



# SD7000 Digital Microphone Monitor Software manual

**TRANTEC**  
SYSTEMS

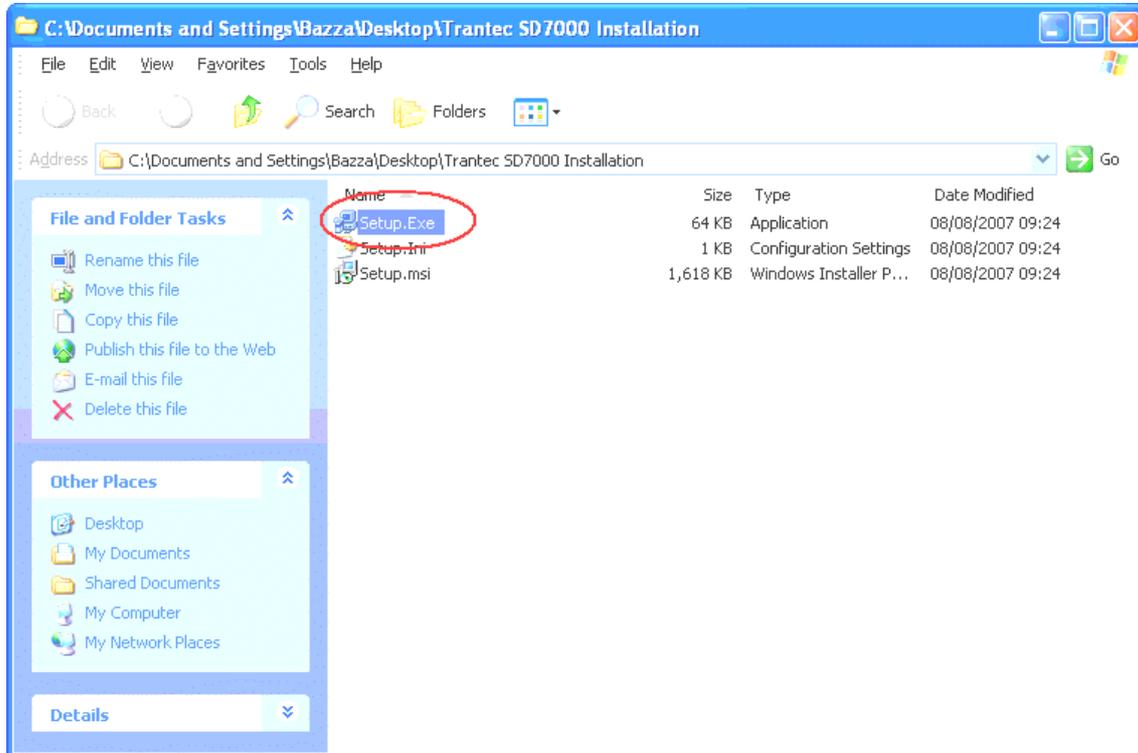


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## 1. Installing The Monitoring Software

Copy the Trantec SD7000 Installation folder from the CD to your PC desktop. Double click the folder to open the folder then double-click 'Setup'.



Run the 'Setup Wizard' leaving the default folder to 'C:\Program Files\Trantec\Trantec Digital Wireless Monitor' to install to. The installer automatically creates a desktop shortcut for the application.

## 1.1 Setting Up Your SD7000 Receivers For Monitoring

The Trantec SD7000 receiver uses a network connection to communicate with the monitoring PC. Each receiver must be set to a unique network address for the software to work. If you will be monitoring a number of receivers you will need to connect your system using an Ethernet switch. If using a single receiver then you will need a switch or an Ethernet 'cross-over' cable.

When you first configure your SD7000 receivers you must connect each receiver on its own so that its address can be changed.

To set up your system:

- i. Click Windows 'Start', 'Control Panel'. Double-click on 'Network Connections'. Right click on 'Local Area Connection' and select Parameters from the bottom of the menu. Click on 'Internet Protocol (TCP/IP)' and click the Properties button. Set the IP address for your PC to '192.168.14.61'. The Subnet mask is set automatically. For normal operation it does not matter what the settings for 'Default gateway' and 'DNS servers' are.

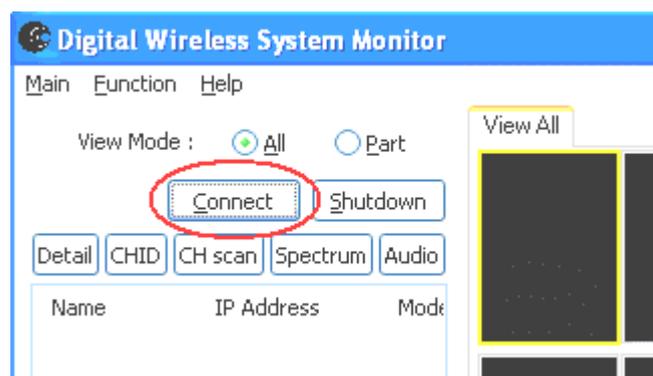
- ii. From your desktop, double-click the Trantec Digital Wireless Monitor desktop shortcut to run the software. (If you have more than one Network Interface Card you will be asked to select which one to use. Choose the option having the IP address above.)



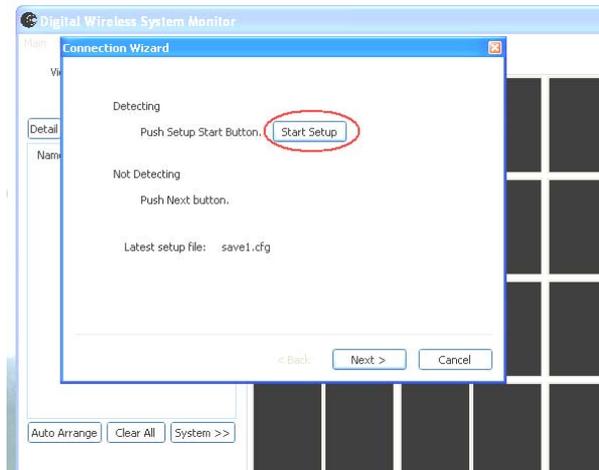
- iii. If you are using a single receiver, connect your ethernet cable from the network socket on your PC to the socket on the back of the receiver.

