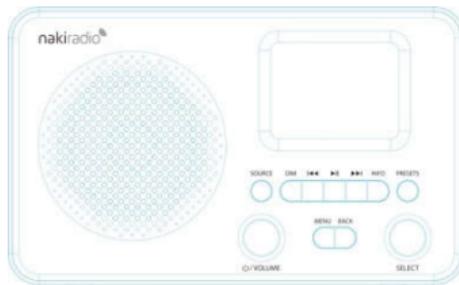


Instruction Manual

NakiRadio® Solo

MN300



NakiRadio® Duo

MN350

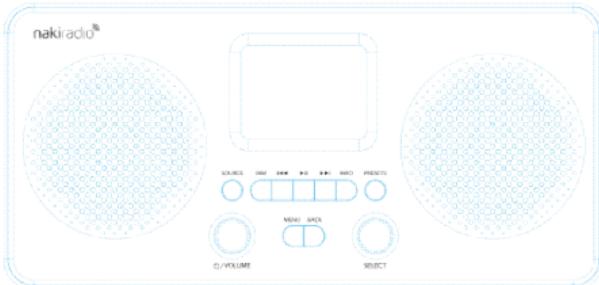


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Introduction

Thank you for purchasing a NakiRadio. The NakiRadio will provide you and your family with hours of education and entertainment from approved radio stations throughout the world. We understand that in today's media driven environment, families need to filter and choose the proper media they wish to be exposed to. NakiRadio hopes that with Siyata D'shmaya we can help you and your family limit your exposure to inappropriate media and enjoy the rich world radio has to offer to the discerning listener.

For more options and choices of content available to hear on NakiRadio, be sure to visit the Portal at nakiradio.com. Once you create an account and connect it to your NakiRadio, you can add/remove content, use parental controls to limit usage, and more.

For more information, and for technical support, please email support@nakiradio.com.

1. NakiRadio Quick Setup

Unbox, Wizard Setup & Listen

YOU MUST HAVE A WIFI NETWORK WITH INTERNET ACCESS FOR THE NAKIRADIO TO ACCESS CONTENT

- Unbox your NakiRadio within range of a WiFi Network
- Plug included power adapter into a 110/220v power source.
- Press Power / Volume dial on the left side of the unit to start the Setup Wizard, which will display on the screen. Click through the following settings and set to your choice:
- Select a time format. Click Select dial on the unit's right side to accept.
- Update from Network. Click Select dial to accept.
- Scroll through Set Timezone. Locate timezone of your location. Click Select dial to accept.
- Select setting for Daylight Savings. Click Select Dial to accept.
- WLAN Region USA. Click Select dial to accept.

- Locate & Select the WiFi SSID/network of your choice, click Select dial to accept.
- If WPS Menu appears, recommended choice is **Skip WPS**
- Enter your WiFi password/key by scrolling and clicking on the Select dial.
Uppercase/lowercase letters, numbers and symbols are located by scrolling your with the Select dial. Press the INFO keypad button at any time to BKSP [correct], cancel or accept your entry. Click Select Dial to accept. If successful, Setup Wizard will display a completed message. Click Select Dial to exit Wizard.
- Highlight Station List and click the Select dial. Rotate the Seelct dial to highlight the station of your choice, and click Select dial to select listening.
- Press and hold down Power dial for 2 seconds to place the device in Standby Mode. If device is connected to power supply, clock will display.

1.1. Safety

Safety Instructions

Please store this instruction manual for future reference.

- **WARNING:** To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. The apparatus should not be exposed to dripping or splashing. Objects filled with liquids, such as vases, should not be placed on device.
- **WARNING:** The direct plug-in adapter is used to disconnect device from power source, please assure the wall adapter remains accessible at all times.



- The symbol is intended to alert the user to the presence of non-insulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
- **Warning:** To reduce the risk of electric shock, do not remove cover (or back), as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.



- **Correct disposal of this product:** This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

- No open flames, such as lighted candles, should be placed on the apparatus.
- CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- WARNING: The battery (battery or batteries or battery pack) should not be exposed to excessive heat such as sunshine, fire or the like.
- Do not use this product near water or moisture.
- Clean only with a dry cloth.
- Unplug this product from the wall outlet before cleaning.
- Place the unit on a solid surface.
- Do not put it in a closed bookcase or a cabinet that may keep air from flowing through its ventilation openings.
- Do not install near any heat sources, such as radiators, heat registers, stoves or other appliances that produce heat.
- Protect the power cord from being walked on or pinched, particularly at plugs and at the point where it exits from the product.
- Servicing is required when the product has been damaged. Do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltages or other hazards.
- To prevent risk of fire or electric shock, avoid overloading wall outlets, extension cords.
- Do not let objects or liquids enter the product.
- Use proper power sources. Plug the product into a proper power source as described in the operating instructions or as marked on the product.

