

## Nano Advanced Hearing Technology



**Customer Service Phone:**  
(877) 654-9071

Pro Tip: Wednesday-Friday after 12pm EST is  
the best day to call for lowest wait time



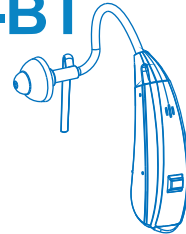
**Website:**  
[www.nanohearingaids.com](http://www.nanohearingaids.com)



**Mail**  
[support@nanohearingaids.com](mailto:support@nanohearingaids.com)



# NANO-Sigma-BT



# Instruction Manual

## IMPORTANT

Please take time to carefully read through this entire manual to learn how to use the **NANO-Sigma-BT**, and ensure optimal **performance!**



## PREFACE

**Congratulations on becoming the new owner of a NANO Model Sigma-BT hearing aid!**

**Your Model Sigma-BT is Bluetooth compatible product which can be connected to an App for optimized settings.**

Our products have **helped** thousands of **satisfied customers** in all corners of the **globe**. We are passionate about helping you find an affordable solution to your **hearing loss** challenges. Your new **Model Sigma-BT** is the perfect mix of price and quality, and we are confident it will help you hear more clearly. Becoming comfortable with using the **Model Sigma-BT** will take time and patience, so **practice** wearing your **Sigma-BT** while speaking with friends and family, while watching TV, or listening to music.

**Welcome** to the **NANO** hearing aid family!

# Indications for Use

This hearing aid device is intended to amplify and transmit sound to the ear and thereby compensate for mild to severe impaired Hearing.

## **Advisory Statement -Warning-**

Nano Hearing Aids advise prospective hearing aid users to consult promptly with a licensed physician (preferably an ear specialist before dispensing a hearing aid if Nano Hearing Aids determines through inquiry, actual observation, or review of any other available information concerning the prospective user, that the prospective user has any of the following conditions:

- (i) Visible congenital or traumatic deformity of the ear.
- (ii) History of active drainage from the ear within the previous 90 days.
- (iii) History of sudden or rapidly progressive hearing loss within the previous 90 days.
- (iv) Acute or chronic dizziness
- (v) Unilateral hearing loss of sudden or recent onset within the previous 90 days.
- (vi) Audiometric air-bone gap equal to or greater than 15 decibels at 500 hertz (Hz), 1,000 Hz, and 2,000 Hz.
- (vii) Visible evidence of significant cerumen accumulation or a foreign body in the ear canal.
- (viii) Pain or discomfort in the ear. Special care should be exercised in selecting and fitting a hearing aid whose maximum sound pressure level exceeds 132 decibels because there may be risk of impairing the remaining hearing of the hearing aid user. (This provision is required only for those hearing aids with a maximum sound pressure capability greater than 132 decibels (dB).)

## **Important Notice for Prospective Hearing Aid Users**

Good health practice requires that a person with a hearing loss have a medical evaluation by a licensed physician (preferably a physician who specializes in diseases of the ear) before purchasing a hearing aid. Licensed physicians who specialize in diseases of the ear are often referred to as otolaryngologists, otologists or otorhinolaryngologists. The purpose of medical evaluation is to assure that all medically treatable conditions that may affect hearing are identified and treated before the hearing aid is purchased.

Following the medical evaluation, the physician will give you a written statement that states that your hearing loss has been medically evaluated and that you may be considered a candidate for a hearing aid. The physician will refer you to an audiologist or a hearing aid dispenser, as appropriate, for a hearing aid evaluation.

The audiologist or hearing aid dispenser will conduct a hearing aid evaluation to assess your ability to hear with and without a hearing aid. The hearing aid evaluation will enable the audiologist or dispenser to select and fit a hearing aid to your individual needs.

If you have reservations about your ability to adapt to amplification, you should inquire about the availability of a trial rental or purchase-option program. Many hearing aid dispensers now offer programs that permit you to wear a hearing aid for a period of time for a nominal fee after which you may decide if you want to purchase the hearing aid.

Federal law restricts the sale of hearing aids to those individuals who have obtained a medical evaluation from a licensed physician. Federal law permits a fully informed adult to sign a waiver statement declining the medical evaluation for religious or personal beliefs that preclude consultation with a physician. The exercise of such a waiver is not in your best health interest and its use is strongly discouraged.

