EMC Technologies Report Number: M060926_Cert_Infusion_BGW200EG

APPENDIX H

USER MANUAL

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While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions. Torian Wireless Limited reserve the right to change the specifications of the hardware and software described herein at any time without prior notice. Except for the warranties expressly set out in this document, Torian Wireless Limited makes no warranties regarding the fitness and or merchantability of the hardware and software, and does not warrant for damages resulting from corrupted or lost data due to operational errors or malfunction of the radio, the software, the memory cards, personal computers, or any device connected to the radio.

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Torian™ iRoamer™ and InFusion™ are trademarks of Torian Wireless Limited, which have recognized goodwill worldwide. InFusion™ is an Australian registered trademark. Torian Wireless Limited claims and exercises its common law trademark rights in relation to these trademarks.

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Other names and products mentioned or used in this manual are the trademarks of their respective companies.

Software License Agreement

Use of the InFusion™ is subject to the InFusion™ Software License Agreement found at www.torianwireless.com

Important Product Information

Warning: Any changes or modifications not expressively approved by Torian could void the user's authority to operate this equipment.

Note: Radiated Radio Energy: FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two 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

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, you are encouraged to try to correct the interference by one or more 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 that to which the receiver is connected

• Consult the dealer or an experienced radio/TV technician for help

Safety and Compliance Information

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Please listen responsibly. To avoid injury, read all the information and safety instructions before using the InFusion™

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• Store this equipment out of reach of children and infants. Accidental damage to the radio or batteries by a child could result in serious injury. In addition, placement of the strap around a child's neck could result in asphyxiation.

• Do not attempt to disassemble or alter any part of the equipment that is not expressly described in this guide. Disassembly or alteration may result in high-voltage electrical shock. Internal inspections, alterations and repairs should be conducted by qualified service personnel authorised by Torian Wireless Limited.

• To avoid the risk of high-voltage electrical shock, do not touch the inside components exposed as a result of damage. There is risk of high-voltage electrical shock. Please take the first opportunity to consult your radio distributor or Support Help Desk.

III

Important Product Information Continued

- Stop operating the equipment immediately if it emits smoke or noxious fumes. Failure to do so may result in fire or electrical shock. Immediately turn the radio power off, unplug the power cord from the power outlet. Confirm that smoke or fume emissions have ceased. Please consult your radio distributor or the closest radio Support Help Desk.

- Stop operating the equipment if it is dropped or the casing is damaged. Failure to do so may result in fire or electrical shock. Immediately turn the power off, unplug the power cord from the power outlet. Please consult your radio distributor or the closest Support Help Desk.

- Do not allow the equipment to come into contact with, or become immersed in, water or other liquids. Do not allow liquids to enter the interior. The radio has not been waterproofed. If the exterior comes into contact with liquids or salt air, wipe it dry with a soft, absorbent cloth. In the event that water or other foreign substances enter the interior, immediately turn the radio's power off and unplug the power cord from the power outlet. Continued use of the equipment may result in fire or electrical shock. Please consult your radio distributor or the closest Support Help Desk.

- Do not use substances containing alcohol, benzene, thinners, or other flammable substances to clean or maintain the equipment. The use of these substances may lead to fire.

- Remove the power cord on a regular periodic basis and wipe away the dust and dirt that collects on the plug, the exterior of the power outlet and the surrounding area. In dusty, humid or greasy environments, the dust that collects around the plug over long periods of time may become saturated with humidity and short-circuit, leading to fire.

- Do not cut, damage, alter or place heavy items on the power adapter cord. Any of these actions may cause an electrical short circuit, which may lead to fire or electrical shock.

- Do not handle the power cord if your hands are wet. Handling it with wet hands may lead to electrical shock. When unplugging the cord, ensure that you hold the solid portion of the plug. Pulling on the flexible portion of the cord may damage or expose the wire and insulation, creating the potential for fires or electrical shocks.

- Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards. Use only the recommended power accessories.

Torian One-Year Limited Warranty

Torian One-Year Limited Warranty

upgrades and expansions) performed by anyone who is not a representative of Torian or a Torian Authorized Service Provider; (e) To a product or part that has been modified to alter functionality or capability without the written permission of Torian; or (f) if any Torian serial number has been removed or defaced.

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YOU AGREE THAT TORIAN'S MAXIMUM LIABILITY, IF ANY, IS CALCULATED AT THE VALUE OF THE RETAIL PRICE OF THE PRODUCT YOU HAVE PURCHASED, AND YOU AGREE TO INDEMNIFY TORIAN FOR ANY ADDITIONAL COSTS AND OR DAMAGES THAT MAY RESULT AS A CONSEQUENCE OF YOUR USE OF THE PRODUCT.

CONSUMER PROTECTION LAWS

FOR CONSUMERS WHO ARE COVERED BY CONSUMER PROTECTION LAWS OR REGULATIONS IN THEIR COUNTRY OF PURCHASE OR, IF DIFFERENT, THEIR COUNTRY OF RESIDENCE. THE BENEFITS CONFERRED BY THIS WARRANTY ARE IN ADDITION TO ALL RIGHTS AND REMEDIES CONVEYED BY SUCH CONSUMER

Torian One-Year Limited Warranty

PROTECTION LAWS AND REGULATIONS. Some countries, states and provinces do not allow the exclusion or limitation of incidental or consequential damages or allow limitations on how long an implied warranty or condition may last, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by country. state or province. This Limited Warranty is governed by and construed under the laws of the country in which the product purchase took place. Torian, the warrantor under this Limited Warranty, is identified at the end of this document according to the country or region in which the product purchase look place.

OBTAINING WARRANTY SERVICE

Please access and review the online help resources referred to in the documentation accompanying this hardware product before seeking warranty service. If the product is still not functioning properly after making use of these resources, access the online website, "www. torianwireless.com" for instructions on how to obtain warranty service. You must follow Torian's warranty processes.

Torian may provide warranty service (i) at a Torian owned retail store or on location of the a certified retail outlet or the retail outlet may send the product to a Torian repair service location for service (ii) by sending you prepaid way bills (and if you no longer have the original packaging, Torian may send you packaging material) to enable you to Ship the product to Torian's repair service location for service, or (iii) by sending you new

or, refurbished customer-installable replacement product or parts to enable you to service or exchange your own product ("DIY Service"). Upon receipt of the replacement product or part, the original product or part becomes the property of Torian and you agree to follow instructions, including, if required, arranging the return of original product or part to Torian in a timely manner. When providing DIY Service requiring the return of the original product or part, Torian may require a credit card authorization as security for the retail price of the replacement product or part and applicable shipping costs. If you follow instructions, Torian will cancel the credit card authorisation, so you will not be charged for the product or part and shipping costs. If you fail to return the replaced product or part as instructed, Torian will charge the credit card for the authorized amount.