FCC Warning

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. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 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.

1.2 Features

This manual describes how to use the NakiRadio Solo / Duo, an advanced but easy-to-use Wi-Fi connected audio system with the following modes:

- **Internet Radio** plays pre-approved radio stations from around the world.
- **Bluetooth® -In** for external music sources, such as from iPod/iPad or other media players.

NakiRadio Solo / Duo also provides the following features:

- TFT color display for easy control and clear information display.
- Clock with auto-update capability and dual independent alarms with Sleep/Snooze.
- Multiple network profiles for easy setup and portability.
- Multiple language options.

1.3 Carton contents

After you unpack the box, you will find the following items:

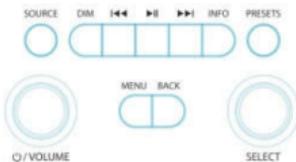
- 1 NakiRadio Solo or Duo unit
- 1 Micro-USB power adaptor
- 1 Owner's Instruction Manual

1.4 External resources

To operate the NakiRadio Solo / Duo, the following external resources are needed:

- A power source (100-240 V outlet).
- A wireless (Wi-Fi) internet network connection (provided through a router) with appropriate permissions.
- Optional – external music source such as iPod or MP3 player.

2. Controls, connectors and display



2.1 Main controls

- a. **POWER / VOLUME:** Click dial to power on device. Rotate dial to adjust the volume during playback, or click to mute sound. Long press dial to power off device / set to standby.
- b. **SELECT:** Turn to scroll through a menu or station list. The chosen option is highlighted. Click to select. On playback screen, click to magnify/stow

- c. **SOURCE keypad button:** Press to select different modes, i.e. Internet Radio or **Bluetooth®**.
- d. **DIM:** Click to turn the display on or off.
- e. **|| ◀◀ / ▶▶ || :** NEXT/PREVIOUS keys allow for navigation within the podcast episode. Click to move from track to track, long press to fast forward / rewind within a track.
- f. **▶ || :** Click to pause and resume during playback.
- g. **INFO:** Click to view more information about the station or track being played. Click again to cycle through additional information screens. Click to return to the Now Playing screen from elsewhere in the interface.
- h. **MENU** Click to show the menu for the current mode. Press again to show the Now Playing screen.
- i. **BACK:** Click to return to the previous screen.
- j. **PRESET:** Click to load Preset menu. During playback, highlight a slot in the Preset menu and Long Press to save preset to slot. To recall from Preset, click Preset button to load preset menu, highlight a slot, and click Select dial.

2.2 Connectors



As shown above, the device has the following connectors:

- Headphone jack
- Micro-USB

2.3 Screens

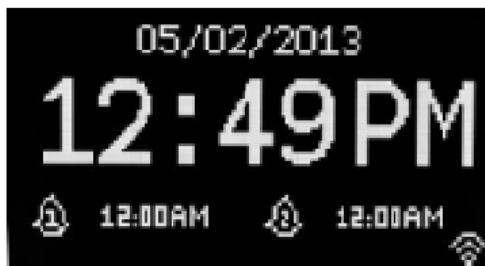
The screen shows various menus, dialogues and displays as described below.

There are basically six types of screens:

- Standby (clock)
- Splash (mode)
- Now playing
- Dialogue
- Information
- Menu

Where there is more text than can fit onto a screen, the text automatically scrolls right to left after a brief pause.

The **standby screen** shows the time, date and any active alarm times.



A **splash screen** is displayed for each mode. Press source to cycle through the listening modes.



Now playing screen shows information about the audio source and track now playing, where available.



Dialogue screens are shown to allow the user to change settings. They vary in complexity from simple Yes/No options up to the scrollable network passphrase input screen.



The selected option is highlighted with a background. Dialogue screens mark the currently saved setting with an asterisk (*).

Information screens give specific messages for a few seconds, then change automatically to the next screen.



Menu Screens – For details of menu screens, see Section 2.5 Menu.

2.4 Operation

After the initial setup, the NakiRadio is ready for operation .

To select a Mode, press the source keypad button until the desired mode splash screen is displayed. After a brief moment, the NakiRadio switches to that mode. See the relevant Mode section for details on how to use each listening mode.

