



SCM820 Digital IntelliMix[®] Automatic Mixer

DIGITAL INTELLIMIX® **AUTOMATIC MIXER**

The SCM820 is the flagship Shure digital automatic mixer for seamless, natural-sounding speech in multiple microphone applications. This innovative 8-channel microphone mixer provides advanced new IntelliMix mixing capabilities along with convenient Ethernet connectivity and versatile configuration options.

IntelliMix[®] Technology reset, manual & custom mode

Dante[™] Digital Audio ltichannel audio over Etherne



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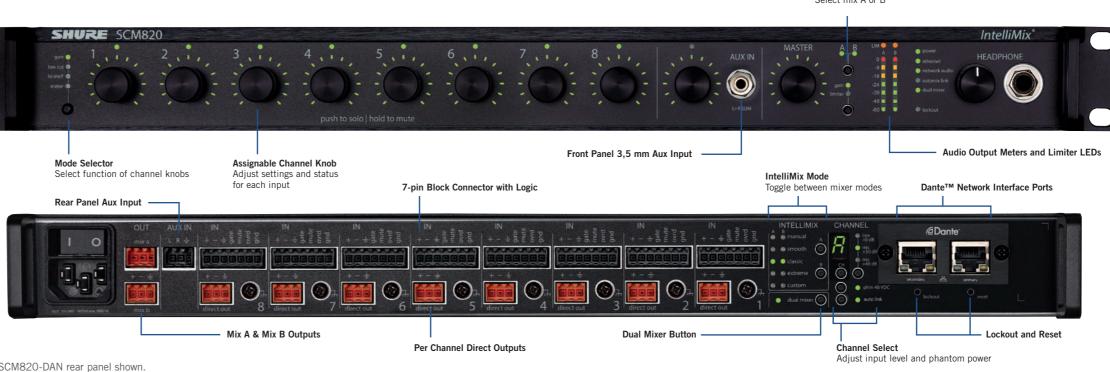
Digital Feedback Reduction

2 channels of patented Shure DFR

Model Variations Multiple I/O configurations

Dual Mixer Operation





Additional models shown on back page.

Smart, Simple Controls

With an intuitive hardware interface and informative LED metering, the SCM820 packs an extensive range of control and visibility into a single streamlined rack unit.

Channel Control Knobs

Make quick adjustments to gain, low cut and high shelf EQ, and solo/mute functions.

LED Meter Rings

Channel and master meter rings vibrantly display input audio or IntelliMix gain levels.

Dual Mixer Mode

Route two entirely different and independent automixes to mix A and B outputs.

Output Mix Control

Front-panel master gain and limiter control section with output signal meter strip.

Hardware/Software Control

Adjust settings directly on the front and back panels or through the browser-based control software.

MORE CONTROL. GREATER CAPACITY. ONE BOX.

Mix Select Buttor

Analog & Digital Connections

The SCM820 provides enhanced I/O support to engineers - in both application flexibility and digital connectivity - to make setting up, configuring and managing systems easier and more efficient.

DB25 or Logic-enabled Block Connector Models

Eight channel inputs on the back panel connect to mic or line level audio sources

Direct Outputs

Per-channel direct outputs allow the SCM820 to be used as an insert processor or for recording.

Dante[™] Digital Audio Networking

Dante-equipped models provide multichannel digital audio I/O over Ethernet and enable linking to additional SCM820 units.

Mix A and B Outputs

Connect line or mic level mix outputs to a sound reinforcement system, mixing console or recording device.

Aux Inputs

Route a mono signal straight to the mix outputs from front and back panel auxiliary inputs, bypassing the IntelliMix bus.

6,5 mm (¹/₄") Stereo Headphone Output

For channel and mix monitoring.

Networked Solutions

Networking options available with the SCM820 enable advanced control and signal routing. Link multiple units together on a network, then control their settings and signal path remotely from a PC or Mac.

Standard Ethernet or Dante Digital Audio

Choose the best networking option for the application.

Dante Upgrade Card

Upgrade standard Ethernet models to add Dante digital audio.

Linking Mixers

Dante-equipped SCM820 mixers can be linked to form large automixes of up to 12 units (96 channels of audio).

Control System Compatible Connects to AMX and Crestron controllers.

IntelliMix[®] Technology

PROPRIETARY AUTOMIXING FUNCTIONALITY

Noise Adaptive Threshold (NAT) Continually adjusts the gate threshold for opening a channel.

Number of Open Microphones Attenuation (NOMA)

Determines the ideal gain attenuation for a mix output as additional channels are opened.

Last Mic Lock-On (LMLO)

Keeps the most recently activated microphone open until another microphone is activated.

MaxBus

Ensures that only one channel is opened per sound source, reducing comb filtering for clear, intelligible speech.

IntelliMix[®] Modes TAILORED AUTOMIX STYLE PRESETS

Classic

Ideal for noisy environments, such as live sound reinforcement, classic mode uses fast-acting, seamless channel gating and consistent perceived ambient sound levels.

Smooth

Ideal for quiet environments, such as broadcast or recording applications, smooth mode dynamically balances system gain between open and closed channels.