Service options, parts availability and response times may vary according to the country in which service is requested. Service options are subject to change at any time. You may be responsible for shipping and handling charges if the product cannot be serviced in the country in which service is requested. If you seek service in a country that is not the country of purchase, you will comply with all applicable export laws and regulations and be responsible for all custom duties, V.A.T. and other associated taxes and charges. For international service, Torian may repair or exchange defective products and parts with comparable products and parts that comply with local standards. In accordance with applicable law. Torian may require that you furnish proof of

Torian One-Year Limited Warranty

purchase details and/or comply with registration requirements before receiving warranty service. Please refer to the accompanying documentation for more details on this and other matters on obtaining warranty service.

Torian will maintain and use customer information in accordance with the Torian Customer Privacy Policy accessible at www.torianwireless.com.

If your product is capable of storing software programs, data and other information, you should make periodic backup copies of the information contained on the produces hard drive or other storage media to protect the contents and as a precaution against possible operational failures. Before you deliver your product for warranty service it is your responsibility to keep a separate backup copy of the contents, and disable any security passwords. IT IS POSSIBLE THAT THE CONTENTS OF YOUR HARD DRIVE WILL BE LOST OR REFORMATTED IN THE COURSE OF WARRANTY SERVICE, AND TORIAN AND ITS AGENTS ARE NOT RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF PROGRAMS, DATA OR OTHER INFORMATION CONTAINED ON THE MEDIA OR ANY PART OF THE PRODUCT SERVICED. Your product will be returned to you configured as originally purchased, subject to applicable updates. You will be responsible for reinstalling all other software programs, data and passwords. Recovery and reinstallation of software programs and user data are not covered under this Limited Warranty.

GOVERNING LAW

For the avoidance of doubt, your purchase of an InFusion™ product from Torian or any third party will be regulated by the laws of the state of Victoria, Australia. Any disputes in relation to your purchase of an InFusion™ product or these terms and conditions will be governed exclusively by the laws of the state of Victoria, Australia and the courts of the state of Victoria, Australia and the federal courts of Australia. You waive your right to claim that any matter brought before such courts is brought in an inconvenient and or incorrect jurisdiction. You agree that your use of the InFusion™ product constitutes acceptance of this clauses and the other terms and conditions set out herein.

Where to Obtain Warranty Service

Region/Country of Purchase	Warrantor	Contact/Address
Australia/New Zealand	Torian Wireless Ltd	1300 TORIAN (1300 867 426) International +61 3 8415 1994 Fax + 61 3 8415 1982
United States and other Americas Countries		Refer to the website at www.torianwireless.com
Europe		Refer to the website at www.torianwireless.com
Other		Refer to the website at www.torianwireless.com

Getting started – Unpacking and charging.

Unpack the box and make sure all the items are present:

1. InFusion™ Internet radio
2. SD MMC card
3. AC/DC mains power supply/charger
4. USB cable
5. Wrist strap
6. Earphones

Inserting the MMC card

(Note: The InFusion™ will not function in MP3 mode or recording mode without the MMC card).

Ensure the InFusion™ is off

Slide the MMC card into the slot as shown below and press into place.

Figure 1: Sliding the MMC Card into the MMC slot
NB: The Torian logo faces down when inserting the MMC Card
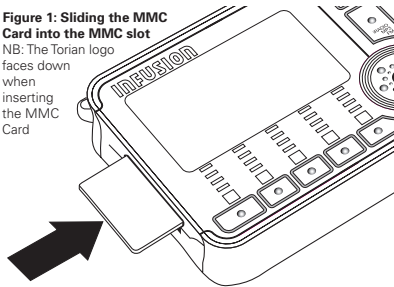
External connections

Please take note of the external connections as indicated below.

Figure 2: External Connections

Earphone Jack

USB Port
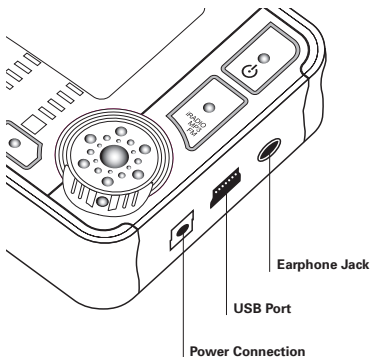
Power Connection

Getting started – Unpacking and charging.

First time charge

The internal battery will need charging for the InFusion™ to work. To charge the battery, connect the power supply lead to the radio at the power connection port (see Figure 2, left)

The InFusion™ will auto-start when connected to the charger. This may take up to 30 seconds.

Wait approximately 2 to 3 hours for the battery to charge.

You can use the full functionality of your InFusion™ while charging is taking place. You can also connect your InFusion™ to a PC via the USB cord, while charging is taking place, to load music, adjust settings etc.

USB Charging

The InFusion™ can also be charged by connecting via the USB cable to a PC. The charge time will be significantly longer. The exact length of time will depend on what functions the InFusion™ is carrying out while USB charging is taking place

Note:

The very first time the InFusion™ is started up you will be asked to select the country you are in from a list. Use the scroll button to scroll up or down until your country is highlighted, and then press the select button. The InFusion™ will continue starting up.

Attaching the wrist strap

The wrist strap should be attached to the device as follows:

Slide the narrow end of the strap through the loop;

Then, take the broad end of the strap and pull it through the loop created by the narrow end.

Pull gently to close.

Figure 3: Attaching the wrist strap

WORLD TUNE IN TO THE

User Interface Overview

LCD Display ❶

❻ **Power/Cancel**

❺ **IMF Button**

❹ **Select Button**

❸ **Toggle**

❶ ❷ ❸ ❹ ❺
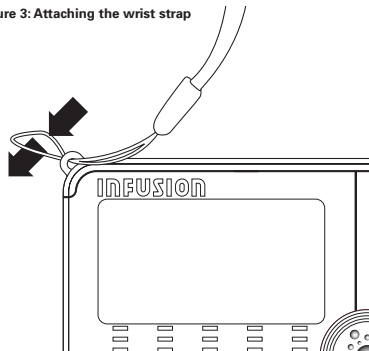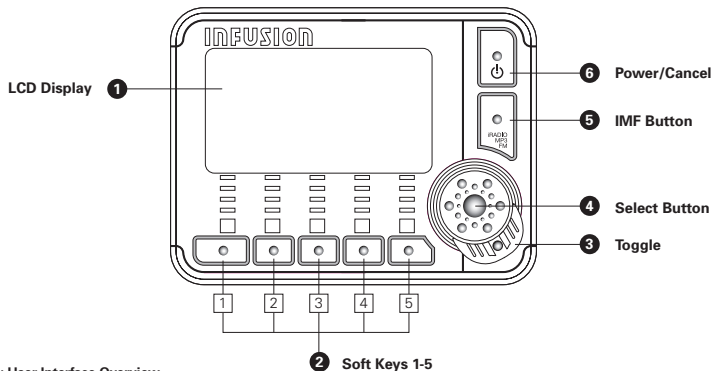
Figure 4: User Interface Overview

❷ **Soft Keys 1-5**

The InFusion™ has the following hardware interfaces:

❶ **LCD Display**

❷ **Soft Keys 1-5** - Allows you to quickly access various pre-sets which may have been created on the system.

