Digi-Wave™ 2.0
DLT 100 2.0 Digital Transceiver and DLR 60 2.0 Digital Receiver

DLT 100 2.0

DLR 60 2.0
# Digi-Wave™

## DLT 100 2.0 Digital Transceiver and DLR 60 2.0 Digital Receiver

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Hearing Safety

⚠️ CAUTION!

This product is designed to amplify sounds to a high volume level which could potentially cause hearing damage if used improperly. To protect your hearing and the hearing of others:

1. Turn the volume down before putting on the earphone or headphone, and then adjust the volume to a comfortable level,
2. Set the volume level at the minimum setting that you need to hear,
3. If you experience feedback (a squealing or howling sound), reduce the volume setting and move the microphone away from the earphone or headphone, and
4. Do not allow children or other unauthorized persons to have access to this product.

Medical Device Safety

⚠️ CAUTION!

1. Before using this product with an implantable or other medical device, consult your physician or the manufacturer of your implantable or other medical device.
2. If you have a pacemaker or other medical device, make sure that you are using this product in accordance with safety guidelines established by your physician or the implantable device manufacturer.

Recycling Instructions

Battery Safety and Disposal
Help Williams Sound protect the environment! Please take time to dispose of your equipment properly. Please do NOT dispose of batteries in the household trash. Please take the batteries to a retail or community collection point for recycling.

Product Recycling:
Please do NOT dispose of your Williams Sound equipment in the household trash. Please take the equipment to an electronics recycling center or return the product to the factory for proper disposal.
System Overview

The Digi-wave™ system is a patented, digital spread-spectrum (DSS), simultaneous two-way wireless listening system operating in the 2.4 GHz band. Due to its frequency-hopping algorithm, it avoids interference and is a very secure method of communication. For a more detailed explanation of how Digi-wave technology works, please visit our website and download the “Digi-wave™ Technology White Paper” (under “Support – Downloads - Tech Bulletins”).

A Digiwave communication system consists of at least one DLT 100 2.0 and various combinations of DLT 100 2.0's and DLR 60 2.0's depending on the venue.

The DLT 100 2.0 is a 2-way transceiver, meaning that it can transmit and receive audio simultaneously. It can operate in one of 3 different modes:

1. In **Two-way Mode**, a speaker (with a DLT 100 2.0) can hear another speaker's voice (from a second DLT 100 2.0) and, at the same time, can also transmit their own voice. In this way, two-way communication is established (similar to a phone conversation). Two-way mode can only be established between DLT 100 2.0 units. In addition, DLR 60 2.0 receivers in the same group can also hear the broadcast.

2. In **One-way Mode**, one DLT 100 2.0 acts as a transmitter (speaker) and another DLT 100 2.0 acts as a receiver (listener). In addition, DLR 60 2.0 receivers in the same group can also hear the broadcast. There are 4 one-way modes.

3. In **Signal Repeater Mode**, the DLT 100 2.0 receives audio from another DLT 100 2.0 and re-broadcasts the signal to increase the transmitted range of the person speaking. In this way, larger groups can be covered by using one or more DLT 100 2.0's acting as repeaters. Listeners can have either DLT 100 2.0's or DLR 60 2.0's to listen to the broadcast.

The DLR 60 2.0 is a receiver only. Users of receivers can only hear what is being broadcast by DLT(s).

Combinations of one or more DLT 100 2.0's and DLR 60 2.0's in One-way mode, Two-way mode, or Repeater mode can be used to facilitate different events, depending on what needs to be spoken and what needs to be heard. Examples of scenarios will be covered here.

**Typical Scenarios include:**

- Guided Tours - with one or more tour guides (2-way), with audience participation (2-way), or without audience participation (1-way)
- Language Interpretation - one or more interpreted languages transmitted to audience (1-way)

Note: there are many more scenarios than are covered in this manual, however these would be variations on the ones discussed here. Rules of Operation for 1-way or 2-way mode must be followed for successful operation.
Getting Started: Preprogrammed Systems

If a system has been purchased, you will not need to perform any programming. The system will have been configured to your order. Turn chairman master on first so other units can pair. Slave units will turn off after 5 minutes if they cannot find a master.

1. Charge all DLT 100 2.0's. If using DLR 60's, either charge them with NiMH batteries or insert fresh Alkaline batteries. Make sure the battery switch is in the correct position for “Alkaline” or “NiMH”. Any DLR 60 2.0's that will be used should have fresh batteries.

2. Identify and turn on the Chairman Master (CM) first, usually identified by a grey silicone cover. Turn on the DLT by holding the power button until the LCD screen comes on. If Chairman Slave (CS) or Slaves are powered up first they will turn off after a few minutes if not paired with the CM. As Chairman Slave and Slaves are paired with the CM the CM and CS will show C-#. The # refers to how many DLT 100 2.0's are paired within the group, i.e. C-12 means that 12 DLT 100 2.0's are paired with the CM or CS within their group. This can be utilized as an attendance checker making sure everyone is connected with the group.

3. Once all the DLT's are on, you can check the set-up status of all units by pressing the power/menu button momentarily to scroll through the settings:

- Chairman Master and Chairman Slave screens will display:
  - C-6 (Chairman plus six = number of participants within the group).
  - ADD Address number (0 – 1023). Each DLT must have its own individual address.
  - Group number (0 – 1023) must be the same number for the group.
  - CODE Only shows if a code has been entered (code number will NOT be displayed).
  - “F-#” Denotes software version.
  - Time Displays the time of day. (Note: F-7 firmware version does not have Time of Day).

- All Slave units will display:
  - Address Number
  - Group Number
  - Secure Key Code (if entered)
  - Software Version
  - Time of Day (Not available on F-7 firmware version)

4. If headsets are to be worn, plug them into the jacks on the top of the DLT's making sure that the Microphone and Earphone plugs are inserted into the correct jacks.

5. The Chairman Master will usually be the first speaker and should press the talk button momentarily to activate the microphone. This will be confirmed by the red LED around the talk button illuminated. If the talk LED is flashing, the talk button was held too long and the talk mute has been activated in the system. Hold the talk button until the LED's stop flashing to deactivate talk mute.

6. The Chairman Slave and all Slave units should now be hearing audio from the CM unit. Listening volume levels can be adjusted by pressing the – or + button. One other DLT can activate the Talk button for team tour or teach applications. A maximum of two talkers can be activated at any one time. For a Slave unit to talk, either the CM or CS will have to turn their talk button off by quickly pressing their talk button.
Before Programming the Digi-Wave™ System

Prior to programming the system, decide what mode you will need, and what priority each DLT will have.

