

03

Controls

- ① LCD display
- ② Mode button
- ③ Info button / Preset 1
- ④ Alarm 1 button / Preset 2
- ⑤ Mute button / Preset 3
- ⑥ Volume up button / Preset 4
- ⑦ HD seek up button / Preset 5
- ⑧ Standby button / Power button
- ⑨ Tuning control / Select / FM / AM Seek button
- ⑩ Frequency button
- ⑪ HD seek down button / Preset 10
- ⑫ Volume down button / Preset 9
- ⑬ Sleep timer button / Preset 8
- ⑭ Alarm 2 button / Preset 7
- ⑮ Menu button / Preset 6
- ⑯ Preset button
- ⑰ Remote control sensor
- ⑱ Headphone socket
- ⑲ External FM antenna socket
- ⑳ AC power cord socket
- ㉑ Coaxial output socket
- ㉒ Optical output socket
- ㉓ Line output socket
- ㉔ External AM loop antenna socket

Remote control

- A Standby button / Power button
- B Mute button
- C Key pad button 1-10 / 0 / Preset button 1-10
- D Tuning up button
- E HD seek down button
- F Info button
- G Alarm 1 button
- H Nap timer button (not available in this model)
- I Sleep timer button
- J Alarm 2 button
- K Tone button (not available in this model)
- L Mono button
- M Dimmer button
- N Tuning down button
- O Menu button
- P HD seek up button
- Q (FM / AM) Seek button / Select button
- R Frequency button
- S Volume up / down button
- T Band button

04

04

Note:

For the sake of clarity, the instructions for the use of the controls throughout this instruction manual show the buttons on the radio. The buttons on the remote control can be used if you prefer.

Note:

The operations described below for the face of the radio are the same as the operations for the remote control.

- Rotating the Tuning control knob on the face of the radio is the same as pressing the Tuning Up or Down buttons on the remote control.
- Pressing the Tuning Knob on the face of the radio is the same as pressing and releasing the Select button on the remote control.
- Pressing the Mode button on the face of the radio is the same as pressing the Band button on the remote control.

IMPORTANT:

Batteries should not be exposed to excessive heat such as sunshine, fire or the like. After use, disposable batteries should be taken to a suitable recycling center. On no account should batteries be disposed of by incineration. Do not leave batteries within reach of young children, they can be a choking hazard.

Power your radio

- Connect the power cable with the radio and plug it in to a live outlet.
- Connect the FM Dipole Antenna into the FM antenna terminal.
- Connect the AM loop antenna into AM antenna terminal.
- Press the Standby / Power button to turn on the radio.

Note:

1. Use only the power cable / FM Dipole antenna / AM loop antenna supplied with the radio. Connecting an incompatible power supply and antennas will cause permanent damage to the radio.

2. The AM loop antenna should be located at least 20" away from the tuner to avoid possible interference.

IMPORTANT:

The mains plug is used as the means of connecting the radio to the mains supply. The mains socket used for the radio must remain accessible during normal use. In order to disconnect the radio from the mains completely, the mains plug should be removed from the mains outlet completely.

Setting the clock

Clock setting can be done when the receiver is on or in Standby Mode (power off).

08

- Rotate the Tuning control knob to select your required tuning region and then press the Tuning control knob to confirm your selection.

Region A (Most countries) FM: 87.5-108, 100kHz	Region A (Philippines, Romania) AM: 522-1710, 9kHz
Region B (US, Mexico, Canada) FM: 87.5-107.9, 200kHz	Region B (US, Mexico, Canada) AM: 520-1710, 10kHz
Region C (Most countries) FM: 87.5-108, 50kHz	Region C (SE Asia) AM: 522-1620, 9kHz
Region D (Brazil, Japan) FM: 76-108, 100kHz	Region D (Brazil) AM: 522-1629, 9kHz

Receiving HD Radio™ stations

When the radio is tuned to an HD Radio station, the HD Radio logo will flash in the display, indicating that the signal is blending from analog to digital. Once the receiver acquires the HD Radio signal, the HD Radio logo will remain solid on the screen.

