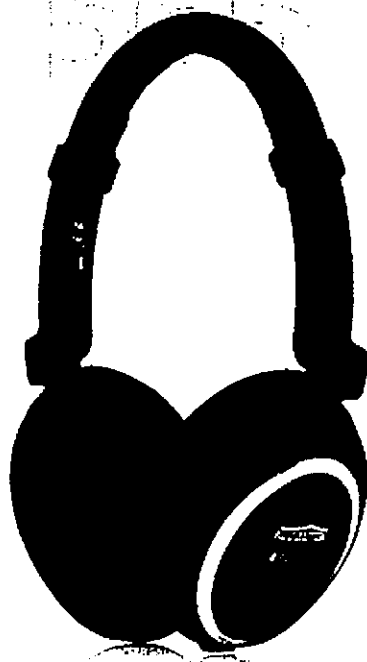


BTO320NCL
Active Noise Control Headphones



SAFETY WARNINGS

- Do not expose the components of your system to extremely high temperatures or bright light sources.
- In case of improper usage or if you have altered and repaired the product yourself, all guarantees expire. We do not accept responsibility in the case of improper usage of the product or when the product is used for purposes other than specified. We do not accept responsibility for additional damage other than that covered by the legal product responsibility.
- This product is not a toy. Keep out of reach of children.
- Warnings or announcements may go unnoticed when you are using the headphones. You should be aware of ambient sounds while wearing the headphones, and recognise them as needed.
- Avoid using headphones/speakers with the volume turned up for an extended period of time. Doing so may damage your hearing. It is advisable to keep the volume at a moderate level at all times.
- The built-in rechargeable battery is not replaceable. Do not remove or replace the battery. Dispose of unit properly. Do not dispose unit in trash or fire.

Warning: Changes or modifications to this unit 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.

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.
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INTRODUCTION

Congratulations on your purchase of the BTO320NCL.

This Bluetooth headphones allows you to play music from a sound source that is equipped with Bluetooth technology without having to connect the source using cables. This could involve a PC or a laptop with a Bluetooth USB dongle, a mobile phone that supports Bluetooth, an Android phone, an Android Tablet, an iPhone, an iPad or a Mac.

The BTO320NCL has a range of about 10 metres, allowing you to organise your music in the same room or in an adjoining room.

ACTIVE NOISE CONTROL

The BTO320NCL is equipped with Active Noise Control (NC).

This greatly reduces ambient noise, which allows you to enjoy all the sounds produced by the BTO320NCL. With Active Noise Control enabled, you will only hear the sound that the BTO320NCL is supposed to produce, instead of planes, whirring computer fans or the air conditioner. With Active Noise Control, a small microphone, placed in each ear pad, picks up ambient noise. This is used to produce a counter sound which actively suppresses the ambient noise. To ensure the best possible sound quality, the Active Noise Control electronics are completely separated from the Bluetooth connection electronics and the audio amplification, and even come with their own rechargeable battery.

This allows you to use Active Noise Control and the Bluetooth function completely independently of each other.

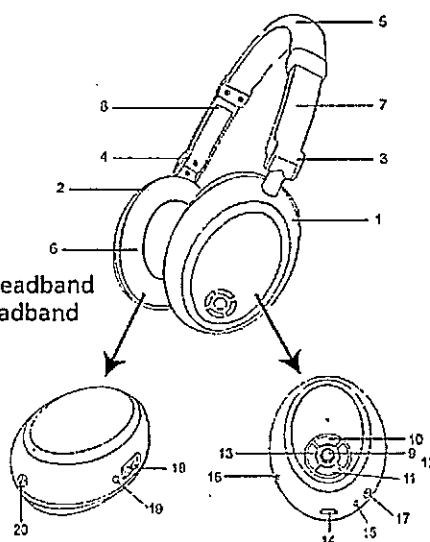
The BTO320NCL is also equipped with a wired audio connection. This enables you, for example, to use the BTO320NCL with the supplied Airline Adapter in an airplane. (Bluetooth off, but Active Noise Control on.)