Extreme

A more aggressive form of classic mode, extreme mode is configured to achieve maximum gain before feedback by completely attenuating closed channels.

Manual

Deactivates IntelliMix to allow the SCM820 to operate as a standard mixer.

Custom

Allows customized IntelliMix settings to be saved to a computer and quickly loaded onto the device.



Software and hardware-based control of key system settings





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Input Tab



Output Tab

SCM820 SCM8	320	-	Identify					
Input	IntelliMi	ix	Output	Output Link Group		Preferences		
Mixer Dual	Ţ	Mix A	Manual	Sm	ooth	Classic	Extreme	Custom
Junior Duci		Mix B	Manual	Sm	ooth	Classic	Extreme	Custom

IntelliMix Modes



Digital Feedback Reduction

SCM820 - Control Software

REMOTE SET-UP AND CONTROL

SCM820 Control Software provides convenient management, monitoring, and configuration support for all key system settings. It features a rich, browser-based graphical user interface and is accessible from any networked computer.

Control tabs

Inputs

Manage parameters and monitor audio levels for each input channel

IntelliMix Configure IntelliMix modes and route channels to mix outputs

Outputs

Manage parameters and monitor audio levels for each direct output channel and mix outputs

Link Group Create and manage larger automixes through linking multiple devices

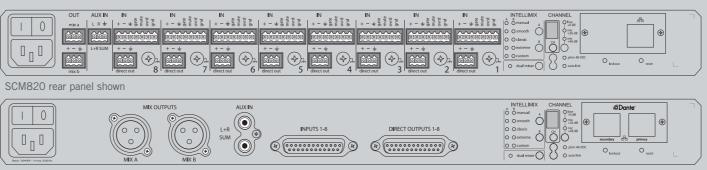
Preferences Manage global device settings

DFR (Digital Feedback Reduction)

Enhancing the expansive feature set already available through the SCM820 control software, DFR (Digital Feedback Reduction) adds two channels of adaptive EQ filtering to find and attenuate feedback frequencies, noticeably improving gain before feedback in live sound reinforcement systems.

- Two channels of patented Shure Digital Feedback Reduction
- Assignable to input channels and mix outputs
- Automatic feedback detection and filter deployment
- Up to 16 filters per channel
- 25 Hz to 20 KHz bandwidth
- Up to 18 dB gain reduction per filter
- Selectable low/high Q filter width (1/40th or 1/70th octave)

Selected Specifications



SCM820-DAN-DB25 rear panel shown

SCM820 Digital IntelliMix[®] Automatic Mixer

eatures	Audio Frequency Response				
	Dynamic Range 20Hz to 20 kHz, A-weighted, typical				
	Dimensions				
	Weight				
	Power Requirements				
	Operating Temperature Range				
nalog Connections	Configuration				
	Clipping level				
	Phantom Power				
	Max Output Level				
	AD/DA Converter				
igital Signal Processing	Latency				
	Gain Adjustment Range				
	Input Processing				
	Output Processing				
	Networking Interface				
vailable SKUs	SCM820				
	SCM820-DAN				
	SCM820-DB25				
	SCM820-DAN-DB25				
	A820-NIC-DANTE				
	DB25 Accessory Cables				

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. 8	Push to solo / hold to mute	
	4 • • • • • • • • • • • • • • • • • • •	SHURE SOURCE
	Push to solo/hou	····· 2····· 3 ··
8	Push to solo hold to mute	

SEAMLESS MIXING. Advanced Control.

44 mm x 483 mm x 366 mm (H x W x D) 5,5 kg (12 lbs) 100 to 240 V AC, 50-60 Hz, 1 A -18°C (0°F) to 63°C (145°F) Channel Input, Mix output: Active balanced Aux Input: Stereo unbalanced Direct Output: Impedance balanced Channel Inputs Line (+0): +20 dBV, Mic (+26): -6 dBV, Mic (+46): -26 dBV Aux Input +10 dBV 48 V DC, selectable per channel, 7 mA max.

Line (+0): +20 dBV, Line (-20): 0 dBV, Mic (-46): -26 dBV

20 Hz to 20 kHz (±1 dB)

Analog-to-Analog: 110 dB

Analog-to-Dante, Dante-to-Analog: 113 dB

24-bit, 48 kHz, 113 dB dynamic range typical

Analog to Analog: 0,51 ms Analog to Dante: 0,29 ms

Channel Input, Mix Output: -110 dB to +18 dB

Low cut, high shelf

8 band PEQ (incl. low and high shelving filter), limiter SCM820: Single Port, 10/100 Mbps Ethernet SCM820-DAN: Dual Port, Gigabit Ethernet, Dante digital audio

8 Channel Digital Automatic Mixer, block connectors
8 Channel Digital Automatic Mixer, block connectors, Dante Digital Audio
8 Channel Digital Automatic Mixer, DB25 connectors

8 Channel Digital Automatic Mixer, DB25 connectors, Dante Digital Audio

Dante Digital Audio Upgrade Card for SCM820 Standard Ethernet Versions

DB25 to 8 XLR Male, DB25 to 8 XLR Female, DB25(x2) to 8 TRS

Note: All specifications are subject to change.