



VISO HP20

ENGLISH



Owner's Manual

IMPORTANT SAFETY INSTRUCTIONS

OSHA GUIDELINES FOR NOISE EXPOSURE LIMITS

The Occupational Safety Health Administration (OSHA) has issued headphone usage recommendations for maximum daily exposure and sound pressure levels [measured in decibels (dB)]. A decibel is a unit of sound measurement that increases exponentially with volume. For example, conversational speech is typically around 60dB, and a rock concert in a stadium is often about 110dB.

90dB	8 hours
95dB	4 hours
100dB	2 hours
105dB	1 hour
110dB	30 minutes
115dB	15 minutes
120dB	Avoid as damage may occur

FCC NOTICE

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!

- Warnings or announcements may be unnoticed when you are using the headphones. You should be aware of ambient sounds while wearing the headphones, and recognize them as needed.
- Long-term exposure to loud music may cause permanent hearing damage.
- Do not attempt to modify this product as it could result in personal injury and/or product failure.
- If water or other foreign substances permeate inside the device, fire or electric shock may result.

CAUTION

Changes or modifications to this equipment not expressly approved by NAD Electronics for compliance could void the user's authority to operate this equipment.

NOTES ON ENVIRONMENTAL PROTECTION



At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's manual and packaging point this out.

The materials can be reused in accordance with their markings. Through re-use, recycling of raw materials, or other forms of recycling of old products, you are making an important contribution to the protection of our environment.

Your local administrative office can advise you of the responsible waste disposal point.

The NAD VISO HP20 In-Ear Headphones have been designed to bring the warm, open sound of live performances directly to your personal headphone experience.

Designed and driven by audiophiles, NAD VISO HP20 is made specifically for digital natives who understand the difference what clean, crisp sound makes to music lovers.

The NAD VISO HP20 benefits from true headphone innovation that lets you sense the music around you, feel every beat, and hear a more open soundstage.

We hope you will read through this owner's guide to help assure that you are getting the most out of your new NAD VISO headphones.

For warranty information contact your local distributor.

NAD SHALL NOT BE HELD LIABLE FOR ANY TECHNICAL OR USER INTERFACE DISCREPANCIES IN THIS MANUAL.

THE VISO HP20 OWNER'S MANUAL MAY BE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. CHECK OUT THE NAD WEBSITE FOR THE LATEST VERSION OF THE VISO HP20 OWNER'S MANUAL.

WHAT'S INSIDE THE BOX

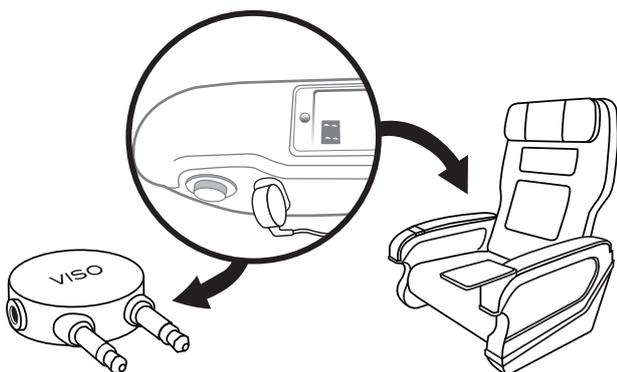
Packed with your VISO HP20 you will find:

- Replaceable gel inserts in 5 sizes
- Mini-accessory travel pouch
- Cable clip
- 3.5 to ¼ inch headphone adaptor
- Airline adaptor

IDENTIFICATION OF PARTS AND ACCESSORIES

1 AIRLINE ADAPTOR

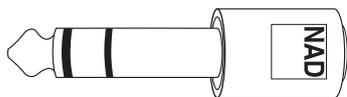
- Use the supplied dual 3.5mm airline adaptor to connect your VISO HP20 with in-flight entertainment systems.



NOTES

- Audio output jack configurations may vary on airplanes. Airline audio may not equal the high quality sound heard from your home audio equipment or portable source.
- NAD Electronics does not recommend using these headphones as aviation communication equipment as they are not engineered for many environmental conditions common in commercial or non-commercial aircrafts (including, but not limited to: altitude, temperature, noise conditions, unpressurized aircraft, etc.) resulting in possible interference to critical communications.

2 HEADPHONE ADAPTOR (3.5 mm to 1/4 inch)

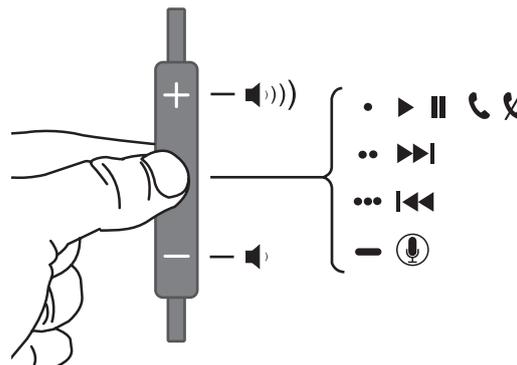


- Use this headphone adaptor to connect your 1/8 inch (3.5mm) stereo plug to a 1/4 inch (6.3mm) stereo jack.

