

DIGI-WAVE INTERCOM BRIDGE

DW SY1 & DW SY2



The Digi-Wave Intercom Bridge is ideal for use in event production where full-duplex communication is desired between non-mobile and mobile crew members in the same venue. This wireless add-on bundle offers the seamless expansion of an existing 2-wire intercom base system to include wireless, full-duplex Digi-Wave DLT 300 transceivers from Williams Sound. It supports up to six simultaneous open microphones and an unlimited number of Digi-Wave devices in a given area. Range is up to 750 feet (228 meters), depending on the environment.

System Includes:

- (1) ADP 903 2 to 4 Wire Adapter
- (1) BKT 032 Digi-Wave Transceiver Cradle
- (1) TFP 058 Power Supply
- (1) WCA 127 Interface Cable
- (1) Tuning Screw Driver
- (1) DLT 300 Digi-Wave Transceiver (*optional*)

ADP 903 2 to 4 Wire Adapter

Power requirements	24-30V DC at 15mA from comms system
External input	-60 to +30dBm into 10kΩ nominal, balanced and floating
External output	-60 to +18dBm into 10kΩ nominal, balanced and floating
Connection (4-wire)	via XLR 4 pin male socket
Connection (2-wire intercom ring)	via XLR 3 pin male and female(loop-through)
Controls To Adjust	Mic/Line switches and 10 turn potentiometer to adjust external system input and output levels.
Dimensions	55×93×110mm Weight: 420g
Construction	Black, anodized, extruded case with glass-filled nylon bezels for protection

DLT 300 Digital Transceiver

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 750 ft (229 m) (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, 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.

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.

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