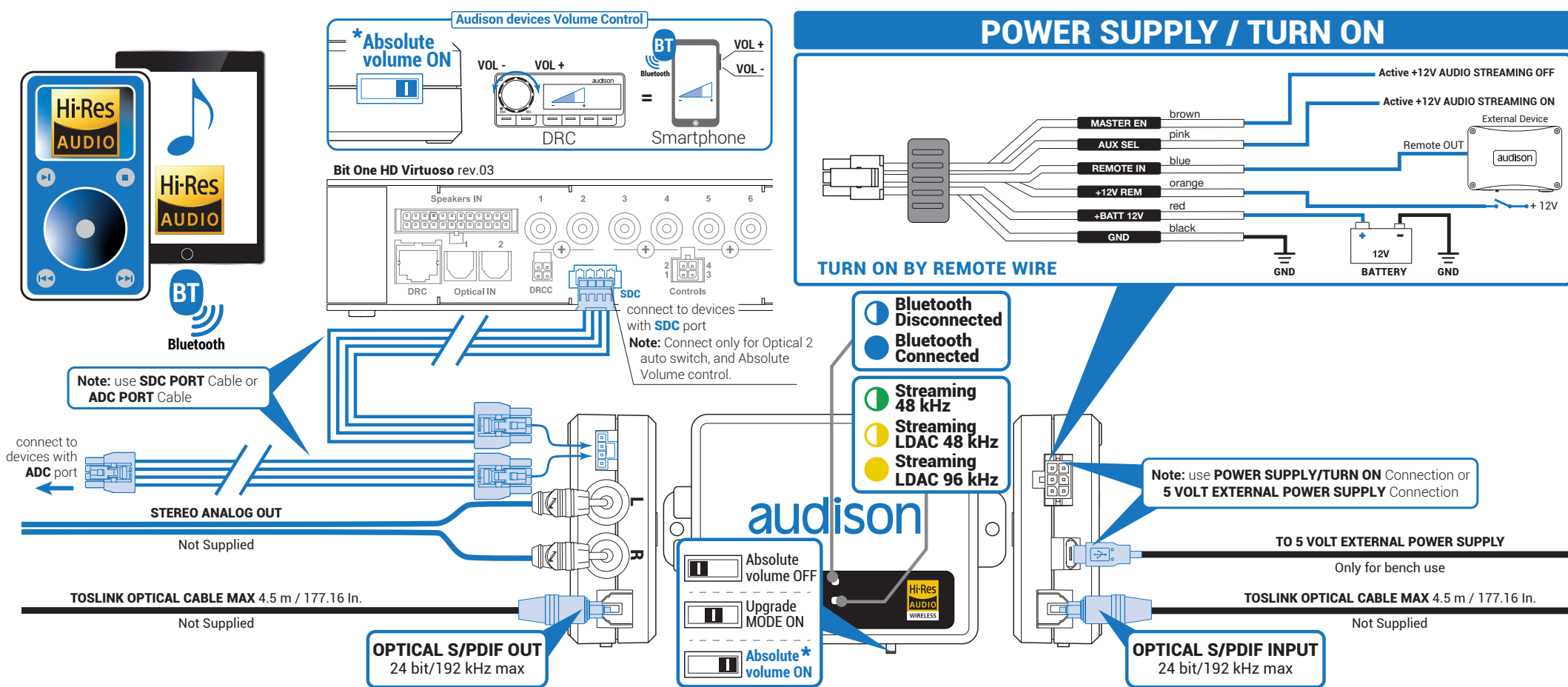
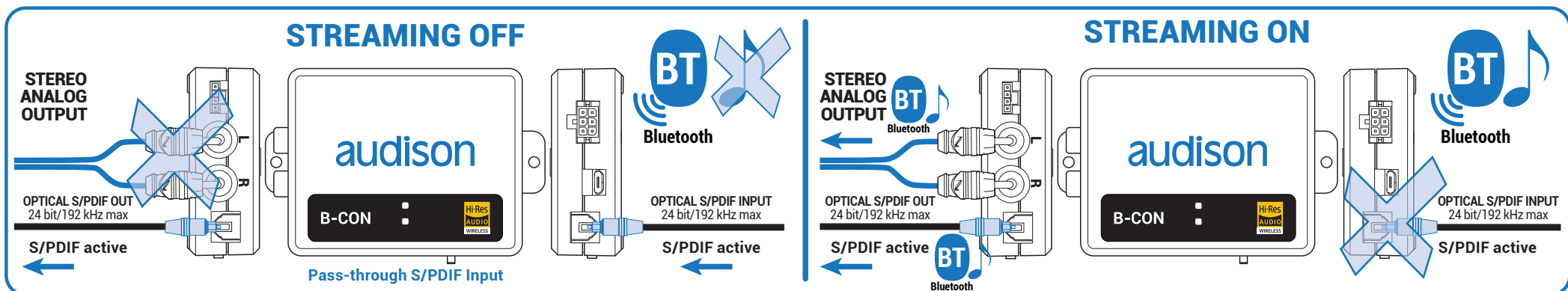
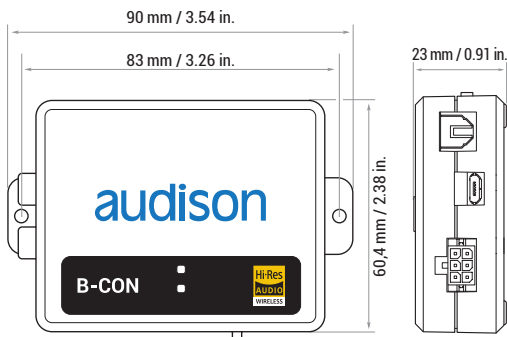