Any two people can talk in a group at any given time. The CM will have first priority, CS has second priority and Slave units have third priority. The CM or CS will have to turn off their talk access to allow the Slave units to talk. When two people are talking in a group the participants can hear both voices in the DLT's or DLR's.

The CM and CS have the ability to lock out other talkers by holding down the TALK button for three seconds. All system TALK LEDs will continuously flash while other participants are locked out of the TALK feature.

1. Decide which mode you need.

A. 2-Way Mode

In 2-way mode, DLTs can hear and talk to each other, just like having a phone conversation or a conference call. DLRs can listen to the conversation. Common applications include: Tours with multiple Tour Guides, Tours with audience participation (Q&A), Wireless Intercomm, Portable Discussion and Personal Communication.

Rules of Operation (2-way mode)

The following rules must be followed. Failure to adhere to these rules will result in unpredictable, unsupported operation.

2-Way

There must be one, and only one Chairman Master (CM) per group.

If the CM unit is off, the Chairman Slave and Slave units will turn off after a few minutes.

Chairman Slave is optional and there can only be one per group.

Each DLT 100 2.0 must have its own address and the address cannot be duplicated within a group.

Maximum two Talkers can operate simultaneously within a group.

Maximum four Groups can operate simultaneously within the same area, but each group must be assigned its own group number.

When using four simultaneous groups, group numbers must be sequential. i.e. 11, 12, 13, 14. Any numbers 0-1023 can be used.

Attendee count will only work with addresses 1-99 (Maximum 100 DLT 100 2.0's with one Master at address 0).

With Secure Key Code active, all DLT 100 2.0's within the group must have the same 4-digit code entered. (DLR 60s/DLR 50s will not work with secured DLTs)

B. 1-WAY MODE(S)

In 1-way mode, DLTs listen to a speaker using a DLT, but they cannot communicate back to that speaker - instead they communicate to DLRs. The most common applications are: Simultaneous Interpretation with one or more interpreters, or Tours without audience participation (no Q&A).

There are (4) 1-way Modes:

1-way - Main Speaker
1-way - Interpreter
1-way - Repeater Mode
1-way - Receive or Listen Only (Not available on firmware version F-7)

Rules of Operation (1-WAY MODES)

The following rules must be followed when setting up any Digi-Wave™ system. Failure to adhere to these rules will result in unpredictable, unsupported operation.

Up to 15 channels can be used simultaneously, i.e. one floor and 14 interpreters.
There must be one Master (usually this is also the floor), and only one, per group.
Each Interpreter must be assigned their own channel number.
Repeater function can only be used in 1-Way mode.
When repeater function is used, all 15 channels can be utilized in one-way mode, i.e. one floor and 14 interpreters.
When repeaters are used, Floor (channel 0) must be assigned as the master unit for the group. All other DLT’s have to be assigned as “SLV”.

2. Decide Speaking Priority for each DLT.
There are 3 levels of priority (see below).

Any two people can talk in a group at any given time. The CM will have first priority, CS has second priority and Slave units have third priority. The CM or CS will have to turn off their talk access to allow the Slave units to talk. When two people are talking in a group the participants can hear both voices in the DLT’s or DLR’s.

The CM and CS have the ability to lock out other talkers by holding down the TALK button for three seconds. All system TALK LEDs will continuously flash while other participants are locked out of the TALK feature. The Chairman Master can override anyone else talking within the group. Chairman Slave has talking priority over Slaves.

Speaker priority is assigned as follows:

1st priority — Chairman Master (CM)

2nd priority — Chairman Slave (CS)

3rd priority — Slave (SLV)

3. Decide what Address(es) you will need.
Each transceiver and receiver must have a unique address. Refer to the “Rules of Operation” to determine how you will address the units.

4. Decide what Group(s) you need.
Refer to the “Rules of Operation” in this section (1. B.) to figure out which groups you need for the mode you have chosen.
Programming the Digi-Wave™ System for 2-way Mode

There are 4 basic steps to programming a Digi-wave system:

1. **Set Mode: 2-way or 1-way**
2. **Set Priority: Chairman Master, Chairman Slave, and Slave**
3. **Set Address**
4. **Set Group Number**

Most of the programming is done on the DLT 100 2.0(s); the receivers just need to be assigned the correct group number. The Chairman Master should be programmed first - all other units synchronize with the Chairman Master.

**Step 1. Set Mode: 2-way**

a. With the DLT 100 2.0 turned on, press and hold the and buttons until the icons on the display begin flashing.
b. Use either of the buttons to scroll through the different icon combinations (modes).
c. When you reach 2-way mode, both icons will be flashing alternately . Go to step 2.

**Step 2. Set Priority: Chairman Master, Chairman Slave, and Slave**

a. Push the button to advance to the priority setting.
b. Use either of the buttons to scroll through the different priorities. Speaker priority is assigned as follows:

   1st priority — Chairman Master (CM) (Must have one per group)
   2nd priority — Chairman Slave (CS) (Optional)
   3rd priority — Slave (SLV) (All other units in the same group)

c. When you reach the priority you want, go to the next step.

**Step 3. Set Address**

a. Push the button to advance to the address setting. “ADD” will flash and the current address will be displayed.
b. Use either of the buttons to change the address.
c. Each unit must have a different (unique) address assigned.

**Step 4. Set Group Number**

a. Push the button to advance to the group setting. “GROUP” will flash and the current group will be displayed.
b. Use either of the buttons to change the group.
c. All units operating together should have the same group number.
Programming the Digi-Wave™ System for 1-way Mode(s)

There are 4 basic steps to programming a Digi-wave system:

1. **Set Mode: 2-way or 1-way**
2. **Set Priority: Chairman Master, Chairman Slave, and Slave**
3. **Set Address**
4. **Set Group Number**

Most of the programming is done on the DLT 100 2.0(s); the receivers just need to be assigned the correct group number. **The Chairman Master should be programmed first - all other units synchronize with the Chairman Master.**

**Step 1. Set Mode: 1-way**

a. With the DLT 100 2.0 turned on, press and hold the \(-\) and \(\uparrow\) buttons until the icons on the display begin flashing.
b. Use either of the the \(-\) and \(+\) buttons to scroll through the different icon combinations (modes).
c. When you reach the 1-way mode you are looking for (below), go to step 2.

1-way - Main Speaker
1-way - Interpreter
1-way - Repeater Mode
1-way - Receive or Listen Only

**Step 2. Set Priority: Master or Slave**

a. Push the \([-\)] button to advance to the priority setting.
b. Use either of the the \(-\) and \(+\) buttons to scroll through the different priorities. Speaker priority is assigned as follows:

1st priority — Master  
(Must have one master per group)
2nd priority — Slave  
(All other units in the group)
c. When you reach the priority you want, go to the next step.