❸ **Toggle** - Adjusts volume when in play screens

Scrolls through the menu options when in a menu system.

Cycles through the alphanumeric characters when text editing.

❹ **Select Button** - Acts as a selection button when in menus and text applications.

Enters menu system when in play screens.

❺ **IMF Button** - Switches between iRadio, MP3 and FM Radio modes.

Enters InFusion™ Setup screen if held.

❻ **Power/Cancel Button** - Turns the InFusion™ on and off when held for more than 2 seconds.

Acts as a cancel button when in a menu system if held for less than 2 seconds.

1

On/Off, Mode Change and Volume

Startup   MP3   iRadio   FM Radio

InFusion™ Setup
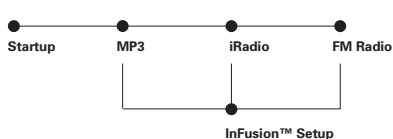
On/Off, Mode Change and Volume

Turning the InFusion™ On

The InFusion™ is turned on using the Power/Cancel Button. *The button need to be held for at least 10 seconds for the device to turn on.*

Figure 6: Turning the InFusion™ On.
Hold for at least 10 seconds

6   Power/Cancel
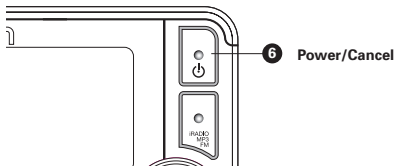
When the InFusion™ is turned on for the first time it will start in MP3 mode.

Figure 7: IMF Button – Mode Change
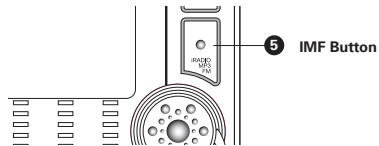
5   IMF Button

Mode Change

The InFusion™ has 3 distinct modes: MP3, iRadio and FM Radio.

To change between these modes, press the IMF Button for less than 2 seconds. The InFusion™ will move between MP3, iRadio and FM Radio modes if in one of the three play screens.

The InFusion™ enters the InFusion™ Setup screen by holding the IMF Button for more than 2 seconds.

Turning the InFusion™ Off

The InFusion™ is turned off by holding the Power Button for more than 2 seconds in any screen.

On/Off, Mode Change and Volume

Volume

Adjust the volume by moving the Toggle whilst playing any audio content (MP3, iRadio or FM Radio).

- *Move down and to the left to decrease volume*
- *Move up and to the right to increase volume*

Figure 8: Volume Control

Increase Volume

Decrease Volume
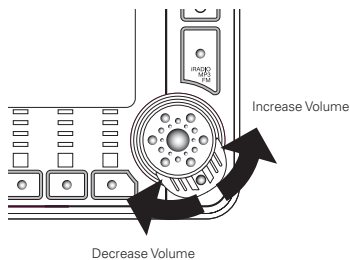
Note: The toggle will not affect the volume when in the menus – only when in the play screens.

Text Entry

When first entering a text entry screen a character will be displayed on the far left of the screen.

This character can be changed by using the Toggle; the character will cycle through the available alphanumeric symbols. Pressing the Select Button will set this character and move the cursor one position to the right; a new character will appear and can be changed with the Toggle again.

Continue these steps until the text is entered. If necessary the cursor can be moved back through using soft keys 1 and 5.

• *Soft key 1 relates to a back arrow*   ←

• *Soft key 5 relates to a forward arrow*   →

A character can be corrected by placing the cursor at the position of the character and using the Toggle. A character can also be deleted by pressing soft key 4.

You do not need to press the Select Button for the last character, simply leave the cursor at the last characters position.

Once the text entry is complete you can press Soft Key 3 to enter the text in the InFusion™ and go to the next screen.

Figure 9: Typical Text Entry Screen

2 Soft Keys 1-5

4
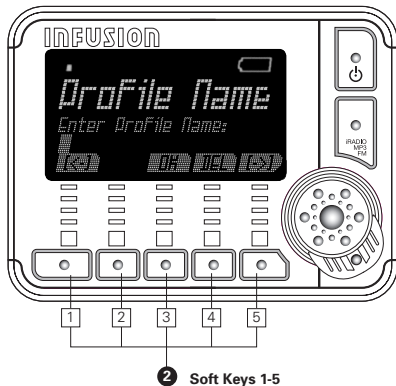
MP3 Mode

Figure 10: MP3 Player menu map

MP3   iRadio   FM Radio

InFusion™ Setup

Play Mode   Playlist

Delete

Delete Song Folder   Delete All Songs

Confirm

Normal   Shuffle   Repeat Song   Repeat All
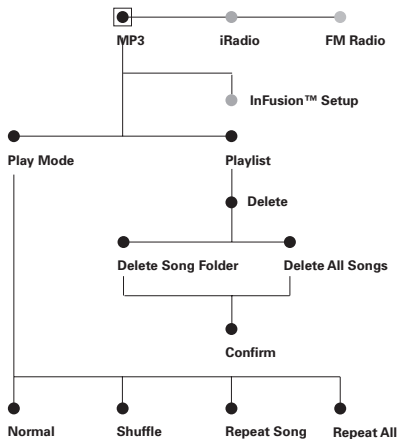
MP3 Mode

The LCD shows the total track time, the current track time, the name of the track and the name of the album.

When fast forward is selected the device will move through the current track until it reaches the start of the next track. The device will then start to play the next track and not continue to fast forward through it.

The Play or Pause icon above the LCD will be lit accordingly, as will the icon mapping to Soft Key 3

Figure 11: InFusion™ in MP3 Mode

5
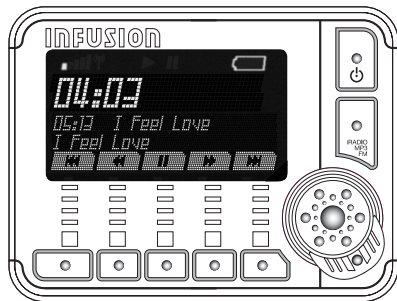
MP3 Mode

MP3 Mode - No Memory Card

If there is no memory card inserted in the device you can still enter the MP3 Setup menu system.