Receiving Multicast Stations

When the radio is tuned to an HD Radio station, it will determine that one or more Multicast stations are available and "HD1+", for example, may appear on the display. "HD1" indicates the number of the current multicast program and plus (+) means that additional HD Radio programs are available. Rotate the Tuning control knob on the radio (or press the Tuning up / down button on the remote control) to tune to HD2 / HD3 Multicast channel.

HD SEEK function

Using the HD Seek Up / Down button, the radio will seek to the next available HD Radio station. This function will also scan to the Multicast program if available.

Press and release the HD Seek Up / Down button will tune to the next available HD Radio station of sufficient signal strength.

Display options

Press the Info button to cycle through the various modes.

a. Radio display

RDS status

12

Contrast

The contrast of the display can be adjusted.

- Repeatedly pressing the Menu button until "Contrast" is shown on the display.
- Rotate the Tuning control knob to adjust the contrast. The contrast level indication on the screen will change at the same time. When you find the setting that gives the best legibility for the location in which the radio is used, press the Tuning control knob to save the setting.

Dimmer

The brightness of the display can be adjusted when the radio is in Standby mode or when it is in use. In order to adjust the intensity of the display to suit the ambient room lighting:

- Repeatedly pressing the Menu button until "Dimmer" is shown on the display.
- Rotate the Tuning control knob to adjust your required brightness level and press the Tuning control knob to save the setting.

Language

Your radio can be configured to a different language.

- Repeatedly pressing the Menu button until "Language" is shown on the display.
- Rotate the Tuning control knob to select your required language.
- Press the Tuning control knob to confirm your selection. The display will change to the chosen language.

Headphone socket

A 3.5mm Headphone socket located on the front of your radio is provided for use with headphones. Please be aware that the sensitivity of headphones can vary widely. We therefore recommend setting the volume to a low level before connecting headphones to the radio.

IMPORTANT:

Excessive sound pressure from earphones and headphones can cause hearing loss.

Line out socket (3.5mm Jack)

A pair of Line out RCA jack located on the rear of your radio is provided for connecting the audio signal to an external amplifier. The signal on the Line out socket is unaffected by the volume control.

01



Operating instruction



HD Radio Technology manufactured under license from iBiquity Digital Corporation, U.S. and Foreign Patents. For patents see <http://fdts.com/patents>. HD Radio and the HD, HD Radio, and "ARC" logos are registered trademarks or trademarks of iBiquity Digital Corporation in the United States and / or other countries.

For United States:

FC Cautions to the user

The changes or modifications not expressly approved by the party responsible for compliance could void the users authority to operate the equipment.

The 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 instruction, may cause harmful interference to radio communication. However, there is no guaranty 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.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of the electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.

05

Setting the clock manually

- Repeatedly press the Menu button until "Clock Update" is shown on the display.
- Rotate the Tuning control knob to select "Manual" and press the Tuning control knob to enter the clock time setting. The hour digit will be highlighted on the display.
- Rotate the Tuning control knob to set the desired hour. Then press the Tuning control knob to confirm the setting. The minute digit will be highlighted on the display.
- Rotate the Tuning control knob to set the desired minute and press the Tuning control knob to confirm the setting. Now the month / day / year setting. When the clock time setting is completed, your radio will exit the menu.

Auto clock set mode

- Repeatedly press the Menu button until "Clock Update" is shown on the display.
- Rotate the Tuning control knob to select "Auto" and press the Tuning control knob to confirm the setting. Your radio will synchronize its clock time whenever it tunes to a radio station using RDS with CT signals.

Setting the time format

- Repeatedly press the Menu button until "Set 12 / 24 hour" is shown on the display.
- Rotate the Tuning control knob to select 12 or 24 hour format and press the Tuning control knob to confirm the setting. The selected format is used in standby mode, on the playing mode screen and when setting the alarms.

Operating the radio

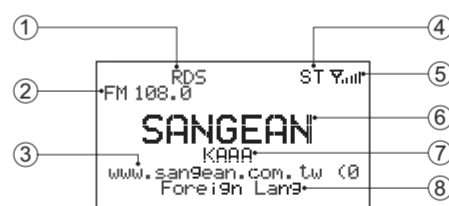
This radio is equipped with four tuning methods – Scan tuning, Manual tuning, Memory presets recall and Direct Entry.

