DT 6008/6032 Digital Transmitter

- Distributes up to 8 or 32 audio channels
- Connection for up to 180 RA 6013 or RA 6025 Infrared radiators
- Built-in mini radiator for audio monitoring

Description

The DT 60xx Digital Transmitter is the central modulator unit in the DIS digital infra-red system. The system allows participants to listen on headphones to the conference in a variety of languages. Audio is transmitted wirelessly to the receiver, where each individual can select the channel and adjust the volume to the headphones. The system is useful in a variety of installations, such as multipurpose halls, hotels, or conference centers.

The DT 60xx Digital Transmitter accepts audio from CU 5905/6105/6110 Central Units, the AO 6004/6008 Audio Output Units or other audio sources, and modulates these signals onto RF carrier frequencies between 2-8 MHz. These carriers are then transmitted to the RA 60xx Digital Infrared Radiators for line-of-sight wireless digital language distribution to the DR 60xx Digital Receivers.

DT 60xx is available in two model variations:

Model Name	Number of Channels
DT 6008	8
DT 6032	32

The DIS Digital IR system can transmit audio in four modes. The standard quality mode uses less bandwidth and can be used for transmitting speech. For music, the premium quality mode provides near-CD quality.

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

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Features

- Distributes audio channels for wireless monitoring of interpretation or the floor mix
- Flexible configuration of channels and channel quality modes for efficient distribution
- Can be used with both the DCS 6000 and the DDS 5900 systems
- Automatic distribution of emergency messages to all channels
- Auxiliary mode for distribution of music to all channels during a break
- Adjustable sensitivity for each input to enable fine tuning of audio levels
- Test mode for verifying proper connection for each channel
- 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 using a single display and a rotary push button
- 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
- 19" housing for table top use or rack mounting
- Hand grips 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.

Specifications

Electrical

Audio Frequency Response	Premium Quality: 20 Hz to 10 kHz (-3 dB) Standard Quality: 20 Hz to 20 kHz (-3 dB)
Dynamic Range	>80 dB
Total Harmonic Distortion	<0.05% @ 1kHz
Crosstalk Attenuation	>80 dB @ 1kHz
Signal-to-Noise Ratio	>80 dB, A-weighted
Audio Input Level	Balanced: -6 to +6 dBV Unbalanced: +6 to +18 dBV nominal
Impedance (headphones)	32 Ω to 2 kΩ
HF Input	Nominal 1Vpp, minimal 10 mVpp, 75 Ω
HF Output	1 Vpp, 6 VDC, 75 Ω
Mains Voltage	100 to 240 V, 50 to 60 Hz
Power Consumption	operation: 55 W maximum standby: 29 W

Interconnections

Audio Input	DT 6008: 8x RCA unbalanced; 1 XLR balanced DT 6032: 32x RCA unbalanced; 1 XLR balanced
Emergency Input	1x XLR with terminal block connector
Headphone Input	3.5 mm (1/8") stereo
Antenna Input (from another transmitter)	1x BNC; 75 Ω
Antenna Output (to radiators)	6x BNC; 75

Mechanical

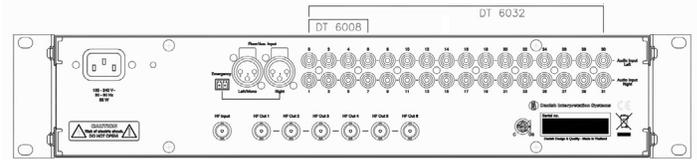|	
LCD	2 x 16 character
Mounting	2 RU
Controls	Rotary push-button
Dimensions (W x H x D)	483 x 87 x 357 mm (with brackets)
Color	Grey and black
Weight	4 kg (with mounting brackets)
Temperature range	Operation: 5° to 40° C (35 to 80% humidity) Storage: -20° to 60° C (10 to 80% humidity)

Certifications

The DCS 6000 system conforms to standard IEC 60914. The DIS Digital Infrared System fully complies with the IEC 61603-PART7, which is the industry standard for digital infra-red transmission in the 2 to 6 MHz frequency band.

How To Order

8-channel digital IR transmitter	**DT 6008**
32-channel digital IR transmitter	**DT 6032**
XLR to RCA phono cable	**EC 6105-01**

Drawing