If using more than one receiver, connect ethernet cable from the network socket on your PC to a socket on your network switch. The first receiver can be left with the factory default address, so connect an Ethernet cable from the network switch to the second receiver.

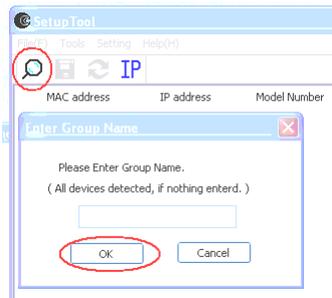
- iv. Turn on the receiver being configured.  
Click the Connect button.



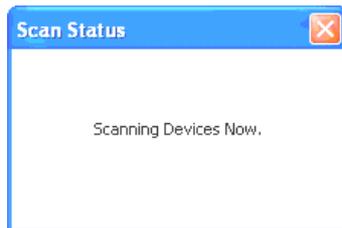
- v. Click the Start Setup button and the Setup Tool window will appear.



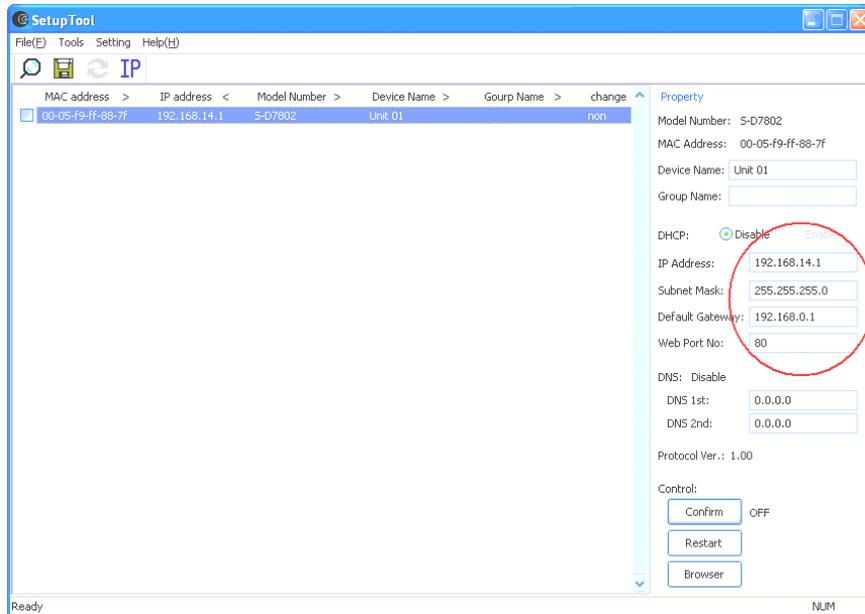
- vi. First click the magnifying glass icon and then click the OK button leaving the text box empty.



- vii. You will see the window below left. Click OK when the next window appears.



viii. The network settings for the receiver are now presented in the Setup Tool window.



Edit the last element of the 'IP address', changing '1' to '2' for the second receiver, '3' for the third, etc. (Remember that each receiver should be configured individually.) Leave the 'Subnet Mask' unchanged.

IP Address:

Subnet Mask:

When you have changed the IP address, click on the receiver data row as displayed right, then click the 'Update Receiver' button.



Click Yes to confirm the receiver setup update.

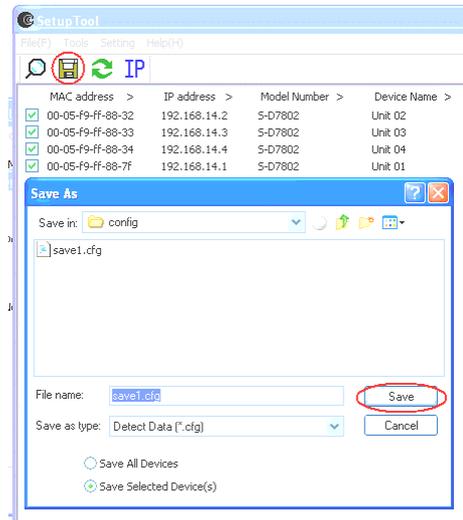
The receiver will be restarted. Now move your network cable to the next receiver.

Repeat the setup sequence from step 'iv' above for each receiver, remembering once again to connect only one receiver at a time.

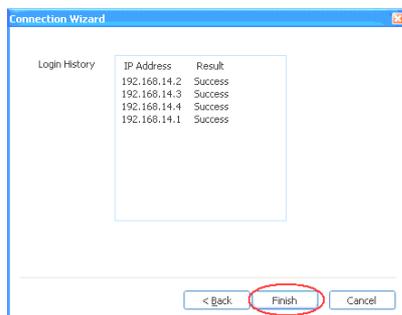
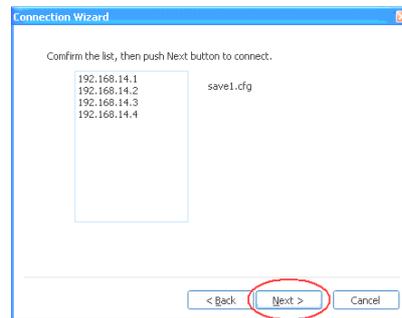
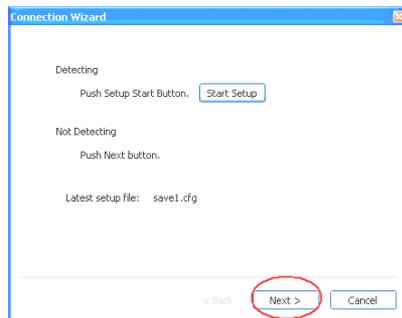


ix. When you have configured all your receivers, connect a network cable from the network switch to all the receivers and click the magnifying glass 'Detect' icon once more. Click OK and after the device-detect procedure, the setup Tool window should now display all of the SD7000s.

