

## Digital Transmitter

The digital transmitter shall be the central modulator unit in the DIS digital infrared system. It accepts analog audio from central units, from audio output units, or other audio sources. The digital transmitter shall modulate these signals onto high frequency carrier waves. It shall provide fully digital audio transmission for the DIS DCS 6000 Digital Conference System and the DDS 5900 system.

The digital infrared system shall be for conference centers, international organizations, universities, or any place where simultaneous interpretations is required. It shall also provide perfect quality, wireless multi-track audio in other situations where multi-lingual sound is needed (i.e., in museums or cinemas).

To provide wireless digital language distribution to digital receivers, the digital carrier waves shall be transmitted directly to the digital infrared radiators located in a room. Up to 180 radiators shall be connectable to the digital transmitter.

The digital infrared system shall transmit audio in four different quality modes:

- Mono, standard quality, maximum 32 channels
- Mono, premium quality, maximum 16 channels
- Stereo, standard quality, maximum 16 channels
- Stereo, premium quality, maximum 8 channels

The standard quality mode shall use less bandwidth, and shall be used for transmitting speech. For music, the premium quality mode shall provide near CD quality.

The digital transmitter shall provide automatic distribution of emergency messages to all channels, to a maximum of 8 or 32 channels/languages. The unit shall provide flexible configuration of channels and channel quality modes for efficient distribution.

It shall include a test mode to verify transmission quality for each input channel, as well as a built-in mini infra-red radiator for audio monitoring at the unit without having to walk the conference space.

Each digital transmitter shall be assigned a unique name for easy identification in a multi-transmitter system, and each audio channel shall be assigned a unique name. The names shall be selected from a list of options or entered manually.

When used in multiple room configurations the unit shall provide a slave mode for distribution of signals from another transmitter.

The digital transmitter shall measure 87 mm in height, 425 mm in width (483 with mounting brackets) and 317 mm in depth (357 with mounting brackets). The unit shall weigh 4 kg including the supplied mounting brackets, with a temperature range of 5° to -40° C (35-80% humidity).

The digital transmitter shall be a DIS DT 6008/6032.