Scan tuning FM / AM

- Carefully extend antennas in advance.
- Press the Standby / Power button to switch on your radio.
- Press the Mode button repeatedly to select the desired frequency band.
- To scan up in frequency, first rotate the Tuning control knob in a clockwise direction and then press the Tuning control knob. Your radio will scan in an upwards direction (low frequency to high frequency) and stop automatically when it finds a station of sufficient strength. To scan down in frequency, first rotate the Tuning control knob in a anti-clockwise direction and then press the Tuning control. Your radio will scan in a downwards direction and stop automatically when it finds a station of sufficient strength.

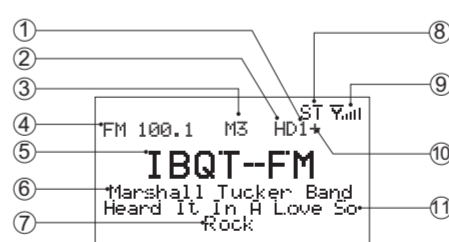
09

① RDS indicator	⑤ Signal strength indicator
② Station Frequency	⑥ Station name
③ Radio Text	⑦ Call sign
④ Stereo indicator	⑧ Program type



HD Radio™ status

① Multicast set index	⑦ Program type
② HD Radio indicator	⑧ Stereo indicator
③ Preset number	⑨ Signal strength indicator
④ Station Frequency	⑩ Plus (+) indicator: additional HD Radio stations are available
⑤ Station name	⑪ Title
⑥ Artist	



- Guide mode (If the radio is tuned to an HD Radio station with Multicasts)
- Clock

13

Optical and Coaxial S / PDIF output socket

Two types of digital output sockets are provided, an S / PDIF or Digital Coax connections are provided on the rear of your radio for connection to an amplifier or other equipment with a digital input.

Software version

The software version display cannot be altered and is just for your reference. Repeatedly pressing the Menu button until "Host Version" and "DSP Version" are shown on the display, you can now view the software version on the display.

Mute function

Press the Mute button on the radio or the remote control, it will mute the output of the headphones.

- Press the Mute button to mute the sound output. The mute symbol will show on the display.
- Press the Mute button again or one of the Volume buttons to un-mute the sound output. The mute symbol will disappear on the display.

Reset the radio

If your radio fails to operate correctly or some digits on the display are missing or incomplete, please carry out the following procedure.

- With the radio on or in Stand-By mode repeatedly press the Menu button until "Factory Reset" is shown on the display.
- Rotate the Tuning control knob to select "Yes" to erase all saved settings and all settings will revert to factory default settings.

Specifications

Power requirements	
Mains Power Supply	AC 120Volts 60Hz only, 10Watt maximum
Remote Control Battery	UM-4(AAA) * 2
Frequency Coverage	
Region A (Most countries)	FM: 87.5-108, 100kHz
Region A (Philippines, Romania)	AM: 522-1710, 9kHz

02

- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments / accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- To Reduce the Risk of Fire or Electric Shock, Do not Expose This Appliance To Rain or Moisture.
- The Shock Hazard Marking and Associated Graphical Symbol is provided on the rear of unit.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, shall be placed on the apparatus.
- Excessive sound pressure on earbuds and headphones could impair your hearing ability.
- The power plug should be close to the radio, and easy to be approached so that during an emergency you can easily disconnect the power from the radio, just unplug the power plug from the AC power outlet.
- Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnected device shall remain readily operable.
- To prevent possible hearing damage, do not listen at high volume levels for long periods of time.

06

- After a few seconds the display will update. The display will show the frequency of the signal found. If the signal is strong enough and there is RDS / RBDS data present then the radio will display the station name.

Manual tuning – FM / AM

- Press the Standby / Power button to switch on your radio.
- Press the Mode button repeatedly to select the desired frequency band.
- Rotate the Tuning control knob to tune to a station. The frequency will change in steps of 50kHz / 100kHz / 200kHz in FM or 9kHz / 10kHz in AM.
- When the frequency band end is reached the radio will recommence tuning from the opposite frequency band.
- Adjust the Volume button to the desired volume settings.
- To switch off your radio press the Standby / Power button.

Presetting stations

There are 10 presets each for FM and AM radio. They are used the same way for each operating mode.

