

Tour Guide · Simultaneous Interpretation · Portable Conference · Wireless Intercom · Team Teaching · Hearing Assistance · Personal Listening · Portable Discussion · Portable Presentation

DLT 300, DLR 360

Digi-Wave™ 300 Series Digital Transceiver and Receiver



DLT 300 Transceiver



DLR 360 Receiver

The **DLT 300 Transceiver** features full-duplex capability, supporting up to four simultaneous talkers in two-way mode, and up to six simultaneous talkers in intercom mode. Slim, lightweight, and simple to set up and use. One- or two-way operation offers flexibility in an array of applications. With the push of a button, users can access two-way communication for immediate interaction or Q&A.

The conveniently rechargeable **DLR 360 Receiver** is for listen-only applications. Simple to set up and use. Features automatic mode selection and shut-off. Large LCD screen displays channel, volume, battery level and RF signal strength. Receives up to two presenters simultaneously during team presentations. Can be used with earphones, headphones, neckloop or built-in speaker. Add any quantity for larger groups. Uses (2) AAA Alkaline or NiMH batteries.

Digi-Wave™ 300 Series Digital Transceiver and Receiver

DLT 300 Digital Transceiver Specifications

Dimensions	4.07"W x 2.43"H x 0.44"D (103.3 mm x 61.8 mm x 11.3 mm)
Weight	2.9 oz (82 g) including battery
Color	Black/Silver (Front/Back)
Case Material	Black ABS plastic
Battery type	Lithium Polymer with smart charge built into transceiver; 2000 mAH
Battery life	Up to 14 hrs talk time per charge Current consumption range: 39 mA @ idle to 94 mA w/1 Ch Tx and 3 Ch Rx
Power Save	Auto Sleep Mode after 5 minutes of no RF signal from compatible devices
Charge time	5 hrs. TFP 045 with cable and international adapters
Optional Chargers	2-bay CHG 102, 12-bay CHG 1012, TFP 045
Simultaneous Channels/Groups/Talkers	Up to 15 simultaneous channels (0-14) (Interpretation mode) Up to 4 simultaneous groups (2 way mode) Up to 4 simultaneous talkers per group (2-way mode) Up to 6 simultaneous talkers per group (2-way Intercom mode)
Operating frequencies	2.4 GHz (ISM band); 2402 – 2476 MHz FHSS
Audio Frequency response (-3dB Knee Level)	Conference Mode, Interpreter Mode: 140 – 11.5 KHz Intercom Mode: 140 – 7.6 KHz
SNR	74 dB (A-weighted, Maximum output)
THD	0.33 %
Microphone input	Internal microphone (disabled when MIC jack engaged) and 3.5 mm phone jack (tip/sleeve) with electret microphone bias, adjustable gain with 63dB range.
Headphone output	3.5 mm phone jack; 33 Ω load
Audio output	Max SSPL 90 111.8dB (EAR 013), 116.8dB (EAR 041) Internal speaker (disabled when haedphone jack in use) <20mW @ 10% THD/RL = 33Ω
Range	Up to 200 ft outdoors and 300 ft indoors (depending upon environmental conditions)
Modulation	FSK
RF output	14 dBm Typical
Security	87 bit encryption, Secure Key Code, Setup Lock (SLOC)
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)
Outputs	3.5 mm stereo/mono headphone jack; 30 pin charging jack with audio out to base stations
Side tone	-12 dB below volume, tone variation [ST:0 = Off, ST:1 = -6 dB, ST:2 = -12 dB]
Indicators	LCD (Group, channel, volume level, battery status, mode, number of people with talk button on)
LED's	(charge status) Red LED around talk button when enabled.
Docking Connector	30-pin Connector for charging and audio in/out
Compatible Receiver	DLR 360 only
Approvals	FCC, Industry Canada, CE, RoHS, WEEE, RCM
Warranty	2 years parts and labor (90 days on accessories); 6 months on internal battery

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Digi-Wave™ 300 Series Digital Transceiver and Receiver