OUTPUTS PRIORITY



POWER SUPPLY	
Voltage:	6 ± 24 VDC
Idling current:	70 mA @ 12 V
Remote IN voltage:	3 ± 12 VDC (0.5 mA)
+ 12 Remote IN voltage:	6 ± 12 VDC (70 mA)
USB Micro:	5 V (500 mA)
BLUETOOTH	
Type:	Bluetooth 5.0 + EDR
Codec:	Ldac, AAC, SBC
Profile:	Bluetooth A2DP 1.3, AVRCP 1.6
INPUTS	
Optical digital:	S/PDIF Optical (Max 24 bit/192 kHz)
INPUT/ OUTPUT MANAGEMENT	
Digital IN delay switch:	1 sec.
Power Connector:	AUX SEL wire, MASTER ENABLE wire
ADC:	Serial RS232, to manage other Audison devices that support this standard
Mode Switch:	Absolute volume ON/OFF, upgrade mode
OUTPUT	
Optical digital:	From Optical input: 24 bit/192 kHz From Streaming Bluetooth: 24 bit/96 kHz max. Bandwidth (MAX) 20 ÷ 48k Hz Output Level 2 VRMS
Analog:	Distortion - THD @1 kHz, 1 VRMS 0.003% S/N RATIO (A weighted) 100 dBA
SIZE	
W x H x D mm / In.	90 x 60,4 x 23 / 3.54 x 2.38 x 0.91
Weight kg / lbs:	0,054 / 0.119



10124807

All specifications subject to change without notice



B-CON

Hi-Res Bluetooth receiver

rev. 1e

audison.com

audison
ISTINTO
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T +39 0733 870 870 - F +39 0733 870 880
www.elettromedia.itaudison
ISTINTO
INNOVATIVO

CARATTERISTICHE

L'Audison B-CON è l'unico ricevitore Bluetooth® 5.0 progettato per l'utilizzo automotive che ha ottenuto la certificazione "Hi-Res audio wireless" dall'ente JAS (Japan Audio Society). B-CON è la scelta ideale per trasmettere lo streaming audio da un player Hi-Res (Fioo, Sony Walkman...) e da dispositivi mobili Android/Apple di ultima generazione.

B-CON è compatibile con tutti i formati audio e raggiunge le massime prestazioni con lo streaming BT non compresso (max 96 kHz/24 bit, solo con dispositivi Android LDAC), sia riproducendo file locali che con le App che forniscono streaming Hi-Res (Tidal, Qobuz...). Come da tradizione Audison, in fase di progetto è stata riservata particolare **attenzione alla gestione del volume**, aspetto fondamentale per la ricerca della **massima qualità audio**. Lo studio del team R&D Audison si è concentrato sull'utilizzo audiophile della **funzione "Absolute Volume"**. Nel B-CON questa gestisce il **Volume Master del DSP***, evitando la perdita di risoluzione che si manifesta quando si agisce sul volume del dispositivo mobile (modalità: Absolute Volume Off), garantendo la piena gamma dinamica.

In caso di chiamata vocale, il DSP commuta in automatico sull'ingresso Master del processore (associando il dispositivo mobile al B-CON e all'auto). Al termine della chiamata ritorna all'esecuzione del brano precedentemente messo in pausa, gestendo il vivavoce dell'auto senza limitazioni.