### Children with hearing loss








In addition to seeing a physician for a medical evaluation, a child with a hearing loss should be directed to an audiologist for evaluation and rehabilitation since hearing loss may cause problems in language development and the education-al and social growth of a child. An audiologist is qualified by training and experi-ence to assist in the evaluation and rehabilitation of a child with a hearing loss.

### Notes:

These hearing aids are intended for the purpose described in these instructions. The manufacturer is not liable for any damage resulting from improper or careless use.


## Hazard warnings and product safety

– Please read before using your hearing instrument the first time.

	 <b>Hazard Warnings</b> – relevant warning notices
	Never wear other people's hearing aid! It could permanently damage/affect your hearing.
	Avoid direct contact with force (e.g. smacking/slapping, wrestling or likewise sports) while wearing a hearing instrument, such impact could be harmful to your hearing.
	Do not wear hearing instrument in heavy industrial areas (mines, explosion sites).
	Hearing aid batteries are toxic. Keep out of reach of children and pets. If accidentally swallowed, consult physician immediately!
	If pain, skin irritation in the ear or excessive accelerated earwax, consult physician.
	In the unlikely case of the dome being stuck in your ear canal, after the removal of the sound tube from the ear, it is highly recommended, for you to see a physician for safe removal of the dome.

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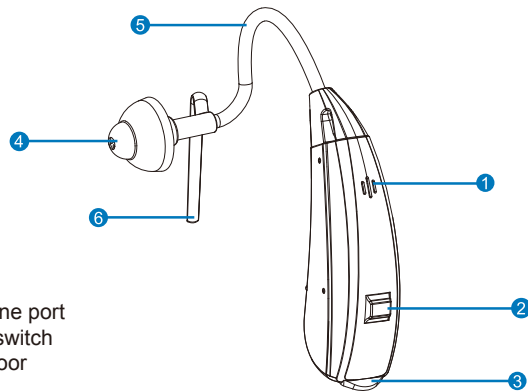
	<b>i Product Safety</b> – relevant product handling and care
<b>i</b>	Do not drop hearing device onto a hard surface that can damage the instrument.
<b>i</b>	When hearing instrument is not in use, leave battery door open so moisture can evaporate. Store instrument in a safe, dry and clean place.
<b>i</b>	Remove battery from your hearing instrument if not use for an extended period of time to prevent dead battery from leakage/expansion that can be harmful to the instrument.
<b>i</b>	To obtain best performance from your hearing instrument, always use new and high-quality batteries.
	Proper disposal of electronic products protects the health of people and the environment. This symbol means the hearing instrument may not be thrown away as normal daily waste. Hearing instrument should be disposed at intended electronic waste/recycle sites, or at your hearing care professional office.

CE 0482



## GETTING TO KNOW YOUR HEARING AIDS

# NANO Model Sigma-BT



1. Microphone port
2. Memory switch
3. Battery door
4. Dome
5. Sound tube
6. Retention lock

# PACKAGE CONTENTS

NANO Model Sigma-BT Hearing aid set  
User Manual

Dome + tube set Package

Cleaning tools (brush, filament line)

## Battery tips

*NANO Sigma-BT uses a 13A battery.*

IMPORTANT: Insert battery into the battery door compartment with the positive (+) side (flat side) faced up. If the battery is inserted incorrectly, the door will not close. Do not force close the battery door!



**WARNING:** Keep batteries away from children and pets. Seek immediate medical attention if a battery is accidentally swallowed!

TURN ON - Gently insert battery and close the door. The hearing instrument has a built-in power on delay, so it will take several seconds for the device to activate its full functions.

TURN OFF - Simply keep battery door open; also helps extend battery life.

NOTE: Turn OFF instrument if not use in an extended period of time to prevent damage from battery expansion or leakage.

## Assembling your Model Sigma-BT

With these 3 simple steps, you'll have your hearing aid assembled in no time!

### 1- Selecting:

Choose the dome that fits you best and connect it to the hearing tube.