**Step 3. Set Channel**

a. Push the \([-\)] button to advance to the address setting. “CH” will flash and the current address will be displayed.
b. Use either of the the \(-\) and \(+\) buttons to change the address.

**Step 4. Set Group Number**

a. Push the \([-\)] button to advance to the group setting. “GROUP” will flash and the current group will be displayed.
b. Use either of the the \(-\) and \(+\) buttons to change the group.
c. All units operating together should have the same group number.
Programming the Digi-Wave™ System: DLT 100 2.0 Optional Settings

Secure Key Code:
When a group has been set up and the same Secure Code has been entered into all the DLT 100 2.0’s, the DLT 100 2.0’s without this Secure Code entered cannot listen in on the group. This may be desirable in private or high security-level functions.

The same four digit code must be programmed into all of the DLT’s, Chairman Master, Chairman Slave and Slaves. If a different secure code has been entered, participants cannot re-enter the group without re-entering the correct secure code. The only time the Secure Code is displayed is when it is being entered. To block users from entering the set-up mode, refer to the SET-UP LOCK (SLOC) feature (below).

1. Choose a 4 digit numerical code; i.e. 1357. You must use the same code on each DLT in the group.
2. Start with the Chairman Master when programming.
3. With the DLT 100 2.0 turned on, hold the \(\text{\textregistered}\) and \(\text{\textregistered}\) buttons simultaneously for two seconds to enter the set-up menu.
4. Use the menu button \(\text{\textregistered}\) to scroll through the menu pages until you get to the screen displayed in figure 1.
5. The first dash will be blinking (figure 1); using the \(\text{\textregistered}\) button, enter first digit of the code (0 – 9).
6. Press the menu button \(\text{\textregistered}\) again to move to the second dash which will now be blinking.
7. Enter the next digit and continue until all four digits have been entered.
8. One more press of the menu button \(\text{\textregistered}\) and you will see the word CodE displayed (figure 2).
9. With the Secure Key Code entered, exit the set-up menu by holding the \(\text{\textregistered}\) and \(\text{\textregistered}\) buttons simultaneously for two seconds.
10. Follow the same process with the Chairman Slave and Slave units.

NOTE: There will be fewer pages to scroll through on the Chairman Slave and Slave units to get to the code set-up screen.

SET-Up Lock (SLOC)
Set-up Lock enables the Administrator to prevent unauthorized changes to the system set-up.

NOTE: Each DLT 100 2.0 has to be locked and unlocked individually.

1. Press \(\text{\textregistered}\) twice, then \(\text{\textregistered}\) twice (\(\text{\textregistered}\)-\(\text{\textregistered}\)-\(\text{\textregistered}\)-\(\text{\textregistered}\)). This has to be done within 5 seconds. ‘SLOC’ will appear momentarily on the screen (figure 3). SLOC is now enabled.
2. When SLOC is enabled, if a user tries to change any setting by entering the set-up mode, ‘SLOC’ will appear momentarily on the screen. See figure 3.
3. To unlock this feature, the same (\(\text{\textregistered}\)-\(\text{\textregistered}\)-\(\text{\textregistered}\)-\(\text{\textregistered}\)) sequence must be entered. There will be no prompt showing that SLOC was disabled. Accessing the set-up mode is the indication that SLOC is disabled.

NOTE: Each DLT 100 2.0 has to be locked and unlocked individually.

Attendee Checking
When the Master Chairman presses the MENU button once, the number of SLAVE devices connected to the system will be displayed for two seconds. Addresses 0 - 99 must be used for attendee checking feature. Addresses over 99 will not be registered. i.e: C 12 = 12 DLT’s synched with CM

Tone Control
1. With the DLT 100 2.0 powered ON, press and hold the – and + buttons \(\text{\textregistered}\) \(\text{\textregistered}\) simultaneously for 2 seconds.
2. The LCD will display the last tone setting t: (1 - 9). See Figure 4.
3. Using the +/- buttons \(\text{\textregistered}\) \(\text{\textregistered}\), adjust the tone up or down.
   1 = Most bass response
   5 = Flat (Default)
   9 = Most treble response
4. Press and hold the – and + buttons \(\text{\textregistered}\) \(\text{\textregistered}\) simultaneously for two seconds to save the tone setting.
Address Confirmation
Press the MENU button twice for the CM and CS, once for SLVs. The address for the DLT 100 2.0 will be displayed for two seconds.

NOTE: Every DLT 100 2.0 MUST have its own address and all must be assigned to the same group.

Quick Group Change
“Groups” apply to 2-way Mode only.

1. With the DLT 100 2.0 powered ON, push and hold the Group button until the GROUP indicator on the screen starts blinking and the light above the Group button comes on (Figure 5).
2. Change groups by pushing the Up button or the Down button. If no buttons are pushed, the Quick Group Change feature will time out after 5 seconds.
3. Push the Group button once to exit the Quick Group Change function, or wait for 5 seconds.

Push-to-Talk (Ptt) and Push-and-Latch (PNL)
This feature allows the user to choose between Push and Latch (PNL) or Push to Talk (Ptt). The default is PnL.

In PnL mode, when the TALK button is pressed and released, it stays in talk mode until the TALK button is pressed and released again.

In Ptt mode, the TALK button must be held down while speaking, and when released, it shuts off.
The DLT 100 2.0 must be set up as a Slave unit, in 2-way mode, prior to performing these steps.

1. With the DLT 100 2.0 powered ON, press and hold the Up button and the Down button simultaneously for 2 seconds to enter programming mode.
2. Push the Power/Menu button until the TALK indicator is flashing and either “PnL” is or “Ptt” is displayed. (Figure 6).
3. Use either of the +/- buttons to switch between “PnL” and “Ptt”
4. Press and hold the Up button and the Down button simultaneously for 2 seconds to exit programming mode.

Side Tone Adjustment
This gives the user the ability to change the volume of their own voice heard in the headset (side tone).

1. With the DLT 100 2.0 powered ON, press and hold the Up button and the Down button simultaneously for 2 seconds to enter programming mode.
2. Push the Power/Menu button until “St:” is displayed. See Figure 7.
3. Use either of the +/- buttons to choose between Stt:0 (Off), St:1 (-6dB) (default), or St:2 (-12dB).
4. Press and hold the Up button and the Down button simultaneously for 2 seconds to exit programming mode.