3 INLINE MICROPHONE AND REMOTE CABLE

- VISO HP20 is equipped with an inline microphone and remote cable for use with various models of iPod and other iOS devices. The cable is equipped with a call answer button and other phone features for effortless switching between music listening and talking. It also features music and video playback control for iPod, iPhone and iPad.
- Audio is supported on all iPod models.
- The remote is supported by iPod Shuffle (3rd generation and later).
- The remote and microphone are supported only by
 - iPod nano (4th generation and later)
 - iPod Classic (120GB, 160GB)
 - iPod Touch (2nd generation and later)
 - iPhone 3S, iPhone 4, iPhone 5, iPad and iPad mini

USING APPLE CONTROL FEATURES

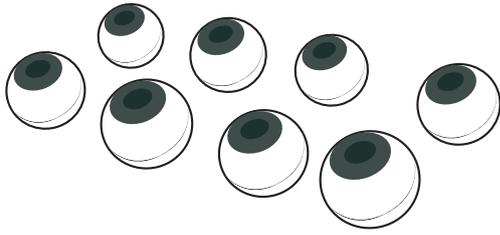


FEATURE	PROCEDURE
Answer or end call	Press the centre button once to answer or end a call.
Decline incoming call	Press and hold the centre button for two seconds, then release. There will be two beeps to indicate successful operation.
Use call waiting	To switch to an incoming call and put an in-progress call on hold, press the centre button, and then repeat to switch back to the previous call and put the new call on hold. To switch to an incoming call and end an in-progress call, press and hold the centre button for two seconds. Two beeps will indicate successful operation.
Activate Siri or voice control	Press and hold the centre button for two seconds.
Play/pause song or video	Press the centre button to play or pause the song.
Skip to next/previous song or chapter	Quickly press the centre button twice to skip to the next song.
Scan forward through song or video	Quickly press, then press and hold the center button to scan forward. Release to stop scanning forward.
Scan backward through song or video	Quickly press twice, then press and hold the centre button. Release to stop scanning backward.
Control Volume	Press the (+) button to increase volume. Press the (-) button to decrease volume.

NOTE

Some functions may not be applicable to your iPod or iOS device.

EARTIP FITTING AND SELECTION



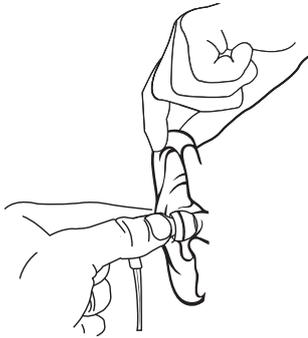
Selecting the correct eartip for use with VISO HP20 will have a major impact on sound quality. With a proper fit and seal, the listener will be isolated from unwanted noise. Bass response will be more pronounced and tonal balance more defined with a comfortable secure fit.

To find a fit for everyone, NAD supplies an accessory package filled with various shapes and sizes of eartips for finding the perfect fit.

- From smallest to largest, test out each eartip to find the best seal and most comfortable fit for the size and shape of your ear canal.
- Also make sure the headphones will stay in the ear and not fall out while being active, like running or cycling.

EARTIP INSERTION AND REMOVAL

- 1 Holding the right in-ear monitor in your right hand, pull up and back on the outer part of the ear to open the ear canal. Carefully insert the right in-ear monitor (rubber tip first) to create a complete and comfortable seal inside the ear.



- 2 Repeat these steps with the left in-ear monitor.
- 3 When done listening, slowly twist the eartip from the ear canal to break the seal and remove the in-ear monitors.

WARNING

Do not insert the eartip deep enough to plug the ear as this could result in permanent damage to the ear canal.

FITTING TIPS

To know whether the eartip is properly sealed within your ear, insert the eartip into the ear canal and try listening to ambient noises with no music playing.

- If there is a proper seal, the sound will be dull and distant.
- If the sound is clear, the eartip is not properly sealed inside the ear.
- If the sound can faintly be heard in the distance but pressure is felt inside the ear, the eartip has been over-inserted and must be readjusted.

PROTECTING YOUR INVESTMENT

For long lasting enjoyment of your headphones, you should respect their limits and avoid excessive volume levels for music or movie playback.

- Excessive volume levels can damage all headphones.
- If your headphones are pushed to excessive volume levels, they might be driven into "clipping", which could result in severe and/or permanent injury.
- If using your headphones at loud levels, listen carefully for any sign of harsh, garbled midrange and diminishing intelligibility – and if detected, turn the volume down immediately.

TROUBLESHOOTING

CONDITION	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
Low or no audio output.	Audio source is powered off.	Power on audio source.
	Audio volume level is set to minimum.	Set audio to medium volume level.
	No connection between audio source and headphone.	Ensure full connection between headphone and audio source.
	Audio source is muted with Apple control feature.	Press center button of Apple control feature to restore audio.
Crackling noise or intermittent audio.	Headphone is not fully inserted or pushed home to the audio source.	Ensure full connection between headphone and audio source.
	Connection at the audio source or headphone end is damaged	Use new headphone.

If you require service, please visit your local authorized NAD service centre, or www.nadelectronics.com/salon for assistance.

SPECIFICATIONS

Rated power	1mW
Frequency response (20 Hz – 20 kHz)	$\pm 1.5\text{dB}$, -3dB at 15Hz
Sensitivity (1kHz)	100dB
Total Harmonic Distortion	$\leq 1\%$
Impedance, passive	16 ohms
Transducer, type	Dynamic driver
Transducer, size	8mm

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