

iRespond[®]-Touch Technical Manual

Wireless eSystems

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Touch Base Unit

Change the Base's Channel

To change base channel from main screen:

1. Press the power button  to turn on the Touch base.
2. Use the up  or down  arrow keys to change the base's channel.

To change base channel from configuration menu:

1. Press the power button  to turn on the Touch base.
2. When the base's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
4. Select the button under RF.
5. Select the button under Ch. Ch will now be highlighted.
6. Use the up  or down  arrow keys to change the base's channel.
7. Select the F1  button to save.
8. Press the power  button to turn off the base.

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 Touch base.
2. When the base's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
4. Select the button under RF.

5. Select the button under Pow.
6. Use the up  or down  arrow keys to change the power setting.
7. Select the F1  button to save.
8. Press the power  button to turn off the base.

Adjust the Base's Display

To adjust the contrast of a base if it appears too light or too dark:

1. Press the power button  to turn on the Touch base.
2. When the base's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
4. From the Configure Unit screen, select the soft key under DIS.
5. Use the up  or down  arrow keys to adjust the base's contrast.
6. When the screen is adjusted to your satisfaction, select the F1  button to save the changes.
7. Press the power  button to turn off the base.

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 Touch base.

2. When the base's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
4. From the Configure Unit screen, select the soft key under MIS.
5. Press the soft button under SCN to turn on (SCN is highlighted) and off channel scanning.

Setting Base UID

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

1. Press the power button  to turn on the Touch base.
2. When the base's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
4. From the Configure Unit screen, select the soft key under MIS.
5. Press the soft button under ADR.
6. The display will look similar to this 0 12 44 56 < 3. The four sets of numbers to the left of the < represent the hex bits of the UID address. The 3 to the right of < represents the current position we are at. The 3 represents the 0. Pressing the up or down arrows will increment 0 one at a time. Pressing Backspace  increments 0 by 10. Pressing the Flag  will decrement 0 by 10. To switch between hex sets use the left and right arrow keys. The 2 represents the hex set of 12. The 1 represents the hex set of 44 and 0 represents the hex set of 56.
7. When you have entered in the appropriate UID press F1  again to return to the configuration window. Press F1  again to save.

Adjusting Base Offset

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

1. Press the power button  to turn on the Touch base.
2. When the base's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
3. From the Configure Unit screen, select the soft key under RF.
4. Connect spectrum analyzer to base's antenna connection.
5. Offset #1 is for Lite remotes, Offset #2 is for Touch remotes. Select the Offset to be adjusted, use the up and down arrows to adjust offset until the spectrum analyzer shows the base on the center frequency for that offset.
6. Press F1  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 Program Utility appears, let go of F1 .
4. Press the Enter  button to delete old code.
5. Base will shut off when it has completed programming.

Touch 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 Touch remote.
2. At the Enter your PIN screen, use the stylus to enter in your unique PIN. (If Username and Password is displayed instead of Enter your PIN, select the middle soft button under PIN.)
3. Use the << button on the touch screen or backspace  button to delete entries.
4. When correct PIN is displayed in the screen select ENT on the touch screen or the ENTER  button.
5. If the PIN was entered incorrectly, the remote will display Login Failed.
6. Press OK on the touch screen and reenter your PIN. (If Login Failed appears again, verify your PIN with the instructor).

To Login by Username and Password

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

1. Press the power button  to turn on the Touch remote.
2. At the Username and Password screen, use the stylus to select the characters of your username from the keyboard displayed on Touch remote. (If Enter your PIN is displayed instead of Username and Password, select the middle soft button under UN.)
3. Use the << button on the touch screen or backspace  button to delete entries.

4. If you are required to enter a password, tap TAB on touch screen or tap inside the password textbox with the stylus. Otherwise, skip ahead to 6.
5. Use the stylus to select the characters of your password from the keyboard displayed on the Touch remote.
6. Press ENT on the touch screen or the ENTER  button.
7. If the Username or Password was entered incorrectly, the remote will display Login Failed.
8. Press OK on the touch screen and reenter username and password. (If Login Failed appears 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 Touch remote.
2. At the Username and Password or PIN screen, use the stylus or the softkey button under ANON to login.