### 2- Dome and sound tube assembly:

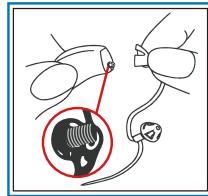
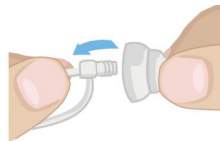
Align and press together tightly the connecting end of the sound tube to the hearing instrument connector.

### 3- Instrument and sound tube assembly:

Align and press together the dome's opening over the grooves of tubing.

Note: LEFT and RIGHT hearing instrument is provided with the sound tube of the appropriate side.

**RED lettering on sound tube is for right ear**  
**BLUE lettering on sound tube is for left ear**



## How to correctly place the Sigma-BT on your ear

1. Place the BTE device behind your ear.
2. Hold the bend of the sound tube close by dome and gently insert the dome into your ear canal until the tube lies flush with your head. The dome should fit in the ear canal snug, but not tight.
3. Using your index finger, press/tug the retention lock inside the bowl of the ear.

**NOTE:** Turn ON the hearing instrument before inserting dome into the ear canal.



## How to use the BT App

Linking of the NanoHearing™ App with your smart device will optimize the device parameters based on the user's brief hearing check results. The NanoHearing™ App's primary feature is to customize the user's preferred profile settings that will provide a fit and comfortable hearing experience.

**Note:** For iOS 9 or later, iPhone 5 or above; Android 6.0 or later.

### 1. *Link your App*

Step 1: Go to App Store or Google Play, search and download the ' NanoHearing™ ' App.



Step 2: Enable Bluetooth connection on the Smart device/phone before open/start the NanoHearing™ App.



Step 3: Register/Connect the instrument to the NanoHearing App.

\* Search device by enter SETTING (Fig. 1, 2 & 3). If a pair of instrument is available, connect/register one at a time.

\*\* Connect device - select the appropriate side, left or right, of the instrument.



Fig. 1

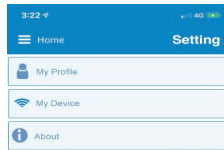


Fig. 2

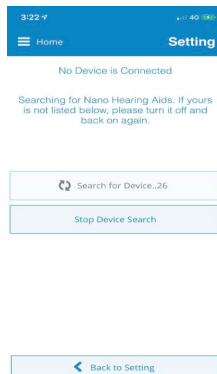


Fig. 3

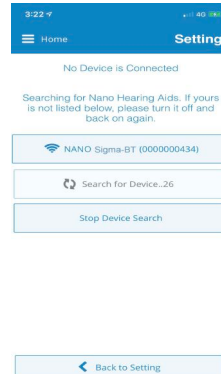


Fig. 4

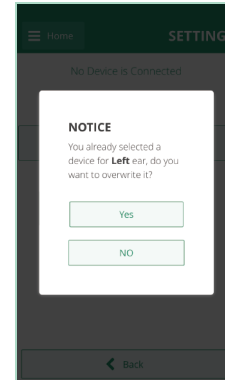


Fig. 5

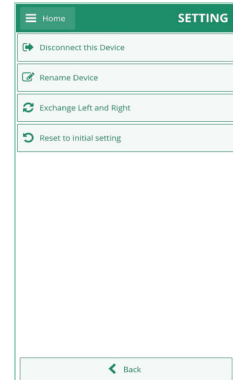


Fig. 6

\*\*\* After registration and connection, you can do some changes showed on Fig. 6.

ON/OFF function:

\* Select instrument for ON/OFF by touch button. (Fig. 7 & 8)

\*\* Slide to right to Turn on both side device, and Slide to left to Turn off both side device ( Fig. 9 & 10)



Fig. 7

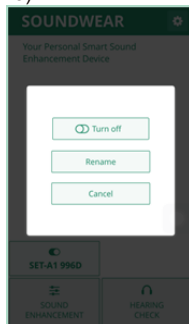


Fig. 8



Fig. 9



Fig. 10

Step 4: App and instrument connection/registration completed: NanoHearing home screen shown instrument connected with battery power level indicator. (Fig. 7 & 8)

## 2. Hearing Check

Step 1: Hearing Check function - allows user to quickly perform a self-hearing check by use of Headset/Earbud or by your hearing instrument.