Audison B-CON ha un ingresso ottico digitale "pass-through" (max 192 kHz/24 bit) che fornisce un secondo ingresso ausiliario al DSP attivo quando non è presente lo streaming BT.

L'uscita digitale (max 96 kHz/24 bit) e quella analogica (max 2 VRMS, S/N RATIO 100 dBA) permettono di collegare il B-CON a qualsiasi dispositivo audio.

*disponibile sulla nuova linea Forza o su bit One HD Virtuoso collegando la porta ADC.

PRODUCT FEATURES

The Audison B-CON is the only Bluetooth® 5.0 receiver designed for automotive use that has obtained the "Hi-Res audio wireless" certification from JAS (Japan Audio Society). B-CON is the ideal choice for streaming audio from a Hi-Res player (Fioo, Sony Walkman ...) and from latest generation Android/Apple mobile devices.

B-CON is compatible with all audio formats and reaches maximum performance with uncompressed BT streaming (max 96 kHz/24 bit, only with Android LDAC devices), both playing local files and with Apps that provide Hi-Res streaming (Tidal, Qobuz. ...). In keeping with Audison tradition, during the design phase particular **attention was paid to volume management**, a fundamental aspect for the search for the **highest audio quality**. The study by the Audison R&D team focused on the audiophile use of the **"Absolute Volume" function**. In the B-CON this manages the **Master Volume of the DSP***, avoiding the loss of resolution that occurs when operating on the volume of the mobile device (mode: Absolute Volume Off), ensuring full dynamic range.

In the case of a voice call, the DSP automatically switches to the processor's Master input (by associating the mobile device with the B-CON and the car). At the end of the call it reverts back to playing the song previously paused, managing the car speakerphone without limitations.

Audison B-CON has a "pass-through" digital optical input (max 192 kHz/24 bit) which provides a second auxiliary input to the active DSP when there is no BT streaming.

The digital output (max 96 kHz/24 bit) and the analog output (max 2 VRMS, S/N RATIO 100 dBA) allow the user to connect the B-CON to any audio device.

*available on the new Forza line or on the bit One HD Virtuoso by connecting the ADC port

Priorità per il pairing Bluetooth:

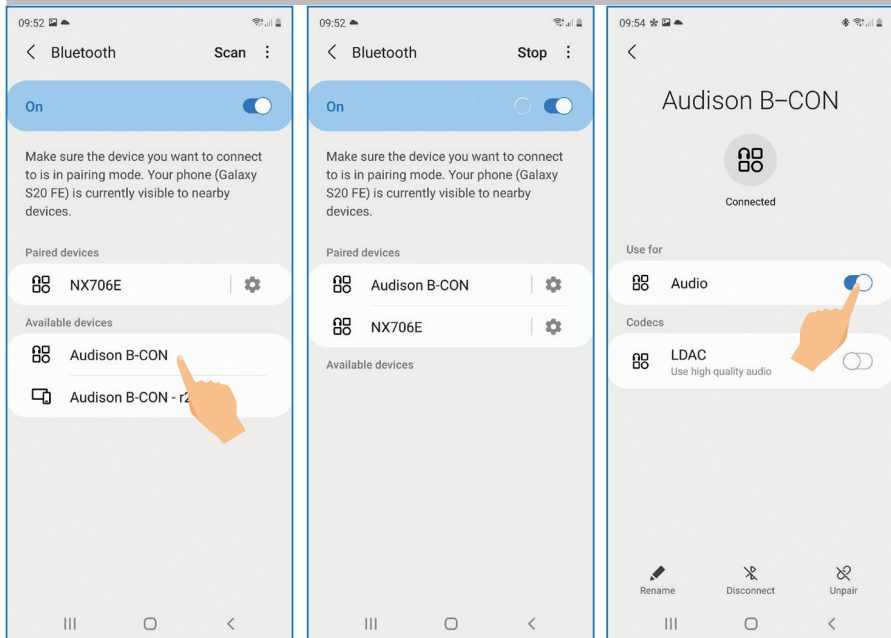
Nel caso di un telefono già accoppiato con il vivavoce Bluetooth del veicolo, occorre effettuarne il disaccoppiamento prima di eseguire la procedura mostrata di seguito. Una volta terminata, è possibile effettuare un nuovo pairing del proprio telefono con il vivavoce Bluetooth ed utilizzarlo per lo streaming audio tramite B-CON.

