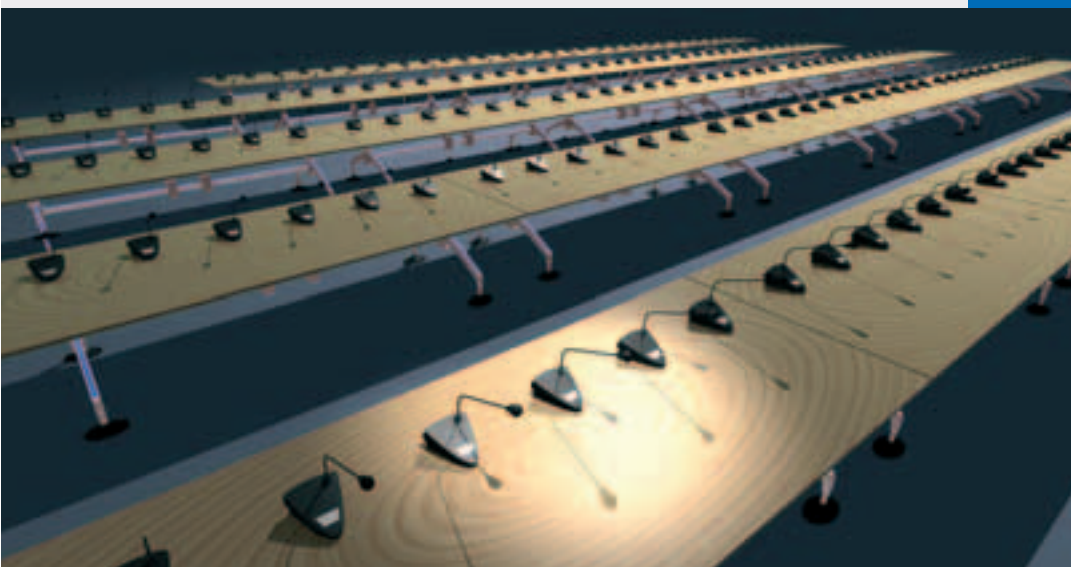


# CCS 800 Ultra discussion system with up to 150 microphones



Security Systems



## COST-EFFECTIVE SYSTEM EXTENSION

Meeting the need to use the CCS 800 Ultra Discussion System in larger meeting and conference situations, a cost-effective solution is available to extend the system up to a maximum of 150 microphones. This solution is based on the use of 1 or 2 additional CPSUs (Central Power Supply Units) connected to the system's original or master CPSU. System control and I/O functions continue to be handled by the master CPSU. The extra (power slave) CPSUs act as precisely regulated power supplies for the additional microphone units.

Each CPSU powers up to 50 pieces CCS 800 Ultra microphone units, connected in two 'daisy chains' of 25 units each. An external audio processing unit can be connected to compensate for room acoustics by equalizing the audio signals between microphones and loudspeakers. The CPSU interconnection cable assembly is prepared locally by the installer using made-to-measure cabling.

- **Allows use of CCS 800 Ultra system for larger meetings**
- **Up to 150 microphone units possible**
- **Uses 1 or 2 extra CPSUs (Central Power Supply Units)**
- **Each CPSU powers up to 2 x 25 microphone units**
- **System cabling made-to-measure by installer**
- **Cable length  $\leq$  100 m (328 ft) per group of 25 microphones**