Talk “Off” Double-Beep Indication Limit
The user hears an audible “double-beep” sound when the TALK button is turned off. This is heard in the headset of the user only; it is not transmitted. On the DLT 100 2.0, as the headset volume is increased, the beep volume will increase until the headset volume reaches 37, then the beep volume will stop increasing. (Note: On the DLT 100 the beep volume continued to get louder as the headphone volume was increased, with no limit.)
**DLT 100 2.0 Controls**

**DLT 100 2.0 Operation**

**BUTTON FUNCTIONS**

**POWER / MENU BUTTON**

- Press and hold for power On/Off
- Press once to change section when in setup menu
- Review setup (push repeatedly to advance to next setting)
- Attendance checking can only be done with a Master unit. Must have address assigned between 1 — 99 to allow attendance checking function. To check attendance, push and release the button and the number of attendees will be displayed for 2 seconds.

**GROUP CHANGE / SETUP BUTTONS**

- Press and hold and together for 3 seconds to enter or exit setup menu
- Press and hold button for 3 seconds to enter quick group change mode. The GRP light will flash. Then use or to change groups. To exit, push again or just wait until the unit times out.
Use these buttons to select channels in simultaneous interpretation mode.

**QUICK GROUP CHANGE / SETUP BUTTONS**
- Press and hold \( \downarrow \) and \( \uparrow \) together for 3 seconds to enter or exit setup menu.
- Press and hold \( \text{GRP} \) button for 3 seconds to enter quick group change mode. The GRP light will flash. Then use \( \downarrow \) or \( \uparrow \) to change groups. To exit, push \( \text{GRP} \) again or just wait until the unit times out.
- Use these buttons to select channels in simultaneous interpretation mode.

**MICROPHONE LEVEL ADJUSTMENT**
- Hold the \( \downarrow \) button for two seconds to enter mic level adjustment. For level adjustment use \( \downarrow \) or \( \uparrow \).

**VOLUME CONTROL / SELECT BUTTON**
- Control / Volume
- Use to navigate selections in setup menu.
- Access and adjust tone control (0-53)

**TALK BUTTON**
- Press button momentarily once to activate the microphone. Press button once more to turn off the microphone.
- Press and hold the button for approximately 2 seconds to mute other DLT 100 2.0 slave units. Only the CM and CS have this function. ([TALK] LED will blink on all units when in mute mode).

**Battery Charging – DLT 100 2.0**
1. This Product uses an internal rechargeable Lithium Polymer battery.
2. Use the 30 Pin connector, located on the bottom of DLT 100 2.0 to charge the battery. Full charging time is approximately 5 hours. The Red LED flashes while charging. The Green LED will be on steady when the battery is charged.
3. Battery Maintenance - Charge the battery at room temperature.
DLR 60 2.0 Controls

DLR 60 2.0 Operation

1. Insert 2 AAA batteries into the DLR. Be sure to observe correct polarity. You can use either Alkaline or NiMH, but make sure the battery switch is in the NiMH position to charge NiMH batteries. If Alkaline batteries are used, put the battery switch in the ALK position.

2. Power on/off by holding the power button for 3 seconds.

3. In 1-way mode, the DLR will seek active DLT’s; press channel button up or down to seek next active DLT. In 2-way mode, group must be selected.

4. The Antenna Symbol will flash, and there will be no Signal Strength Bars, if not synchronized with a DLT 100 2.0.

5. If the units are synchronized, briefly push the power button to show group assigned (0 to 99).

6. To change group, hold the and buttons for 3 seconds until “GROUP” is flashing.

7. Use or buttons to select group number.

8. Hold and buttons for 3 seconds again to save the group number.

9. To change volume level press or buttons, display will show 00 through 30.

10. User can listen using the speaker on the back of the DLR or by plugging in stereo or mono earphones into the jack (which defeats the speaker operation).

11. Low battery indicator will show as a blinking battery symbol with no bars inside it.

12. The DLR will automatically power down after 5 minutes if not synchronized with a DLT.
Example 1: 2-way Mode, Tour Guide

HOW IT WORKS

1. Tour Guide 1 speaks, using a DLT 100 2.0 alone (built-in mic) or using it with a compatible headset mic.

2. Each Tour Group Member and Tour Guide 2 listen directly to Tour Guide 1, each using a DLT 100 2.0 alone (built-in speaker) or using it with a compatible headset mic.

3. Tour Guide 2 then speaks, using a DLT 100 2.0 alone (built-in mic) or using it with a compatible headset mic.

4. Each Tour Group Member and Tour Guide 1 listen directly to Tour Guide 2 using a DLT 100 2.0.

5. With the push of a button, a Tour Group Member uses a DLT 100 2.0 (built-in mic) to ask the Tour Guides a question. Both Tour Guides and all Tour Group Members listen to the question, each using a DLT 100 2.0.

6. Tour Guide 2 responds to the question, using a DLT 100 2.0. Tour Guide 1 and all Tour Group Members listen to the answer, each using a DLT 100 2.0.

7. With the push of a button, Tour Guide 1 takes control of the discussion once again and responds to the same Tour Group Member question. Tour Guide 2 and Tour Group Members now listen to Tour Guide 1’s answer, each using a DLT 100 2.0.

8. Tour Guides have two-way communication capability; they can talk/listen simultaneously to one another. Tour Group Members can participate as listen-only or can access two-way mode with the quick push of a button. Tour Guides always control the discussion.
Example 1: 2-way Mode, Tour Guide (continued)

HOW IT WORKS (CONTINUED)
2-Way Setup for Tour Guide Operation

1. Press and hold POWER button for 2 seconds to turn DLT 100 2.0 on.

2. Press and hold together for 3 seconds to enter programming mode.

3. Mode icon will blink on the LCD screen.

4. Use the buttons to select 2-way mode (shown in screen 5).

5. Press POWER / MENU button to enter selected Tour Guide mode (shown above) and advance to the next setting.

6. Use the buttons to select CHAIRMAN MAS, CHAIRMAN SLV or SLV.

7. When mode selection is made MAS (for example) will blink (shown in screen 8). There MUST be one Master per group.

8. Press POWER / MENU button to enter selected Priority mode and advance to the next setting.
2-Way Setup for Tour Guide Operation (continued)

9

Address (ADD) icon will now begin to blink. Use the buttons to select a Address number (0 – 1023).

Note: Attendee count will only work with addresses 1-99 (Maximum 100 DLT 100 2.0’s with one Master at address 0).

10

Press button to enter Address number and move to the next setting.

11

GROUP icon will now blink. Use the buttons to select a Group number. Must have one Master in a group; and the MAS and SLV units must have same group number.

