DIGITAL **SPECIFICATION DATA**

Campus tours · Corporate tours · Sightseeing tours

DWS TTGS 10 2.0
Digi-Wave™ Team Tour Guide System 10

System includes:

(2) DLT 100 20 transceivers*

(10) DLR 60 2.0 receivers

(10) BAT 101-2 AAA alkaline batteries

(2) MIC 044 2P headset microphone

(10) EAR 022 earphones

(1) CHG 102 two-bay charger

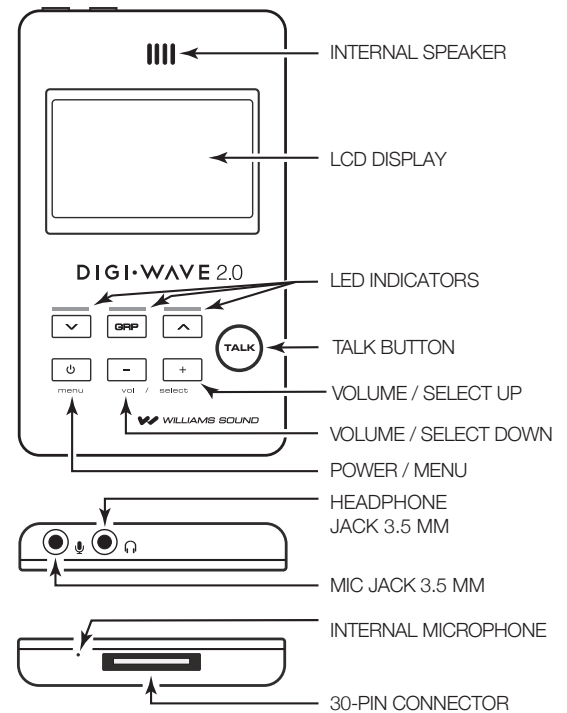(2) CCS 044 silicone skins

(1) CCS 030 DW 16 system carry case

*Each DLT-100 2.0 is packaged with
 an individual charger.

Digi-Wave Team Tour Guide System 10 (DWS TTGS 10 2.0) is a two-presenter, one-way system, designed to allow two or more tour guides to combine skills and guide as a team to a group. Group members have listen-only capabilities.

DLT 100 2.0

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, group change, 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, group) Red LED around talk button when enabled. Amber LED signifying group change 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)

