



ISOtunes® FREE Aware Wireless Earbuds

IT-15, IT-16





FIG 1



FIG 2



FIG 3



FIG 4

ANSI S3.19-1974 Table (NRR Table)

Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Grand Mean Attenuation, dB	30.7	28.3	33.7	33.5	32.9	33.9	35.9	40.1	42.7	25
Frequency, Hz	5.0	3.4	5.0	3.3	2.5	2.4	4.3	2.6	2.1	

EN352-2:2002 Table (SNR Table)

B1: Frequency, Hz	125	250	500	1000	2000	4000	8000
B2: Mf (dB)	26.4	30.5	33.5	33.8	32.8	37.1	41.6
B3: sf (dB)	3.4	3.3	4.6	4.9	2.7	4.6	4.4
B4: APVf	23.0	27.2	28.9	28.9	30.1	32.5	37.2

B5:
 SNR=32 dB
 H=32 dB
 M=30 dB
 L=28 dB
 APVf=MF-SF9 (dB)

ISOtunes® FREE Aware Wireless Earbuds

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Important

Please read, understand, and follow all safety information. This hearing protector provides level-dependant functionality, safety-related audio input, and an entertainment audio facility.

Models

IT-15 ISOTunes FREE Aware

IT-16 ISOTunes FREE Aware EN 352

Full manual can be found at
[ISOTunes.com/FREEAwareManual](https://www.3m.com/US/en/Products/Personal-Protective-Equipment/Earplugs/ISOTunes/ISOTunes.com/FREEAwareManual)

The ISOTunes FREE Aware comes with 3 sets of TRILOGY™ foam eartips (S,M,L), 3 sets of TRILOGY™ Short foam eartips (S,M,L), and 1 set of triple flange silicone eartips. Choose the size that fits best in your ear canal. Remember, the snugger the fit, the better the noise blocking. The silicone eartips are not tested for noise-attenuation and should not be used in noisy environments.

Fitting

1. Carefully compress the foam eartip on the stem/sound port.
2. Insert the eartip into your ear as deeply as comfortable
3. Slightly rotate eartip until it is secure in the bowl of your ear.
4. Make the eartip rest tightly next to your inner ear edge.

Introduction

Thank you for purchasing ISOTunes® FREE Aware True Wireless Noise-Isolating Earbuds. These earbuds 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.

Controls

[See the **Quick Start Guide**]

Only charge your ISOTunes FREE Aware with a Maximum 5 Volt charger. Using a charger higher than 5 Volts could be dangerous and may damage your ISOTunes product. Be especially careful with “quick charge” or “turbo charge” chargers, which often supply 9, 12, or 15 Volts. Your ISOTunes LINK 2.0 cannot be charged at voltage levels above 5 volts.

Noise Attenuation APPROVAL

This product has been tested to the European Safety Standard EN352-2:2020 and the ANSI S3.19-1974 standard for a hearing protector, with a Single Number Rating (SNR) of 32 dB and a Noise Reduction Rating (NRR) of 25 dB.

ANSI**S3.19-1974**

The level of noise entering a person's ear, when ISOTunes® FREE Aware earbuds 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® FREE Aware is 25 dB.
3. The noise level entering the ear is approximately equal to 75 dB.

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.

EN 352

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 full text of the declaration of conformity is available at: www.ISOtunes.co.uk/UEdeclaration-of-conformity.

SafeMax™ Technology

ISOtunes® FREE Aware incorporates SafeMax™ Technology, therefore its volume output has been limited to 85 decibels (IT-15), or 79 decibels (IT-16). ISOtunes® devices with SafeMax™ Technology are OSHA and ANSI compliant.

Cleaning and Maintenance

- Clean your ISOtunes FREE Aware by gently wiping them with a clean, damp cloth with mild soap.
- Do not immerse the earbuds in water.
- Do not use abrasive cleaning solvents to clean the earbuds.

If the earbuds get wet from sweat or rain, please discontinue use and allow them to dry.

WARNINGS

ISOtunes® FREE Aware does an excellent job of blocking outside noise. As such, ISOtunes® FREE Aware 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 ISOtunes® FREE Aware is used ONLY in safe environments.

This product may be adversely affected by certain chemical substances, such as bug spray and sunscreen. Further information may be sought from the manufacturer.

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® FREE Aware 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 ISOtunes® products or spares and accessories, please contact our support team.

For additional information or questions about ISOtunes® products or spares and accessories, please contact our support team. Please note, the hearing protector provides an entertainment audio facility. The earbud provides audio signal sound pressure level limitation which limits the entertainment audio signal to 85 dB(A) effective to the ear. This limit is maintained for bluetooth signal inputs which are standard to the Bluetooth A2DP, HFP, and HSP specifications. There is no analog line input on this product.

For additional information about ISOtunes® FREE Aware, please visit www.ISOtunes.com/FREEAwareManual. For additional information or questions about ISOtunes® products or spares and accessories, please contact our support team.

This product may be adversely affected by certain chemical substances, such as bug spray and sunscreen. Further information may be sought from the manufacturer.

The mean mass of the product is 405g.
Date of Obsolescence: 3 years from purchase date.

Not to be used in Explosive Atmospheres.

FCC

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the users' authority to operate the equipment.

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.

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.

This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

UK & Europe

uk-eurosupport@isotunesaudio.com

North America

support@isotunesaudio.com

1-844-396-3737

Monday-Friday 9-5 ET



Haven Technologies, INC.
1025 Pine Hill Way,
Carmel, IN 46032, USA
ISOtunes.com

Haven Technologies DE
Winterhuder Weg 29 7. Fl
22085 Hamburg
Germany

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