Priority for Bluetooth pairing

In case of a phone already paired with the vehicle Hands-free Bluetooth, it is needed to unpair it before executing the procedure shown below. Once terminated, it is possible to do a new pairing of the phone with the vehicle Hands-free Bluetooth and to use it for audio streaming through the B-CON.

Android

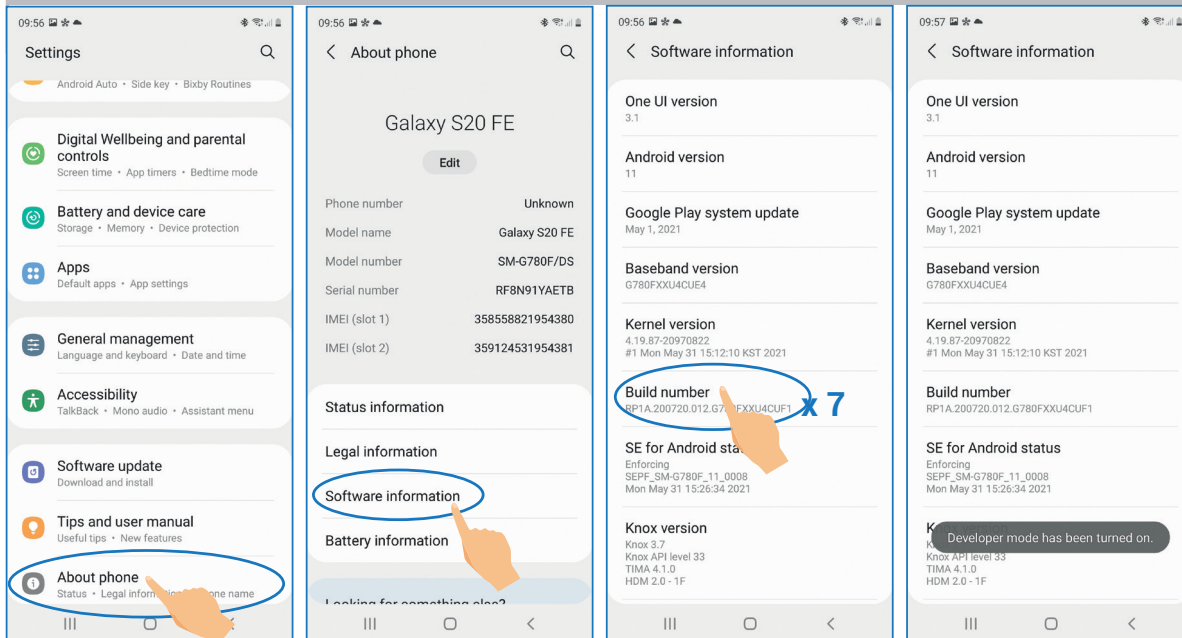
1 Pairing dispositivi **Android** / **Android** devices pairing



Attiva la modalità Bluetooth del tuo telefono, subito inizierà la ricerca di tutti i dispositivi BT. Selezionare **Audison B-CON**. Una volta accoppiato, la scritta verrà evidenziata. **Cliccare sopra la scritta Audison B-CON evidenziata** per entrare nelle impostazioni del dispositivo, attivare la voce **Audio**.

Enable your phone's Bluetooth mode, it will immediately start searching for all BT devices. Select **Audison B-CON**. Once paired, the name will be highlighted. **Click on the Audison B_CON highlighted** name to enter the device settings, enable the **Audio** item.