To Answer Multiple-Choice Questions

1. Select the correct answer by tapping inside the corresponding radial button. If the softkey buttons have been activated, press the softkey under the correct answer.
2. To change your answer, tap the radial button corresponding with your new answer choice.
3. Press ENT on the touch screen or the ENTER  button to go to the next question or to submit your answer.

To Answer Multiple-Response Questions

1. Select the correct answers by tapping inside the corresponding checkboxes with the stylus. If the softkey buttons have been activated, press the softkey under the correct answers.

2. To change an answer, tap the checked checkbox again with the stylus. Tap the checkbox of your new answer choice.
3. Press ENT on the touch screen or the ENTER  button to go to the next question or to submit your answers.

To Answer Fill-in/Short/Essay Response Questions

1. Using the stylus, tap inside displayed text box. Use the stylus to enter the correct alpha/numeric response(s) from the keyboard displayed on the remote unit.
2. Use << on the touch screen or the backspace  button to change your answer.
3. Press ENT on the touch screen or the ENTER  button to go to the next question or to submit your answer.

To Create and Save New Homework to Remote Unit

1. From the login screen of the remote, select the softkey button under HWK.
2. Select the softkey button under New.
3. If answering multiple-choice or multiple-response questions check the correct checkbox(s).
4. To answer fill-in/short-response questions select the F2  button. Use the stylus and the keyboard displayed on remote screen to enter in fill-in/short-response answer.
5. When homework has been completed, select the softkey button under MENU.
6. Select Logout with the stylus.
7. Select Yes to logout.
8. Using the stylus and keyboard displayed on remote screen, enter in the filename for your homework to be saved as.
9. Select the softkey button under SAVE.

10. At PIN screen you can log in to join a session or power off remote.

To Edit/Review Homework File Saved to the Remote

1. From the login screen of the remote, select the softkey button under HWK.
2. Using the stylus select the homework file you wish to edit.
3. Press the softkey button under Open.
4. Using the stylus tap incorrect checkbox answers to deselect them. To edit Fill-in questions use tap inside textbox and select << or the backspace  button to delete the answer.

To Complete Homework Saved to the Remote

1. From the login screen of the remote, select the softkey button under HWK.
2. Using the stylus select the homework file you wish to complete.
3. Press the softkey button under Open.
4. Select or enter in the correct answer(s) to the questions displayed. See To Answer Multiple-Choice/Multiple-Response/Fill-in Questions.

To Activate/Deactivate Softkey Buttons

1. During a session or when entering homework the softkey buttons can be activated/deactivated by pressing the F1  button.
2. If more than five answer choices are available during a session pressing the F2  button displays answer choices F-J.

To change activate/deactivate softkey buttons from session menu:

1. Select MENU with the softkey or stylus.
2. Select Activate Softkeys/Deactivate Softkeys.

To Review Answers During a Session

Not available during Instructor-Paced sessions.

1. Use the left  and right  arrow buttons or the left and right arrows on the touch screen to review through questions.

Change the Remote's Channel

To change the remote's channel from configuration menu:

1. Press the power button  to turn on the Touch remote.
2. When the Touch's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
4. Select the button under RF.
5. Select the button under Ch. Ch will now be highlighted.
6. Use the up  or down  arrow keys to change the remote's channel.
7. Select the F1  button to save.
8. Press the power  button to turn off the remote.

Configure the Remote's Touch Screen

If the Touch screen seems to be slightly off, follow these steps to reconfigure the screen.

1. Press the power button  to turn on the Touch remote.
2. When the Touch's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
4. Select the button under TS.

