The Close Talk Conference System

The *Close Talk Conference System* is a wire-less discussion system based on Infra-Red light transmission which ensures easy installation, superior reliability and security.

The basic system components are the *Delegate Unit* which is the microphone unit used by the conference participants, the *Central Unit* that controls the system functionality, the *Transceiver Unit* which is the Infra-Red transmitter and receiver unit and the *Split Box* which is used as a signal distributor for easy installation.

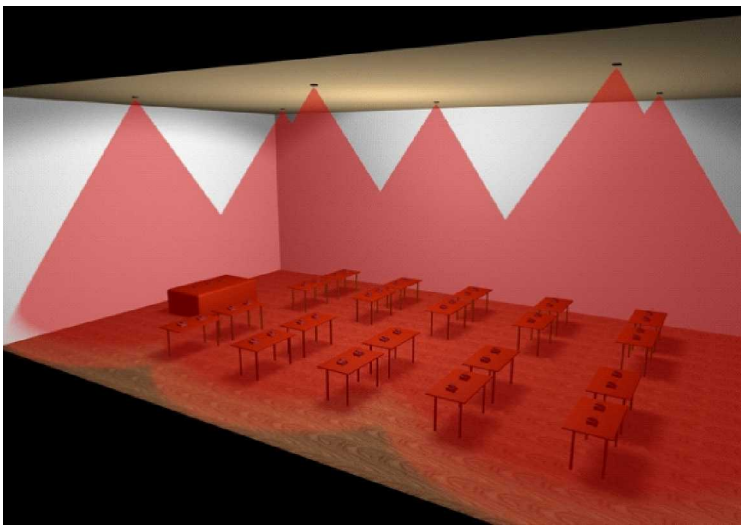

Fig. 1: Transceiver Units positioned in the ceiling

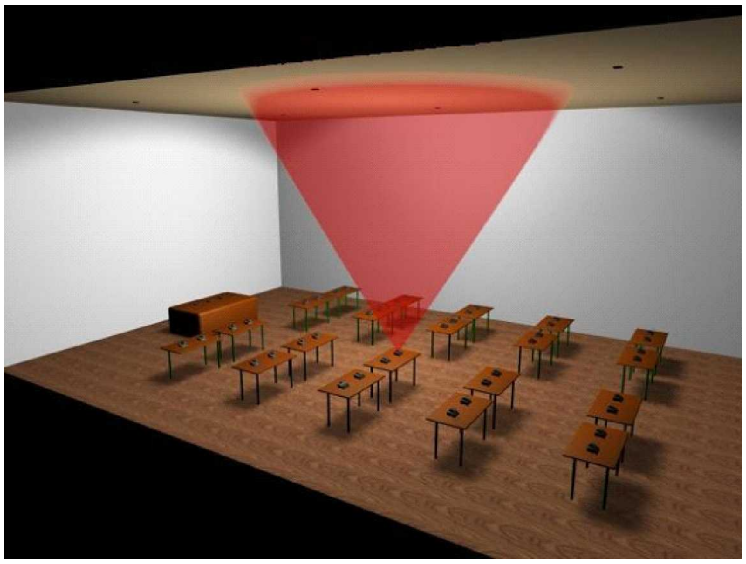

Fig. 2: Delegate Units transmits in the opposite direction

The system has a total of six channels, four audio and two data where the Central Unit receives up to three audio and one data and transmits one audio and one data. The transceiver units acts as Infra-Red antennas and are positioned face down on the ceiling. Directly below are the delegate units that receives the outgoing audio and data channel. When a user wants to speak he presses the microphone activation button and if there is a free audio channel, the microphone will be activated in less than a second, if not, the unit is placed in an automatic speaking list. The microphone will remain active until the user releases it by pressing the button again. A maximum of three microphones can be active at the same time. The transceiver- and delegate unit transmits Infra-Red light in a cone-shaped form where the transmission effective surface area increases with height up to a limit at about seven metres (see unit data sheets for actual data). Several transceiver units are used in a grid pattern to provide operation for the required area.

Several types of transceiver units are available, both for surface and flush mounting. The transceivers are connected to the Central Unit using Cat. 6, S-STP grade RJ-45 cables for easy installation. While the central unit can accept up to eight directly connected transceiver units, the split box can be used to expand that number. Another important use for the split box is to reduce the cable lengths in an installation, running a lot of cables from a ceiling down to a technical room, where the central unit is usually placed, is impractical and expensive. The split box is placed as close to the transceiver units as possible, reducing the number of cables needed for the central

Introduction

The central unit is a microprocessor based control unit for the system. It provides the basic conference system functionality such as audio channel management, speaker list and chairman override without operator assistance. In addition it has an extensive set of audio in- and out connections, microphone insert, HF infrastructure connectors and RS-232 serial port. A clean and easy-to-use front panel makes it very simple to access the settings. The unit functionality can easily be upgraded on the field via firmware upgrade. The unit also has an extensive control command set via RS-232 for system testing and remote controlling applications.

Central Unit

Close Talk Control is a powerful PC software that via the RS-232 port expands the system dramatically to provide the tools for professional conferencing including voting, speaker lists, advanced database technology and camera follow, all packaged in an easily learned user interface.

Close Talk Control

Transceiver Unit

Split Box

Delegate Unit

The delegate unit has an elegant case design suitable for all environments and is very easy to use, only two buttons to operate. Battery operated with built-in speaker, several microphone alternatives and headphones output. Battery operating time is typically over twenty hours of listen-only, over eight hours of speaking. No special charging arrangements, continuous charging supported without degrading the battery. Battery is of industry standard type and can easily be replaced in the field. Setting up a system is very easy for the end-customer, simply turn the central unit on, place the delegate units in the room, turn them on and start using the system. Chairman priority functionality includes speaking channel guarantee and control in several manners to fit all meeting cultures. *Close Talk Conference System* is equally suitable as a ten delegate teleconferencing system as a full 100+ large conference room installation.