

# DCS 6000 Digital Conference System Digital Infrared Digital Transmitter

## DT 6008

## DT 6032



The DT 60xx Digital Transmitter is the central modulator unit in the DIS digital infrared system. It accepts audio from the AO 6008 Audio Output Unit, as well as audio from the CI 9005 Conference Interpretation Transmitter or other audio sources. The DT 60xx modulates these signals onto carrier waves. These digital carrier waves are transmitted directly to the RA 60xx Digital Infrared Radiators - located in the room - for wireless digital language distribution to the DR 60xx Digital Receivers.

The DIS Digital IR system is the perfect choice for conference centres, international organizations, universities, or any place where simultaneous interpretations is required. But it can also provide perfect quality, wireless multi-track audio in other situations where multi-lingual sound is needed i.e. in museums or cinemas.

The DIS Digital IR system can 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 uses less bandwidth and can be used for transmitting speech. For music the premium quality mode gives near CD quality.

#### The DT 6008/6032 features:

- Capable of distributing a maximum of 8 or 32 channels/languages
- Can be used with both the DCS 6000 and the CIE 9000 systems
- Automatic distribution of emergency messages to all channels
- Auxiliary mode for distribution of music

to all channels during a break

- Flexible configuration of channels and channel quality modes for efficient distribution
- Adjustable sensitivity for each input to enable fine tuning of audio levels
- Test mode which produces a different frequency tone for each input/channel, with the tone gradually rising as the channels are stepped through
- Slave mode for distribution of signals from another transmitter allows multiple rooms to be used
- Built-in mini infra-red radiator for audio monitoring
- Radiator and system status indication via display
- Configuration of transmitter and system via a display and one single rotary push button
- Each transmitter can be assigned a unique name for easy identification in a multi-transmitter system
- Each audio channel can be assigned a unique name. These names can be selected from a list of options or entered manually
- Automatic standby/on function
- Automatic synchronization to the number of channels in use in the DCS 6000 system
- 19" housing for table top use or rack mounting
- Handgrips for easy transportation
- 19" rack mounting brackets, detachable feet and mounting accessories for modules included

The DT 6008/6032 features multiple channel settings. Each individual channel can be set to any of the 8 or 32 channels.

*The DCS 6000 system conforms to all relevant standards for conference electronics.*

## How to order

Digital Infrared:	Order no:	Digital Infrared:	Order no:
DT 6008 Digital Transmitter	13 11 05858	DR 6004 Digital Receiver	14 10 58731
DT 6032 Digital Transmitter	13 11 05860	DR 6008 Digital Receiver	14 10 58741
RA 6013 Infrared Radiator	14 09 05494	DR 6032 Digital Receiver	14 10 58771
RA 6025 Infrared Radiator	14 09 05495		

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## Specifications

### Controls:

2 x 16 character LCD display for status information and transmitter configuration  
Rotary push button for navigation through menus and configuration  
Power on/off switch on front panel

### Connectors:

Male Euro socket for mains connection  
8 or 32 RCA-phono connectors for input of asymmetrical audio signals  
Two XLR sockets for input of symmetrical signals of floor, emergency messages or music  
One terminal block socket for distribution of emergency messages to all channels  
3.5 mm stereo headphone socket for monitoring inputs and channels  
One BNC connector for accepting an HF signal from another transmitter  
Six BNC connectors for output of HF signal to up to 30 radiators

### General:

Power consumption: Max. 55 W  
Power consumption (standby): 29 W  
Mains voltage: 100 - 240V, 50 - 60 Hz  
Temperature to guarantee specified performance: 5°-40° C (35-80% humidity)  
Storage temp.: -20°- 60° C (10-80% humidity)  
Weight: 4 kg with mounting brackets  
Dimensions (W x H x D): 425 (483) x 87 x 317 (357) mm  
(dimensions in brackets are incl. the 19" mounting brackets)

### Electrical Characteristics:

Asymmetrical audio inputs: -6 to +6 dBV nominal  
Symmetrical audio inputs: +6 to +18 dBV nominal  
Emergency switch connector: emergency control input  
Headphone impedance: 32 Ohm to 2 kOhm  
HF input: Nominal 1Vpp, min. 10 mVpp, 75 Ohm  
HF output: 1 Vpp, 6 VDC, 75 Ohm

### System Audio Performance:

Measured from the audio input of an DT 6000 Digital Transmitter to the headphone output of an DR 60xx Digital Receiver  
Audio frequency response:  
20 Hz to 10 kHz (-3 dB) at Standard Quality  
20 Hz to 20 kHz (-3 dB) at Premium Quality  
Total harmonic distortion at 1 kHz: < 0.05 %  
Crosstalk attenuation at 1 kHz: > 80 dB  
Dynamic range: > 80 dB  
Weighted signal-to-noise ratio: > 80 dB(A)

Please refer to Data Sheet for CU 6010 for specifications of the DCS 6000 system.

The DIS Digital Infrared System fully complies with the IEC 61603-PART7, which is the industry standard for digital infrared transmission in the 2 to 6 MHz frequency band.

Data subject to change without notice in interest of product improvements.