

DWS TGS 20

Digi-Wave™ Tour Guide System 20



One- and two-way, wireless tour guide systems in the 2.4 GHz band. Enhance communication between tour guide and tour group members. Help overcome background noise and distance from the tour guide. These systems can be used in factories, museums, tourist attractions or bus tours.

Digi-Wave Tour Guide System 20 (DWS TGS 20) is a one-way system, designed for tour groups of up to 20 members. Group members have listen-only capabilities.

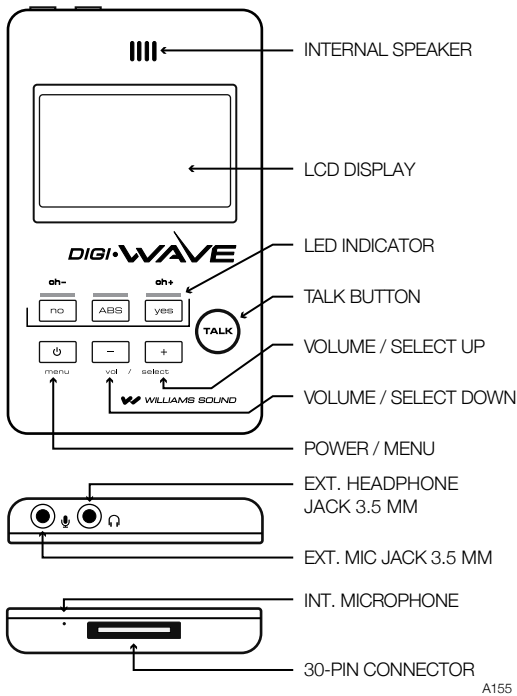
System includes:

- (1) DLT-100 transceiver
- (20) DLR 50 receivers
- (1) MIC 044 2P headset microphone
- (20) EAR 022 earphones
- (1) CCS 044 silicone skin
- (1) CCS 030 DW 16 system carry case

*Each DLT-100 is packaged with an individual charger.

Digi-Wave™ Tour Guide System 20

DLT-100



Dimensions	103 x 62 x 11mm (4.1 x 2.4 x 0.4 inches)
Weight	80g (2.8oz) including battery
Color	Black and silver
Enclosure	Shatter resistant PC/ABS plastic
Battery type	Li Polymer with smart charge built into transceiver
Battery life	Up to 14hrs talk time per charge
Charge time	5hrs. TFP 045 with cable and international adapters Optional two-bay charger CHG 102
Channels	Up to 15 simultaneous channels (Interpretation mode) Up to 4 simultaneous groups (2 way mode)
Operating frequencies	2.4GHz (ISM band) 2.402 – 2.476GHz FHSS
Frequency response	150 – 11KHz
S/N ratio	69dB (A weighted)
THD	0.33 %
Microphone input	Internal microphone (disabled when MIC jack engaged) and 3.5mm stereo jack (tip/sleeve) with electret microphone bias, adjustable gain with 63dB range.
Audio output	Max SSPL 90 111.8dB (EAR 013), 116.8dB (EAR 041) Internal speaker (disabled when ear jack engaged) 16mW @ 33Ω
Range	Up to 100ft outdoors and 200ft indoors*
Modulation	GFSK, binary CDMA
RF output	14dBm Max
Security code	87 bit encryption
Controls	Front panel push buttons for volume up/down, group select, menu access and selection, voting, timer, time, MIC on/off, power on/off, tone control SLOC access and Secure Key access. System reset button (rear panel)
Output	3.5mm stereo/mono jack 30 pin charging jack with audio out to base stations
Side tone	-12dB below volume
Speaker	Internal speaker (disabled when ear jack is engaged)
Indicators	LCD (Group, channel, volume level, battery status, mode, signal strength)
LED's	(charge status, voting) Red LED around talk button when enabled. Amber LED signifying voting feature activated.
Maximum presenters	Two presenters at any given time
Approvals	FCC, Industrie Canada, CE, C-tick, RoHS, WEEE
Warranty	2 years parts and labor (90 days on accessories)

