

iRespond[®] - UltraLite Technical Manual

Wireless eSystems

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UltraLite/Lite Base Unit

Change the Base's Channel

1. Press the power button  to turn on the Lite base.
2. Immediately press F1  while Wireless eSystems scrolls across the base's screen.
3. When Device Address appears press ENT . (This number should not be altered).
4. Select ENT  at Output Power.
5. Output Channel should now be displayed.
6. Use the up  and down  buttons to change the base's channel.
7. Press ENT  four more times to save and exit configuration mode.
8. The base will automatically shut off.

Adjust the Power Output

The Power Output is set to 0 when shipped. The power output may be changed to help strengthen the RF signal when transmitting to many remotes or at far distances.

1. Press the power button  to turn on the Lite base.
2. Immediately press F1  while Wireless eSystems scrolls across the base's screen.
3. When Device Address appears press ENT . (This number should not be altered).
4. Use the up  and down  buttons to change the power.
5. Press ENT  five more times to save and exit configuration mode.
6. The base will automatically shut off.

Turning Channel Scan On/Off

It is best for the base and remote units to be on the same channel. However, channel scanning can be used to allow the base unit to find the best channel with the least amount of noise. To communicate with a base with channel scanning on, remote units must be configured with channel hopping on.

1. Press the power button  to turn on the Lite base.
2. Immediately press F1  while Wireless eSystems scrolls across the base's screen.
3. When Device Address appears press ENT . (This number should not be altered).
4. Select ENT  at Output Power.
5. Select ENT  at Output Channel.
6. Select ENT  at Channel Offset 1 and again at Channel Offset 2.
7. Use the up  and down  buttons to turn channel scan on ("Yes") or off ("NO").
8. Press ENT  again to save configuration and exit.
9. Base will automatically shut off.

Setting/Adjusting Base UID

The Lite base's UID is set before it is shipped and should not be changed.

1. Press the power button  to turn on the Lite base.
2. Immediately press F1  while Wireless eSystems scrolls across the base's screen.
3. Device Address should be displayed.
4. Use the Left  and Right  buttons to select the correct digit you wish to change.

5. Use the up  and down  buttons to change the number.

Adjusting Base Offset

The Offset is the center frequency for all remote radios, ensuring base can communicate with all remotes. The Lite base's Offset is set before it is shipped and should never be changed.

1. Press the power button  to turn on the Lite base.
2. Immediately press F1  while Wireless eSystems scrolls across the base's screen.
3. Device Address should be displayed.
4. Press ENT  three times. Base will read Offset 1.
5. Connect spectrum analyzer to base's antenna connection.
6. Offset #1 is for Lite remotes, Offset #2 is for Touch remotes. Use the Up  and Down  arrows to adjust offset until the spectrum analyzer shows the base on the center frequency for that offset.
7. Press ENT  and complete Steps 5-6 for Offset 2.
8. Press ENT  twice when complete.

Turn Base on in Programming Mode

1. Press and hold the F1  button.
2. Press and release the power  button without letting go of F1  button.
3. When USB Pgm v#.# appears, let go of F1 .
4. Base will shut off when it has completed programming

UltraLite Remote Unit

To Login by PIN

An iRespond session must be running to login to a remote.

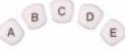
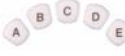
1. Press the power button to turn on the UltraLite remote.
2. Use the A-E Buttons to enter the correct characters of your PIN.
3. If the PIN was entered incorrectly, the right light will blink red once.
4. Renter your PIN. (If you fail to log in again, verify your PIN with the instructor)

To Login Anonymously

Instructor must have the iRespond session set up to allow anonymous logins.

1. Press the power button  to turn on the Lite remote.
2. At the PIN? screen press the SEND  button.
3. If you return to the PIN? screen, verify Allow Anonymous Logins was checked in Session Setup.

To Answer Multiple-Choice Questions

1. Select the appropriate A-E  button.
2. To change your answer, select the new A-E  button.
3. Press SEND  to go to the next question or to submit your answer.

To Answer Multiple-Response Questions

1. Select the appropriate A-E  button(s).
2. To change a response, select the same response  button again, then press the button for the new correct response.
3. Press SEND  to go to the next question or to submit your answer.

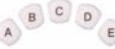
To Answer Fill-in/Short/Essay Response Questions

Note: Lites are capable of answering numerical answers for Fill-in questions ONLY.

1. Use the numeric  keypad to enter in the correct response to the Fill-in question.
2. To change a response, use the Left  arrow to backspace through the answer.
3. Press SEND  to go to the next question or to submit your answer.

To Create and Save New Homework to Remote Unit

1. Press the power button  to turn on the Lite remote.
2. Press the F1  button.
3. The remote will display Slot? There are 8 slots to enter homework to.
4. Using the numeric keypad  to enter a slot 1-8 and press SEND .
5. If homework is saved in this slot the screen will display Erase? No.
6. To review homework saved on the remote at Erase? No select SEND .

7. To delete homework and enter in new homework use the Up and Down  arrows to Erase? Yes and press SEND .
8. Use the response  buttons to enter in responses for Multiple-Choice/Response questions.
9. Use the numeric keypad to enter in responses for Fill-In questions.
10. Press SEND  to go to the next question.
11. When all homework has been entered press the F1  button again.
12. The remote will display Logout? No. Use the Up and Down  arrows to change it to Logout? Yes.
13. Press SEND . The homework will be saved and the remote will return to the PIN? screen.