SET CONTENTS

- 1 x BTO320NCL Bluetooth Headset with NC
- 1 x Micro USB-to-USB cable
- 1 x Audio cable with 3.5mm jack plug
- 1 x Travel Case
- 1 x set of instructions

OVERVIEW

1. Right ear pad
2. Left ear pad
3. Right pivot ear pad
4. Left pivot ear pad
5. Soft headband
6. Breathable ear pads
7. Right arm adjustable headband
8. Left arm adjustable headband
9. Multi-Function button
10. Volume +
11. Volume -
12. Next
13. Previous
14. Micro USB Jack
15. Charging LED
16. Bluetooth LED
17. Microphone
18. Active Noise Control switch
19. Active Noise Control power supply LED
20. 3.5mm Jack Plug socket



LED Indication instructions		
Operation / State	LED status indication	method / result
Power on	blue LED flashes slowly	press the Multi-function key for 5s
Pairing mode	blue LED flashes quickly	press the power button for 5s
Switch off	blue LED flashes, then disappears	press the power button for 5s
Charging indicator	red LED on	USB cable connected
Charged	red LED disappears	disconnect USB cable
Connection	blue LED flashes slowly	flashes every 3s
No connection	blue LED flashes quickly	flashes every 0.5s
Calls	blue LED flashes	press the Multi-function key to answer
Busy	blue LED flashes	flashes every 5s

FIRST USE

The BTO320NCL has two built-in rechargeable batteries.

We recommend completely charging the batteries before using the device for the first time. Connect the supplied USB cable to the BTO320NCL and a PC, Mac or USB power adapter. The red LED will light up.

The device may take up to 4 hours to charge for the first time. Once the BTO320NCL batteries are completely charged, the red LED will switch off.

WEARING STYLE

Watch the left and right indicators on the outside of the headband. Please make sure that the operating buttons are always on the right hand side while wearing the BTO320NCL.

Adjust the fit of the BTO320NCL by changing the length of the headband near the ear pads.

The ear pads may be rotated 90 degrees, allowing you to easily carry and store the BTO320NCL.

PAIRING BLUETOOTH DEVICES (ONE-OFF)

The BTO320NCL is able to remember up to 8 paired devices. As a result, it is not necessary to pair a device every time you connect it. If a 9th device is paired with the BTO320NCL, the device which has been originally paired with the BTO320NCL will be deleted from its memory.

1. Make sure the BTO320NCL is turned off.
2. Press and hold the Multi-function [9] button for 5 seconds to put the BTO320NCL in pairing mode. Release the Multi-function button as soon as the blue LED flashes.
3. Turn on a device that supports Bluetooth, such as an iPod, iPhone, Android or mp3 player and go to: Settings > General > Bluetooth. Click ON 'Bluetooth' and the BTO320NCL will appear on the device. Click on 'BTO320NCL'. The device is now connected and paired with the headphones. If the device prompts for a pairing code, enter: "0000".

VOLUME CONTROL

1. Tap VOLUME+ [10] to increase the volume. When maximum volume has been reached, a tone indicator will sound.
2. Tap VOLUME- [11] to decrease the volume. When minimal volume has been reached, a tone indicator will sound.
3. Press Next [12] or Previous [13] to listen to the next/previous track.

TURNING OFF BLUETOOTH AUDIO

Press and hold the power button for 5 seconds to turn off the BTO320NCL.

The headphones will turn off automatically after 10 minutes when no device is connected to it.

The blue LED will turn off.

BTO320NCL cannot use Bluetooth function while it is charging or wired audio link.

TURNING ON BLUETOOTH AUDIO

Press and hold the Multi-function button for 5 seconds. The blue LED light will start flashing rapidly.

The BTO320NCL will then automatically link to the last device it was connected to. When connected, the blue LED lights will start to flash at a slow rate. Only one device can be connected at the same time to the BTO320NCL. If your device does not connect automatically, go to the device's Bluetooth settings and select the BTO320NCL. A connection will then be made.

ACTIVE NOISE CONTROL

Active Noise Control can be switched on or off using the NC switch. If the green LED is on, Active Noise Control is activated.