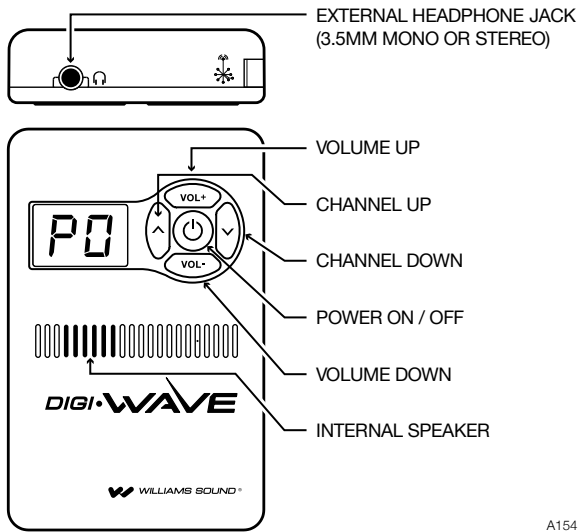
*Depending on environmental conditions

***DISCLAIMER: FCC RULES LIMIT USE OF THIS EQUIPMENT TO AUDITORY ASSISTANCE**

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

Digi-Wave™ Tour Guide System 20

DLR 50



Frequency Band	2.4GHz (ISM band)
Modulation	GFSK digital transmission
Range	Up to 100 ft outside, Up to 200 ft inside
Multi Channel	Up to 15 simultaneous channels (one way mode)
Maximum presenters	Two presenters at any given time (two way mode)
Battery life	Up to 24 hrs – alkaline
Battery type	2 x AAA
Frequency response	150 – 11Khz
S/N ratio	65dB (A weighted)
THD	0.45%
Dimensions	85 x 55 x 16mm

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Architectural and Engineering Specifications

DLT-100

The DLT-100 shall be a digital transceiver operating on the 2.4GHz ISM band utilizing GFSK modulation with patented frequency-hopping software to reduce interference potential. It shall be housed in plastic enclosure, have an internal rechargeable Lithium Polymer battery with smart charge built into the transceiver and an LCD on the front panel displaying signal strength, battery level, mode and time. It shall have a built-in microphone and speaker for users opting not to use a headset.

The DLT-100 shall have a battery life up to 14 hrs per charge and take approximately 5 hrs to reach full charge. Power will automatically shut off after approximately one minute when not operating with other compatible devices.

The DLT-100 shall operate in one-way or two-way mode (two speakers in a group at any given time) and have a range of up to 200ft in two-way mode indoors and up to 100ft outdoors.

The DLT-100 shall have power, vol +, vol -, talk, CH +, CH -, NO, ABS, YES, buttons.

The DLT-100 shall have an illuminated talk button.

The DLT-100 shall have a menu setup mode via front panel buttons configurable for [1 or 2-way operation], [master or slave operation] and [floor and 14+ language portable interpretation where common floor language is used].

The DLT-100 shall have 3.5mm mono/stereo microphone and headphone jacks, all controls are on the front of the unit and a multi-pin style jack on the bottom provides battery charging access. USB charger compatible with iPod® chargers.

The DLT-100 shall operate 15 simultaneous channels in interpretation mode and 4 simultaneous groups in two-way mode. It shall have a repeater mode to increase the range of the system.

The DLT-100 shall have a 69dB (A weighted) S/N ratio with a frequency response of 150Hz to 11kHz.

The DLT-100 shall have FCC, Industrie Canada, C tick and CE approvals and be RoHS and WEEE compliant.

The DLT-100 shall have a two year parts and labor warranty (90 days on headphones, battery, charger and earphones).

This transceiver shall be the Williams Sound model DLT-100.

DLR 50

The DLR 50 shall be a digital receiver operating on the 2.4GHz ISM band utilizing GFSK modulation. It shall have the ability to communicate with the DLT-100 transceiver. It shall be housed in plastic enclosure 85 x 54 x 16mm and have an LCD on the front panel. The DLR 50 shall have a battery life up to 20 hrs with two AAA Alkaline batteries. Power will automatically shut off after approximately one minute when not operating with other compatible devices. The DLR 50 shall have a range of up to 150 ft in indoors and up to 100ft outdoors. The DLR 50 shall have 3.5mm mono headphone jack with all controls on the front of the unit. The DLR 50 can operate 15 simultaneous channels and shall have a 65 dB (A weighted) S/N ratio with a frequency response 150hz to 11kHz. The DLR 50 shall have FCC , Industrie Canada approvals and be RoHS and WEEE compliant. The DLR 50 shall have a two year parts and labor warranty (90 days on headphones and earphones).

This receiver shall be the Williams Sound Corp. model DLR 50.

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