

# DWS TGS 10 2.0

Digi-Wave™ Tour Guide System 10



**System includes:**

- (1) DLT 100 2.0 transceiver
  - (10) DLR 60 2.0 receivers
  - (10) BAT 010-2 AAA alkaline batteries
  - (1) MIC 044 2P headset microphone
  - (10) EAR 022 earphones
  - (1) CCS 044 silicone skin
  - (1) CCS 030 DW 16 system carry case
- \*Each DLT 100 2.0 is packaged with an individual charger.

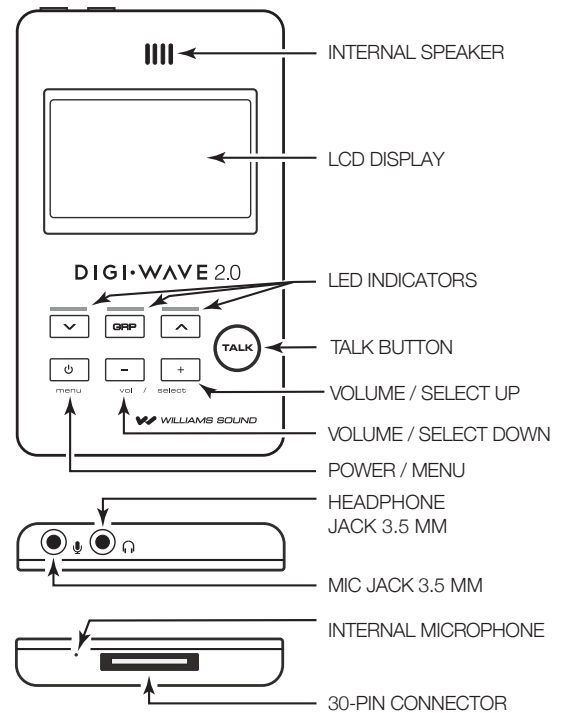
One- and two-way, wireless tour guide systems in the 2.4 GHz band. Enhance communication between tour guide and tour group members. Help overcome background noise and distance from the tour guide. These systems can be used in factories, museums, tourist attractions or bus tours.

Digi-Wave Tour Guide System 10 (DWS TGS 10 2.0) is a one-way system, designed for smaller tour groups of 10 or fewer members. Group members have listen-only capabilities.

# Digi-Wave™ Tour Guide System 10

## DLT 100 2.0

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



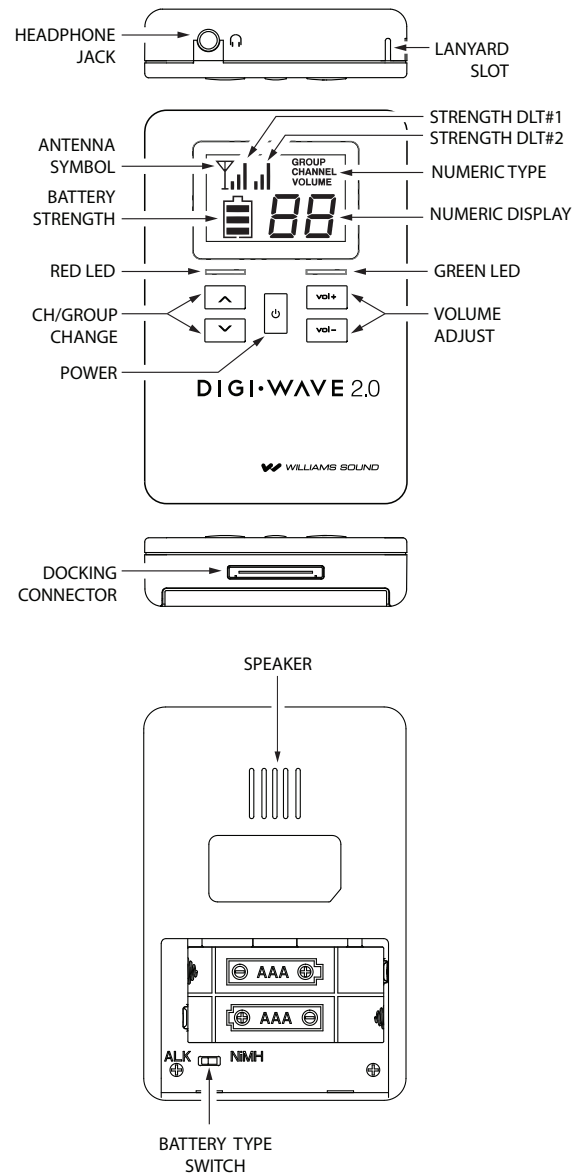
\*Depending on environmental conditions

**NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!**

# Digi-Wave™ Tour Guide System 10

## DLR 60 2.0

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



**NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!**

## 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.

### Domestic Sales

Williams Sound  
10300 Valley View Rd  
Eden Prairie, MN 55344  
Ph: 800-328-6190 / 952-943-2252  
FAX: 952-943-2174  
Email: [info@williamssound.com](mailto:info@williamssound.com)  
Web: [www.williamssound.com](http://www.williamssound.com)

### International Sales

International Sales Department  
Williams Sound  
10300 Valley View Rd  
Eden Prairie, MN 55344 USA  
Phone: +1 952 943 2252  
Fax: +1 952 943 2174  
Email: [info-intl@williamssound.com](mailto:info-intl@williamssound.com)  
Web: [www.williamssound.com](http://www.williamssound.com)



**WILLIAMS SOUND**®  
HELPING PEOPLE HEAR

800.843.3544 / [info@williamssound.com](mailto:info@williamssound.com) / [www.williamssound.com](http://www.williamssound.com)