Step 2: Follow hearing check guiding steps and confirm/acknowledge active reference tone at each frequency testing/measuring. (Fig. 13)

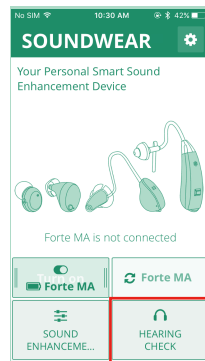


Fig. 11

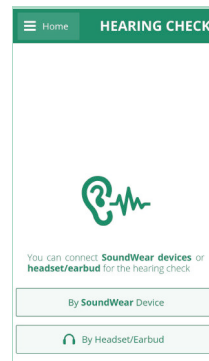


Fig. 12

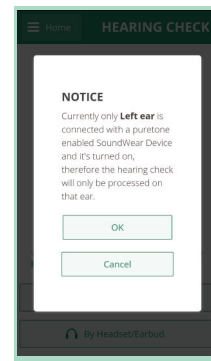


Fig. 13

Step 3: User should HEAR or NOT HEAR the reference tone. Hearing Check screen shows an active 'waving' line on the side of testing instrument and MASKING on the non-testing instrument. (Fig. 14)

Step 4: Confirm 'I Hear it' or 'Don't hear it' in all testing frequencies. Hearing Check completed with 'See Result' at bottom of Hearing Check screen. (Fig. 15)



Fig. 14

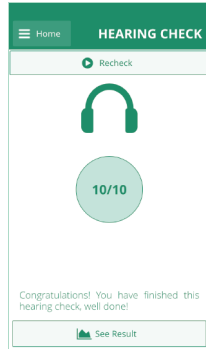


Fig. 15

Step 5: Select 'See Result' will provide the options -

1. To optimize the smart device parameters based on the user's hearing check results which will auto-fit for best quality sound in all preset mode/environments. Examples of 'Hearing Check' result before Optimized (Fig. 16), Hearing Check' result after Optimized (Fig. 18) and Auto-fit Band after Hearing Check Optimized (Fig. 19).
2. Select **Recheck** icon to redo the hearing check. (Fig. 16 and 18)



Fig. 17

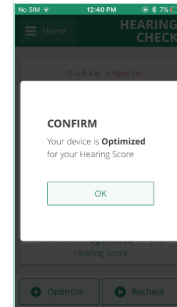


Fig. 18

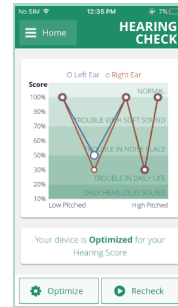
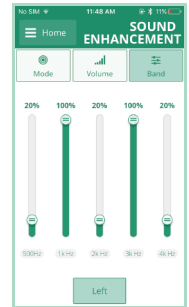


Fig. 19



### 3. Sound enhancement

Standard/Factory settings:

Mode will signal with 'beeping' sound when change/switching, i.e. one beep for Mode 1(All around environment), two beeps for Mode 2(Restaurant), etc.

Optimized settings:

Mode preset signal - same as Standard/Factory settings. While Volume and Band variably adjusted to fit user's most comfortable hearing level based on the optimized hearing check results. (Fig. 20 & 21)

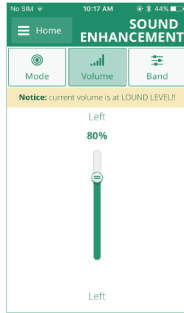


Fig. 20

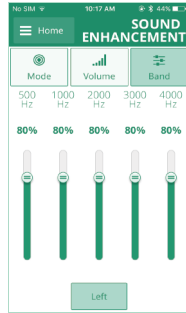


Fig. 21

### 4. Lock or unlock setting

User who wear a pair of Sigma-BT can customize the instruments' setting to be adjusted together or separately.

**Volume control setting:** Both instruments can be adjusted together at the same level by select link/lock icon (Fig. 22), or variably change level separately by unlink/unlock the icon (Fig. 23)

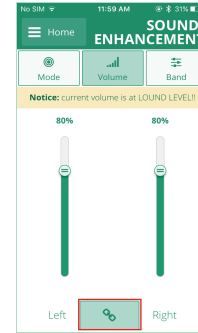


Fig. 22

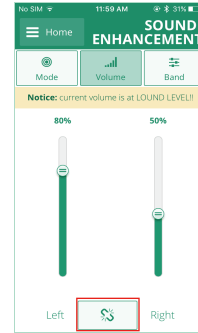


Fig. 23

**Band setting:** variable setting of Band for each side of instrument can only be done independently. (Fig. 24 & 25)  
Instrument link/lock function is NOT available in Band.