MP3 Mode - No Tracks Found

When the InFusion™ is in MP3 mode and there are no MP3 tracks on the memory card, you can still enter the MP3 Setup menu system.

MP3 Setup

When you enter MP3 Setup any music playing will continue to play. You can:

- exit the mode at any time (press Cancel Button).

- choose to view the Playlist

- change the Play Mode by pressing the Select Button while the Play Mode option is highlighted. The mode displayed will change with each Select Button push; or

- enter the InFusion™ Setup.

Playlist

The device will display the folders and tracks found on the memory card. Any folders found will be listed fi rst (in alphabetical order) and then any tracks not in a folder (also in alphabetical order).

An icon will be displayed next to each item found, designating if the item is a folder or a track. An icon of a folder will designate a folder and an icon of a musical note will designate a track.

You can scroll through the list of items. If a folder is highlighted, you can play the folder by pressing Soft Key 2. The device will then return to the play screen and begin playing the folder.

You can open a folder by pressing the Select Button. The device will then display a list of folders and tracks in the newly open folder. You can also delete the highlighted folder by pressing Soft Key 4 in the Playlist screen. The device will then go to the delete screen.

If a track is highlighted, you can play the track by pressing Soft Key 2. The device will then return to the MP3 play screen and play the track. You can also delete the highlighted song by pressing Soft Key 4 in the Playlist screen. The device will then go to the delete screen.

Figure 12: MP3 Setup

6
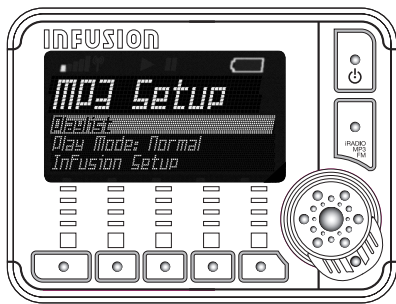
MP3 Mode

Playlist Folder

The InFusion™ does not have the ability to create and save play lists as such, but you can create groups of MP3 tracks by saving your music in folders when you copy MP3 files to your MMC.

In this way you can select and open a folder and just play the tracks in that folder.

The LCD will display the name of the folder that has been opened. You will be given the same options as in the Playlist menu.

You can delete a highlighted folder or track by pressing Soft Key 4, this will take you to the delete confirmation screen.

You can go further into the folder sequence by pressing the Select Button on each new folder.

You can also return out of each folder by pressing the Cancel Button.

Delete Function

The delete function allows you to delete a folder, a track or all items on the memory card.

Once you have chosen an option the device will go to a confirmation screen.

• You can confirm the deletion of the track, folder or all contents by pressing Soft Key 1 for "Yes".

  The selection will be deleted and the device will return to the Playlist or folder it was in.

  If you choose to delete all items on the memory card the items will be deleted and the device will return to the "No Tracks Found" screen.

• Should you wish not to delete the selection, simply press the cancel button and device will return to the Playlist or folder it was in.

Figure 13: Delete Screen
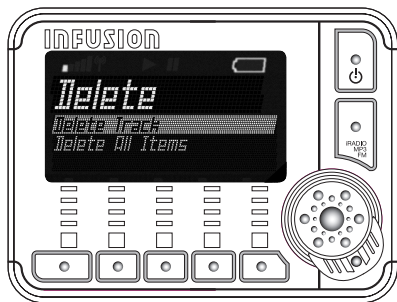
What is internet radio?

Internet radio refers to audio services that stream over the internet. Nearly every modern free to air "terrestrial" station has an online presence and there are many more that only broadcast their content via the internet.

Normally, you would require a PC to connect to the internet to listen to any of these services, and whilst you may be able to access the internet wirelessly either at home or in a WiFi zone, one could hardly describe a PC or a notebook truly portable and convenient.

Your InFusion™ changes all that. The InFusion™ uses iRoamer™ Technology which gives access to the internet without the need for a PC.

It is the world's first truly portable internet radio, giving you ease of use, choice of streaming radio stations and a host of features beside.

However, there are a few things you need to know in order to fully enjoy your InFusion™

Connecting to the internet

Unlike the MP3 mode which can be used wherever you are (as long as you have the MMC card installed) and the FM mode which can be used wherever normal FM radio signals are received, a pre-requisite of using your device to listen to radio over the internet is that you have to have a wireless connection to the internet (or connect via USB to a PC). Wireless connections can be via a wireless network at home, or via a WiFi Hotspot.

Wireless home network

Many home networks are now wireless. If you have a wireless network you can connect your InFusion™ to it and access the internet. You may have to provide a password if the wireless network has security – just as you would when using any other wireless device on your network.

WiFi Hotspots

WiFi Hotspots are venues that offer wireless access to the internet.

Hotspots are often found at restaurants, train stations, airports, libraries, coffee shops, bookstores, and other public places.

Many universities and schools have wireless networks in their campus.

What's more, the number of Hotspots is set to grow exponentially around the globe over the next few years.

More and more Hotspots are free, but some require a subscription.

Services such as iPass give you access to participating Hotspots on a fee basis, and your InFusion™ is setup to take advantage of this.

Remember that connecting the InFusion™ to a wireless network is very much like connecting any other network device. If you have any problems, please consult your InFusion™ dealer for assistance.

What is internet radio?

How do I locate my internet radio stations on the InFusion?

The InFusion™ interface is designed to allow you to locate your stations with ease by:

- **The Custom Address** option allows you to enter a web address (URL) for a station.

- **Previous Search** redisplays the last search.

- **Content services** for example:

  InFusion™ Search searches a database of stations provided by Torian.

  Live365 Search searches a database of stations provided by Live365 network.

  There are various options for searching these available networks which are explained more fully in the section that follows.

Will I be able to save network connection settings?

Yes. Just as you may need different settings to connect a PC or notebook to different networks, you may need different settings to access different wireless networks.

The InFusion™ allows you to save these settings for rapid access when you return to a particular WiFi zone or wireless home network. Please see page 22, *Profile Configuration* for more details.

Will I be able to save my favourite radio station settings?

Yes again. The InFusion™ allows you to save your station presets for ease of access.

Please see page 17, *Station Selection* for more details.

Can I record audio for "Time Shift" listening?

Yes. The InFusion™ can record MP3 format streams. It allows you to set recording times and to record audio for subsequent listening (The MMC card must be inserted. Audio recording is limited to the available space on the MMC card).