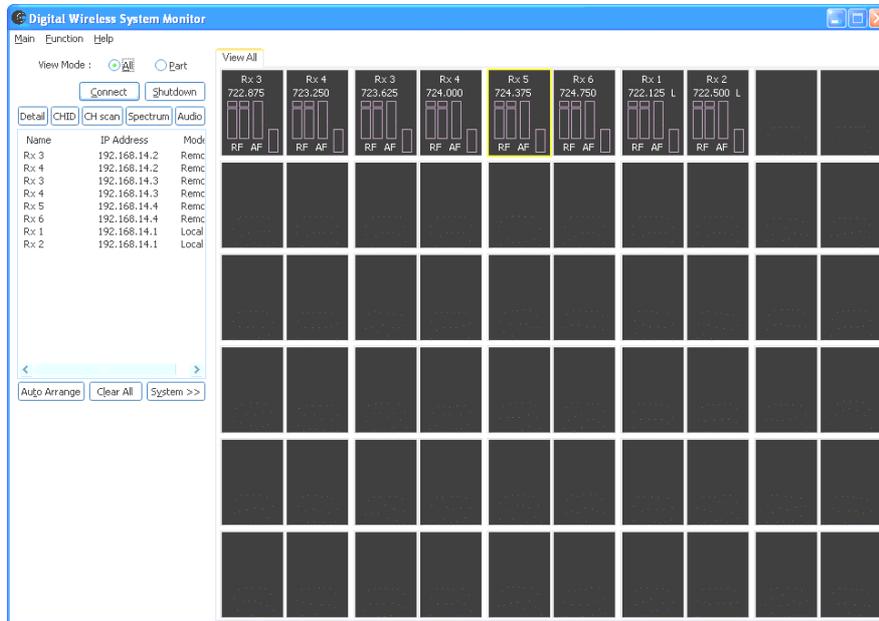
x. Click the 'Save' icon in the Setup Tool main window and then click Save from the file dialog. Do not change the name of the file, simply click the 'Save' button. If a warning is displayed saying that this file already exists, then confirm you wish to overwrite the file.



xi. You will now be returned to 'Setup Tool' window. Close this window using the 'X' corner control button. From the 'Connection Wizard' window, click the 'Next' button. You will see a list of your receivers. Click 'Next' once more. The software will then connect to all the receivers. Click 'Finish'.



The monitoring application will then present the complete 60-way monitoring screen showing the SD7000 receivers.



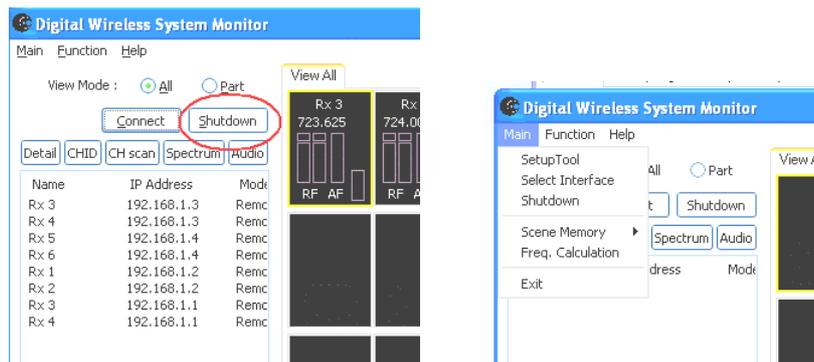
### 1.2 Running The Application Once Your System Is Configured

When your SD7000 receivers have been allocated unique IP addresses and you have saved the configuration as above you can run the monitoring application without using the 'Setup Tool'.

Simply start the application from the desktop and click the 'Connect' button. After the connection wizard appears, click Next, Next and Finish as above in section 1.1.xi.

### 1.3 Shutdown

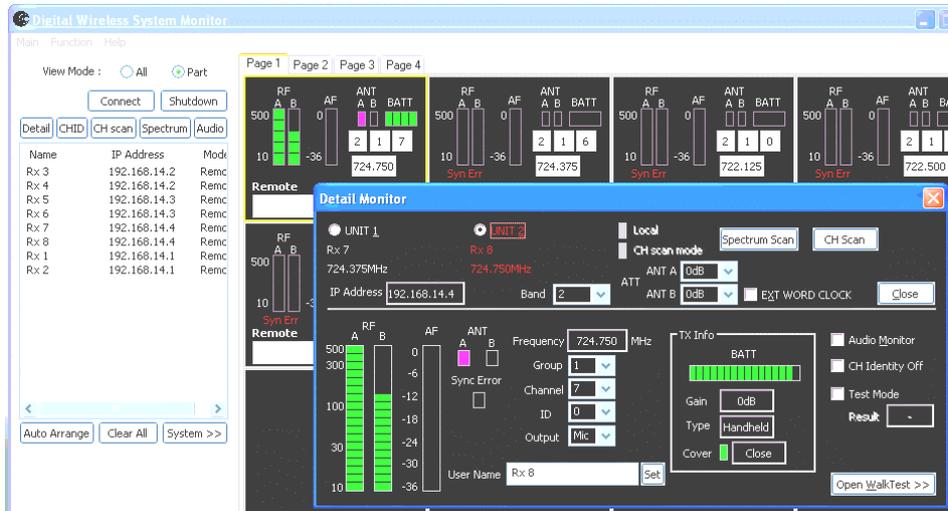
To disconnect from the SD7000 receivers, click the 'Shutdown' button.