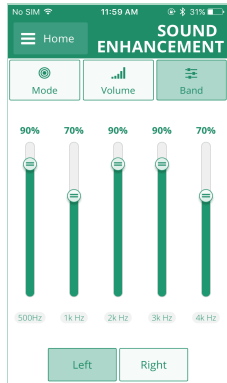


Fig. 24

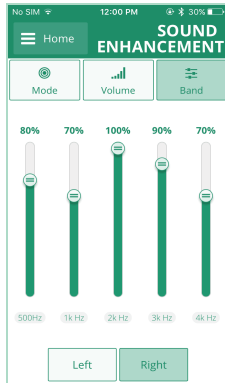


Fig. 25

### Mode setting:

\*App preset function to change both left and right instruments together. (Fig. 26)  
\*\*Memory switch will allow user to perform instrument mode change individually. (Fig. 27)

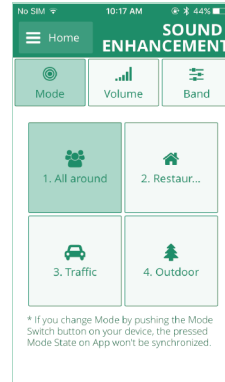


Fig. 25

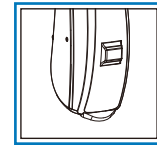


Fig. 26

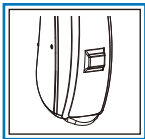
## Memory switch and Modes

\*Memory switch function can be used to change preset mode/program individually.

Your hearing instrument can be programmed up to 4 different listening programs. When the hearing instrument is turned on, it will automatically be in program 1. Other preset programs are for your specific needs that can be accessed by using the memory switch. Pressing of the memory switch will change the program according to the preset sequence: 1, 2, 3 and 4.

Your hearing instrument 'beeping' signal will help you identify preset programs. Example: program 1 will emit 1 beep, program 2 will emit 2 beeps, etc.

**NOTE:** the programs are preset by your hearing healthcare professional or the manufacturer.



Program	1	2	3	4
Best for	All around	Restaurant	Traffic	Outdoor
Indicator	1 beep	2 beeps	3 beeps	4 beeps

## Troubleshooting

SYMPTOM	POSSIBLE CAUSE	SOLUTIONS
No/low sound; no function	Hearing instrument may not be turned on	Turn on the hearing instrument
	Battery may be low or dead	Replace battery
	Sound outlet may be blocked	Clear sound outlet or contact hearing instrument provider/seller
	Startup delay is on	Wait a few seconds for the device to be turned on
	Instrument not fitted well in the ear.	Remove and reinsert the instrument into your ear
	Volume set too low	Adjust Volume on App
Whistling, feedback	You may have excessive cerumen	Contact your hearing care professional

Whistling, feedback	Instrument not fitted well in the ear.	Re-insert instrument or replace with a better fitted size dome.
	Volume set too high	Adjust volume on App
Sound: distorted, intermittent, not clear, static, too much Bass	Low battery or dead battery	Replace battery
	Poor battery contact	Contact hearing instrument provider/seller
	May need reprogramming	Contact hearing healthcare professional
	Sound outlet may be blocked	Clean sound outlet or contact hearing instrument provider/seller
	Close range with other electromagnetic devices/fields (speaker, phones, etc.)	Distant from other electromagnetic devices/fields.

App connection failure	Technical issues with Smart device	Restart the Smart device
	App and Smart device incompatibility	Check iOS/Android OS version
	App outdated	Update App with newer version
	Improper battery insertion	Re-insert or replace with new battery
	cause/reason of failure unknown/undetermined	Contact instrument provider, where instrument was purchased.

# Maintenance

## Cleaning

Use a soft cloth to wipe the tube after each use to remove any dirt and moisture. The provided cleaning tool and brush is for removing debris / wax built-up inside the sound tube and dome.

