



## DIGITAL CONFERENCE & AEC PROCESSOR

## DCP1000

### DCP1000 OVERVIEW

The Senator system is a fully integrated digital conference, AEC distance and web conference system, combined in a single DSP unit. The system can be used as a "standard" conferencing system, as an AEC distance conferencing or a USB web-conferencing system while the optional AEC-Card is installed in the DCP1000. With a single DCP1000 processor, it is possible to connect up to 504 Delegate Units via 63 DDB104 Mic Junction Boxes and up to 64 DCA660 digital 6Ch. amplifiers. The integrated 64Ch. Xavnet Audio Network connects to the CDM-Net-Loop Cards guarantees a high speed performance and can be cabled in a redundant. An entire system can connect up to 32 DCP1000 processors via the optional DCP-Net-Loop cards, which are available with either CAT or Fiber Optic connections.

The state-of-the-art audio quality is guaranteed by the fact that each microphone can be individually processed with AGC, 8 Band PEQ, Voice Activated Gate, Hi/Lo Pass Filters, Feedback Suppressors and Gain-Sharing Auto Mixers and AEC(Acoustic Echo Cancellation). The industry first technology of Auto-Mix-Minus Calibration will automatically adjust the suitable parameters to prevent the feedback of the system for every room.

This not only helps for the first system setup, but also when the seating in the room changes. The Senator system supports a NOM of 8 microphones activated simultaneously(changes to NOM of 4 if AEC is activated). The processor has another independent balanced Line In/Out channel, allowing to either connect a microphone(incl. 48V phantom power) to the output to any audio mixer, or to integrate the Senator system to an existing video conferencing system(optional AEC-Card needed). Furthermore, the DCP1000 has a stereo line Input/Output to feed the system with any audio source, or to connect to an audio recorder.

The redundant CDM-Net-Loop which connects the DDB104 Mic Junction Box, and DDB104 box connects to up to 4 Delegate Units has assured the highest possible security. The DCP1000 also contains an RS232 port for 3rd party control(cameras, projectors, etc.) and uses the Ethernet port for either the control and programming of the Senator system, or as the interface to provide VoIP and SIP functionality if the optional AEC-Card is installed into DCP1000. The USB port on the front of DCP1000 provides the ability to record a whole conference. The system will automatically create time stamped recordings in MP3 format. Up to 6 channels of simultaneous translation are integrated into the system. The PC/Laptop based Senator Designer suite software will enable the user to program and control the entire system configuration and any DSP parameter adjustment. The Senator system provides 5 different conferencing modes(FIFS, FIFO, Priority, Delegate Request RQ and Chairman Mode).

### FEATURES

- Up to 504 delegate units and 64 DCA660 amplifier can be connected to a single DCP1000
- Up to 32 DCP1000 can be connected via the 64 Ch. Xavnet digital audio network
- Each connected delegate unit will be processed individually and all parameters will be stored in the DCP1000
- Enhanced DSP functions such as 8 Band PEQ, AGC, Feedback Suppressor, Gain Sharing Auto Mixer and Voice Activated Gate
- Optional AEC-Card(Acoustical Echo Cancellation) can be installed in the DCP1000, enabling SIP and VoIP for distance and web conferencing
- Special features like Auto-Mix-Minus Calibration, USB recording, 6Ch. simultaneous translation on board
- Ease of use and setup with auto network deploy and special drag 'n' drop functions with the Senator Designer software