INTERNAL SPEAKER

LCD DISPLAY

DIGI·WAVE 2.0

LED INDICATORS

TALK BUTTON

VOLUME / SELECT UP

VOLUME / SELECT DOWN

POWER / MENU

HEADPHONE
JACK 3.5 MM

MIC JACK 3.5 MM

INTERNAL MICROPHONE

30-PIN CONNECTOR

WILLIAMS SOUND

*Depending on environmental conditions

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

Digi-Wave™ Team Tour Guide System 10

DLR 60 2.0

Dimensions:	2.36" W x 3.54" H x 0.63" D (60 mm x 90 mm x 16 mm)
Weight:	1.7 oz. (47g) without batteries.
Frequency Band:	2.4 GHz (ISM band)
Modulation:	GFSK digital transmission
Range:	Up to 100 ft outside, Up to 200 ft inside (depending upon environmental conditions)
Multi Channel:	Up to 15 simultaneous channels (one way mode)
Case Material:	Black ABS Plastic
Battery Life:	Alkaline Disposable (BAT 010-2): Up to 27 hrs NiMH Rechargeable (BAT 022-2): Up to 21 hrs
Battery Type:	2 x AAA Alkaline or NiMH
Power Save:	Auto Sleep Mode after 5 min of no RF signal
Frequency Response:	100 Hz – 11 kHz
S/N Ratio:	65 dB (A-weighted)
THD:	0.1% (typical)
Antenna:	Internal
Audio Output:	3.5 mm stereo jack with mono output for headphones, earphones, or neckloop 27 mW maximum @33Ω mono
	Back Speaker (muted when headphone jack in use)
Controls:	Power, Volume +/-, Channel +/-, Setup, Battery Type
Display:	LCD shows status: Battery Level, RSSI, Group/Channel#
Indicators:	Red LED - blinks when charging
	Green LED - stays on when charged
Docking Connector:	30-pin connector for charging and audio out
Compatible Transmitter:	DLT 100 2.0, DLT 100
Temp. Range:	32° – 122°F (0° to 50°C)
Chargers:	CHG 102, CHG 1012, TFP 045
Accessories:	Silicone Skin, Lanyard, Wrist Strap
Approvals:	FCC, Industrie Canada, RoHS, CE, WEEE, C-tick
Warranty:	2 years, parts & labor
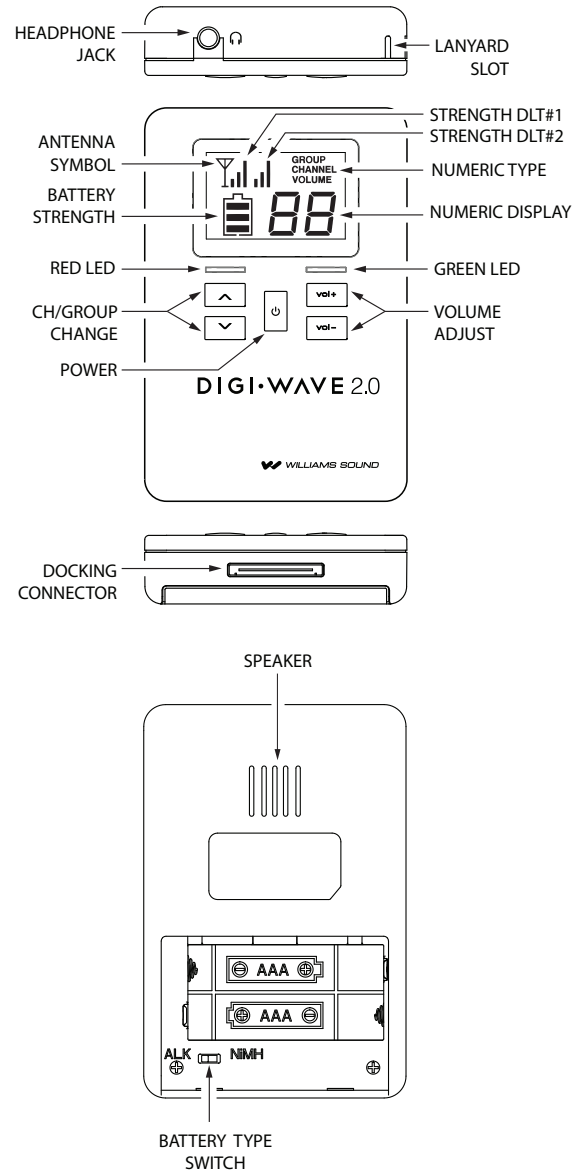
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Architectural and Engineering Specifications

DLT 100 2.0

The transceiver 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 transceiver 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 transceiver 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 transceiver shall have power, vol +, vol -, talk, CH +, CH -, v, GRP, ^, buttons.

The transceiver shall have an illuminated talk button.

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

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

The transceiver 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 2.0.

DLR 60 2.0

The receiver 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 2.0 and DLT 100 transceivers. It shall be housed in plastic enclosure 2.36" W x 3.54" H x 0.63" D (60 x 90 x 16mm) and have an LCD on the front panel. It will have a 30-pin connector supporting audio output and charging capability. It shall support recharging of NiMH batteries when used with Williams Sound compatible chargers or docking station. The receiver shall have a battery life up to 24 hrs with two AAA Alkaline batteries, and up to 20hrs with two NiMH batteries. Power will automatically shut off after approximately one minute when not operating with other compatible devices. The receiver shall have a range of up to 200 ft indoors and up to 100 ft outdoors. The receiver shall have 3.5mm mono/stereo headphone jack with all controls on the front of the unit. The receiver shall operate 15 simultaneous channels and shall have a 65 dB (A weighted) S/N ratio with a frequency response 150 Hz to 11 kHz.

The receiver shall have FCC, CE, C-tick and Industrie Canada approvals and be RoHS and WEEE compliant. The receiver shall have a two year parts and labor warranty (90 days on headphones and earphones).

This receiver shall be the Williams Sound model DLR 60 2.0.

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