Accutone®

www.accutone.com

DT Series Anti-Radiation Headset for DECT Telephones

DT808 / DT818

RoHS Compliant
Directive 2002/95/CE

User Manual

Accutone®

DT-series Anti-Radiation Headset for DECT Telephones

Accutone®'s DT-series headset include DT808 (27mm speaker) and DT818 (40mm speaker)

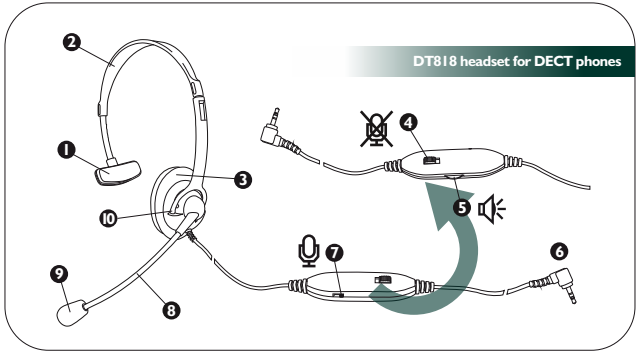
All DECT cordless telephones emit the same type of pulsed microwave radiation (about 1.8 GHz or higher) as ordinary GSM mobile phones. Emission is about 6 V/m within one meter of the base unit. Radiation is continuously generated for as long as it is plugged in. Dr. Lennart Hardell's* paper on mobile phone use and brain tumors shows a dose response increased brain cancer risk for long-term use. A DECT phone is a mobile phone, so for health concerns Accutone® has developed a series of Anti-radiation headset, for both mobile phone and DECT phone.

The DT808/DT818 anti-radiation headset for DECT phone shares the same technology that have been tested by two independent laboratories. Results showing Specific Absorption Rate (SAR) value obtained when used with headset showed a 99.5% reduction compared to phone use without headset. Furthermore, with headset cable wrapped around the phone's antenna - even in the worst case results - the headset reduced the SAR in the head by a 96% compared to the normal use of the phone. All these results are approved by BABT Product Services.

Aside from the anti-radiation design, the DT808/DT818 also includes other significant features, like surge protection in its ASP circuitry, mute button for privacy, volume control, impedance compensator to fit all phones and high-end professional speaker with noise-canceling microphone.

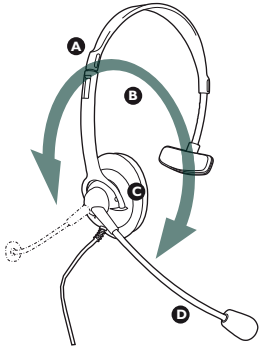
Lennart Hardell*
Dr Lennart Hardell is professor in oncology and cancer epidemiology at the University Hospital in Orebro, Sweden. Most of his research has been on risk factors for cancer such as exposure to pesticides and persistent organic pollutants. Examples of such agents are herbicides, dioxins, PCBs and brominated flame-retardants. During recent years he and his co-workers have studied use of cellular and cordless telephones and the risk for brain tumours. He works also as a consultant at the Department of Oncology at the hospital.

Identifying Key Component to your DT808 / DT818 headset



1. Headrest with foam
2. Extendable headband
3. Speaker chamber (27 or 40mm)
4. Mute switch
5. Speaker volume control
6. 2.5mm plug to DECT phone
7. Microphone gain setting
8. Bendable microphone boom
9. Microphone with windscreen
10. Speaker adjusting arm

1. Headset Wearing Method.



The DT808 / DT818 headset is a highly flexible design that fits most headsizes:

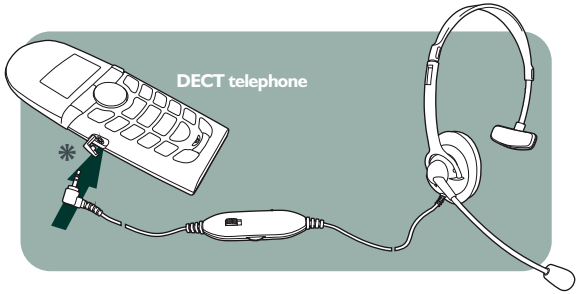
(A) By gently pulling the headband out, you can extend the headset to fit a larger head-size

(B) The microphone boom can rotate up to 270°, suiting both left and right ear wearing

(C) The adjusting arm holds onto the axis of the the speaker chamber for vertical adjustments.

(D) The microphone arm is a bendable design so users can easily adjust the distance between the microphone and user's mouth.

2. Connecting headset to your DECT phone.

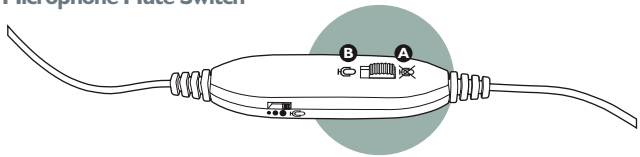


Most of all DECT cordless telephones in the market use the universal 2.5mm headset port. (But not all DECT phones have a headset port, please check the user manual of the DECT phone to see if the feature is available).

