



Bone Conduction Bluetooth Communicator

● DG-N900

User's Guide



★ Please read the "Safety Precautions" fully before use.

★ Errors and inaccurate description in the User's Guide is subject to change by Daegun Co., Ltd. without prior notice.

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General Information

- ★ DG-N900 will be best performed at the condition of open face helmet.
- ★ The performance of DG-N900 is subject to the attached position. It is strongly recommended that user must use the 'helmet round gauge' to find best attaching position. *A side-front position is most recommendable.
- ★ Be sure to attach the helmet mount at room temperature. There is a risk of falling during use if attached in cold conditions
- ★ TTAGO exclusive clip is sold separately.
- ★ When listening to music,
70 to 80 percent of the maximum volume is recommended.
- ★ More details can be found on our company website www.nan-nom.com



Frequently Asked Questions(Q&A)

Q

It's attached to the helmet, and sound becomes much smaller.

A

If the bone conduction oscillator is over-depressed, the sound becomes smaller. Be sure to find the best position with a 'Helmet Round Gauge'. Listen to the sound first, and then attach it to the most audible place.

Q

How do I pair up?

A

Please refer to the explanation of DG-N900 Bluetooth connection on page 8 or see the pairing video on the homepage.



Safety Precautions

★ Note

- Do not disassemble or repair the product.
- Do not leave near to excessive heat or flammable materials.
- There is a risk of explosion if battery is disassembled or replaced at your discretion.
- A charger that does not meet specification may cause product malfunction.
- For safety reasons, do not remove the internal battery.

★ Warning

- Do not drop the product from a high spot.
- Do not allow the product to come into contact with water or other chemicals.
- Do not store in humid or dusty places.
- Do not place heavy objects on the product.
- This product has IPX2 level waterproof capability only, which may cause malfunction if used in heavy rain or water.



Precautions when using the product



Do not use excessive force to remove the device. To remove the unit, press the bottom switch and turn the unit to the left.



If you have been exposed to rain while using the product outdoors, wipe out moisture quickly. (※ Do not use the DG-N900 if it rains heavily.)



Keep the rear of the unit clean to prevent dirt.



Remove the unit from the helmet for safety during charging.
Please note that excessive force applied to the charger or micro phone in the wrong direction may damage the connection terminals of each part.



Composition of the product



Bone Conduction Bluetooth Communicator(DG-N900)



Boom Mic



Helmet Mount



User's Guide /Helmet Round Gauge

★ The product image in the User's Guide may vary from the actual product. ★ Charging cable is not included. ★ You can download the user manual from our website.(www.nan-nom.com)



Product features and names



Bone Conduction
Bluetooth



Helmet Round Guage



Helmet
Mount

Lock &
unlock
knob



Power
button

Charging USB / Boom
mic USB



Screw 1

Reset
switch



Bone conduction
oscillator

Screw 2



Bluetooth connection method

- 1 Press the power switch of the unit for 5 seconds to connect.
- 2 The blue & red status indicator LED will flash and the voice “Pairing” will be heard.
- 3 Select ‘DG-N900’ in the Bluetooth mode on your smartphone.
- 4 Once connected, a voice message such as “ Device is connected “ will be heard.

Auto Reconnect : When you turn on DG-N900, it automatically connects to the last connected device.

Status indicator LED



Status	Operation
Power on	“Power-On” voice & red LED flashes alternately and enters pairing mode
Power off	The voice “ Power-Off “ will be heard and the red LED flickers for a while before it turns off.
Search mode	Red & blue LED blinks alternately and enter pairing mode.
Connection	The blue status indicator LED flashes every 3 seconds.



How to use smart phonefunction



Vd+ Power button Vd+

Function	Status	Description
Get a call	Receiving	Press the power button briefly.
Make a call	Standby	When you dial from your mobile phone, it automatically connects to the DG-N900.
Redial	Standby	Press the power button two short times to call the last dialed number.
Hang up	End call	Press the power button shortly to exit the call
Decline a call	Receiving	Press and hold the power button for 3 seconds.
Adjust Volume in-call	Calling	To adjust the volume during a call, Press  or  briefly.







How to play music



Vd+
/ Nextmusic

Power/ Call
/ Pause

Vd-
/ Prevmusic

Function	Status	Description
Play	Standby	Press the power button briefly to enable the play/pause function. Music will play in the active player on the connected device.
Pause	Playing	A short push of the power button during music playback activates the play/pause function.
Prev/next	Playing	During playback, press  for 3 seconds to play the previous music, and press  for 3 seconds to play the next music.
Volume control	Playing	Press shortly for + Volume  Press shortly for -Volume 



How to dis/assemble Bone Conduction Bluetooth Communicator on helmet

Attached image



Items needed to attach to your helmet



DG-N900



Helmet Round Gauge



Helmet Mount

Attachment order ►



Before attaching Helmet Mount, wipe the surface of the left helmet cleanly.