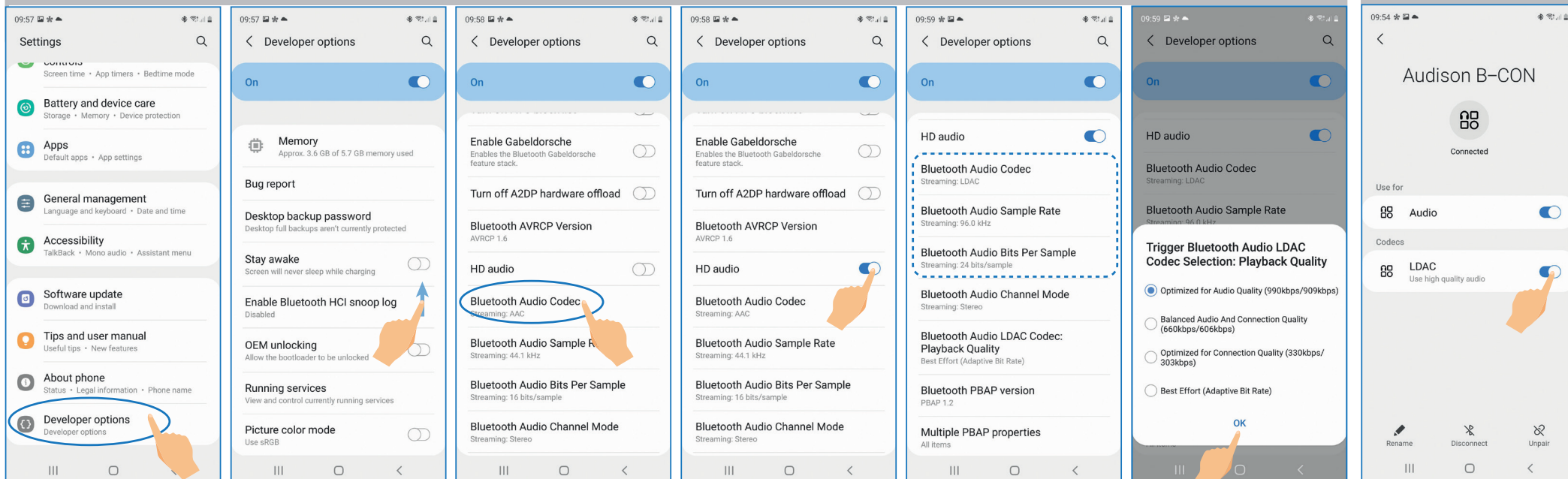
2 Attivazione menu "LDAC" / "LDAC" menu activation



Apri il menu principale e seleziona **"Impostazioni"**. Scorrere e selezionare **"Info sul telefono"**, seleziona **"Informazioni software"**. Scorri verso il basso e clicca sette volte in rapida successione **"Versione build"**. Il menu "opzioni sviluppatore" risulta attivato.

Open the main menu and select **"Settings"**. Scroll and select **"About phone"** and select **"Software information"**. Scroll down and tap **"Build version"** seven times in quick succession. The **"developer options"** menu is activated.

3 Attivazione LDAC e configurazione / LDAC activation and configuration



Entra nel menù "opzioni sviluppatore" e scorri fino al menù **"Codec Audio Bluetooth"**

Enter the "developer options" menu and scroll down to the menu **"Codec Audio Bluetooth"**.

Selezionare Il codec **LDAC**, e successivamente ottimizzare le opzioni audio come riportato.

Il dispositivo Android è pronto per lo streaming Audio Hi-Res.

Select the **LDAC** codec, and then optimize the audio options as shown.

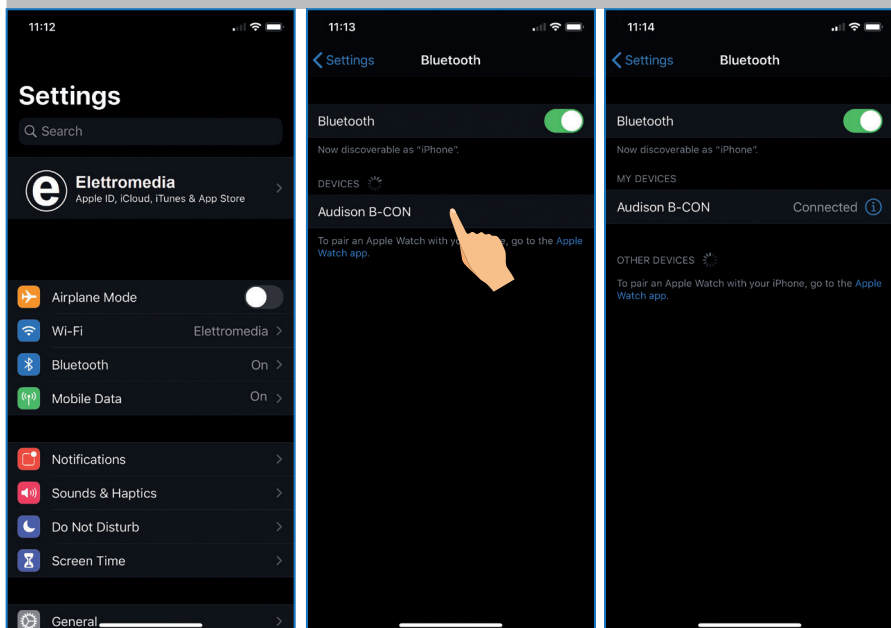
The Android device is ready for Hi-Res Audio streaming.