## Changing the tube

1. To remove the sound tube, gently rotate the sound tube counter-clockwise from the hearing instrument case until it comes off.
2. To clean, insert the filament cleaning tool through the threaded end of the tube and continue pushing the tool all the way through the tube until it comes out at the end with the dome.



3. To reassemble the sound tubing, simply reverse the removal process by tightening the tubing and the instrument connector with a clockwise motion until the two flat surfaces are flushed together.





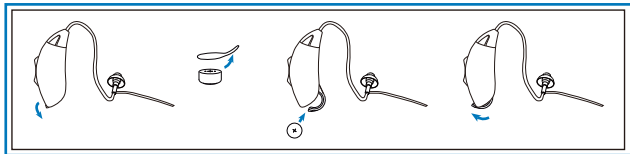
## Battery replacement

When you hear one short beep - signal alerting that battery is running low/out. Low battery alert will continue intermittently until battery gets replaced.

1. Turn off the hearing instrument.
2. Remove low/dead battery from battery door.
3. Remove the protective foil cover from the new battery.
4. Insert the new battery and be sure the plus (+) faced up.
5. Close the battery door.

**NOTE:** Gentle handling - battery operation needs little effort.

There should be no resistance at closing, for door can not close if battery is reversed.



## Battery care

The sound quality may change after the first warning, this is normal and can be remedied by replacing with a fresh battery.

To prevent dead battery corrosion inside your hearing instrument ALWAYS remove the battery if your instrument is not in use for long period of time.

The performance of the hearing instrument greatly depends on the quality of the battery.

- 1) It is important to use high quality batteries since it helps prevent instrument from periodic malfunction.
- 2) Batteries shall be well kept in its original seal and package.
- 3) Never leave an old or dead battery in the hearing instrument. Leaving a dead battery inside the instrument for an extended period of time can cause battery leakage which can be damaging to the instrument.

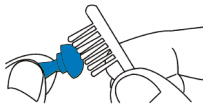
# Whistling

Whistling is common in small amplifier and is known as 'feedback'. It is caused by amplified sound leaving the ear and receiving back into the microphone and being re-amplified. The following tips will help reduce the effect of feedback/whistle noise:

1. Lower the volume.  
Keep volume at lower setting before inserting the instrument in your ear.
2. Secure instrument fitted position  
Feedback/whistling noise will stop when the instrument is best fitted/sealed in the ear with the best fitted dome size.
3. Clear the ear canal of wax or debris.  
Seek your hearing care provider for excessive wax built-up
4. Replace the dome or tubing.  
Change new dome with a better fitted size.  
Make sure the tubing is not broken or torn.

# Cleaning care and precautions

Keep the hearing instrument clean and dry. Use only soft cloth to remove any body oil or moisture from the hearing instrument shell. Use provided cleaning tools to clean wax built-up. If the instrument is subject to a lot of perspiration, it is recommended, turned OFF the hearing instrument and put into a dry box at least once a week. Dry box can be bought online or any local pharmacy.



**DO NOT**

use water, harsh chemicals, strong cleaners or other fluids to clean the hearing instrument.

**DO NOT**

leave your hearing instrument in the direct sun or in areas where the temperature can rise over 60°C / 140°F for extended periods of time.

**ALWAYS**

handle the hearing instrument with care; it's important to prevent hearing instrument from dropping on hard surfaces, such as counter top, table or floor.

# Appendix

## Environment condition

Environment Condition	Working Condition	Transportation Condition	Storage Condition
Temperature	10℃~+40℃	-20℃~+60℃	-20℃~+60℃
Air humidity	0%~80%	0%~90%	0%~80%
Air pressure	500~1200hpa	500~1200hpa	500~1200hpa

## Technical data

### Technical Data

Peak OSPL 90(dB SPL)	122
HFA OSPL 90(dB SPL)	111
Peak Gain(dB)	38
HFA full on Gain(dB)	29
Total Harmonic Distort:	
500Hz(%)	≤3.0
800Hz(%)	≤3.0
1600Hz(%)	≤3.0
EQ Input Noise(dB)	≤32
Battery Current(mA)	≤2.3
Frequency Range(Hz)	300-4000
ANSI S3.22-2003	IEC 60118-7/2005

# FCC Statement

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:

- 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.

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.