

Features and Benefits

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

Features

SoundStructure Studio software included

Robust Acoustic Echo Cancellation (AEC)

Digital integration to Polycom HDX

Integrated Ethernet

Powerful, flexible processing

Advanced submix processing

Virtual channels

Virtual channel groups

Powerful macros & events

Proactive monitoring & diagnostics

Front panel LED status

Polycom Interoperability

Polycom HDX integration

Polycom HDX digital microphone and Polycom Ceiling Microphone Array

Benefits

- 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
- Strong performance even in high-gain environments, resulting in fast setup with little tuning needed
- Simplify installation in audio/video environments, reducing installation time
- Configure, monitor and manage SoundStructure from anywhere on the network
- Processing feeds for sound reinforcement, conferencing and recording
- All audio processing features in one box – no need to purchase additional equipment
- Manipulate multiple signals at one time
- Easier setup, configuration and control
- 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
- Configure and control multiple audio channels at the same time by adding the channels to a group and configuring as a single channel
- Provides move control over system behavior; customize the behavior to match your installation
- Advance notifications of system status for faster response
- Clear status information to simplify troubleshooting and configuration issues