Use 'Helmet round gauge' to check and position the surface correctly



Attach the 'helmet mount' to the selected position as shown.



Before attaching main unit to 'Helmet Mount', wipe both of contact face clean. After inserting, rotate it to clockwise until it clicks



Picture of normal mount

Detachment order ►



Attached image



Push up the lock button under Disassembled image the 'Helmet Mount' and turn the unit to counterclockwise



How to charge the battery

- 1 To charge the battery, use the USB Micro 5 pin on your smartphone.
- 2 The red LED flashes and turns off for 5 seconds when the battery is discharged.

How to charge ►

1



Open the USB cover.

2



Charge using USB charging Micro-5 pin on smart phone (LED illuminates red while charging)

If the device connected to the TTAGO is outside the effective communication range (10m), the signal becomes weak and isolated. If the device is within the effective communication range, it will automatically reconnect. Otherwise, connect the device manually.






Troubleshooting

Troubles	Solution
If the power does not turn on	Check the battery level and charge it, if required.
No making a call with DG-N900	If your phone does not support a headset or hands free function, call is not supported, and if the battery level is low, charge the battery.
No register DG-N900 on the mobile phone	<ul style="list-style-type: none">① Check DG-N900 power is on and your phone is in bluetooth device searching mode.② Turn off the mobile phone bluetooth mode and DG-N900 together and then turn it on again.
Sound is too small	Adjust DG-N900 Volume with + Volume



Product specification

Description	Specification
Model name	DG-N900
Name of device	Small-output wireless device (for wireless data communication)
Bluetooth Specification	V4.1 A2DP, AVRCP Head Set / Hands Free
Battery Specifications	3.7V / 300mAh x 2EA Li-Polymer Battery
Rated input	DC4.7V~5.3V
Operating temperature	-10℃ ~ 55℃
Frequency	2,402MHz ~ 2,480MHz less than 3mW
Replay time	6~7Hr
Dimensions	84(W) x 44(H) x 30.5(D) / Weight : 80g
Company with a certificate of	Daegun Co., Ltd.
Manufacturer	Daegun Co., Ltd.
Country of manufacture	Made in Korea
Date of manufacture	Marked on product
Certification Number	KC : MSIP-CRM-dgN-DG-N900. FCC NO : 2AN9L-DG-N900.   
A/S	DAEGUN Co., Ltd. Tel +82-32-204-7456 www.nan-nom.com



Safety Information

- ★ This wireless device has potential radio interference during operation, so it does not support the service related to safety of people.
- ★ The usage time may vary depending on the terminal connected to mobile device, functions, settings, signal strength, operating temperature, frequency band, and other functions.

Caution

There is a risk of explosion of battery if it is replaced by an incorrect type.

Make sure to dispose of batteries when it is not serviceable any longer as specified in the instruction.

Radio frequency exposure

Bluetooth™ Wireless Stereo Headset DG-N900 is a wireless transceiver. This device transmits and receives radio frequency (RF) electromagnetic fields (microwave) in the frequency range of 2.402 GHz to 2.480 GHz during operation in order to communicate with mobile devices equipped with Bluetooth™.

Bluetooth™ headset is designed to work with RF exposure guidelines and ranges set by national authorities and the International Health Organization when it is used with compatible mobile phone products.

Precautions for Bluetooth™ Connection

The operating environment that affects the Bluetooth™ communication range and sensitivity is as follows.

- The presence of obstacles such as walls, metal, or human body between the Bluetooth™ device and the connected device
- The operation of a device (such as a wireless LAN device, wireless phone, or microwave oven) that uses a 2.4 GHz frequency in the vicinity.

Battery information

Rechargeable batteries may have a long service life if it is properly maintained. However, if it is not used for a long time, its capacity may decrease rapidly in just a few uses. Do not expose the battery to extreme high temperatures 50°C or above, or low temperatures -10°C. Please use the battery at room temperature to maintain maximum battery capacity. When the battery is used at low temperatures, the battery capacity is reduced. Battery is only charged at temperatures between 10°C and 45°C.

Conditions of Warranty

The warranty is only valid if the original receipt issued by the seller is presented to the original purchaser with the product to be repaired or replaced. We may refuse to provide warranty service if this information is deteriorated or changed after the initial purchase of the product. As specified in the User's guide and maintenance guidelines, the warranty does not cover malfunctions of the device resulting from other than normal and common use, including normal wear and tear. In addition, this warranty does not apply to product malfunctions or damages caused by liquid materials, accidental damages, disassembly or modification, or acts of God. This warranty does not cover damages or malfunction of the product caused by improper disassembly or repair by an unauthorized person by the company. Subject to the terms and conditions of this Limited Warranty, we warrant that the Product is free from defects in design, material and / or technical aspects at the time of initial purchase by the consumer and for one year thereafter. If the purchase date is not clear, warranty ends 15 months after the factory released the product.

Should you require warranty service for the product you have purchased, return it to sellers who you purchased from, or contact the service center below for more information.

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