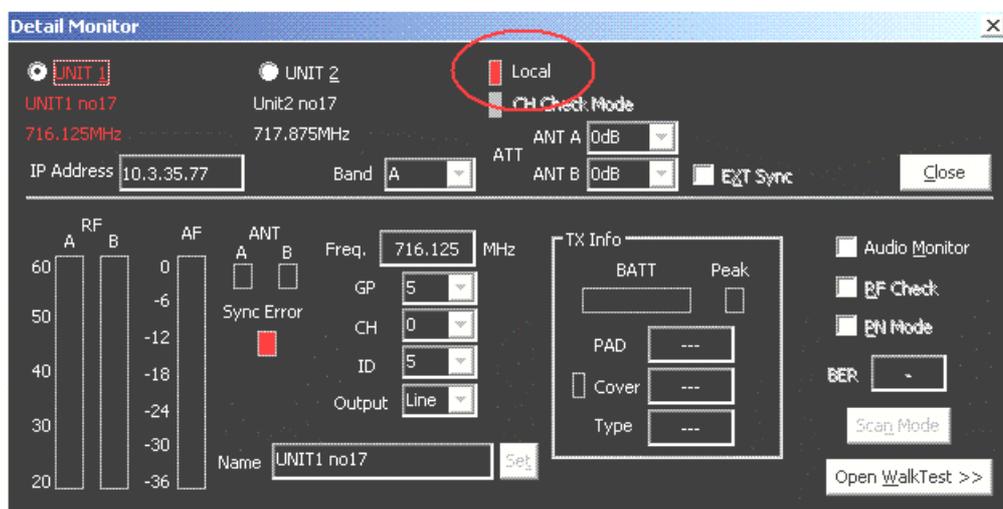
Choose 'Main' then 'Exit' from the menu or close the window to close the monitoring software.

## 2. The Detail Monitoring Panel

To open a detailed receiver parameter view, double click the mini-window.



If the receiver has been manually switched to local control using the receiver front panel, you can no longer change any parameters from the software. The indicator circled below shows red when control has been set to 'Local'. Refer to the 'SD7802 Receiver Manual' for information on how to switch receivers to remote control.



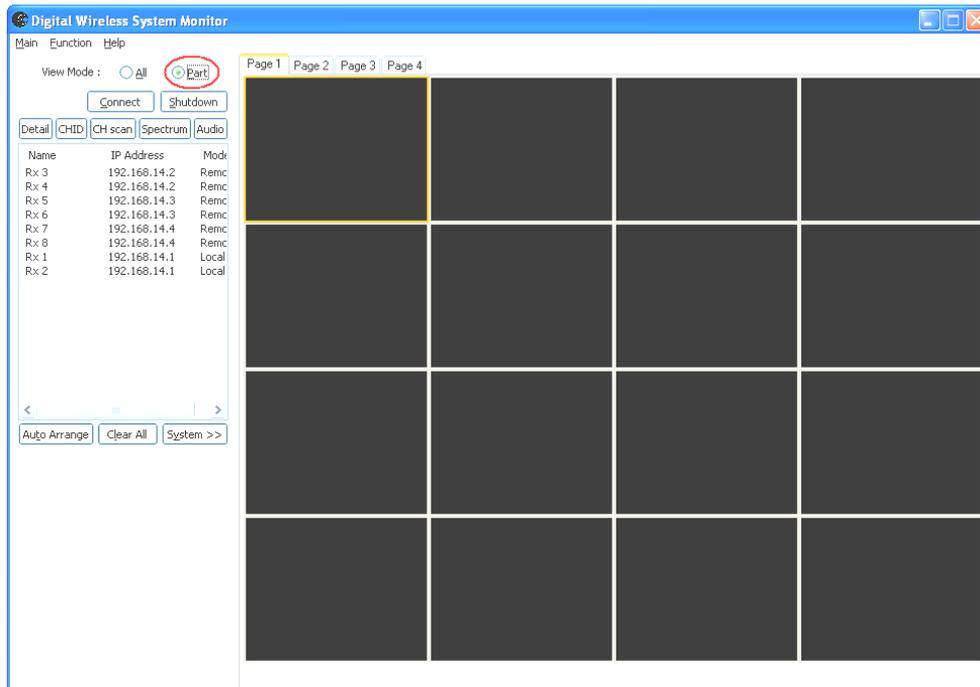
### 3. Changing The View Mode

- i. Selecting the 'All' radio button will switch the screen to the maximum 60-way view.

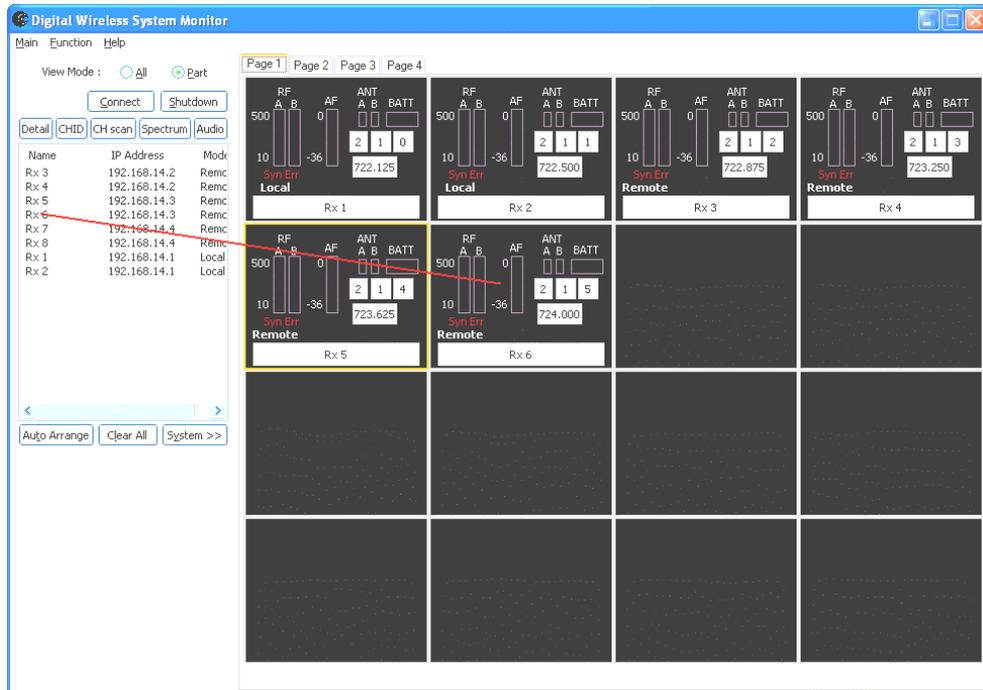


Click on any panel to highlight it, and press the 'Delete' key to remove that panel from the display.

