Polycom® SoundStructure™
Models C16, C12 and C8

Features	Benefits
Audio Performance	
Full stereo Acoustic Echo Cancellation (AEC) to 22 kHz	• Eliminates echoes while maintaining full stereo separation with remarkable clarity • Completely transparent echo canceller experience even during doubletalk with multiple independent audio sources
Immersive audio experience	• Stereo separation makes it possible to be "in the middle" of the audio and understand where remote participants are seated • Delivers a much more natural and realistic conferencing experience
Powerful gain sharing automixer	• Provides additional flexibility and smoother transitions to ensure robust performance in a variety of operating environments
Dynamics processing	• Compensates for level variation on telco and video calls to improve system sound in even the most acoustically challenging environments
Unrivaled noise cancellation technology	• Eliminates background noise, even in extremely challenging rooms
Comfort noise	• Background noise fill used for more natural sounding conferencing
Analog gain control	• Adjusts input gains in the analog domain to maximize signal-to-noise ratio and eliminate background hiss
Fast, responsive Automatic Gain Control (AGC)	• Seamless gain adjustments are transparent to participants
Modular telephony slot	• Configurable telephony options for added flexibility and investment protection for future technology
Easy, Flexible Installation	
OBAM matrix architecture	• Number of inputs and outputs easily scales by simply connecting multiple units • For example, three C16 units results in 48 inputs and outputs – it's that simple • All units operate as one device, simplifying configuration • Scales up to 128 inputs and 128 outputs
Feedback elimination technology	• Easier and more flexible microphone and speaker placement

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Features	Benefits
SoundStructure Studio software included	• Windows-based design and installation makes it easier than ever to add and remove input and output signals and to provide default signal routings and gains based on the type of input or output signals • Complete off-line emulator enables more early testing for less time onsite
Robust Acoustic Echo Cancellation (AEC)	• Strong performance even in high-gain environments, resulting in fast setup with little tuning needed
Digital integration to Polycom HDX	• Simplify installation in audio/video environments, reducing installation time
Integrated Ethernet	• Configure, monitor and manage SoundStructure from anywhere on the network
Powerful, flexible processing	• Processing feeds for sound reinforcement, conferencing and recording • All audio processing features in one box – no need to purchase additional equipment
Advanced submix processing	• Manipulate multiple signals at one time • Easier setup, configuration and control
Virtual channels	• Reuse an entire design and control system code, even when the underlying physical wiring is different from design to design • Control input and output channels by using the virtual channel 'label' instead of the underlying channel numbers • Configure and control stereo input and output channels as if they were one virtual channel for easier setup and routing • Works with mono and stereo signals
Virtual channel groups	• Configure and control multiple audio channels at the same time by adding the channels to a group and configuring as a single channel
Powerful macros & events	• Provides move control over system behavior; customize the behavior to match your installation
Proactive monitoring & diagnostics	• Advance notifications of system status for faster response
Front panel LED status	• Clear status information to simplify troubleshooting and configuration issues

Polycom Interoperability

Polycom HDX integration	• Fully digital connection for high performance and easy integration • Greatly enhances HDX audio performance in any installed environment
Polycom HDX digital microphone and Polycom Ceiling Microphone Array	• Easier integration with existing Polycom microphones • Use a mixture of analog and digital microphones to more easily suit installation requirements