

## Discussion Unit Architect and Engineer Specifications

The discussion unit shall be a fully digital portable discussion unit for the DDS 5900 Digital Discussion System. The unit shall have a compact design that integrates into the conference environment, and allows minimal impact to the surface. The unit shall be configurable as a chairman, delegate or interpreter station.

The unit shall connect to the DDS 5900 System by using the proprietary DCS-LAN protocol in a daisy-chain topology, using shielded CAT 5e cables. The DCS-LAN protocol shall transport power, audio and control data across a chain of discussion units, including a codec algorithm to prevent unauthorized listening to the audio signal.

The discussion unit shall provide a channel selector that supports floor channel and two interpretation channels. The unit shall provide two 3.5 mm female stereo headphone sockets for DH 6021 stereo headphones or equivalent. The total harmonic distortion (THD) shall be <0.1%, and the signal-to-noise ratio shall be > 90 dBA.

The unit shall provide button overlays for chairman, delegate and interpreter configurations. The discussion unit shall be reconfigured by activating a combination of buttons for ten seconds to switch modes. When the unit is configured, the LEDs shall flash and the unit reboots. The configuration shall persist in the unit after a power cycle.

The discussion unit shall include one high quality loudspeaker. The unit shall feature two DCS-LAN (RJ45) female sockets (loop-through) with auto termination, and an audio connector for the loudspeaker. The loudspeaker frequency range shall be 150 Hz to 15 kHz, and the power maximum shall be 2.1 W RMS. The headphone frequency response shall be 65 Hz to 16 kHz. The power consumption shall be 1.5W.

The discussion unit shall provide connection for the GM 59xx and GM 6xxx gooseneck microphones that connect to the lockable XLR socket. The lock shall be accessible from a small hole beside the XLR socket. A 1.5 mm hex key shall be used to turn the hex key counter clockwise to lock the gooseneck microphone, and clockwise to unlock the gooseneck microphone from the unit.

The discussion unit shall run in four microphone operation modes: Automatic, FIFO, Manual and VOX (voice activation). The microphones shall have an *Auto-Off* feature, and a *Speak* and function (a delegate Off/Mute) button. The unit shall support a delegate interrupt mode.

The discussion unit shall measure 71 mm in height, 128 mm in width and 146 mm in depth. The unit shall weigh 500 grams. The operating temperature range of the unit shall be 5° to 40°C.

The discussion unit shall be a DIS model DC 5980 P.