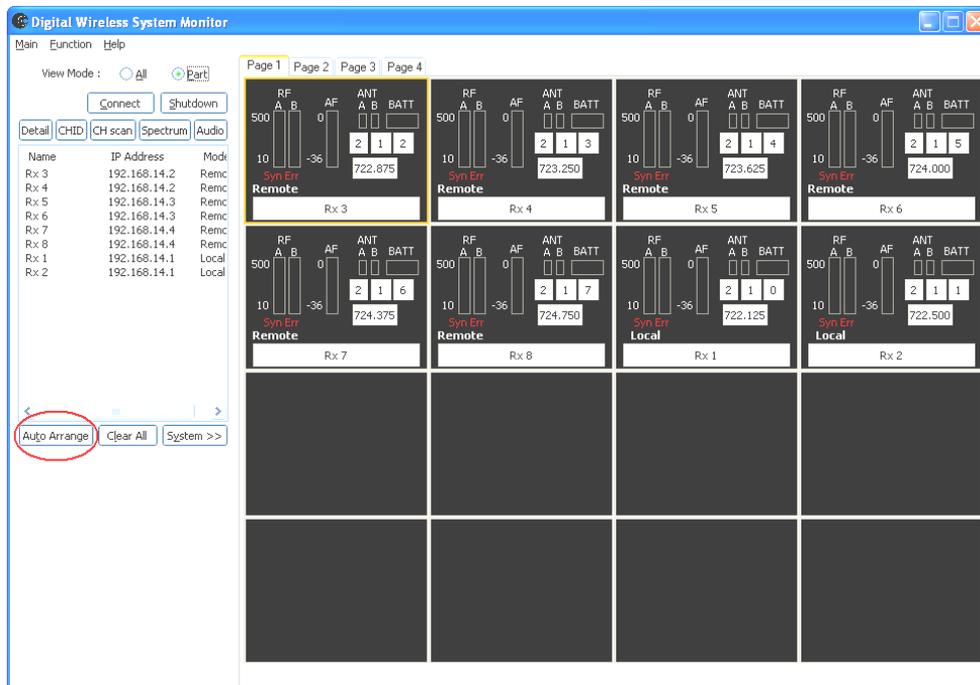
- ii. Selecting the 'Part' radio button will switch the screen to a 16-way view with tabs for each set of 16 receivers in the system. The display is initially blank as below.



iii. The receivers can be dragged to any preferred display panel from the left-hand receiver list.

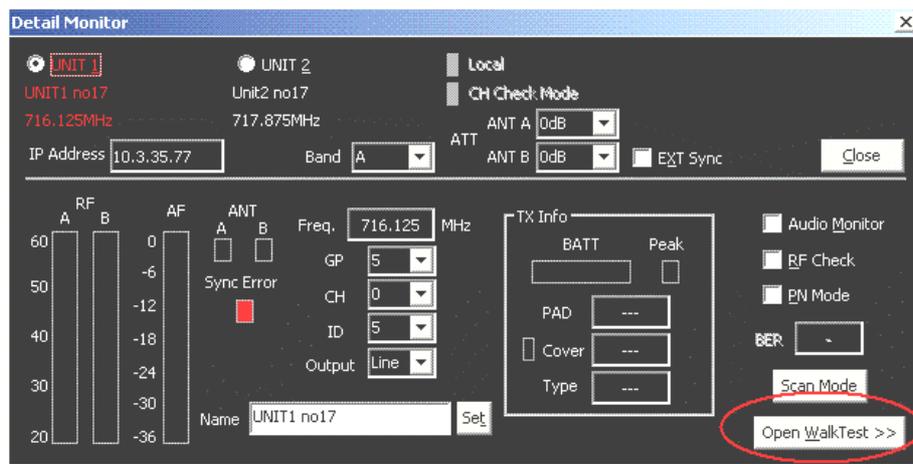


iv. Click the Auto Arrange button and the receiver monitoring panels will be displayed in the order that they appear in the left-hand receiver list.

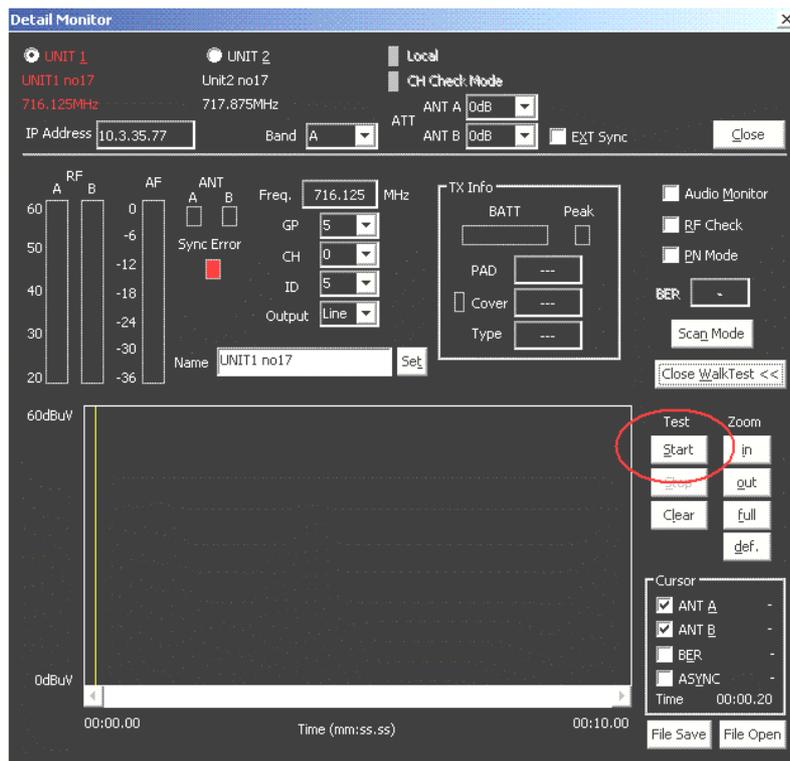


#### 4. The Walk Test

To plot a graph of signal strength for the selected receiver, click the 'Open Walk Test' button.



