



ISOtunes

AIRDEFENDER

THE NEXT GENERATION OF HEARING PROTECTION™

Location of Controls



1. Power Button
2. Volume Up Button
3. Volume Down Button
4. Multifunction Button (MFB)
5. LED Indicator Light
6. Line Input
7. Charging Port



Power On/Off

Power On: Press and hold the power button (1) (you will hear “Power On”)

Power Off: Press and hold the power button (1) (you will hear “Power Off”)

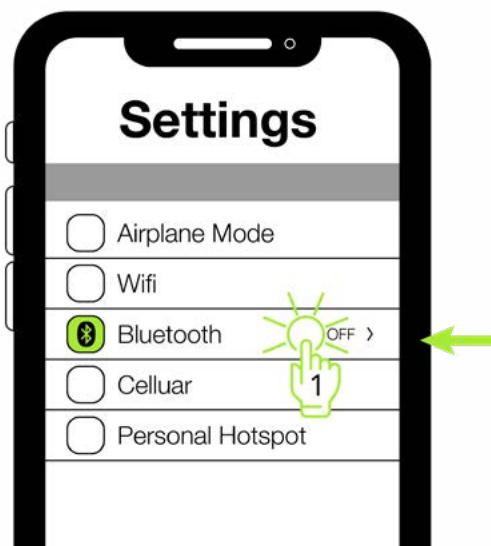


Bluetooth Pairing

Press and hold the Multifunction Button (4) to enable Bluetooth. You will hear “Bluetooth On” and the headphones will automatically enter Pairing Mode.

A

Open the Bluetooth settings on your device.



B

Search for “ISOtunes AIR DEFENDER.” Pair and connect. You will hear “Bluetooth Connected” once connected.



Bluetooth Reset

Press and hold the Multifunction Button (4) for ten seconds. The Bluetooth LED (4) will flash quickly eight times if successful.



Music & Volume

Play/Pause: Short Single Press MFB (4)

Next Track: Short Double Press MFB (4)

Previous Track: Short Triple Press MFB (4)

Volume Up: Press + button (2)

Volume Down: Press – button (3)

Line Input Option

To listen to music via the line input (6), use the 3.5mm audio cable included. Insert one end into the ISOtunes AIR DEFENDER and insert the other end into your phone or other personal media device. **Will not work for phone calls with line input.**



Phone Calls

Answer Call: Short Press MFB (4)

End Call: Long Press MFB (4)

Reject Call: Press and hold MFB (4)

Mute/Unmute Microphone: Short Press MFB (4)



Charging

This product is charged with a micro-USB charger and hold up to 10 hours of music and talk time between charges.



1

Charge the **ISOtunes AIR DEFENDER** by plugging the included micro-USB cable into the product and a **USB Port (6)**. The built in battery will charge, as indicated by a solid blue light. The light will turn off once charging is complete.

2

Only charge your **ISOtunes AIR DEFENDER** with a maximum 5 Volt charger. Using a charger higher than 5 Volts could be dangerous and may damage your **ISOtunes AIR DEFENDER** product. Be especially careful with “quick charge” or “turbo charge” chargers, which often supply 9, 12, or 15 Volts.

LED Indicator Light (5)

-  Solid Red = Charging (Cable Plugged In)
-  No Light = Fully Charged (Cable Plugged In)



LEGALITIES

Fitting



FIG 1



FIG 2



FIG 3

ANSI S3.19-1974 Table (NRR Table)

Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Grand Mean Attenuation, dB	16.0	18.8	26.1	32.5	35.3	39.6	43.0	41.6	40.6	24
Frequency, Hz	2.4	1.9	2.3	2.2	2.5	3.6	4.0	4.5	3.8	

EN 352-2:2002 Table (SNR Table)

B1: Frequency, Hz	63	125	250	500	1000	2000	4000	8000
B2: Mf (dB)	18.9	13.7	19.9	26.8	32.2	35.4	41.8	40.1
B3: sf (dB)	3.0	2.4	1.4	2.5	3.1	2.4	3.9	2.8
B4: APVf	15.9	11.4	18.5	24.4	29.1	33.0	37.9	37.3

B5: SNR: 27 dB
H= 29 dB
M= 24 dB
L= 19 dB
APVf=MF-SF9 (dB)

Models

- IT-46 AIR DEFENDER
- IT-47 AIR DEFENDER EN 352

Important

Please read, understand, and follow all safety information.

Full manual can be found at ISOtunes.com/AIRDEFENDERManual

Fitting

1. Pull the earcups apart
2. Place the product on your head
3. Adjust the earcup position by extending the headband to ensure a good fit around the ears

Introduction

Thank you for purchasing ISOtunes® AIR DEFENDER 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.

Noise Attenuation APPROVAL

This product has been tested to the European Safety Standard EN352-1:2002 and the ANSI S3.19-1974 standard for a hearing protector, with a Single Number Rating (SNR) of 30 dB and a Noise Reduction Rating (NRR) of 24 dB. Full testing details are available in the Noise Attenuation section of this booklet.

ANSI S3.19-1974

The level of noise entering a person’s ear, when ISOtunes® AIR DEFENDER 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® AIR DEFENDER is 24 dB.
3. The noise level entering the ear is approximately equal to 76dB.

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

SafeMax™ Technology

ISOtunes® AIR DEFENDER incorporates SafeMax™ Technology, therefore its volume output has been limited to 85 decibels (IT-46), or 79 decibels (IT-47). ISOtunes® devices with SafeMax™ Technology are OSHA, and ANSI compliant.

Cleaning and Maintenance

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

If the hearing protector gets wet from sweat or rain, please discontinue use and turn the earmuff outwards and allow to dry.

The ear cushions and foam liners should be regularly inspected for deterioration, cracking, or other damage.

WARNINGS

ISOtunes® AIR DEFENDER does an excellent job of blocking

outside noise. As such, ISOtunes® AIR DEFENDER 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® AIR DEFENDER is used ONLY in safe environments.

This product is intended to protect your ears against hazard noise.

The audibility of warning signals at a specific workplace may be impaired while using the entertainment facility.

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

The fitting of hygiene covers to the cushions may affect the acoustic performance of the ear-muffs.

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 $-20\text{ }^{\circ}\text{C}$ and $50\text{ }^{\circ}\text{C}$. 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.

The size range for the earmuff is S M L.

The mean mass of the product is 327.6g.

Date of Obsolescence: 3 years from purchase date.

Not to be used in Explosive Atmospheres.

Additional Notes

ISOtunes® AIR DEFENDER 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.

Please note, the hearing protector provides an entertainment audio facility. The ear-muff 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 an analog line input on this product.

For additional information about ISOtunes® AIR DEFENDER, please visit www.ISOtunes.com/AIRDEFENDERManual. For additional information or questions about ISOtunes® products or spares and accessories, please contact our support team.

Replacement Parts: Hygiene Kit (ear-cushions and foam inserts)
Model Number: IT-86

Replace ear-cushions.

1. Put your finger between the ear cushions and the earcup rim.
2. Pull the Foam Ear cushion away from the earcup rim.
3. Insert the new ear-cushion in place on the earcup rim.

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.

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.

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Die vollständige
Konformitätserklärung finden
Sie auf [ISOtunes.de/Support](https://www.iso-tunes.de/Support)