Dal menu principale dei dispositivi Bluetooth è possibile attivare/disattivare la modalità LDAC.

From the main menu of the Bluetooth devices it is possible to enable/disable the LDAC mode

Apple

Pairing dispositivi iOS / Apple devices pairing



Sequìre le fasi sopra riportate per accoppiare il B-CON con il vostro dispositivo IOS.

Follow the steps above to pair the B-CON with your IOS device

ABSOLUTE VOLUME SETUP

Per passare dalla modalità Absolute Volume On/Off e viceversa, seguire la procedura.

- 1) Rimuovere la connessione Bluetooth dal proprio dispositivo mobile, dissociando il dispositivo B-Con.
- 2) Scollegare il connettore di alimentazione del B-CON.
- 3) Posizionare lo Switch nella posizione Absolute Volume ON o OFF, e ricollegare il connettore di alimentazione.
- 4) Eseguire un nuovo Pairing del B-Con con il proprio dispositivo mobile.

Each mode switch from "Absolute Volume On" to "Absolute Volume Off" and viceversa requires the following procedure:

- 1) Remove the Bluetooth connection from the mobile phone, thus unpairing the B-CON device
- 2) Remove the B-CON supply connection
- 3) Set the switch on "Absolute Volume On" or "Absolute Volume Off" mode Connect the B-CON supply
- 4) Execute a new pairing between B-CON and the mobile phone.

Nota Importante:

Per assicurare la massima dinamica del segnale musicale si raccomanda di disabilitare l'equalizzatore del dispositivo mobile connesso in Bluetooth.

Important Remark:

To ensure maximum dynamics of the music signal, it is recommended to disable the equalizer of the mobile device connected with Bluetooth.

Certificato di garanzia: Per maggiori informazioni visitare il sito Audison
Warranty certificate: For more information visit the Audison website.

 Informazioni per lo smaltimento di apparecchiature elettroniche ed elettriche (per i paesi europei che dispongono di sistemi di raccolta separata). I prodotti consegnati con il simbolo del contenitore per rifiuti su ruote barrato da una X nei paesi europei sono smaltiti automaticamente a norma degli obblighi domestici. Questi prodotti elettrici ed elettronici devono essere riciclati presso una struttura adeguata, in grado di trattare i prodotti stessi e i loro componenti. Per conoscere dove e come recaptare tali prodotti nel centro più vicino, contattare l'apposito ufficio comunale. Il riciclaggio e lo smaltimento corretto contribuisce a tutelare l'ambiente e ad evitare effetti dannosi alla salute.

Information on electrical and electronic equipment waste (for those European countries which organize the separate collection of waste)

Information are marked with a wheeled bin with an X through it, can not be disposed of together with ordinary domestic waste. These electrical and electronic products must be recycled in proper facilities, capable of managing the disposal of these products and components. In order to know where and how to deliver these products to the nearest recycling/disposal site please contact your local municipal office. Recycling and disposing of waste in a proper way contributes to the protection of the environment and to prevent harmful effects on health.

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. (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.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC:
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure
This device has been evaluated and shown compliant with the RF exposure requirements listed in RSS-102 - Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus limits under fixed exposure conditions (antennas are greater than 20cm from a person's body) when installed in certain specific OEM configurations.

Cet appareil a été évalué et montré conforme aux exigences d'exposition RF énumérées dans RSS-102 - Exposition aux fréquences radio (RF) Conformité des limites des appareils de communication radio dans des conditions d'exposition fixes (les antennes sont à plus de 20 cm du corps d'une personne) lorsqu'elles sont installées dans certains configurations OEM spécifiques.

CE:
EU Regulatory Conformance
We, Elettromedia s.p.a., hereby declare that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Technical Specifications:
Operating temperature: 0, -55 °C
Frequency range: 2402-2480MHz
Max. RF Output Power: < 10dBm
Hardware version: R01
Software version: R1.0.0

RF Exposure:
This equipment complies with radiation exposure limits set forth for an uncontrolled environment.

Note: This product can be used in EU countries without any restrictions.

Manufacturer information:
Company name: Elettromedia s.p.a.
Address: 62018 Potenza Picena (MC) Italy
Strada Regina km 3,500
Tel: T +39 0733 870 870
Web: www.elettromedia.it

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