Locate the headset port of the DECT telephone (check your manual if needed), insert the 2.5mm plug into the jack to complete connection.

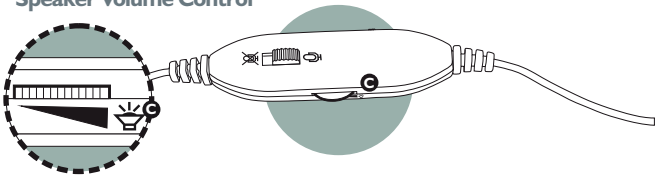
3. Understanding the In-line Controller.

Microphone Mute Switch



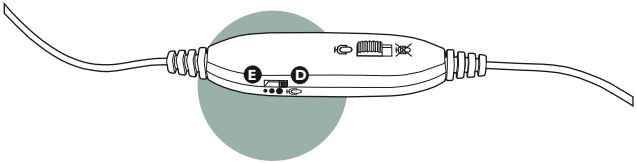
Besides the Anti-radiation circuitry, the Microphone Mute Switch on the in-line controller offers user quick privacy by muting the microphone pick-up. Slide the switch to position (A) for muting and back to position (B) to go back to normal speaking mode.

Speaker Volume Control



The Speaker Volume Control (C) dial on the side of the inline controller allows user to adjust the incoming volume. Increase volume by turning the dial towards the speaker icon, and opposite direction to decrease volume.

Microphone Gain Switch



The Microphone Gain Switch (D) acts as a microphone pairing between the headset and your DECT telephone. It is not designed to be a volume control, hence user is only required to set this once.

Caution: Make sure you <u>switch to the leftmost position</u> (E) before you adjust this setting, because different DECT telephones have very different microphone sensitivity, if the microphone gain is set too high, the headset speaker may SQUEAL, which can cause damage to the user's ear and the headset.

Notice the three positions marked by different sizes of circle, the leftmost and smallest circle indicates lowest microphone gain. Starting from the leftmost setting, make a call and ask the person on the other side which setting has the optimum sensitivity level.

4. Detailed Technical Specifications.

DT SERIES	DT808	DT818
General Characteristics		
Type	Monaural Over-the-Head	
Speaker	ø27mm	ø40mm
Microphone	ø6 x 2.7mm	ø6 x 2.7mm
Cord Length	1.2 meters with volume control	
Plug	2.5mm golden plug	
Speaker Characteristics		
Type	Receiver	Speaker
Rated Impedance	32Ω±20% (@1V, 1kHz)	
Rated Power Input	10mW	10mW
Maximum Power Input	30mW	50mW
Frequency Range	300 ~ 4,000Hz	20 ~ 20kHz
Sensitivity	107dB±3dB	104dB±3dB
Microphone Characteristics		
Type	Electret Condenser Microphone (ECM)	
Impedance	1,000Ω	
Sensitivity	-60dB±4dB/μBar	
Directivity	Noise-cancelling	
Operation Voltage	1.5 ~ 10V (DC)	
Current Consumption	<500mA	
Inline Volume Control Features		
Anti-Radiation Circuitry	Blocks radiation generated by DECT phone	
Muting	ON/OFF selector for microphone muting	
Reception Level	Rotatable potentiometer for speaker volume adjustments	
Transmission Level	3 position levels for microphone gain adjustment	

5. Precautions, Trademark and Ownership.

Please read the following safety instructions before using your DT-series headset

WARNINGS

- Listening with device at high volume may damage your hearing.
- Adjusting the volume for microphone or speaker too high may cause squealing (feedback sound) and can cause damage to your hearing.
- Do not pair the device with any equipments not specified by this user manual. Use only with standard DECT cordless telephones with 2.5mm jack.
- Device must be hooked up according to the method listed out in this manual.
- Place product far away from water, fire, extended exposure of direct sunlight or magnetic field, and places of excessive dust, moist, rain, shock or electromagnetic radiation.
- Do not drop this device or subject it to external shock which may cause malfunction.
- Do not dissemble or attempt to open up the casing under any circumstances, contact your local dealer or retail outlet on repair or replacement.
- Whenever unplugging the 2.5mm plug from the DECT phone, apply force to the plug part only. Jerking the cord instead of the plug may cause damage to the product.
- Do not use liquid cleanser or aerosol cleanser as they may damage the device or finish of the product. Use a dry cloth to clean the external portions of the product.
- Prevent the headset from coming into contact with moisture or liquid, to protect against damage to it or injury to you.

RECYCLING

- The DT series headset is WEEE compliant and must be recycled or disposed properly. Contact your local recycling center for proper disposal.

WARRANTY

- Do not remove or alter any serial number print or sticker on any part of the device, as this will automatically void the product's warranty.

TRADEMARK & OWNERSHIP

- Accutone and the logo design combined are trademarks or registered trademarks of Accutone Technologies Limited.

RoHS Compliant
Directive 2002/95/CE