12

Press button to enter Group number and move to the next setting. For 4 simultaneous groups, numbers must be consecutive. ie (11, 12, 13, 14). Can use (0 - 1023) for group numbers.

13

If this is a slave unit, the side-tone adjustment will be displayed (not avail on CM or CS). Use the buttons to select a sidetone level (0 – 2).

14

Press button to save side-tone level and move to the next setting.

15

If this is a slave unit, the Push-to-talk/Push-and-latch feature will be displayed (not avail on CM or CS). Use the buttons to select Ptt or PnL.

16

Press button to save the Ptt or PnL setting and move to the next setting.

17

The secure code screen will now be displayed, with the first character blinking. Use the buttons to select the first number (0 – 9).

18

Press button to advance to the next position.

19

Repeat steps 17 and 18 until all numbers have been entered. When the last number has been entered, nothing will be blinking.

20

Press button to save the secure keycode. You are now at the beginning of the programming. Press and together for 3 seconds to exit programming mode and return to the main screen.
Example 2: Simultaneous Interpretation (1-way)

HOW IT WORKS

1. The Main Speaker will use channel 0; Press the TALK button to activate the microphone.
2. Each Interpreter unit will need to be assigned a channel number (1-14). The TALK button must be activated to send the interpretation to the attendees.
3. The floor speaks, using a DLT 100 2.0 alone (built-in mic) or using it with a compatible headset mic.
4. Interpreter listens directly to the floor, using a DLT 100 2.0 alone (built-in speaker) or using it with a compatible headset mic.
5. With the push of a button, interpreter simultaneously interprets to the listeners, using a DLT 100 2.0 alone (built-in mic) or using it with a compatible headset mic.
6. Each listener hears the interpretation using a DLR 60 2.0.

The Repeater Function can only be used in simultaneous interpretation mode. An additional DLT 100 2.0 can be set-up as a repeater to increase the range of each channel. See section “Repeater Mode” for details.

The 3.5mm stereo microphone jack can accept a headphone level or a line level output from audio sources when using the Williams Sound, LLC WCA 094 attenuated cable.
1-way Setup for Simultaneous Interpretation

1. Press and hold POWER button for 2 seconds to turn DLT 100 2.0 on.

2. Press and buttons together for 2 seconds to enter programming mode.

3. Mode icon will blink on the LCD screen.

4. Use buttons to select interpretation mode.

5. Press POWER / MENU button to save selected interpretation mode and advance to the next screen.

6. Now the SLV or MAS icon will blink. (Receive only will not have this option. Skip to step 9).

7. Use buttons to select SLV (Slave) or MAS (Master).

   **Note:** When is used, it must be defined as Master, except when repeater is used; then Repeater must be set to Master.

8. Press POWER / MENU button to save SLV or MAS and advance to the next screen.
1-way Setup for Simultaneous Interpretation

9

Channel icon will now begin to blink. Press (+) or (-) button to select a Channel number 1 – 14. Transmitting Channel must be set different. (N/A with Main Speaker unit. Set to CH 0).

10

Press POWER / MENU button to enter Channel number.

11

Group icon will now blink. Press (+) or (-) button to select a Group number. Master and Slave units must have same group number.

12

Press POWER / MENU button to enter Group number.

13

Side-tone adjustment will be displayed. Use the - or + buttons to select a side-tone level (0–2).

14

Press button to save side-tone level and move to the next setting.

15

The secure code screen will now be displayed, with the first character blinking. Use the - or + buttons to select the first number (0–9).

16

Press button to advance to the next position.

17

Repeat steps 17 and 18 until all numbers have been entered. When the last number has been entered, nothing will be blinking.

18

You are now at the beginning of the programming. Press and together for 3 seconds to exit programming mode and return to the main screen.

19

IMPORTANT
There can only be one master (floor) per group.
Repeater Mode

An additional DLT 100 2.0 can be set-up as a repeater to increase the range of each channel. When repeater mode is used, the main speaker’s DLT is no longer the master - the master (unit all others sync to) now becomes one of the slaves.

Main Speaker (Floor) DLT
Must be set to Main Speaker, CH 0 and SLV.

Main Speaker (Floor) DLT Repeater
Must be set to Repeater, CH 0 and MAS. NOTE: For more than one repeater, repeaters on additional channels must be SLV.

Interpreter DLT’s
Must be set to Interpreter, CH 1 - 14, and SLV.

Interpreter Repeater DLT’s
Must be set to Repeater, CH 1-14 and SLV.

DLT-100 2.0’s FOR FLOOR AND INTERPRETERS

DLT 100 2.0 [ LISTEN ONLY ] OR DLR 60 2.0 MUST BE ON THE SAME GROUP. EACH LISTENER WOULD SELECT A DESIRED CHANNEL / LANGUAGE. NOTE: WHEN REPEATERS ARE NOT REQUIRED, THE MAIN SPEAKER ( CH 0 ) WILL BE THE MASTER.
## Differences between DLT 100 2.0 and DLT 100

<table>
<thead>
<tr>
<th>Function/Description</th>
<th>DLT 100 2.0</th>
<th>DLT 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLOC</td>
<td>With settings locked, can ONLY adjust Power, Volume, Talk</td>
<td>With settings locked, can adjust Power, Volume, Talk, Tone, Mic level, and Group</td>
</tr>
<tr>
<td>Voting function</td>
<td>Disabled</td>
<td>Enabled</td>
</tr>
<tr>
<td>GRP button / ABS button</td>
<td>Labelled “GRP” 1-way mode: not functional 2-way mode: used to enable easy group change with push-and-hold of this button</td>
<td>Labelled “ABS” 1-way mode: not functional 2-way mode: On Master, used to enable voting; on Chairman Slave or Slave, used to “Abstain” when voting</td>
</tr>
<tr>
<td>^ button / yes “ch+” button</td>
<td>Labelled “^” 1-way mode: Channel up 2-way mode: Group up</td>
<td>Labelled “yes” 1-way mode: Channel up 2-way mode: Group up</td>
</tr>
<tr>
<td>v button / no “ch-” button</td>
<td>Labelled “v” 1-way mode: Channel down 2-way mode: Group down</td>
<td>Labelled “no” 1-way mode: Channel down 2-way mode: Group down</td>
</tr>
<tr>
<td>Listen only (1-way mode) function</td>
<td>Disabled, icon not shown</td>
<td>Enabled, icon shown</td>
</tr>
<tr>
<td>Speaker only (2-way mode) function</td>
<td>Disabled, icon not shown</td>
<td>Enabled, icon shown</td>
</tr>
<tr>
<td>Group Number / Clock function</td>
<td>Icon “GROUP” and Group Number Displayed in place of Clock on Main Screen</td>
<td>Clock Enabled on Main Screen and during CM Setup</td>
</tr>
<tr>
<td>Talk Timer function</td>
<td>Disabled, Group number displayed in place of Talk Timer on Main Screen</td>
<td>Enabled</td>
</tr>
<tr>
<td>Push-to-Talk (Ptt) and Push-and-latch (PnL) functions</td>
<td>Available on Slave units only</td>
<td>Unavailable</td>
</tr>
<tr>
<td>Microphone Gain Max Level</td>
<td>53</td>
<td>63</td>
</tr>
<tr>
<td>Side Tone Adjustment</td>
<td>Enabled; St: 0=off, St:1=−6dB, St:2=−12dB.</td>
<td>Unavailable</td>
</tr>
<tr>
<td>Dock detected/Mic Disable</td>
<td>Enabled. The DLT 100 2.0 is compatible with a dock.</td>
<td>Unavailable. The DLT 100 is not compatible with a dock.</td>
</tr>
<tr>
<td>Auto shutoff timing for Slave Units</td>
<td>5 min. (Same as DLR 60 2.0)</td>
<td>2 min.</td>
</tr>
<tr>
<td>Line Input Level Adjust</td>
<td>Available with push-and-hold of “^” button; eight levels L:0 through L:7</td>
<td>Not available</td>
</tr>
<tr>
<td>Compatible with Digi-Wave Dock</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
Differences between DLR 60 2.0 and DLR 60