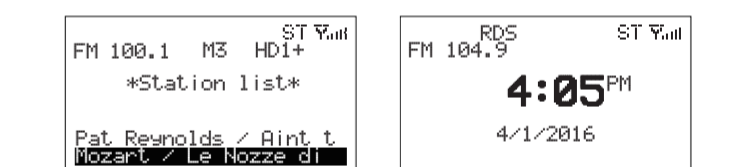
- Press the Standby / Power button to switch on your radio.
- Tune to the required radio station as previously described.
- To store the station as a preset, press and hold the Preset button and the display will show "Preset Store".
- Press and release the required preset number button. You will hear a beep and the station will be stored under the chosen preset. The display will show "Preset 3 stored", for example. Repeat this procedure as needed for the remaining presets. Alternatively, you can rotate the Tuning control knob to choose your required preset number and press the Tuning control knob to confirm your selected preset number. You can also press and hold the Preset button (1-10) on the remote control to store the station as a preset.
- Stations which are already stored in the presets may be overwritten by following the above procedure.



Recalling a preset station

- Press the Standby / Power button to switch on your radio.
- Select the required operating mode using the Mode button.
- Momentarily press the Preset button and then press the required preset number.

10



Setting the alarm clock

Your radio has 2 separate alarms which can be set to wake you to FM or AM. Each alarm can be set to sound once, daily, on weekdays or weekends. The alarms can be set whether the radio is in use or in standby mode. Ensure that the time is set correctly before setting the alarms.

Note: If no buttons are pressed for 10 seconds, the radio will exit the alarm setup.

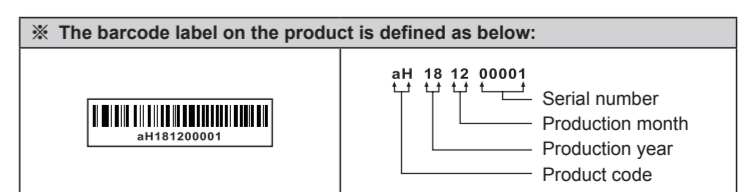
- Press and hold the Alarm 1 button, for example, until "Alarm 1" is shown on the display. (If the radio is in power on mode and the headphones are plugged in, you will also hear a beep when you press and hold the Alarm 1 or Alarm 2 button.)
- Rotate the Tuning control knob to select "On" or "Off". If "Off" is selected any current setting for that alarm will be cancelled. With "On" selected, press and release the Tuning control knob to cause the alarm hour digits to highlight on the display.
- Rotate the Tuning control knob to choose the desired hour for the alarm and press the Tuning control knob to cause the minute digits to highlight on the display.
- Rotate the Tuning control knob to choose the desired minute for the alarm and press the Tuning control knob to confirm the setting. The display will show the frequency options for the alarm.

- "Once" - the alarm will sound once
 - "Weekdays" - the alarm will sound on weekdays only
 - "Weekends" - the alarm will sound only at weekends
 - "Daily" - the alarm will sound everyday
- Rotate the Tuning control knob to select your required frequency and press the Tuning control knob to confirm your setting.
- Rotate the Tuning control knob to choose the desired source for the alarm (FM or AM). Press the Tuning control knob to confirm the setting.
 - Rotate the Tuning control knob to choose your required wake-up station or press the desired Preset button (1-10). Then press the Tuning control knob to confirm your selection.
 - Rotate the Tuning control knob to choose your desired volume and press the Tuning control knob to confirm the setting. Your radio will show "Alarm 1 Saved" for instance

14

Region B (US, Mexico, Canada)	FM: 87.5-107.9, 200kHz
Region B (US, Mexico, Canada)	AM: 520-1710, 10kHz
Region C (Most countries)	FM: 87.5-108, 50kHz
Region C (SE Asia)	AM: 522-1620, 9kHz
Region D (Brazil, Japan)	FM: 76-108, 100kHz
Region D (Brazil)	AM: 522-1629, 9kHz

Antenna system	FM - Dipole type (supplied) AM - Loop type (supplied)
Headphones socket	3.5mm diameter stereo jack Output power 3mW + 3mW (load 32ohm)
Optical SPDIF output socket	Toslink
Coaxial SPDIF output socket	RCA
Line Out socket	RCA
Dimension	16.9" (L) x 10.7" (W) x 2.9" (H)
Weight	5.8lbs



Sangean reserves the right to amend the specifications without notice.