The window will expand automatically. Click the 'Start' button to begin the data plot.



Use the 'Stop' button to freeze the data plot.



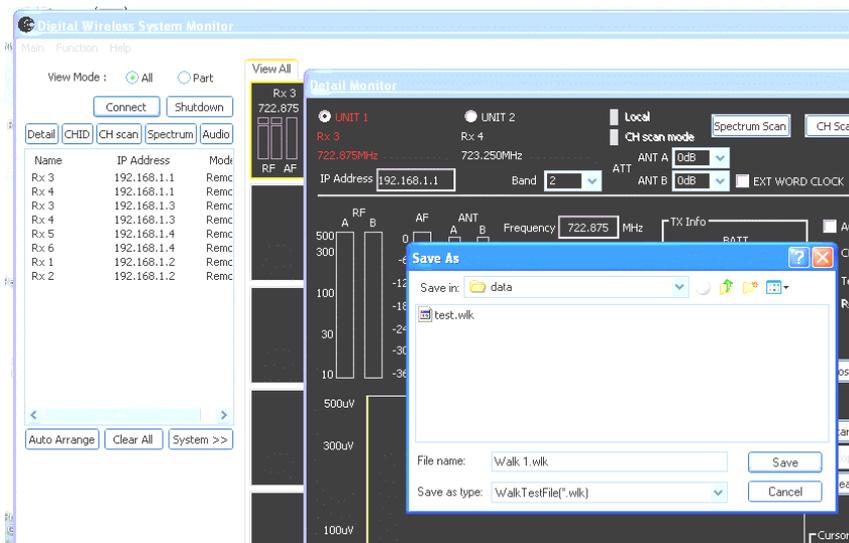
Click the highlighted buttons to zoom the graph in, out, show full test, or return to the default view.



Click the appropriate checkbox to hide/show any graph line. Clicking the 'Clear' button will remove the current data plots from the graph permanently. The plot will restart if the test is left running.

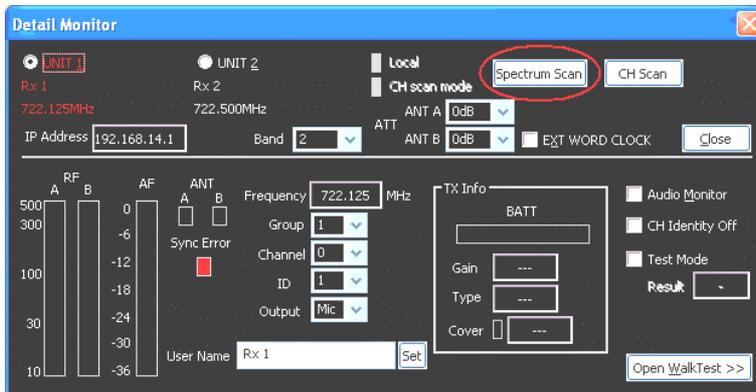


Any 'Walk' plot can be saved using the 'Save File' button, and can be opened using the 'Open File' button. Full use of the Zoom functions is available on saved files.

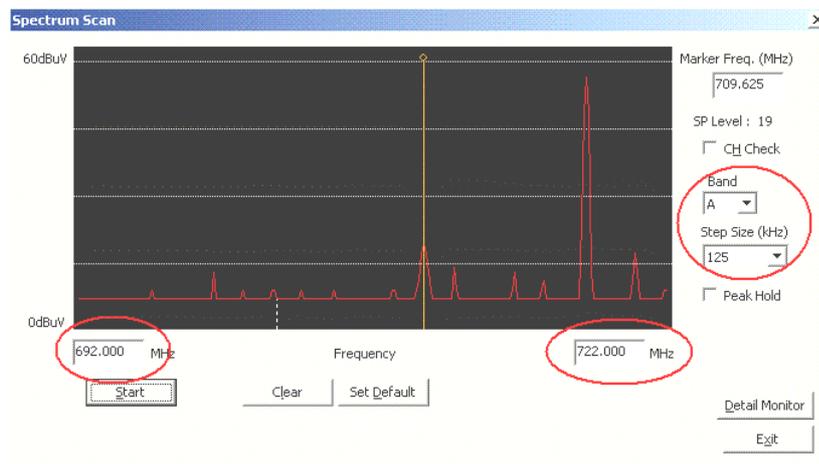


## 5. The Spectrum Scan

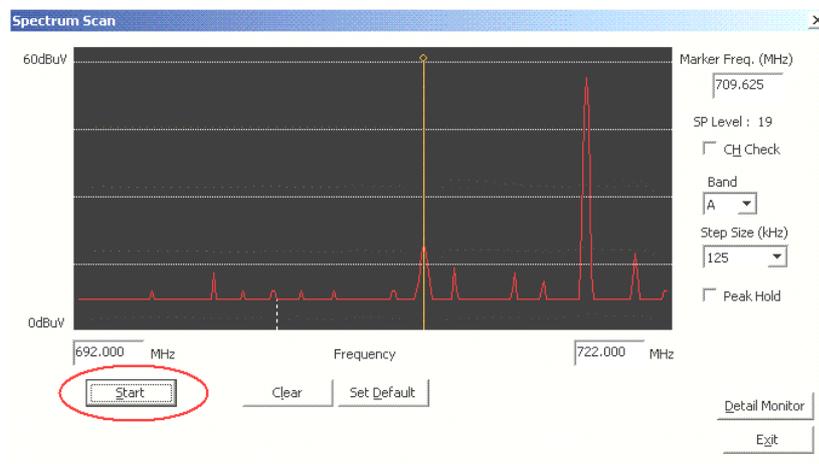
To enter scan mode click the 'Spectrum Scan' button from the Detail Monitor window.