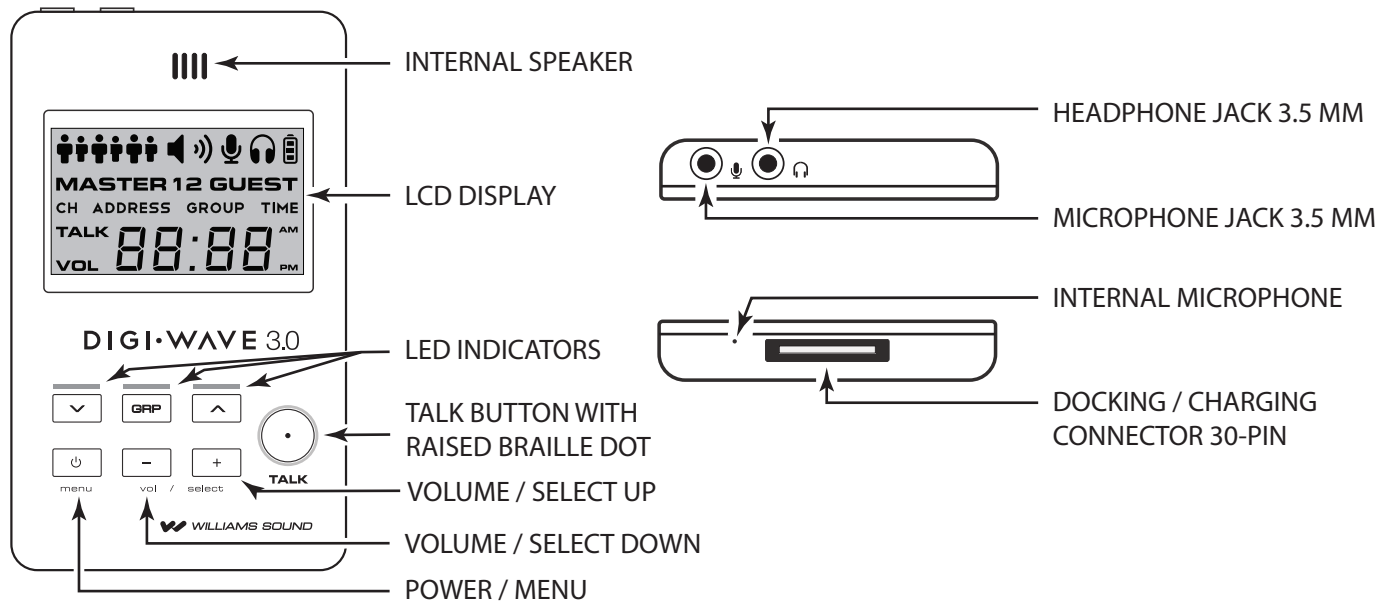
DLR 360 Digital Receiver Specifications

Dimensions:	2.36" W x 3.54" H x 0.63" D (60 mm x 90 mm x 16 mm)
Weight:	1.7 oz. (47 g) without batteries.
Frequency Band:	2.4 GHz (ISM band)
Modulation:	FSK
Multi Channel:	Up to 15 simultaneous channels (one way mode)
Case Material:	Black ABS Plastic
Battery Type:	2 x AAA Alkaline or NiMH
Battery Life:	Alkaline Disposable (BAT 010-2): Up to 24 hrs NiMH Rechargeable (BAT 022-2): Up to 18 hrs
Power Save:	Auto Sleep Mode after 5 minutes of no RF signal from compatible devices
Audio Frequency Response: (-3dB knee level)	Conference Mode: 140 – 11.5 KHz Intercom Mode: 140 – 7.6 KHz
SNR:	65 dB (A-weighted)
THD:	0.1% (typical)
Antenna:	Internal
Headphone Audio Output:	3.5 mm stereo jack with mono output for headphones, earphones, or neckloop 27 mW maximum @33Ω mono Internal Speaker (disabled 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 iPod Style for charging and audio out
Compatible Transmitter:	DLT 300 only
Temp. Range:	32° – 122°F (0° to 50°C)
Optional Chargers:	2-bay CHG 102, 12-bay CHG 1012, TFP 045
Accessories:	Silicone Skin, Lanyard, Wrist Strap
Approvals:	FCC, Industry Canada, RoHS, CE, WEEE, RCM
Warranty:	2 years parts and labor (90 days on accessories)