5. Using the stylus, tap the top leg of the crosshair in the upper left hand corner of the remote. The crosshair should now move to the upper right hand corner of remote.
6. Using the stylus, tap the top leg of the crosshair in the upper right hand corner of the remote. The crosshair should now move to the lower right hand corner of remote.
7. Using the stylus, tap the top leg of the crosshair in the lower right hand corner of the remote. The crosshair should now move to the lower left hand corner of remote.
8. Using the stylus, tap the top leg of the crosshair in the lower left hand corner of the remote. The remote should now display Saving Parameters...
9. Press the power  button to turn off the remote.

Calibrate the Battery Monitor

The Battery is calibrated before it is shipped and should not be changed.

1. Set a power supply to 3.3 volts. Connect the power supply to the battery terminals in the Touch remote unit.
2. Press the power button  to turn on the Touch remote.
3. When the Touch's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2  , Backspace  , and Flag .
4. From the diagnostics screen, press the soft button under CFG.
5. Select the button under MIS.
6. Select the button under BAT.
7. The remote should now display Battery Cal (3.3v) Done.
8. Select the F1  button to save.
9. Press the power  button to turn off the remote.

Note: Some batteries will hold up to 4.2 volts and remotes may display more than 100% of battery left after charging.

Adjust the Remote's Display

To adjust the contrast of a remote if it appears too light or too dark:

To adjust contrast from the configuration menu:

1. Press the power button  to turn on the Touch remote.
2. When the remote's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
4. From the Configure Unit screen, select the soft key under DIS.
5. Use the up  or down  arrow keys to adjust the remote's contrast.
6. When the screen is adjusted to your satisfaction, select the F1  button to save the changes.
7. Press the power  button to turn off the remote.

To adjust contrast during a session:

1. Select the soft key under MENU from the remote session screen.
2. Using the stylus, select Contrast Adjust from the Menu.
3. Using the stylus, drag the scroll bar left to make the screen contrast darker, or right to make the screen contrast lighter.
4. When the contrast is adjusted to your satisfaction select OK with the stylus.

Setting Remote UID

The Touch remote's UID is set before it is shipped and should not be changed.

1. Press the power button  to turn on the Touch remote.
2. When the remote's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .

3. From the diagnostics screen, press the soft button under CFG.
4. From the Configure Unit screen, select the soft key under MIS.
5. Press the soft button under ADR.
6. The display will look similar to this 0 12 44 56 < 3. The four sets of numbers to the left of the < represent the hex bits of the UID address. The 3 to the right of < represents the current position we are at. The 3 represents the 0. Pressing the up or down arrows will increment 0 one at a time. Pressing Backspace  increments 0 by 10. Pressing the Flag  will decrement 0 by 10. To switch between hex sets use the left and right arrow keys. The 2 represents the hex set of 12. The 1 represents the hex set of 44 and 0 represents the hex set of 56.
7. When you have entered in the appropriate UID press F1  again to return to the configuration window. Press F1  again to save.

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 Touch remote.
2. When the remote's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2  , Backspace  , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
4. From the Configure Unit screen, select the soft key under RF.
5. Press the soft button under HOP to turn on (HOP is highlighted) and off channel hopping.
6. Press F1  to save.
7. Power 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 Touch remote.
2. When the remote's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Flag .
3. From the diagnostics screen, press the soft button under CFG.
4. From the Configure Unit screen, select the soft key under MIS.
5. Press the soft button under ATO to turn on (ATO is highlighted) and off the automaton.
6. Press F1  to save.
7. Power 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 Touch remote.

2. When the remote's UID is displayed at the bottom of the main splash screen press F1 .
3. The remote will display "RF Program Utility"
4. When the remotes have been configured they will automatically power down.
5. Remote will shut off when it has completed configuring.

Play Drop Zone Game

1. Press the power button  to turn on the Touch remote.
2. When the remote's UID is displayed at the bottom of the main splash screen, press the following buttons in order: F2 , Backspace , and Backspace .
3. Press F1  to start.
4. Use the   arrows to move the game piece to left and right.
5. Use the  arrow to rotate the game piece.
6. Use the  arrow to increase drop speed.
7. Press F1  to start a new game.
8. Press F2  to quit and turn off remote.

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.