Active Noise Control works completely independently from the audio section. To ensure the best quality, NC even has its own power supply. You may also use Active Noise Control with the BTO320NCL's Bluetooth audio section deactivated (to reduce ambient noise), or while using the cabled BTO320NCL.

CALL FEATURE

MAKING A CALL

When making a call from your mobile phone, the call will (depending on the phone settings) be transferred to your headphones automatically once a connection has been made.

ANSWERING A CALL

Press the Multi-function button [9] briefly to accept the call. The music will be paused and the call will be transferred.

ENDING A CALL

Press the Multi-function button [9] briefly or end the call on your phone. The music will continue to play automatically.

BATTERY RUNNING LOW

When the battery of the BTO320NCL is running low, you will hear an audio warning. After 3 to 5 minutes the BTO320NCL will automatically switch off. When the Active Noise Control battery is empty, the Active Noise Control LED remains off after activation. Follow the steps as described earlier to recharge the battery.

CONNECTING WITH AN AUDIO CABLE

The Bluetooth connection can be switched to a wired connection by plugging the cable into the 3.5mm audio jack. This may be useful when the battery has run out and you still want to use headphones. Press and hold the Multi-function button for 5 seconds to turn OFF the BTO320NCL if it is still on. Now, use the supplied audio cable to connect the BTO320NCL to the headphones connector of your audio source. It is not possible to use the function keys in the wired connection mode. However, Active Noise Control can be activated using the switch [18]. Simply detach the 3.5mm audio connector and press the power button for 5 seconds to return to the Bluetooth connection.

FREQUENTLY ASKED QUESTIONS

I can't connect my BTO320NCL.

Check the following:

1. Ensure that the battery is fully charged.
2. Ensure that the Bluetooth function on your mobile telephone is on (check your phone's manual for reference).
3. Ensure that the distance between your mobile phone and the BTO320NCL is no greater than 10 metres and that there are no large obstacles in the way.

Can I link numerous devices to my BTO320NCL?

You can link up to 8 devices to your BTO320NCL. If the BTO320NCL is switched on, it will automatically connect to the last connected device.

Note: At Electrostatic discharge environment, the LED indicator sometimes malfunction when $\pm 4\text{KV}$ contact discharge. It can manual resume by operator.



Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

TECHNICAL DATA

Bluetooth Frequency	2.402-2.480GHz
Bluetooth version	3.0
Supported Bluetooth profiles	A2DP, AVRCP, HFP, HSP
Supported Codec	SBC, AAC, MP3
Range	Up to 10 metres open field
Battery	2 x Li-ion Polymer
- Battery Capacity	300mAh
- Battery Charging Voltage	5V
- Charger Time	3-4 hours max
- Battery Life	1. ANC – 15 hours 2. Bluetooth – 7.5 hours 3. Standby: 200 hours *
audio input	DC3.5 female
Operation	on headphones and audio source
Phone functions	answer call, end call
Audio functions	Volume+, Volume-, Next song, previous song, power, Active Noise Control ON/OFF
Headband	fully adjustable
Weight	140g.
Operation temperature	0°C ~ +45°C
Storage temperature	-10°C ~ +45°C
Microphone	
Microphone unit	6mm x 2.7mm
Sensitivity	-38dB±/-3dB
Directional sensitivity	Omni-directional With Zero Voice Distortion Technique
Impedance	≤ 2,2 Kohm
Frequency response	20-20,000Hz
Drivers	
Driver diameter	40 mm
Impedance	32 Ohm
Sensitivity	105dB±/-3dB
Total Harmonic Distortion ANC ON, ANC OFF:	0.1%
Output power	30mW RMS
Output power	50mW PMPO
Transducer Principle (closed or open):	closed
Ear coupling:	Over-the-ear (circumaural)
Signal To Noise Ratio	≥ 95dB
Frequency response	20Hz-20,000Hz
Size	
Overall:	200 x 185 x 40mm (unit)
Ear Cushion Outside:	67 x 89 x 13mm