Between 08/13 and 11/13, a limited number of DLR 60's were manufactured and sold to the marketplace. If the front of the unit says “Digi-WAVE”, you have a DLR 60. If it says “DIGI-WAVE 2.0”, you have a DLR 60 2.0. Most units are the DLR 60 2.0, so this section may not apply to your product.

<table>
<thead>
<tr>
<th>Function/Description</th>
<th>DLR 60 2.0</th>
<th>DLR 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change Group</td>
<td>Through Menu or Quick Group Change</td>
<td>Through Menu only</td>
</tr>
<tr>
<td>^ button / ch+ button</td>
<td>Labelled “^” 1-way mode: Channel up 2-way mode: Group up</td>
<td>Labelled “ch+” 1-way mode: Channel up</td>
</tr>
<tr>
<td>v button / ch- button</td>
<td>Labelled “v” 1-way mode: Channel down 2-way mode: Group down</td>
<td>Labelled “ch-” 1-way mode: Channel down</td>
</tr>
<tr>
<td>Dock detected/Mic Disable</td>
<td>Enabled. The DLR 60 2.0 is compatible with a dock.</td>
<td>Unavailable. The DLR 60 is not compatible with a dock.</td>
</tr>
<tr>
<td>Auto shutoff timing for Slave Units not synced to a Master unit</td>
<td>5 min. (Same as DLT 100 2.0)</td>
<td>2 Min.</td>
</tr>
<tr>
<td>Compatible with Digi-Wave Dock</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Differences between DLT 100 and DLT 100 2.0 firmware versions

Just prior to the release of Digiwave 2.0, DLT 100 units ran on firmware version F-6. With the release of the DLT 100 2.0, all units shipped with a new firmware Version 7. Version 8 will be released sometime in 2014. With the DLT 100 2.0 powered on, check the firmware version you have by pushing the power/menu key repeatedly until you see “F-X” where X could be 6, 7 or 8. The features included in each of these versions are shown in the chart below.

<table>
<thead>
<tr>
<th>Function/Description</th>
<th>F-6 (DLT 100)</th>
<th>F-7 (DLT 100 2.0)</th>
<th>F-8 (DLT 100 2.0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick Group Change</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Voting Function</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receive Only (1-way mode)</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Speaker Only (2-way mode)</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clock Displayed on Main Screen</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Group Number Displayed on Main Screen</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Talk Timer</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Push-to-Talk &amp; Push-and-Latch (Ptt/PnL)</td>
<td>✓ (slave units only)</td>
<td>✓ (slave units only)</td>
<td></td>
</tr>
<tr>
<td>Mic Gain Default Level</td>
<td>36</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>Mic Gain Max Level</td>
<td>63</td>
<td>53</td>
<td>53</td>
</tr>
<tr>
<td>Line Level Input Control (for DigiWave Dock)</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Specifications

### DLT 100 2.0 TRANSEIVER

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>103 x 62 x 11mm (4.1 x 2.4 x 0.4 inches)</td>
</tr>
<tr>
<td>Weight</td>
<td>80g (2.8oz) including battery</td>
</tr>
<tr>
<td>Color</td>
<td>Black and silver</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Shatter resistant PC/ABS plastic</td>
</tr>
<tr>
<td>Battery type</td>
<td>Li Polymer with smart charge built into transceiver</td>
</tr>
<tr>
<td>Battery life</td>
<td>Up to 14hrs talk time per charge</td>
</tr>
<tr>
<td>Charge time</td>
<td>5hrs. TFP 045 with cable and international adapters</td>
</tr>
<tr>
<td>Optional Chargers</td>
<td>Two-bay CHG 102, or 12-bay CHG 1012</td>
</tr>
<tr>
<td>Channels</td>
<td>Up to 15 simultaneous channels (Interpretation mode)</td>
</tr>
<tr>
<td></td>
<td>Up to 4 simultaneous groups (2 way mode)</td>
</tr>
<tr>
<td>Operating frequencies</td>
<td>2.4GHz (ISM band) 2.402 – 2.476GHz FHSS</td>
</tr>
<tr>
<td>Frequency response</td>
<td>150 – 11KHz</td>
</tr>
<tr>
<td>S/N ratio</td>
<td>69dB (A weighted)</td>
</tr>
<tr>
<td>THD</td>
<td>0.33 %</td>
</tr>
<tr>
<td>Microphone input</td>
<td>Internal microphone (disabled when MIC jack engaged) and 3.5mm stereo jack</td>
</tr>
<tr>
<td>(tip/sleeve) with electret microphone bias, adjustable gain with 63dB range.</td>
<td></td>
</tr>
<tr>
<td>Audio output</td>
<td>Max SSPL 90 111.8dB (EAR 013), 116.8dB (EAR 041) Internal speaker (disabled when ear jack engaged) 16mW @ 33Ω</td>
</tr>
<tr>
<td>Range</td>
<td>Up to 100ft outdoors and 200ft indoors*</td>
</tr>
<tr>
<td>Modulation</td>
<td>GFSK, binary CDMA</td>
</tr>
<tr>
<td>RF output</td>
<td>14dBm Max</td>
</tr>
<tr>
<td>Security</td>
<td>87 bit encryption, Secure Key Code, Setup Lock (SLOC)</td>
</tr>
<tr>
<td>Controls</td>
<td>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)</td>
</tr>
<tr>
<td>Output</td>
<td>3.5mm stereo/mono jack 30 pin charging jack with audio out to base stations</td>
</tr>
<tr>
<td>Side tone</td>
<td>-12dB below volume, tone variation [ST:0 = Off, ST:1 = -6dB, ST:2 = -12dB]</td>
</tr>
<tr>
<td>Speaker</td>
<td>Internal speaker (disabled when ear jack is engaged)</td>
</tr>
<tr>
<td>Indicators</td>
<td>LCD (Group, channel, volume level, battery status, mode, signal strength)</td>
</tr>
<tr>
<td>LED's</td>
<td>(charge status, voting) Red LED around talk button when enabled. Amber LED signifying voting feature activated.</td>
</tr>
<tr>
<td>Maximum presenters</td>
<td>Two presenters at any given time</td>
</tr>
<tr>
<td>Approvals</td>
<td>FCC, Industrie Canada, CE, C-tick, RoHS, WEEE</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 years parts and labor (90 days on accessories)</td>
</tr>
</tbody>
</table>
## Specifications