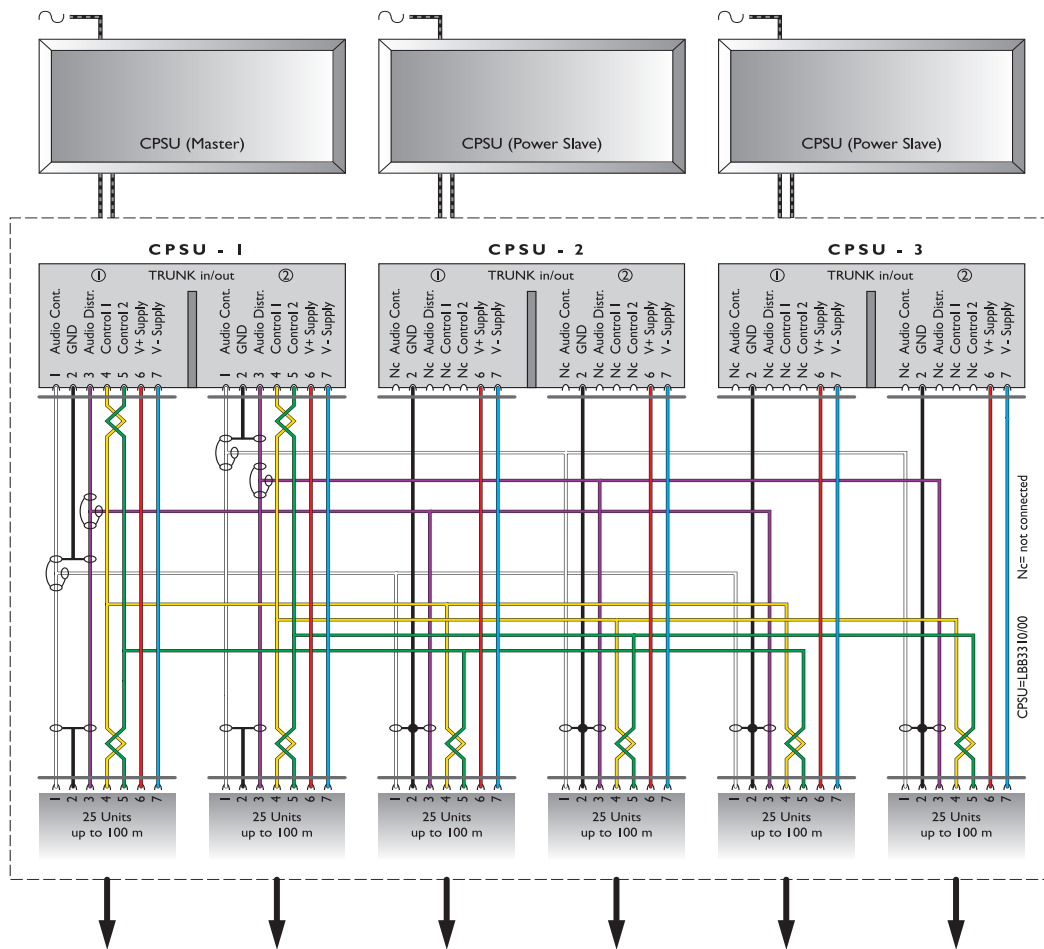
**MADE-TO-MEASURE SYSTEM CABLING**

Connection of 1 or 2 extra CPSUs for up to 100 or up to 150 microphone units, respectively, is according to the block and cabling diagram (Fig. 1). As the diagram shows, the master CPSU handles the control, mode selection and I/O functions. Only the power and ground connections of the extra 1 or 2 CPSUs are used. It is advisable to install the extra CPSUs out of sight because the control and I/O functions of these units are not

used. The CPSU operator should be instructed that the control and I/O functions of the extra CPSU units are not available.

Covering the needs of larger installations, total cable lengths may be up to 100 m (328 ft.) for each 'chain' of 25 microphones. This includes the fixed 2 meter (6.5 ft.) delegate unit cable. It is recommended that only the shielded CCS 800 Ultra system cable LBB 3316 is used for correct performance and noise immunity.

**BLOCK AND CABLING DIAGRAM FOR EXTENDED CCS 800 ULTRO DISCUSSION SYSTEM**



**Note:** minor changes in audio signal and signal-to-noise levels may occur when using a maximum CCS 800 Ultra system configuration with three CPSUs (more than 50 microphones). However these changes will have no significant effect on perceived system performance under normal

operational conditions. To ensure stable test mode operation, maximum ambient temperature must not exceed 35°C (93°F) when using a maximum system configuration.

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