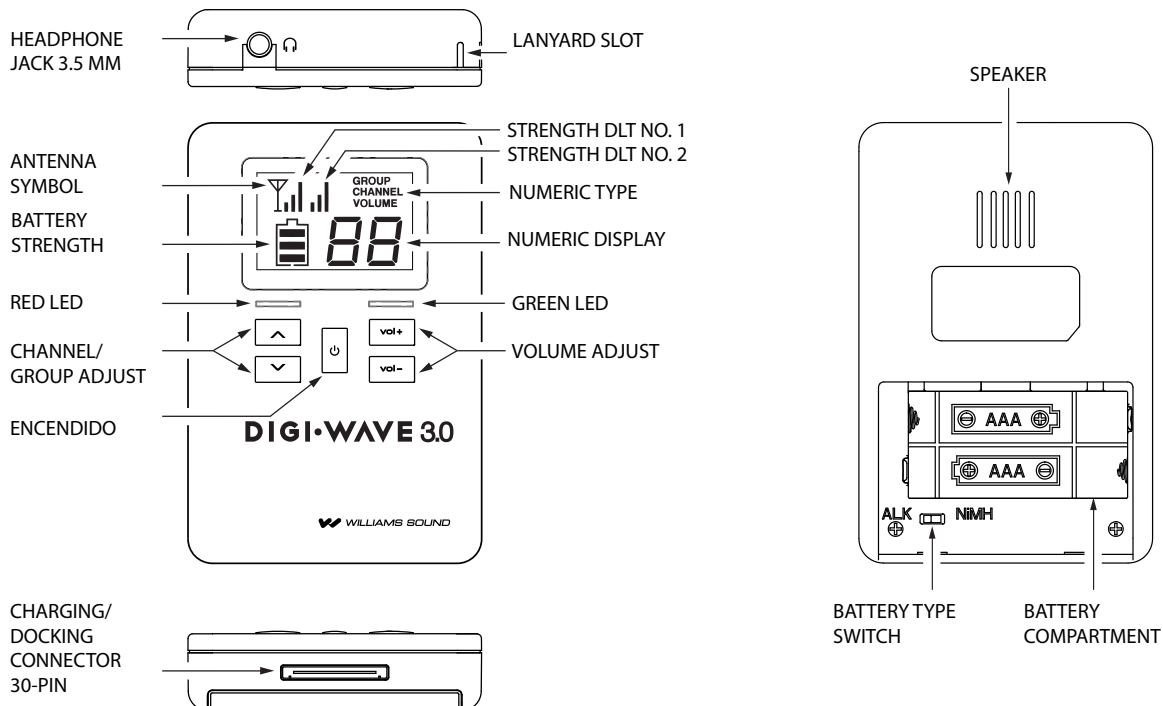
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Digi-Wave™ 300 Series Digital Transceiver and Receiver

DLT 300 Digital Transceiver



DLR 360 Digital Receiver



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Architectural and Engineering Specifications

DLT 300 Digital Transceiver

The transceiver shall be a digital transceiver operating on the 2.4 GHz ISM band utilizing FSK modulation with patented frequency-hopping software to reduce interference potential. It shall be compatible with the DLR 360 Receiver. It shall be housed in plastic enclosure 4.07" H x 2.43" W x 0.44" D (103.3 mm x 61.8 mm x 11.3 mm), have an internal rechargeable Lithium Polymer battery with smart charge built into the transceiver and an LCD on the front panel displaying, battery level, mode, time, channel number, group number, and number of other DLT's with the talk button on (up to 6). 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 five minutes when no RF signal is detected from any compatible devices.

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

The transceiver shall have power, vol +, vol -, talk, CH +, CH -, v, GRP and ^ buttons. It shall have an illuminated talk button with a tactile braille dot.

The transceiver shall have a menu setup mode via front panel buttons configurable for (1 or 2-way operation), (master or guest operation) and (floor + 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.

The transceiver shall operate 15 simultaneous channels in interpretation mode, support 4 simultaneous groups in two-way mode, allow a maximum of 4 simultaneous talkers in 2-way mode, and a maximum of 6 simultaneous talkers in Intercom Mode. It shall have a repeater mode to increase the range of the system.

The transceiver shall have a 74 dB (A weighted) SNR with a frequency response of 140 Hz to 11.5 kHz in Conference and Interpreter Modes and 140 Hz - 7.6 kHz in Intercom Mode.

The transceiver shall have FCC, Industry Canada, CE approvals and be RoHS, WEEE and RCM 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 300.

DLR 360 Digital Receiver

The receiver shall be a digital receiver operating on the 2.4GHz ISM band. It shall have the ability to communicate with the DLT 300 transceiver.

The receiver shall be housed in plastic enclosure 3.54" H x 2.36" W x 0.63" D (90 mm x 60 mm x 16 mm) 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 18 hrs with two NiMH batteries. Its power will automatically shut off after approximately five minutes when no RF signal is detected from any compatible devices.

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 an audio frequency response of 140 Hz to 11.5 kHz in Conference Mode and Interpreter Mode, and 140 Hz - 7.6 kHz in Intercom Mode.

The transceiver shall have power, vol +, vol -, v and ^ buttons.

The transceiver shall have FCC, Industry Canada, CE approvals and be RoHS, WEEE and RCM 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 360.

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