For more information, see page 14, *Record (Start/Stop* and page 20, *Alarm Setup.*

Please note that recording can be set while you are listening to an MP3 format stream or can be set to begin and end at prescribed times. This time based recording is managed through the "Alarm" interface.

iRadio Mode

Figure 14: iRadio Menu Map
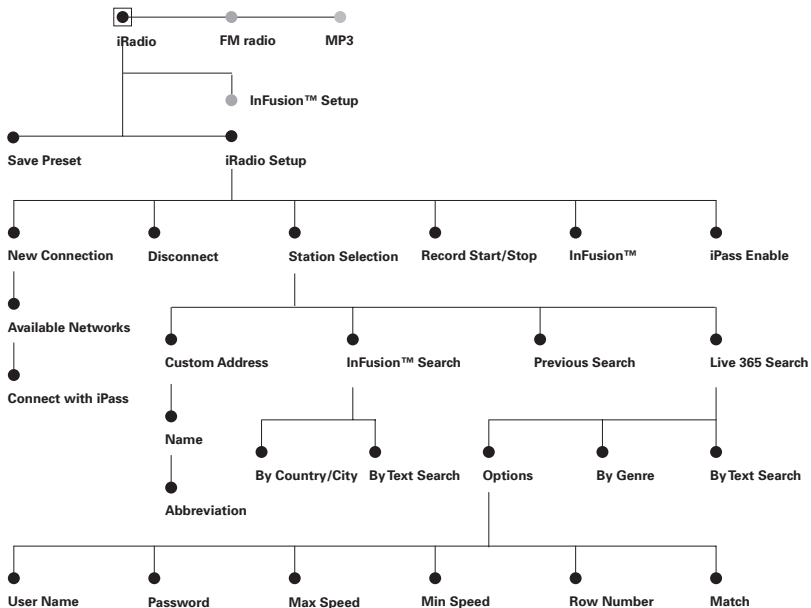
iRadio Mode

When you first enter the iRadio Mode the device will not attempt to connect to a network. You can connect to a network by either pressing one of the preset Soft Keys or via the iRadio Setup menu and selecting New Connection.

Figure 15: InFusion™ in iRadio Mode
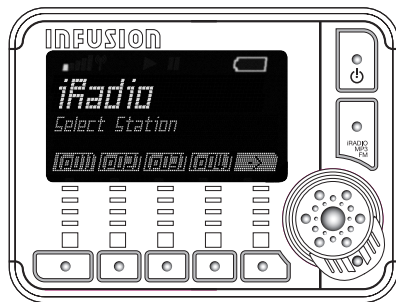
If you press a preset Soft Key (either with or without a preset station designated to it) the device will attempt to connect to a network. The LCD will display that the device is attempting to connect.

If the connection is successful, the device will return to the iRadio play screen and will begin streaming the selected station. If you have selected an empty preset the device will connect

to a network but no station will stream.

If the connection is not successful the device will display any available networks on the Available Networks screen. If no networks are available the device will display "No Networks Found" and return to the iRadio play screen.

You can preset a station by holding a Soft Key for the desired location. The device will go to a text entry and ask you to enter an abbreviation for the station. The text entry screen will be pre-populated with the stations name.

If an existing preset is already in the location, the new preset will override it.

Stations are labelled by their radio abbreviation on the Soft Key tab and their name is displayed when they are playing.

If a stream is being recorded the "Record" icon will be lit.

iRadio Mode

Available Networks

You can select the network you wish to connect to by pressing the Select Button. If the connection is successful the device will return to the iRadio play screen (if a Soft Key had been pressed) or return to the iRadio Setup screen (if the connection had been attempted from there).

If connection cannot be made you will be advised and the device will return to the "Available Network" screen.

You can edit a network by pressing Soft key 3, the device will go to the "Configuration Profile" screen for the network. Once you have updated the profile you can select "Save Settings" and the device will attempt to connect to that network.

If the connection is successful the device will return to the iRadio play screen (if a Soft Key had been pressed) or return to the iRadio Setup screen (if connection had been attempted from there).

If the connection is not successful the device will advise you and return to the "Available Network" screen. From here you can try to connect again to any of the available networks, or exit out of the screen using the Cancel Button to the iRadio Setup screen.

Preset Abbreviation

You can enter the preset stations abbreviation which will appear in the preset tab on the play screen. The screen will be pre-populated with the stations name.

iRadio Setup – when not connected

If the device is not connected you will only be given the two options of either

- **New Connection:** Make a new connection

- **InFusion™ Setup:** Enter the *InFusion™ setup* (see page 19).

Figure 16: iRadio Setup Mode

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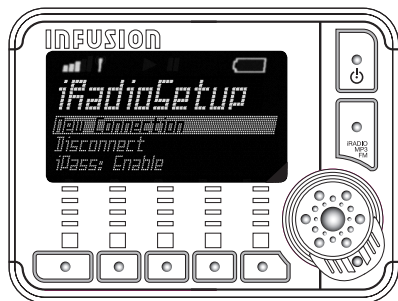
iRadio Setup – when connected

When the device is in iRadio Setup mode if the device is connected you will be given the options:

- **New Connection:** Make a new connection or change to a new connection

- **Disconnect**

iRadio Mode

- **Station Search:** Go to *Station Search*

- **Record:** The Record option will be displayed as "*Record: Start*" when not recording, and "*Record: Stop*" when recording.

  The Record status can be changed by pressing the Select Button when Record is highlighted.

  "*Record*" will only be available when the MMC card is inserted and a station is streaming in MP3 format.

- **iPass:** *Enable* or *Disable* iPass. The iPass option will be displayed as "*iPass: Enabled*" when enabled, and "*iPass: Disabled*" when disabled.

  The iPass status can be changed by pressing the Select Button when iPass is highlighted

- **InFusion™ Setup:** Enter the *InFusion™ setup* (see page 19).

New Connection

If you choose New Connection, the device will search for available networks. The LCD will display that a search is being done. If the search is successful the device will display a list of available networks. You can attempt to connect to a network by pressing the Select Button when the network is highlighted. If the connection is successful the device will return to the iRadio Setup.

New Connection is still provided so you can change your current connection to another network. If you select New Connection when already connected the device will display the Available Network screen.

If the connection is unsuccessful the device will display that the connection was unsuccessful. The device will again display a list of available networks on the "Available Network" screen.

You can choose to edit the highlighted network by pressing Soft Key 3. The device will enter the "Profile Configuration" screen for the network. You can edit the network configurations, save settings and attempt to connect again.

