# Big show. Big ideas.

Sound designers are accustomed to being asked for the impossible. Today's top dramatic and musical productions call for large sound reinforcement systems, sophisticated cues and effects, and crystal-clear sound reproduction. To the problems of total repeatability on every night of a production might be added the challenge of taking that same show on tour.

On top of that, the cost to a theatre of giving up even a single seat means that installations must be as small as possible. Engineers and operators know only too well that the integration, automation and flexibility to achieve all this is rarely seen in audio systems – and certainly not in a mixer with a small footprint.

Until now, that is. Thanks to its advanced implementation of digitally controlled analogue technology, and a modular system design, the Soundcraft Broadway rewrites the rulebook for theatre sound. Without compromising either quality or the system's operational limits, both the control hardware and audio electronics can be independently configured to your precise requirements, and located wherever the situation demands.
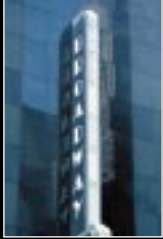
Only one console fits the bill

Broadway is the last word in audio production tools for theatre. With its modular analogue rack audio components, you can add as many inputs as you need, without limits. Rather than tie you down with a fixed configuration, Broadway's 32 'Graux' busses can be used as groups or auxes as required. Outputs come in modular rack form so you may add further outputs as required, to suit even the most complex system design.

No matter how you configure your audio racks, you are still free to put together whatever combination of input and control surfaces best fits your system requirements and your space constraints. You can even add more control surfaces during rehearsals, then cut back to a basic control configuration for the production or for taking the show on the road.

Motorised moving faders are used throughout, while powerful snapshot automation helps both the sound designer and engineer to achieve their creative goals. An unlimited number of 'cues' are available to reset the desk, recalling not just the routing and EQ, but the complete desk configuration right down to a custom control layout for each scene or sound cue.

F amiliarity and ease of use are also strong points of Broadway's design, combining traditional mixer hardware with the complete assignability required by such a flexible design.

The Input Control Surface features 20 moving faders, each with metering, assignable rotary faders and dedicated switches for key functions on 20 different channels, plus an Assignable Channel Strip for display and control of every parameter on a single channel. An unlimited number of Input Control Surfaces can be used.

The **Main** Control Surface features dedicated VCA (control group) and **main** output faders, plus rotary and linear Matrix/Graux faders, and comprehensive monitoring and talkback facilities. A high-brightness touchscreen is used for a variety of on-line and off-line system functions.

Adding the VCA Extender surface, based on the Input surface frame, provides an extra 12 VCA group faders, plus 20 assignable meters.

Any number of 19" x 18U Input Audio Racks can be specified for a Broadway system, each rack containing 4U and 6U Eurocards that handle input, EQ and routing for up to 40 input channels. Despite its cutting-edge design, Broadway retains an entirely analogue signal path. The **Main** Audio Rack contains similar Eurocard components for bus mixing, and Main, Graux and Matrix outputs.

Audio and control elements are connected via a dual coaxial digital network infrastructure, and audio racks are interconnected via 48-pair balanced multicores. Whilst the Broadway system could be operated entirely from a single ACS and the touchscreen, any number of networked PCs can be added to the system, running dedicated Broadway control software, for applications where a larger screen display would help.

BROADWAY
Soundcraft

- Digitally controlled analogue audio
- Total recall/reset of all audio functions
- Moving faders throughout
- Fully modular audio hardware
- Expandable input configurations
- 40 balanced audio busses
- Expandable modular output section
- Fully parametric 4-band EQ
- Integrated control of outboard devices
- Detachable Assignable Channel Strip
- Simple 'building block' control system
- Space-efficient design
- Open network architecture
- On-line and off-line design and setup
- Comprehensive failsafe and redundancy

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