2.5 Menu navigation

The primary control for moving through menus and options is the Select dial. Rotate the dial to move up or down inside a menu. Once the desired option or value is highlighted, CLICK the Select control. All menus and lists act as loops, such that turning the control beyond the first or last entry in a menu or list takes you to the opposite end of the menu or list, i.e. going upwards from the first entry in a menu will take you to the last option in the menu, etc.

A “>” appears on the right of the screen if there are more options

above or beyond those visible.

To enter the menu tree in a particular mode, press Menu. To move backwards a menu level, press Back. To exit the menu system, press Menu again. Each mode has a Mode menu, with options specific to that mode.

The System settings menu displays all the adjustable system settings available that allow the user to set up the unit. This includes the Equalizer, Network, Time/Date, Language, Factory Reset and Software Update settings.

3. Startup and setup

NakiRadio is easy to use.

For Internet-connected modes such as Internet radio, you will need a broadband Internet connection.



3.1. Setup wizard

When the device is started for the first time, it runs through a setup wizard to configure settings for date/time and network. Once this has finished, the system is ready to use.

Note: To change these settings later, select Menu > System settings >.

To run the setup wizard again, select Menu > System settings > Setup wizard. Select Yes to start the setup wizard.

If you choose No, the next screen asks if you would like to run the wizard next time device is started. The system then starts without configuring time/date and network settings and enters the Main Menu.

Note: If power is removed while the wizard is in progress, the wizard will run again next time the NakiRadio is started.

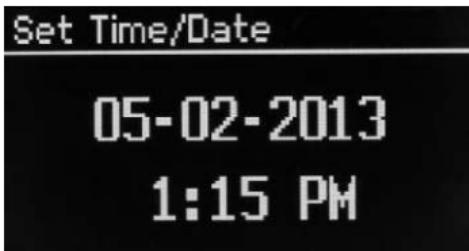
3.1.1 12/24 Hour Display

To change between 12 and 24 hour display, select Set 12/24 hour and then select your preference.

3.1.2 Set Time/Date (Wizard)

The date and time are displayed as mm-dd-yyyy and hh:mm AM/PM with the first value, mm active (flashing).

Adjust each value with the Select control. As each value is set by pressing the Select control, the next value becomes active and ready for adjustment.



Auto-update

Auto-update works with data sent over the Internet.

Network uses a time signal sent from the Internet radio portal when connected to the internet.

1. Select Update from Network or No Update.
2. If you are updating from the network, set your time zone.
3. If your country uses daylight saving, the automatically updated time from the network may be incorrect by one hour. When daylight savings are in effect (during the winter), turn on the Daylight savings option to rectify this.

NakiRadio will auto-update from the selected source when time information is available.

Manual set

If you set No Update, the wizard now prompts you to set the time and date manually.

The date and time are displayed as mm-dd-yyyy and hh:mm

AM/PM with the first value, mm, active (flashing).

Adjust each value with the **Select** control.

As each value is set, the next value becomes active and flashes.

3.1.3 Network

NakiRadio is compatible with all common network protocols and encryption methods, including Wi-Fi Protected Setup (WPS).

To connect the NakiRadio to your network, you need a Wi-Fi wireless router, together with password key if set. Select WLAN Region/Country>Wi-Fi network (SSID), and then select a network from the list.



If the network is open (non-encrypted), NakiRadio connects and no further details are required; see Completion below.

Standard encrypted network

To enter the network's key (password), use the **Select** control to highlight the next relevant character and press to select each character in turn. As each character is selected, the key is built up

near the top of the display.

The three options – Backspace, OK and Cancel are included in the selection loop.

These can be accessed just using the Select control, or by pressing the **Info** key, which moves the selection highlight to the Back Space option.

WPS setup

WPS encrypted networks are identified by '[WPS]' at the start of the network name, and have two methods of connection. Select one and follow the prompts. When using the network wizard, an additional option to Skip WPS is available. In most cases,

Skip WPS is the recommended method to use when connecting.

Select one and follow the prompts:



- **Push Button >**

NakiRadio prompts you to press the connect button on the router, then press the select control.

- **Pin > (code number)**

NakiRadio generates an 8-digit code number which you can enter into the wireless router or access point.

- **Skip WPS [Recommended] >**

Enter key as for a standard encrypted network, as above. For more information on setting up a WPS encrypted network, see your WPS router's instructions.

On completion

NakiRadio connects to the selected network.

If connection fails, the NakiRadio returns to a previous screen to try again. To exit the process, use the Menu button

3.2 Other settings

Common settings are covered below.