If no available networks are found the device will display "No Networks Found" and return to the iRadio setup screen.

iRadio Mode

Disconnect

If you choose to Disconnect, the device will disconnect from the server. The LCD will display that the device is disconnecting. The device will then return to the iRadio Setup screen and you will be given the reduced options of "New Connection" and "InFusion™ Setup".

Record: (Start; Stop)

When the device has a memory card inserted and it is streaming a station you will be given the option to record that station. When you select this option the device will move to the iRadio play screen and the Record icon above the LCD will be lit. If you now enter the iRadio Setup screen you will be given the "Record: Stop" option.

Once the memory card is full the device will stop recording and you will be informed that the memory card is full.

If you choose to stop recording the device will remain in the iRadio Setup screen, the record icon will no longer be lit and the Record: Start option will be displayed.

Listening to recorded audio

Recorded audio is saved as an MP3 on the memory card. It can then be listened to the same as any other MP3 on the memory card in MP3 mode.

Station Search

You can choose how you would like to search for an iRadio station to stream.

• **The Custom Address** option allows you to enter a web address for a station.

• **Previous Search** re-displays the last search (if no previous search has been made this option will not be available).

• **Content services** will be listed, for example:

  InFusion™ Search searches a database of stations provided by the Torian.

  Live365 Search searches a database of stations provided by the Live365 network.

Note: *These services may not always be available. The availability of a particular service will depend on connection type and service purchase. If it is not available the service will not be listed as an option.*

Custom Address

If you select "Custom Address" you can enter the exact URL of the station you wish to listen to. You do not need to enter a "http" prefix.

Custom Name

You can enter in a custom station name for the station being set. Pressing "OK" moves you to "Custom Abbreviation".

iRadio Mode

Custom Abbreviation

You can enter in a custom station abbreviation for the station being set; this is restricted to 3 characters. Pressing "OK" moves back to the iRadio play screen and begins playing the entered station. You can hold a Soft Key to preset the station. If the device cannot stream from the web address an error message will be displayed.

Previous Search

Previous search will only be displayed when a previous search has been made. You may select a station from the list and will then be taken back to the iRadio play screen, where the station is played (you can then preset the station by holding a Soft Key for the desired location).

InFusion™ Search

You can choose how you would to search InFusion™.

"*By Country/City*" will allow you to browse through a menu list of countries, followed be states, and then cities.

"*By Text*" allows you to search for a station by name.

By Country

This menu allows you to select from a list of countries available in InFusion™ search. By selecting a country you are taken to the state screen.

Soft Key 1 – Jumps menu to the first country starting with "A".

Soft Key 2 – Jumps menu to the first country starting with "F".

Soft Key 3 – Jumps menu to the first country starting with "L".

Soft Key 4 – Jumps menu to the first country starting with "Q".

Soft Key 5 – Jumps menu to the first country starting with "W".

The Toggle moves between menu items.

The Select Button selects the menu item.

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iRadio Mode

By State

This menu allows you to select from a list of states available in InFusion™ Search from the chosen country. By selecting a state you are taken to the City Screen.

By City

This menu allows you to select from a list of cities available in InFusion™ Search from the chosen state. By selecting city you are taken to the Station Selection Screen.

By Text Search

You can enter in a search term. By selecting "OK" the InFusion™ will search for a station name/s that match the term and put those stations into a list for viewing in the "Station Selection" screen.

If no results are found, the message "No results" is displayed, and the InFusion™ will return to the "By Text Search" screen.

For details on text entry, please refer to page 4

Live365 Search

You can select the way you want to search Live365. "By Genre" allows you to search based on Genre. "By Text Search" allows you to type in a text string that is used to search Live365. "*Live365 Options*" allows you to set the specific parameters to clarify the search or to view the results of the search.

The Toggle moves between menu items.

The Select Button selects the menu item.

Live365 Search By Genre

You can select a genre in which to search for stations. If sub-genres exist for the selected genre, then a list of sub-genres is displayed including the genre at the top. If no sub-genres exist the InFusion™ will go directly to the Station Selection Screen, displaying stations from that genre.

You now have the choice to search the entire genre or just one of its sub-genres. If you select the genre again, the InFusion™ will display the stations under all the sub-genres. If you selects a sub-genre the InFusion™ will display only the stations under that sub-genre. The InFusion™ will display the results on the Station Selection Screen

iRadio Mode

Live365 Search By Text Search

You can enter in a search term. By Selecting "*OK*" the InFusion™ will search Live365 system for a set of results that match the search term and puts the results into a list for viewing in the Station Selection Screen.

If no results are found, the message "*No results*" is displayed, and waits for key press ("*OK*").

For details on text entry, please refer to page 4.

Live365 Options

You can select the required option from the menu and can alter the value of that setting.

- **Username** is the name to use in connecting with the Live365 network.

- **Password** is the password to use in the connecting process with the user name.

- **Maximum Speed** is the maximum connection speed that a search result can have.

- **Minimum Speed** is the minimum connection speed that a search result can have.

- **Row Number** the number of results to be found and displayed once received from Live365.

- **Match** the strictness of the search. You can choose whether to match all search parameters or match any or some of the search parameters.

Station Selection

You can reach the Station Selection screen in a number of ways in each database (InFusion™, Live365 etc). From within each database the method of searching performed will return results that are displayed here. Once you have selected a station the InFusion™ will return to iRadio play screen and being playing the station. You can then preset the station by holding the Soft Key for the desired location.

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FM Mode

Figure 17: FM Radio Menu Map

FM Radio   MP3   iRadio

InFusion™ Setup

Save Preset Abbreviation   FM Radio Setup

InFusion™ Setup   Station Tune
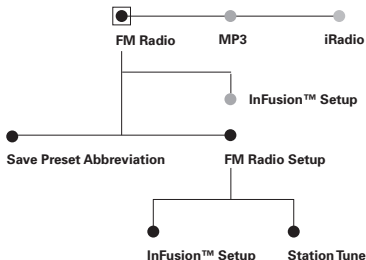
FM Mode

When you select the FM mode the device will play the last designated station. If no past selection has been made the device will be tuned to the lowest frequency station.

When in FM Radio Mode, you will have the following options:

- **Save Preset Abbreviation**
- **FM Radio Setup**

Save Preset Abbreviation

Pressing an empty preset Soft Key will take you into "Station Tune" screen where you can tune to a station. Once a station has been selected the device will return to the FM Radio play screen. You can then hold the preset position for where you want to place the station. The device will then go

to the enter "Station Abbreviation" screen. The new station abbreviation is saved in the selected preset position, and display above the frequency when the station is playing.

FM Radio Setup

Select enters the FM Radio Setup screen.

From here you can choose "*Station Tune*" or "*InFusion™ Setup*".

