

Conference Unit

The conference unit shall provide fully digital audio transmission for the DIS DCS 6000 Digital Conference System. The unit shall be a flush mounted and operational as a delegate unit, with a chip card reader, and voting functionality. It shall feature a microphone button, five voting buttons, a headphone jack, a loudspeaker and a lockable XLR microphone connector. The unit shall support a maximum of 3800 conference units per system.

The unit shall connect to the DCS-LAN in a daisy-chain topology using shielded CAT 5e (or higher) F/UTP, or U/FTP cables. The DCS-LAN protocol shall transport power, audio, and control data across a chain of discussion units including a proprietary codec algorithm to prevent unauthorized listening to the audio signal. .

The conference unit shall provide voting buttons for attendance check, and 3-button or 5-button voting sessions. The attendance checks and voting sessions shall start from the SW 6000 or a DC 6990P conference unit. Chip card login shall restrict conference unit access. The SW 6000 shall enable chip card login.

The conference unit shall provide connection for the GM 652x and GM 6628 gooseneck microphones, or the BM 6620 boundary microphone. The conference unit BM 6620 boundary microphone shall be retrofitted by replacing the XLR insert in the plastic adaptor with the boundary microphone. The Molex mini-connector shall fit with the microphone connector on the PCB.

The microphone button shall enable the user to activate/deactivate the microphone directly or by a *request to speak*. A button LED shall indicate if the microphone is on (red LED), or in *request to speak* mode (green LED). The conference unit shall provide support for four microphone operation modes: Automatic, FIFO, Manual and VOX (voice activation). The unit shall support three microphone interrupt modes.

The microphones shall have a lock that is accessible from a small hole beside the XLR socket, and locked with a 2 mm hex key. The hex key shall be turned clockwise to lock and insert the gooseneck microphone into the XLR socket, and counter clockwise to disable the lock and remove the gooseneck microphone from the unit.

The unit shall provide a 3.5 mm female stereo headphone socket for DH 6021 stereo headphones or equivalent. The conference unit shall feature two DCS-LAN (RJ45) female sockets (loop-through) with auto termination, and an audio connector for the loudspeaker. When the microphone is not on, the floor channel shall be distributed through the built-in loudspeaker. The conference unit shall have a headphone frequency response of 65 Hz-16 kHz, and a loudspeaker frequency response of 150 Hz-15 kHz.

The conference unit shall measure 90 mm in height, 235 mm in width and 62.6 mm in depth. The panel cut-out shall measure 82 in height, 215 mm in width. The unit shall be made of black anodized aluminum and weight 900 grams with an operating temperature range of 5° to 40°C.

The conference unit shall be a Shure model DM 6620F.