<table>
<thead>
<tr>
<th><strong>DLR 60 2.0 RECEIVER</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions:</strong></td>
<td>2.36” W x 3.54” H x 0.63” D (60 mm x 90 mm x 16 mm)</td>
</tr>
<tr>
<td><strong>Weight:</strong></td>
<td>1.7 oz. (47g) without batteries.</td>
</tr>
<tr>
<td><strong>Frequency Band:</strong></td>
<td>2.4 GHz (ISM band)</td>
</tr>
<tr>
<td><strong>Modulation:</strong></td>
<td>GFSK digital transmission</td>
</tr>
<tr>
<td><strong>Range:</strong></td>
<td>Up to 100 ft outside, Up to 200 ft inside (depending upon environmental conditions)</td>
</tr>
<tr>
<td><strong>Multi Channel:</strong></td>
<td>Up to 15 simultaneous channels (one way mode)</td>
</tr>
<tr>
<td><strong>Case Material:</strong></td>
<td>Black ABS Plastic</td>
</tr>
<tr>
<td><strong>Battery Life:</strong></td>
<td>Alkaline Disposable (BAT 010-2): Up to 27 hrs, NiMH Rechargeable (BAT 022-2): Up to 21 hrs</td>
</tr>
<tr>
<td><strong>Battery Type:</strong></td>
<td>2 x AAA Alkaline or NiMH</td>
</tr>
<tr>
<td><strong>Power Save:</strong></td>
<td>Auto Sleep Mode after 1 min of no RF signal</td>
</tr>
<tr>
<td><strong>Frequency Response:</strong></td>
<td>100 Hz – 11 kHz</td>
</tr>
<tr>
<td><strong>S/N Ratio:</strong></td>
<td>65 dB (A-weighted)</td>
</tr>
<tr>
<td><strong>THD:</strong></td>
<td>0.1% (typical)</td>
</tr>
<tr>
<td><strong>Antenna:</strong></td>
<td>Internal</td>
</tr>
<tr>
<td><strong>Audio Output:</strong></td>
<td>3.5 mm stereo jack with mono output for headphones, earphones, or neckloop 27 mW maximum @33Ω mono</td>
</tr>
<tr>
<td></td>
<td>Back Speaker (muted when headphone jack in use)</td>
</tr>
<tr>
<td><strong>Controls:</strong></td>
<td>Power, Volume +/-, Channel +/-, Setup, Battery Type</td>
</tr>
<tr>
<td><strong>Display:</strong></td>
<td>LCD shows status: Battery Level, RSSI, Group/Channel#</td>
</tr>
<tr>
<td><strong>Indicators:</strong></td>
<td>Red LED - blinks when charging</td>
</tr>
<tr>
<td></td>
<td>Green LED - stays on when charged</td>
</tr>
<tr>
<td><strong>Docking Connector:</strong></td>
<td>30-pin iPod Style for charging and audio out</td>
</tr>
<tr>
<td><strong>Compatible Transmitter:</strong></td>
<td>DLT 100 2.0, DLT 100</td>
</tr>
<tr>
<td><strong>Temp. Range:</strong></td>
<td>32° – 122°F (0° to 50°C)</td>
</tr>
<tr>
<td><strong>Chargers:</strong></td>
<td>CHG 102, CHG 1012, TFP 045</td>
</tr>
<tr>
<td><strong>Accessories:</strong></td>
<td>Silicone Skin, Lanyard, Wrist Strap</td>
</tr>
<tr>
<td><strong>Approvals:</strong></td>
<td>FCC, Industrie Canada, RoHS, CE, WEEE, C-tick</td>
</tr>
<tr>
<td><strong>Warranty:</strong></td>
<td>2 years, parts &amp; labor</td>
</tr>
</tbody>
</table>
# Troubleshooting