Station Tune

There are two ways you can tune your InFusion™ to your desired station:

- You can allow the device to find a station by pressing Soft Keys 1 and 5, or

- you can find the frequency for a station by pressing Soft keys 2 and 4.

Once you find a desired station you can select it by either pressing Soft Key 3 or pressing the Select Button. The device will then return to the FM Radio play screen where you can choose to preset the station by holding a Soft Key.

Note: *It is advisable not to have the USB cable plugged in when listening to the FM radio.*

Figure 18: FM Radio Mode

FM Mode

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InFusion™ Setup

InFusion™ Setup

WiFi Setup	General Setup	Information	Alarm Setup

iPass Setup — WiFi Setup — Backlight Dimming — Time — Date — Country — Online Settings — Alarm (1; 2; 3)

Profile Configuration

User Name — Password — Active — Time — Date — Action — Duration — Profile — Preset/Playlist
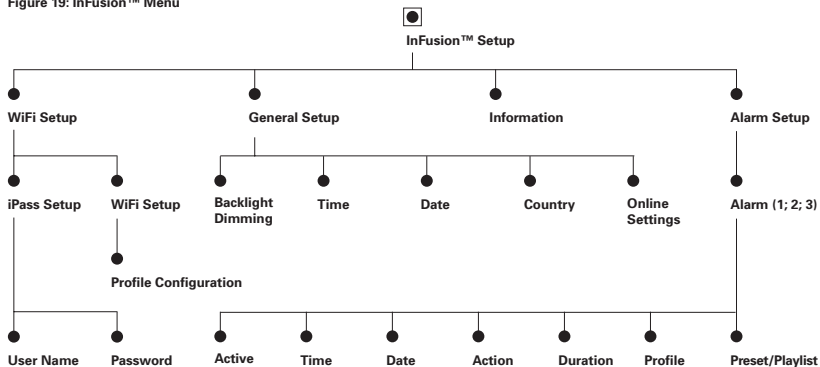
InFusion™ Setup

The InFusion™ Setup screen allows you to select from the following options:

- **General Setup**
- **Alarm Setup**
- **Information**
- **WiFi Setup**

General Setup

You can choose which general setup you wish to configure

- Current Time: (00:00)

- Current Date: (01/02)
- Country: (User's country)
- Backlight Dimming: (Enable; Disable)
- Online Settings: (Enable; Disable)

Pressing the Select button when Online Settings is highlighted will change the Online Settings status. When Online Settings is enabled your data will be shared, when disabled your data will not be shared.

Current Time

You can set the time for the InFusion™. The time is in 24 hour format. Once set, the device will return to the General Setup screen.

InFusion™ Setup

Current Date

You can set the date for the InFusion™. Once set the device will return the General Setup screen.

Country

You can set the country for the InFusion™. Once set the device will return the General Setup screen.

Alarm Setup

You can select up to 3 alarm actions (from Alarm 1 to Alarm 3) to configure.

Alarm 1: (Active, Not Active)

Alarm 2: (Active, Not Active)

Alarm 3: (Active, Not Active)

Alarm Profile

You can select which menu item you wish to configure.

- Active: (On; Off)
- Occurring: (Once Off; Daily)
- Time: (00:00)
- Date: (dd/mm – only available when *Occurring* is set to Once Off)
- Action: (MP3; iRadio; FM Radio; Record iRadio)
- Profile: (cycle through networks – only available when Action is set to *iRadio* or *Record iRadio*)
- Duration: 00:00 (only available when Action is set to *Record iRadio*)
- Preset: (cycle through presets – only available when Action is set to *FM, iRadio* or *Record iRadio*)

- Playlist: (Track – only available when Action is set to *MP3*)

Pressing the *Select Button* on *Active, Occurring, Action, Profile* and *Preset* will change the options status.

Pressing the *Select Button* on *Time, Date, Duration* and *Playlist* will take you to another screen to enter the setting.

Alarm Time

You can set what time the alarm is to go off. The time is in 24 hour format. Once a time has been set the device will return to the Alarm Profile screen.

Alarm Date

You can set what date the alarm is to go off.

The time is in dd/mm format. Once a date has been set the device will return to the Alarm Profile screen. If *Occurring* has been set to *daily* it will not be given as an option.

Record Duration

You can set how long you want the device to record for once the alarm has gone off. Once the duration has been set the device will return to the Alarm Profile screen.

Playlist – MP3

You can select which Track you wish to hear when the alarm goes off. You can navigate the folders the same way as when in the normal Playlist. Once a track has been selected the device will return to the Alarm Profile screen.

InFusion™ Setup

Information

Selecting the "Information" screen will allow you to view the MAC address for the device and the firmware version.

WiFi Setup

You can select to view the stored Network Profiles or view the iPass Setup.

iPass Setup

You select the option you wish to modify:

- iPass username
- iPass password

iPass Username

You enter the username for the iPass Setup. When you select "OK" the device will store the username and return to the previous menu. Next time you select this screen the username field will be pre-populated with the username.
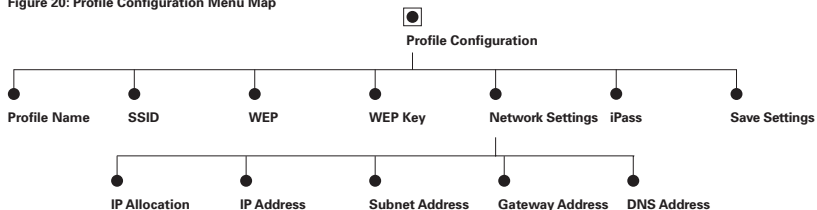
iPass Password

You enter the password for the iPass Setup. When you select "OK" the device will store the password and return to the previous menu. Next time you select this screen the password field will be pre-populated with the password.

Profile Configuration

Figure 20: Profile Configuration Menu Map

Profile Configuration

Profile Name · SSID · WEP · WEP Key · Network Settings · iPass · Save Settings

IP Allocation · IP Address · Subnet Address · Gateway Address · DNS Address

Profile Configuration

Network Profiles

You will be given a list of existing profiles. You can:

- add a profile by pressing Soft Key 1,
- edit a profile by highlighting and pressing Soft Key 3, or
- delete a profile by pressing Soft Key 5.

Once you select a profile, the details from that profile are loaded on the *Profile Configuration* screen so you can edit the settings.

The device will store a maximum of 16 profiles (you will be advised if you attempt to enter more than 16 profiles).

You can select to configure the following profile settings:

- Profile Name
- SSID:
- WEP: (Enable, Disable)
- WEP Key: (only available when WEP is enabled)
- Network Settings
- iPass: (Enable; Disable)
- Save Settings

Profile Name

You can enter in a profile name. When you select "OK" the device will store the name and return to the previous menu. Next time you select this screen the name field will be pre-populated with the profile name.