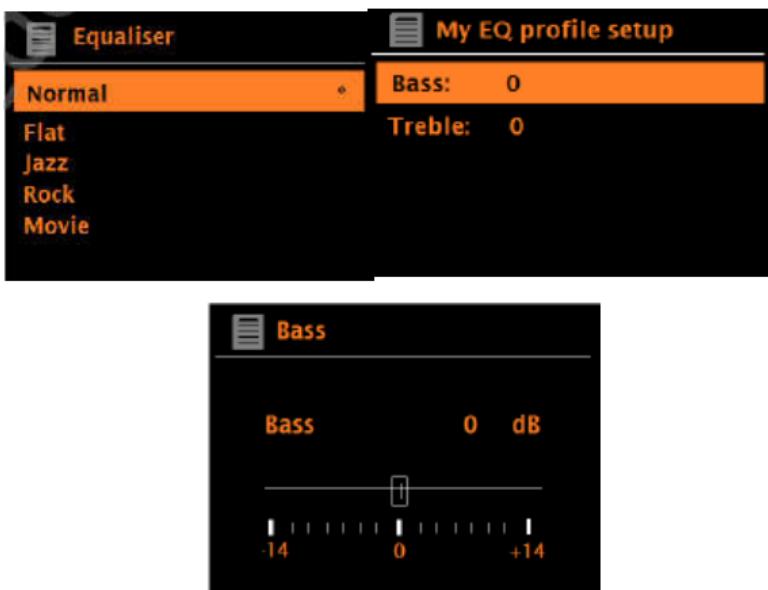
3.2.1 Equalizer

Several preset EQ modes are available, in addition to a user-defined setting (My EQ).

To choose an EQ setting, select **Menu >System settings > Equalizer**.

You can then choose from a variety of preset modes and My EQ

The last option, 'My EQ profile setup,' allows you to define your own settings for the 'My EQ' option, with custom bass and treble settings.



3.2.2 Network

NakiRadio remembers the last four wireless networks it has connected to, and automatically tries to connect to whichever one of them it can find. You can see the list of registered networks through Menu > System settings > Network > Network profile. From here you can delete unwanted networks by turning and pressing Select, then confirming delete.

There are also other options for viewing and manually altering network settings from Menu > System settings > Network.

Users experienced with networking may find these options useful for diagnosing and fixing network problems.

3. Language

The default language is English. To change, select **Menu > System settings > Language >**, then select your language.

4. Internet radio mode

NakiRadio can play pre-approved radio stations from around the world through a broadband Internet connection.

When you select Internet radio mode, NakiRadio will display the available stations:

Once you select a station, NakiRadio connects directly to that station:

To enter Internet Radio mode, either press **Mode** until the display shows Internet Radio.

Note: The station list menu is provided from the Internet, so it is only accessible when the NakiRadio is connected to the Internet. Station lists may change from time to time.

4.1 Presets

To store an Internet radio preset, click the Preset button during playback to load the Preset menu. Use the Select dial to highlight an available preset slot, and long press the Select dial to save the station in that preset slot.

To recall a preset, click the Preset button, use the Select dial to highlight the desired preset slot, and click the Select dial.

4.2 Now playing information

While the stream is playing, the screen shows its name and description. If artist and track information is available, this is also shown.

To view further information, press the **Info** keypad button.

Each time you press the **Info** button, another set of information is displayed, cycling through the following details depending on availability:

- Description
- Artist and track name
- Genre and show country
- Reliability
- Bit rate and Codec and Sampling

- Playback buffer
- Today's Date

5. Alarms and sleep

As well as a clock/calendar, there are two versatile wake-up alarms with snooze facility, and a sleep function to turn the system off after a set period.



5.1 Alarms

To set or change an alarm, select **Menu > Main Menu > Alarms**.

Select the alarm number (1 or 2) then configure the following parameters:

- Enable: on/off,
- Frequency: Daily, Once, Weekends or Weekdays
- Time
- Volume: 0 - max

To activate the new settings, scroll down and select Save.

The screen shows active alarms with an icon at the bottom left.

At the set time, the alarm will sound. To temporarily silence it, press the **Snooze** dial.

You can change the snooze period with the **Select** control if you like. The radio returns to standby for the set period, with the silenced alarm icon flashing.

5.2 Sleep

To set the sleep timer, select **Menu** > Main menu > Sleep then choose from:

Sleep OFF, 15 MINS, 30 MINS, 45 MINS or 60 MINS.



Once you select a sleep period, the system returns to the main menu.

