



FIG 1

ANSI S3.19-1974 Table (NRR Table)

A1: Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	NRR
A2: Grand Mean Attenuation, dB	28.5	25.4	30.3	32.8	37.7	42.0	40.9	44.0	44.6	<b>27</b>
A3: Standard Deviation, dB	2.8	2.3	3.0	3.8	2.8	3.3	3.6	2.7	3.4	

EN352-2:2002 Table (SNR Table)

B1: Frequency (Hz)	125	250	500	1000	2000	4000	8000
B2: Mf (dB)	34.5	32.6	39.2	37.7	38.1	42.6	44.6
B3: sf (dB)	6.0	5.1	5.6	5.4	3.5	4.8	4.7
B4: APVf	28.4	27.6	33.6	32.3	34.6	37.8	39.9

B5:  
 SNR=36dB  
 H=36dB  
 M=33dB  
 L=31dB

APVf=MF-SF9 (dB)

**Models**

IT-19 ORIGINAL 2.0 EN 352

IT-20 ORIGINAL 2.0

**Important**

Please read, understand, and follow all safety information. This product is designed to protect against harmful noise.

**Fitting**

ISOtunes® ORIGINAL 2.0 comes with 4 sets of TRILOGY™ foam eartips (XS,S,M,L) and 3 sets of silicone eartips (S,M,L). Choose the size that fits most snugly in your ear canal. Remember, the snugger the fit, the better the noise blocking. The silicone eartips are intended for use when NOT in noisy situations.

ISOtunes® TRILOGY™ foam eartips have a threaded core and the sound port on the earbud is also threaded.

1. Twist the foam eartip counterclockwise to remove and clockwise to place on a new foam eartip.
2. Carefully compress the foam eartip on the stem/sound port.
3. Insert the foam/eartip into your ear as deeply as is comfortable and hold for 5 seconds while the foam expands.
4. Repeat with second eartip.

Hint: To open your ear canal wider, lift the top of your ear up and away from your head, as shown in FIG1.

## **Introduction**

Thank you for purchasing ISOtunes® ORIGINAL 2.0 Professional Noise Isolating headphones. These headphones have been specifically designed for use in noisy environments – allowing you to block out much of the surrounding noise so that you can listen to your music or talk on the phone with less interruption. This product has been tested and meets the European Safety Standard EN352-2:2002 and the ANSI & NIOSH standards for a hearing protector, with a Single Number Rating (SNR) of 36 dB and a Noise Reduction Rating (NRR) of 27 dB. Full testing details are available in the Noise Attenuation section of this booklet.

## **Noise**

### **Attenuation**

APPROVAL: ISOtunes® ORIGINAL 2.0 is tested and approved in accordance with ANSI S3.19-1974 Specifications and the European Safety Standard EN 352-2:2002.

## **ANSI**

### **S3.19-1974**

The level of noise entering a person's ear, when ISOtunes® ORIGINAL 2.0 headphones are worn as directed, is closely approximated by the difference between the A-weighted environmental noise level and the Noise Reduction Rating (NRR). Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fitting.

A1: Frequency (Hz)

A2: Mean Attenuation (dB)

A3: Standard Deviation (dB)

Example:

1. The surrounding noise level measured at the ear is 100 dB.

2. The NRR of ISOtunes® ORIGINAL 2.0 is 27 dB.
3. The noise level entering the ear is approximately equal to 73dB.

Please note that the NRR is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulsive noise, such as gunfire.

### **EN352**

B1: Frequency (Hz)

B2: Mean Attenuation (dB)

B3: Standard Deviation (dB)

B4: Assumed Protection Value (APV) (dB)

B5:

H = Hearing protection estimation for high frequency sounds ( $f \geq 2000\text{Hz}$ )

M = Hearing protection estimation for medium frequency sounds ( $500 \text{ Hz} < f < 2000\text{Hz}$ )

L = Hearing protection estimation for low frequency sounds ( $f \leq 500\text{Hz}$ )

The EU declaration of conformity can be accessed at

[www.isotunes.co.uk/EU-declaration-of-conformity](http://www.isotunes.co.uk/EU-declaration-of-conformity)

The products will be certified to the Product standard EN 352-2:2002 and the PPE Regulation 2016/425

### **SafeMax™ Technology**

ISOtunes® ORIGINAL 2.0 incorporates SafeMax™ Technology, therefore its volume output has been limited to 85 decibels (IT-20) and 79 decibels (IT-19). ISOtunes® devices with SafeMax™ Technology are OSHA, NIOSH, and ANSI compliant and, when designated, meet the European Safety Standard EN352.

### **Cleaning and Maintenance**

Trilogy foam eartips are disposable. To ensure peak performance, we recommend replacing TRILOGY™ Foam Tips every three months or when they become soiled. In order to purchase additional tips, please go to [www.ISOtunes.co.uk](http://www.ISOtunes.co.uk)

Clean your ISOtunes® ORIGINAL EN352 by gently wiping them with a clean damp cloth. Mild soap can be applied to the cloth.

Do not use abrasive cleaning solvents to clean the headset. Avoid scratching the headset with sharp objects, as this may cause damage. Keep the headset away from high temperature areas.

- Clean your ISOtunes ORIGINAL 2.0 by gently wiping them with a clean, damp cloth with mild soap.
- Do not use abrasive cleaning solvents to clean the hearing protector.

The TRILOGY™ foam eartips should be regularly inspected for deterioration, cracking, or other damage. The eartips can be cleaned in between uses with a damp cloth and water. Overtime, the eartips should be replaced.

## **WARNINGS**

ISOtunes® ORIGINAL 2.0 does an excellent job of blocking outside noise. As such, IStunes® ORIGINAL 2.0 should NOT be used in environments where users need to be fully aware of their surroundings for personal safety reasons. For example, do NOT use them while driving a car or riding a motorcycle. Similarly, do NOT use them when riding a bicycle outside. The user is solely responsible for ensuring that IStunes® ORIGINAL 2.0 is used ONLY in safe environments.

This product may be adversely affected by certain chemical substances. Further information may be sought from the manufacturer.

These earplugs should not be used where the risk that the connecting cord could be caught up during use.

## **Recommendations**

The wearer should ensure the product is properly cleaned and dry before and after use. Storage should be in a clean and dry location between -20 °C and 50 °C.

The battery should not be fully discharged before long term storage.

The wearer should ensure that:

- The hearing protector is fitted, adjusted, and maintained in accordance with the manufacturer's instructions.
- The hearing protector is worn at all times in noisy surroundings.
- The hearing protector is regularly inspected for serviceability.

If these recommendations are not adhered to, the protection afforded by the hearing protector will be severely impaired.

## **Additional Notes**

ISOtunes® ORIGINAL 2.0 is compliant with Bluetooth® V5. We do not guarantee compatibility of all functions on every Bluetooth®-enabled device. Please check your device's user manual for compatibility and functionality.

For additional information or questions about IStunes® products or spares and accessories, please contact our support team.

Mean Mass: About 21 grams

Date of Obsolescence: 3 years from purchase date

Not to be used in Explosive Atmospheres

The Carry Case provided is the packaging suitable for transport

Included Eartip Sizes	Nominal Diameter
Extra Small	8-10 mm
Small	8-11 mm
Medium	8-12 mm
Large	9-14 mm

## FCC

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. Warning: Changes or modifications not expressly approved by the party

responsible for compliance could void 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. RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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ISOtunes ORIGINAL 2.0 Model IT-19 and IT-20

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