For details on text entry, please refer to page 4.

Profile Configuration

SSID

You can enter in an SSID. When you select "OK" the device will store the SSID and return to the previous menu. Next time you select this screen the SSID field will be pre-populated with the SSID.

For details on text entry, please refer to page 4.

WEP

Enable or disable

WEP Key

Selecting this option allows you to enter the WEP key. When you select "OK" the device will store the WEP key and returns to the previous menu. Next time you select this screen the WEP key field will be pre-populated with the WEP key.

Network Settings

You can select which option you want to update:

- IP Allocation: (Auto; Manual)
- IP Address
- Subnet Address
- Gateway Address
- DNS Address

Note: IP Address, Subnet Address, Gateway Address and DNS Address are only displayed on the menu when IP Allocation is set to manual..

IP Address

In this selection you enter the IP address. When you select "OK" the device will store the IP address and return to the previous menu. Next time you select this screen the IP field will be pre-populated with the IP address.

Subnet Address

Selecting this option allows you to enter the Subnet address. When you select "OK" the device will store the Subnet address and return to the previous menu. Next time you select this screen the Subnet field will be pre-populated with the Subnet address.

Gateway Address

Selecting this option allows you to enter the Gateway address. When you select "OK" the device will store the Gateway address and return to the previous menu. Next time you selects this screen the Gateway field will be pre-populated with the Gateway address.

DNS Address

Selecting this option allows you to enter the DNS address. When you select "OK" the device will store the DNS address and return to the previous menu. Next time you select this screen the DNS field will be pre-populated with the DNS address

iPass

iPass is enabled when the network you are connected to needs iPass

Profile Configuration

Save Settings

You can select to save the profile configuration. The device will then return to the screen you were in before configuring the profile:

If you entered the Profile Configuration screen via the WiFi Setup, the device will return to the Network Profile screen.

If you entered the Profile Configuration screen by attempting to connect to a network, the device will return to either the iRadio play screen, or the iRadio Setup screen, depending on which screen you had been in.

Glossary

DHCP Dynamic Host Configuration Protocol, a way to automatically assign IP address to internet Devices connected to a network.

DNS Domain Name Server, an IP address for a machine which can convert URLs to IP addresses which the InFusion™ can then contact for data such as internet radio.

Gateway An IP address of a router which connects a Network to the Internet.

Hotspot WiFi Hotspots are venues that offer wireless access to the internet.

iPass Third party network service allowing access to many commercial Hotspots throughout the world, for more information visit 'www.ipass.com.'

IP Address Internet Protocol address, similar to a telephone number which is assigned to internet devices such as the InFusion™.

MAC Media Access Control, a hardware address unique to computer network cards, InFusion and other network devices.

Network Two or more computers or internet devices (such as the InFusion™) connected together, either physically with wires, or by radio waves (WiFi.)

Server A computer or device which provides services such as DHCP to computers on a Network

Switch A device which can connect multiple computers or network devices together to form a network.

SSID Service Set Identifier, the name of a particular WLAN

URL Uniform Resource Locator, typically the Internet address format ending in '.com' such as www.torianwireless.com.

WEP Wired Equivalent Privacy, an encryption Policy

WiFi Wireless Fidelity, networking using radio waves rather than wires.

WLAN Wireless Local Area Network

Wireless Access Point A Switch that uses WiFi

Connecting

1. Wireless Local Area Network

The InFusion™ uses 802.11b WiFi to access the internet, which means that a WiFi network is necessary for streaming internet radio.

Hotspots consist of at least one wireless access point. This can be simply a wireless switch connected to an existing network, or an all-in-one wireless-router-hub, as long 802.11b wireless networking is enabled.

2. Wireless configuration

There are many different brands of wireless access points, all of which will have some way to configure settings such as WiFi encryption, channel, network ID and so on.

For home networks where the Wireless access point configuration is accessible, ensure only WEP encryption is used (if any,) and that if MAC filtering is used, that the InFusion™ MAC is registered (see 'Information' screen under 'InFusion™ Setup' for the MAC address.)

3. Scanning for Available Networks

To have the InFusion™ scan for available networks, follow the steps in the 'iRadio Mode' section. A list of available networks will appear, including those with hidden SSIDs which may not be available.

4. Profile Configuration

From the 'Available Networks' screen (in 'iRadio Mode') choose 'edit' with the desired network SSID highlighted to display the profile configuration. Most of the fields will be pre-populated with the current networks settings.

- Encryption

    At the time of this publication, the InFusion™ supported WEP encryption only. If the current Network uses WEP, it will be shown as enabled, with a WEP key field displayed. Enter the WEP key here.

- iPass

    If the Hotspot uses iPass to allow users internet access, it will need to be enabled in the Profile configuration. If iPass has not yet been configured, the unit will ask for a user name and Password.

- IP allocation

    There are two ways the InFusion™ can have its IP address assigned; automatically by a DHCP server or manually by the user. Use automatic allocation unless otherwise preferred (for the more tech savvy users.)

- DNS allocation

    As with IP allocation, the DNS can either be assigned by a server automatically or manually by the user. Only set manually if necessary.

Troubleshooting

Problem	Possible Causes
InFusion™ can't see any networks.	Check that the wireless access point is configured properly. SSID broadcasting may be disabled, in which case a manual network profile will need to be entered through InFusion™ settings.
InFusion™ can detect the right SSID, but can't connect.	This could be due to many things, the first is a security measure used in some networks known as MAC filtering. This is where the wireless access point has a list of known devices which are allowed to connect, and all others are denied access. To resolve this, either MAC filtering needs to be disabled on the wireless access point, or the InFusion™ MAC address needs to be added to the list. To locate the MAC address, see the 'Information' screen under 'InFusion™ Setup'. Another possible problem is encryption. The InFusion™ may not have the correct WEP key stored for the given network, or the network may use a different encryption protocol, one unsupported by the InFusion™. Finally, wireless access points have a maximum number of simultaneous connections; ensure there is a spare connection available.
InFusion™ connects to the network, but can't stream or search for stations.	Check that the wireless router has an active internet connection, and that any gateway firewalls allow the InFusion™ access to Port 80. If it is a commercial Hotspot which uses iPass, ensure that the user-name and password are correct, and that iPass is enabled.
Custom URL won't stream.	There could be many reasons for this. Perhaps the streaming audio format is not supported by the InFusion™, or the station server is busy, or the URL is incorrect.

For a more detailed version of the user manual, please download a copy at www.torianwireless.com

Table of Charts and Illustrations