Press **Menu** to return to the Now playing screen.

6. Software upgrades and factory reset

6.1 Software upgrade

From time to time, NakiRadio may make software upgrades available with bug fixes and/or additional features. You can either check manually, or set NakiRadio to check periodically and automatically (this is the default). If NakiRadio detects that newer software is available, it asks if you want to go ahead with an update.

If you agree, the new software is then downloaded and installed.

After a software upgrade, all user settings are maintained.

CAUTION: Before starting a software upgrade, ensure that NakiRadio is plugged into a stable main power connection. Disconnecting power during a software update may permanently damage the unit.

To turn automatic checking on or off, select Menu > System settings > Software update > Auto-check setting.

6.2 Factory reset

A factory reset resets all user settings to default values, so time/date, network configuration and presets are lost. However, the radio's current software version is maintained. The pre-set buttons will be cleared.

To perform a factory reset, select **Menu** > **System settings** > **Factory reset** proceed >Yes.

7. Troubleshooting and error messages

7.1 Error messages

Message	Description	Example
Failed to connect	Correct key entered, But router rejects request	MAC filtering enabled on router
Format error	Cannot recognize file format - independent of network	Received .wma, but found that the stream wasn't WMA when trying to decode
Network error	Problem past router - incorrect data being received from network	Data obtained from server is unreadable.

Problem	Cause	Solutions
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Network not ready	Problem with connection to router	Router switched off
Network timeout	Problem past router – no response being received from network	Streaming IR station and suddenly station becomes unavailable
Update failed	Software upgrade failed	

Cannot connect to network	Network down	Check that network is working between a computer and the router
	Router restricts access to listed MAC addresses	Obtain the NakiRadio MAC address from Menu > System settings > Network > View settings and add to router list.
	Insufficient Wi-Fi signal strength	Check distance to router; see if a computer can connect to the network in this location
	Unknown encryption method	Change encryption method on router. NakiRadio supports WEP, WPA and WPA2

Problem	Cause	Solutions
	Unusual network configuration	Setup network manually through Menu > System settings > Network > Manual settings

	<p>Firewall preventing access</p>	<p>Confirm that the following ports are open on the router: UDP and TCP ports 80 and 123; DNS port 53. Windows shares: ports 135 – 139 and 445.</p> <p>Windows Media Player: varies – non-Microsoft firewalls may require configuration for UPnP.</p>
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8.2 Troubleshooting

Problem	Cause	Solutions
Cannot connect to Internet	Internet connection down	Check that Internet is working for a computer connected to the same network
	Firewall preventing access	Check the following ports are open: UDP and TCP ports 80 and 123; DNS port 53. Some Internet radio stations may require additional ports to be opened.

Cannot play particular Internet radio station	Station not broadcasting, overloaded or insufficient bandwidth. Station broadcasting using unknown codec. Link out of date.	Try other stations; try listening on computer via Internet radio portal website; try later.
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NakiRadio Quick Setup

Unbox, Wizard Setup & Listen

YOU MUST HAVE A WIFI NETWORK WITH INTERNET ACCESS FOR THE NAKIRADIO TO ACCESS CONTENT

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- Press Power / Volume dial on the left side of the unit to start the Setup Wizard, which will display on the screen. Click through the following settings and set to your choice:
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- Update from Network. Click Select dial to accept.
- Scroll through Set Timezone. Locate timezone of your location. Click Select dial to accept.
- Select setting for Daylight Savings. Click Select Dial to accept.
- WLAN Region USA. Click Select dial to accept.

- Locate & Select the WiFi SSID/network of your choice, click Select dial to accept.
- If WPS Menu appears, recommended choice is **Skip WPS**
- Enter your WiFi password/key by scrolling and clicking on the Select dial.
Uppercase/lowercase letters, numbers and symbols are located by scrolling your with the Select dial. Press the INFO keypad button at any time to BKSP [correct], cancel or accept your entry. Click Select Dial to accept. If successful, Setup Wizard will display a completed message. Click Select Dial to exit Wizard.
- Highlight Station List and click the Select dial. Rotate the Seelct dial to highlight the station of your choice, and click Select dial to select listening.
- Press and hold down Power dial for 2 seconds to place the device in Standby Mode. If device is connected to power supply, clock will display.

- FCC Warning:

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. Any Changes expressly or modifications not approved by the party responsible for compliance could avoid the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on , the user is encouraged to try to correct the

interference by one 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.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20cm between the radiator &you body.

So the stand-alone SAR evaluation is not necessary.