series DSP Core coming soon
- Compatible with the Compact Stagebox and the D21m and D23m I/O Systems

Fader Module: TCP/IP Control

- PoE (Power over Ethernet)
- Customizable GUI
- Capacitive Multi-Touch Display
- 6x Motorized Faders
- FaderGlow
- 12x Capacitive Touch/Push buttons
- 12x Push buttons

TECHNICAL SPECIFICATIONS

Central Screen Module & Mic/Line Input

The Central Module provides one Studer HQ Mic/Line input on female XLR connector with the following specifications:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT LEVEL RANGE</td>
<td>-60dBu...+26dBu</td>
</tr>
<tr>
<td>INPUT IMPEDANCE</td>
<td>6.8 kΩ</td>
</tr>
<tr>
<td>FREQUENCY RESPONSE</td>
<td>20...20kHz, 30...20kHz</td>
</tr>
<tr>
<td></td>
<td>+0dB / -0.3dB, +0dB / -0.2dB</td>
</tr>
<tr>
<td>THD &amp; NOISE</td>
<td>&lt; -97dB, &lt; -110dB</td>
</tr>
<tr>
<td></td>
<td>1kHz, -1 dBFS, 15 dBu, 20Hz...20kHz, -30FsDB</td>
</tr>
<tr>
<td>CMRR</td>
<td>&gt; 70dB, typ. 100dB</td>
</tr>
<tr>
<td></td>
<td>30Hz...20kHz, full gain range 1 kHz, &lt; -20dBu, &gt;35dB gain</td>
</tr>
<tr>
<td>CROSSTALK @1KHZ</td>
<td>&gt; -110dB</td>
</tr>
<tr>
<td></td>
<td>No crosstalk since we have only one microphone.</td>
</tr>
<tr>
<td>EQUIVALENT INPUT NOISE</td>
<td>-126dBu, Resource=200Ω, maximum gain</td>
</tr>
<tr>
<td>RF REJECTION</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>RF Rejection with common mode choke</td>
</tr>
<tr>
<td>ANALOGUE HP FILTER</td>
<td>75Hz, 12dB/Oct</td>
</tr>
<tr>
<td>PHANTOM POWER</td>
<td>48V, Switchable</td>
</tr>
<tr>
<td>ZERO CROSS DETECTION AND SAMPLE &amp; HOLD</td>
<td>Yes, For click-free gain changes</td>
</tr>
</tbody>
</table>

Gain Setting = 0dB Gain (@ Maximum Level 15dBu) where 15dBu equals 0dBFS, unless otherwise noted. A red LED indicates phantom power on/off.
WIDGETS

Widgets can be placed and resized on the Central Screen Module as needed, so you can control a variety of functions and third party systems directly within the audio console. Eliminate computer screens in your control room as all controls for live operation are consolidated within the Glacier Series. We will continue to develop new widgets based on customer requests.

**MONITORING SOURCE SELECTION**
Allows selection of the monitoring source for all available monitoring locations

**MONITORING CONTROL**
Comprehensive monitoring control for all available monitoring locations

**MONITORING INFO**
Allows control of the basic monitoring function in all available monitoring locations with the help of the central screens’ two tactile encoders

**TALKBACK**
Offers push button talkback to multiple destinations and talkback return level control

**MAIN METER**
Shows Level and Correlation metering; switchable to provide Loudness metering

**ONAIR AND RED LIGHT**
Indicates a RedLight condition in the specified location and OnAir status of the Desk

**USER STOPWATCH**
Allows the measurement or countdown of time independently of any fader stopwatch

**FAADER STOPWATCH**
Indicates the active duration of the Input Fader for the most recently activated channel along with the name and role icon

**MONITORING SOURCE SELECTION**

**MONITORING CONTROL**

**MONITORING INFO**

**TALKBACK**

**MAIN METER**

**ONAIR AND RED LIGHT**

**USER STOPWATCH**

**FAADER STOPWATCH**

Please note that the GUIs are not to scale and are for illustrative purposes only.
**AUTOMATION RUNDOWN CONTROL (COMING SOON)**
Provides the controls necessary for the "Live" operation of the Rundown/Automated Playout system. Includes:

- Transport control - Play, Pause, and Stop playlist entries
- Rundown List Editing - Reorder and skip playlist entries with drag-and-drop functionality
- Automation Control - Change the rundown transitions from Automatic, Live Assist, and Passive Playout
- Fade Control - Select whether the pre-configured fade files for the playlist entry should be used during playback
- View Entry Fade File - Shows the pre-configured fade file overlaid on the playlist entries waveform
- Pre-Listen/Audition - Facilitates the listening/auditioning of playlist entries prior to airing
- Audition Metering - Shows the PFL metering of the auditioned track (PFL to MON)

Please note that the GUls are not to scale and are for illustrative purposes only.

**USER FUNCTION BUTTONS**
Provides ability to execute non-channel related Control Functions and indicates their state

**STATION LOGO**
Allows the Station Logo to be included in the Central Screen GUI for a personal touch

**JINGLES (COMING SOON)**
Allows control and status indication of Jingles that are provided by a third party radio automation system

**CHANNEL (COMING SOON)**
Allows channel function control on the Central Module GUI
DIMENSIONS

CENTRAL SCREEN MODULE WITH 2 FADER MODULES
CENTRAL SCREEN MODULE

FADER MODULE