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>WHAT TO DO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power does not turn-on</td>
<td>Dead battery</td>
<td>Charge the battery, replace battery</td>
</tr>
<tr>
<td>Power turned off automatically</td>
<td>Master device can’t be found</td>
<td>Turn on Master unit</td>
</tr>
<tr>
<td>Power doesn’t turn off</td>
<td>Program Error</td>
<td>Press reset button on the back of device (DLT only)</td>
</tr>
<tr>
<td></td>
<td>Disconnection of headphone</td>
<td>Check headphone connection</td>
</tr>
<tr>
<td></td>
<td>Master unit shut off</td>
<td>Turn on / set master</td>
</tr>
<tr>
<td>Power doesn’t turn off</td>
<td>Different Group Number settings</td>
<td>Set every unit to the same group number</td>
</tr>
<tr>
<td></td>
<td>Out of range</td>
<td>Move to within the range of 100ft (outside) or 200 ft (inside) from the master unit</td>
</tr>
<tr>
<td></td>
<td>More than 1 master exists in a group</td>
<td>Set one master per group</td>
</tr>
<tr>
<td></td>
<td>Obstacle exists</td>
<td>Move to another place or move the obstacles</td>
</tr>
<tr>
<td></td>
<td>More than 2 units with same address exist in a group</td>
<td>Set different address</td>
</tr>
<tr>
<td>No audio in headphones</td>
<td>More than 2 units with same address exist in a group</td>
<td>Set different address</td>
</tr>
<tr>
<td>Error in attendee checking</td>
<td>Transmitter channel is overlapping</td>
<td>Set different transmitting channel</td>
</tr>
<tr>
<td>Unable to select receiving channel</td>
<td>Please check the mode for simultaneous interpretation mode</td>
<td>Set simultaneous interpretation mode</td>
</tr>
<tr>
<td>Unable to transmit Interpretation</td>
<td>More than 2 master units exist</td>
<td>Set one master only</td>
</tr>
<tr>
<td>DLT 100 2.0 keeps turning off</td>
<td>Master unit shut off</td>
<td>Turn on / set master</td>
</tr>
<tr>
<td>Can’t hear the speaker</td>
<td>Mic Sensitivity too low</td>
<td>See first, which microphone you have, and then adjust the sensitivity accordingly. (i.e., Mic 044-2p is about 33, Mic 068 is about 17).</td>
</tr>
<tr>
<td></td>
<td>Master unit shut off</td>
<td>See why the Master shut off and correct the problem. Turn on the Master and verify the battery level.</td>
</tr>
<tr>
<td>The microphone and headphone will not work</td>
<td>Microphone and Headphone connections are reversed</td>
<td>Verify first, then swap the connections.</td>
</tr>
<tr>
<td>The TALK button is flashing</td>
<td>The talk button has been held down too long and the system is now in “Talk Mute” mode.</td>
<td>Hold down the talk button until the talk button stops flashing. This will disable talk mute.</td>
</tr>
<tr>
<td>A DLT 100 2.0 will not sync to the Master</td>
<td>Out of Range</td>
<td>Bring the unit closer to the master</td>
</tr>
<tr>
<td></td>
<td>Master is Off</td>
<td>Turn Master unit on</td>
</tr>
<tr>
<td></td>
<td>No 4-digit Secure Code, or Incorrect Code</td>
<td>Make the secure code the same as the master</td>
</tr>
<tr>
<td></td>
<td>Wrong Group Number</td>
<td>Make group numbers match the master</td>
</tr>
<tr>
<td></td>
<td>Group number above 100 (DLR 60 2.0)</td>
<td>Change all units to a group number under 100</td>
</tr>
<tr>
<td>“SLV” is blinking</td>
<td>The Slave has not found a Master to sync to.</td>
<td>Program at least one unit as the Master or turn on the existing Master. Verify that the Group numbers match.</td>
</tr>
<tr>
<td>Time of Day Incorrect</td>
<td>Time of Day on Master is Incorrect. (All units sync their time from the Master)</td>
<td>Set time of day to the correct time on the Master.</td>
</tr>
</tbody>
</table>
FAQs

What is the range of the system?
Up to 100ft outdoors and up to 200ft indoors. (The range always depends on the environmental conditions).

What is the benefit of this system over the 72MHz systems?
DLT’s can operate in two way mode. Team teach/tour guide ability. Voting feature for discussion mode. Relay feature increases range. Harmonized frequencies for international use.

How many simultaneous systems can be used?
Four systems in two way mode and one system in interpretation mode.

How many DLR’s can I use?
Unlimited within the range.

What is the battery life for the DLT and DLR?
DLT – up to 14hrs per charge.
DLR - up to 24hrs (2 x AAA Alkaline batteries) or 20hrs (2 x AAA NiMH batteries).

Is this product compatible with any other competitive system?
No.

Where can I buy this product?
Through Williams Sound dealers.
FCC statements

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from where the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment is a handheld device and should be maintained with a minimum safety distance of 20cm from the antenna. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.
**2-year Warranty**

Williams Sound products are engineered, designed, and manufactured under carefully controlled conditions to provide you with many years of reliable service.

Williams Sound warrants the DLT 100 2.0 and DLR 60 2.0 against defects in materials and workmanship under normal use and conditions for 2 years from date of purchase.

This warranty is available to the original end purchaser of the product and CAN BE transferred to subsequent purchasers of the product.

Microphones, earphones, headphones, batteries, chargers, cables, carry cases, and most other accessory products carry a 90-day warranty.

Williams Sound has no control over the conditions under which this product is used. Williams Sound, therefore, disclaims all warranties not set forth above, both express and implied, with respect to the DLT 100 2.0 and DLR 60 2.0, including but not limited to, any implied warranty of merchantability or fitness of use of such equipment including, without limitation, any warranty that the use of such equipment for any purpose will comply with applicable laws and regulations.

Williams Sound shall not be liable to any person or entity for any medical expenses or any direct, incidental or consequential damages caused by any use, defect, failure or malfunctioning of the product, whether a claim for such damages is based upon warranty, contract, tort or otherwise, the sole remedy for any defect, failure or malfunction of the products is replacement of the product.

No person has any authority to bind Williams Sound to any representation or warranty with respect to the DLT 100 2.0 and DLR 60 2.0.

Unauthorized repairs or modifications will void the warranty. This warranty is void if damage occurred because of misuse, or if the product has been repaired or modified by anyone other than a factory authorized service technician. Warranty does not cover normal wear and tear on the product or any other physical damage unless the damage was the result of a manufacturing defect. Williams Sound is not liable for consequential damages due to any failure of equipment to perform as intended. Williams Sound shall bear no responsibility or obligation with respect to the manner of use of any equipment sold by it.

This warranty does not cover reimbursement for your costs of removing and transporting the product for warranty service evaluation or installation of any replacement product provided under this warranty.

The exclusions and limitations set out above are not intended to, and should not be construed so as to contravene mandatory provisions of applicable law. If any part or term of this Disclaimer of Warranty is held to be illegal, unenforceable, or in conflict with applicable law by a court of competent jurisdiction, the validity of the remaining portions of this Disclaimer of Warranty shall not be affected, and all rights and obligations shall be construed and enforced as if this Limited Warranty did not contain the particular part or term held to be invalid. The terms of the warranty are governed by the laws of the State of Minnesota.

Prices and the specifications of the products are subject to change without notice.

*For Complete Warranty Statement go to: www.williamssound.com/warranty-statement

NOTICE: Williams Sound products are NOT designed for use in extreme temperature, humidity or chemical environments. The introduction of chemicals such as chlorine, salt water or human sweat into the product will cause damage to the circuitry. Damage due to these causes is NOT covered under the Product Warranty.

If you experience difficulty with your system, call Toll-Free for Customer Assistance 1-800-843-3544 (U.S.A.) or +1 952 943 2252 (Outside the U.S.A.)

If it is necessary to return the system for service, your Customer Service Representative will give you a Return Authorization Number (RA) and shipping instructions.