To Edit/Review Homework File Saved to the Remote

1. Press the power button  to turn on the Lite remote.
2. Press the F1  button.
3. The remote will display Slot? There are 8 slots to enter homework to.
4. Using the numeric keypad  to enter a slot 1-8 and press SEND .
5. If homework is saved in this slot the screen will display Erase? No.
6. To review homework saved on the remote at Erase? No select SEND .
7. Use the Up  arrow or the SEND  button to scroll through the saved answers.
8. When all homework has been reviewed and edited, press F1 .

9. The remote will display Logout? No. Use the Up and Down  arrows to change it to Logout? Yes.
10. Press SEND  . The homework will be saved and the remote will return to the PIN? screen.

To Review Answers During a Session

Not available during Instructor-Paced sessions.

1. Use the Up  arrow or the SEND  button to scroll through the responses.
2. Students may go to a specific question by selecting Go  and then the number they wish to return to.
3. Students may go to the next flagged question by selecting Go  and then pressing the Flag  button.

Change the Remote's Channel

1. Press the power button  to turn on the Lite remote.
2. Press the Flag  button.
3. Press 2 from the numeric keypad  and press SEND .
4. When Address is displayed on the screen press SEND  . (This number should never be changed).
5. At Power press SEND .
6. At Channel, use the Up and Down arrow  buttons to select a different channel.
7. Press SEND  two more times. The remote will save the new configuration and then shut off.

Turning Channel Hop On/Off

It is best for the base and remote units to be on the same channel. However, channel hopping can be used to allow the remote unit to cycle through all available channels to find a base on any channel. This is useful when using multiple bases that are set to different channels.

1. Press the power button  to turn on the Lite remote.
2. Press the Flag  button.
3. Press 2 from the numeric keypad  and press SEND .
4. When Address is displayed on the screen press SEND . (This number should never be changed).
5. At Power press SEND .
6. At Channel press SEND .
7. At Debug press SEND .
8. When “Chn Hop” displays on the screen use the Up and Down  arrow keys to turn channel hopping on (yes) or off (no).
9. Press SEND  to save and turn off the remote.

Turning Automaton On/Off

The Automaton is for testing purposes ONLY. The automaton allows the remote to randomly select an answer to any questions it receives

1. Press the power button  to turn on the Lite remote.

2. Press the Flag  button.
3. Press 2 from the numeric keypad  and press SEND .
4. When Address is displayed on the screen press SEND . (This number should never be changed).
5. At Power press SEND .
6. At Channel press SEND .
7. When “Debug” displays on the remote screen use the Up and Down  arrows to turn the Automaton on (yes) or off (no).
8. Press SEND  twice to save and turn off the remote.

Turn Remote on in Programming Mode

1. Press and hold the F1  button.
2. Press and release the power  button without letting go of F1  button.
3. When USB Program Utility appears, let go of F1 .
4. Remote will shut off when it has completed programming.

Turn Remote on in Configuration Mode

Remotes must be turned on in configuration mode to run auto configuration on a remote group. Auto configuration changes the channel for remotes and base in a remote group.

1. Press the power button  to turn on the Lite remote.
2. Press the Flag  button.
3. Press 3 from the numeric keypad  and press SEND .

4. The remote will display Config Mode.
5. When the remotes have been configured they will automatically power down.

Check a Remote's UID/Version

To check what version a remote has or to check the channel a remote is set to follow these steps.

1. Press the power button  to turn on the Lite remote.
2. Press the Flag  button.
3. Select 1 from the numeric keypad  and press SEND .
4. L101 will display on the remote. The number beside it is the current version the remotes have.
5. Beneath L101 is the last four digits of the remote's UID "U:####".
6. Press SEND  twice to exit.

Test the Display/Keypad

1. Press the power button  to turn on the Lite remote.
2. Press the Flag  button.
3. Select 3 from the numeric keypad  and press SEND .
4. The remote will display "Display" and if the display is good the remote display will go from clear to black.
5. The remote will now display Keyboard.
6. Press any button you wish to test, it should display on the screen underneath Keyboard.
7. Press the power button  to turn off the Lite remote.

Play Games

1. Press the power button  to turn on the Lite remote.
2. Press the Flag  button.
3. Select 6 from the numeric keypad  and press SEND .
4. There are four games to choose from.

Option 1: Number Crunch

In this game students solve math problems.

1. The remote will display addition, subtraction, multiplication, and division problems. Enter in the correct response with the numeric keypad  to answer and press SEND  to go to the next problem.
2. The remote will keep track of how many problems you get right and wrong.

Option 2: Word Bar

In this game you are given the first letter to a word and have to complete the correct word.

1. The remote will display underscores for each missing letter.
2. Press SEND  to go to next missing letter.
3. Use the Up and Down arrows  to choose the next letter.
4. If you guessed correctly you move on to the next underscore, if you guess incorrectly an X appears in the top line.
5. Users get 8 attempts to guess the word.
6. If the user guesses correctly, “Correct” will display on the remote. If the student enters in eight wrong choices “Wrong” will display on the remote.

Option 3: Word Scramble

In this game users have to unscramble a word.

1. The remote will display a scrambled word.
2. Users will use the Up and Down  arrows to select the correct letter, then they will press SEND  to move to next letter.

Option 4: Vegas Slots

1. The first line of the remote will display the amount of money you currently have to gamble.
2. The next line shows “Bet? 123.”
3. You may choose to bet 1, 2, or 3 dollars using the numeric keypad .
4. After selecting 1, 2 or 3. Three symbols will cycle through.
5. If you have won anything the amount you won will display underneath the total and your total will increase to reflect winnings.

FCC Non-modification statement:

Changes or modifications not expressly approved by Wireless eSystems Inc. could void the user’s authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received. Including interference that may cause undesired operation.