From the scanning window, Use the right-hand drop-down boxes to select the band to scan and the scanning step size.

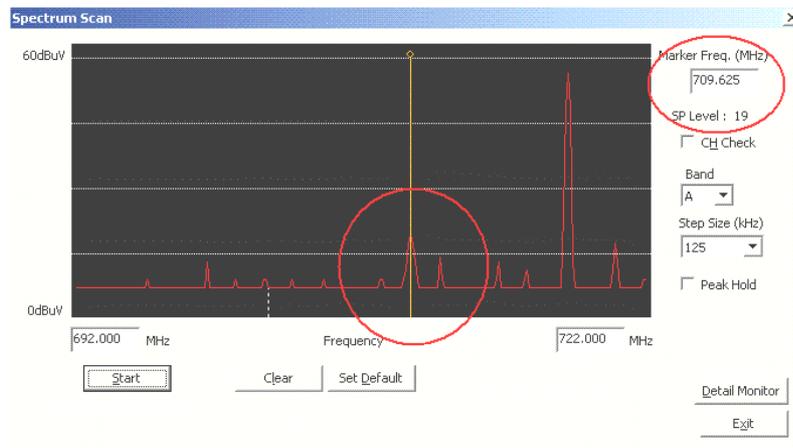


Click the 'Start' button to start and stop a scan sweep.

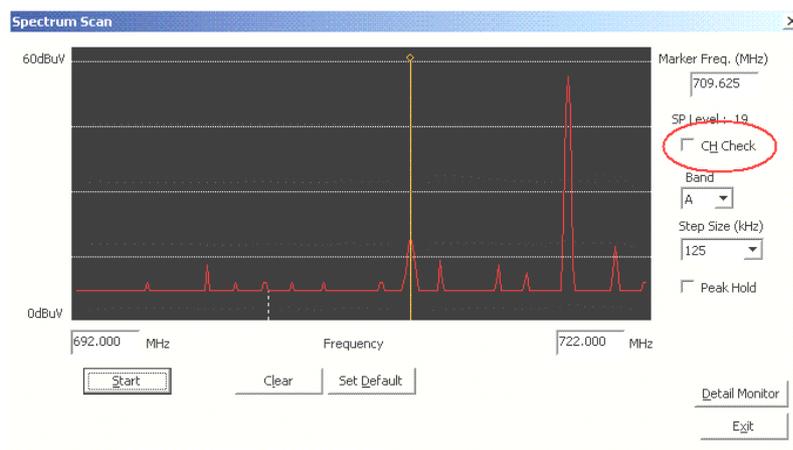


The full range of the selected frequency band will be scanned automatically therefore the 'Set Default' button need not be used.

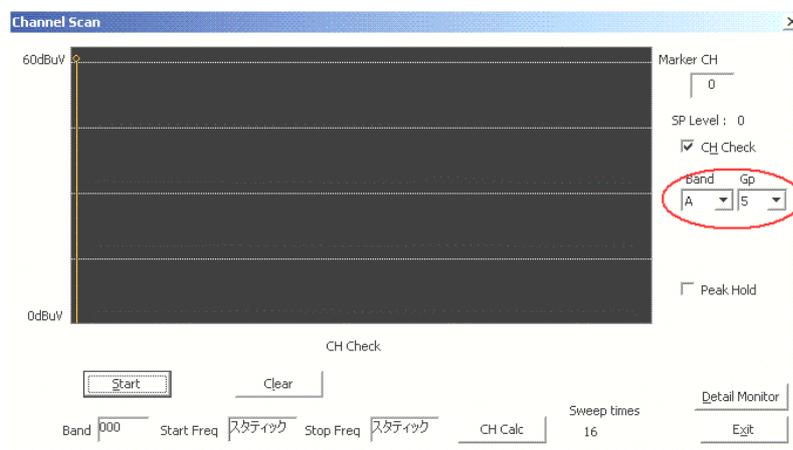
The marker cursor can be dragged with the mouse to indicate the detected transmission frequency.



Click 'CH check' to switch between a full band and a frequency group scan.

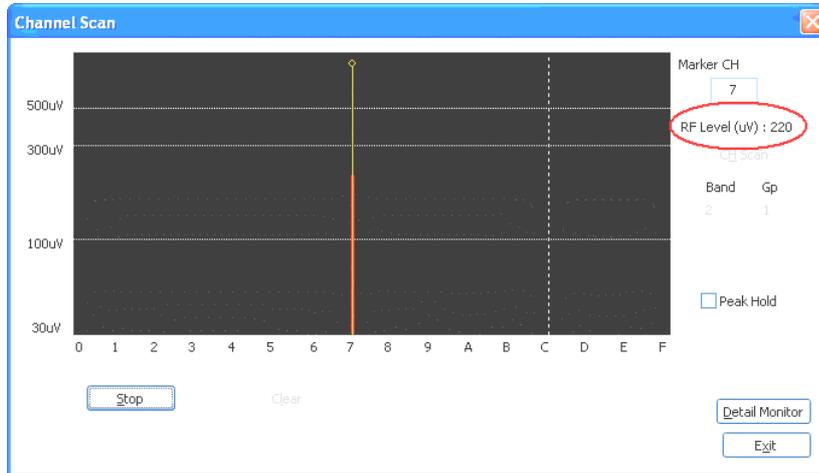


Select the frequency band and group from the drop-down boxes. The scan will check the 16 frequencies that have been allocated for the selected group.



The Peak Hold function is not currently implemented.

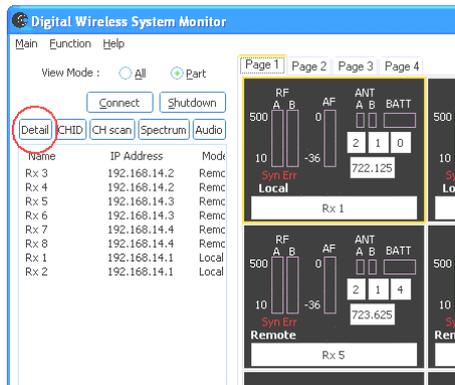
Click on the plot to indicate signal level.



## 6. The Shortcut Buttons

The shortcut buttons can be found in the upper left side of the main monitoring window.

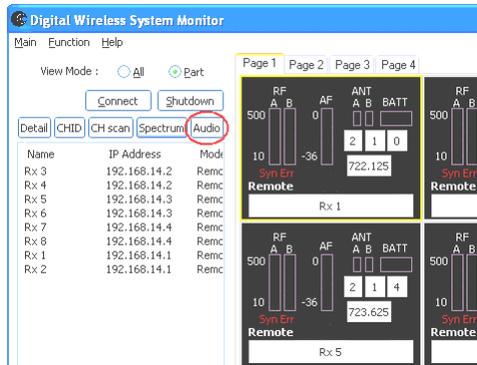
i. Click the 'Detail' button to open a receiver detailed view. Double-clicking on a panel has the same effect.



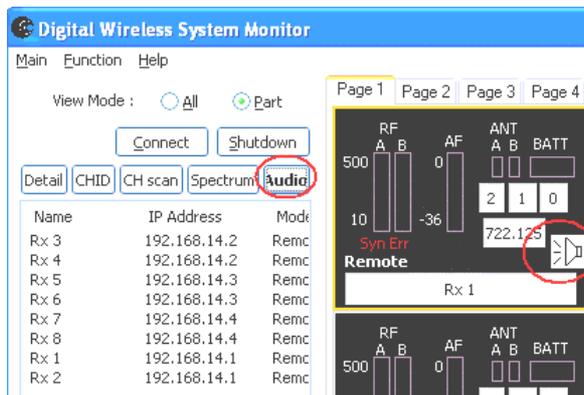
ii. Click the 'CH scan' button to run a frequency scan for the current group.

iii. Click the 'Spectrum' button to run a frequency scan for the current band.

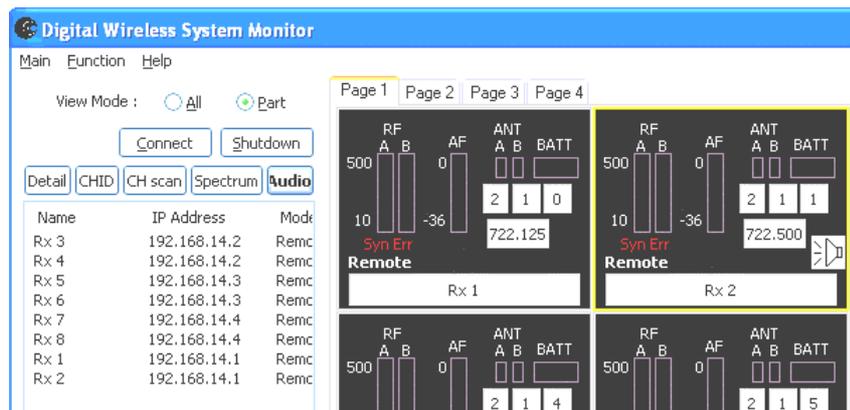
iv. Click on the 'Audio' button to stream the selected (yellow bordered) receiver audio to the PC.



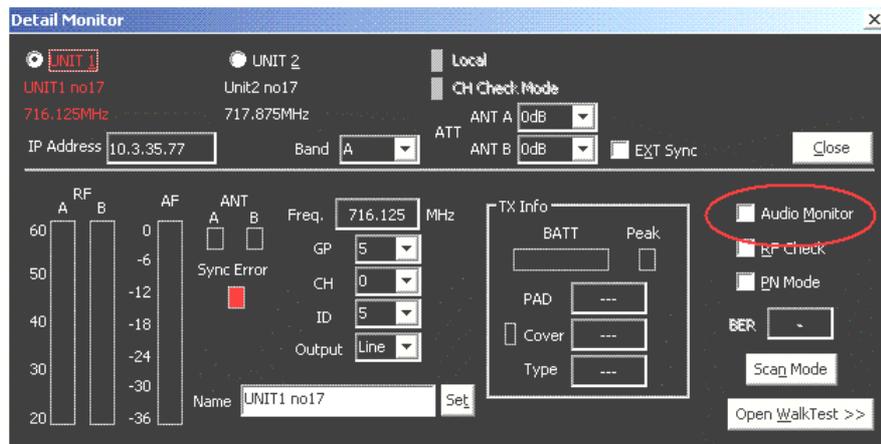
The typeface on the button becomes bold and an audio icon appears in the receiver panel when audio streaming is active.



Click on another receiver panel to switch the audio streaming to that tuner.

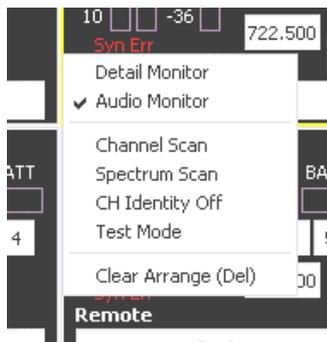


Audio monitoring may also be started from the receiver detail panel.



## 7. The Right-Click Menu

A number of features can be called up from the right-click menu.



- i. Bring up the receiver 'Detail' panel
- ii. Audio monitoring
- iii. Frequency scan of the current frequency group
- iv. Frequency scan of the current frequency band
- v. Switch the Channel ID feature

*NB Test Mode is for factory use only.*

## 8. System Settings

The settings in this section should normally be left at the default values. Changes made in this panel must be reflected throughout the system.

If you wish to change system values then you should contact BBM for advice.

