

## **Introduction**

### **Introduction to Bluetooth Wireless Technology**

Bluetooth is a cable replacement, short- range wireless communication technology. A Bluetooth chip is designed to replace cables by carrying the information normally carried by the cable, and transmitting it at a special frequency to a receiver Bluetooth chip, which will then give the information received to the cellular phones, personal digital assistants (PDA), desktop and notebooks computers, input-output devices (mouse, keyboards, printers), and home appliances. Bluetooth refers to a worldwide standard designed to operate in the internationally recognized ISM (Industrial Scientific and Medical) frequency band. Within the ISM band (2.4 GHz – 2.48 GHz) Bluetooth transmissions hop between 79 separate frequencies 1,600 times every second, and with a communication range of about 10 meters.

### **Second Generation DALLAB Bluetooth Headset**

DALLAB Bluetooth Headset is designed for fashion-oriented, trendy people who are interested in complementing their outfit with a new kind of fashion accessory that also incorporates hands-free communication with your Bluetooth enabled mobile phone! The Bluetooth Headset unit uses an ear-bud style speaker that will rest inside of your ear and completely block outside noise. The speaker and the headset are angled so that the ear-bud will stay in your ear while the microphone points toward your mouth. It works up to 10 meters away, allowing you to leave your phone in another room or stowed in your briefcase. Easy access to volume controls with an answer/end that supports voice activation, makes Dallab a simple, lightweight (less than 13 grams) hands-free solution!

We are confident that you will find using your DALLAB Bluetooth Headset to be a convenient and secure way to make a clear, crisp phone call. Thank you for choosing a Dallab Bluetooth product.

### **Safety and General Information:**

#### **IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION. READ THIS INFORMATION BEFORE USING YOUR HEADSET**

#### **Electromagnetic Interference/Compatibility**

**Note:** Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility.

#### **Aircraft**

When instructed to do so, turn off your phone when on board an aircraft. Any use of a phone must be in accordance with applicable regulations per airline crew.

#### **Medical Devices**

##### **Pacemakers**

The health industry Manufacturers Association recommends that a minimum of 6 inches (15cm) be maintained between a handheld wireless phone and a pacemaker. These recommendations are consistent with the independent research by, and recommendations of, Wireless Technology Research.

Persons with pacemakers should:

- Always keep the phone and the Bluetooth phone module more than six inches from your pacemaker when the phone is turned ON.
- Not carry the phone and the Bluetooth phone module in the breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- Turn OFF the phone immediately if you have any reason to suspect that interference is taking place.

### **Hearing Aids**

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult with your hearing aid manufacturer to discuss alternatives.

### **Other Medical Devices**

If you use any other medical devices, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

### **Power Supply**

- Ensure to connect the power supply to designated power sources as marked on the product.
- To reduce the risk of damage to the electric cord, remove it from the outlet by holding on to the AC adapter rather than the cord.
- Ensure the cord is positioned so that it will not be stepped on, tripped over or otherwise subjected to damage or stress.
- Reduce the risk of electric shock by unplugging the unit from the power source before attempting to clean it.
- The charger must not be used outdoors or in damp areas.

### **Children**

Do not allow children to play with your Headset as it contains small parts that could be detached and hence create a choking hazard.

### **FCC notice to users and product statements**

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.

Users are not permitted to make changes or modify the device in anyway.

**You are cautioned that changes or modifications not expressly approved by Dallab Sdn. Bhd. could void the user's authority to operate the equipment.**

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

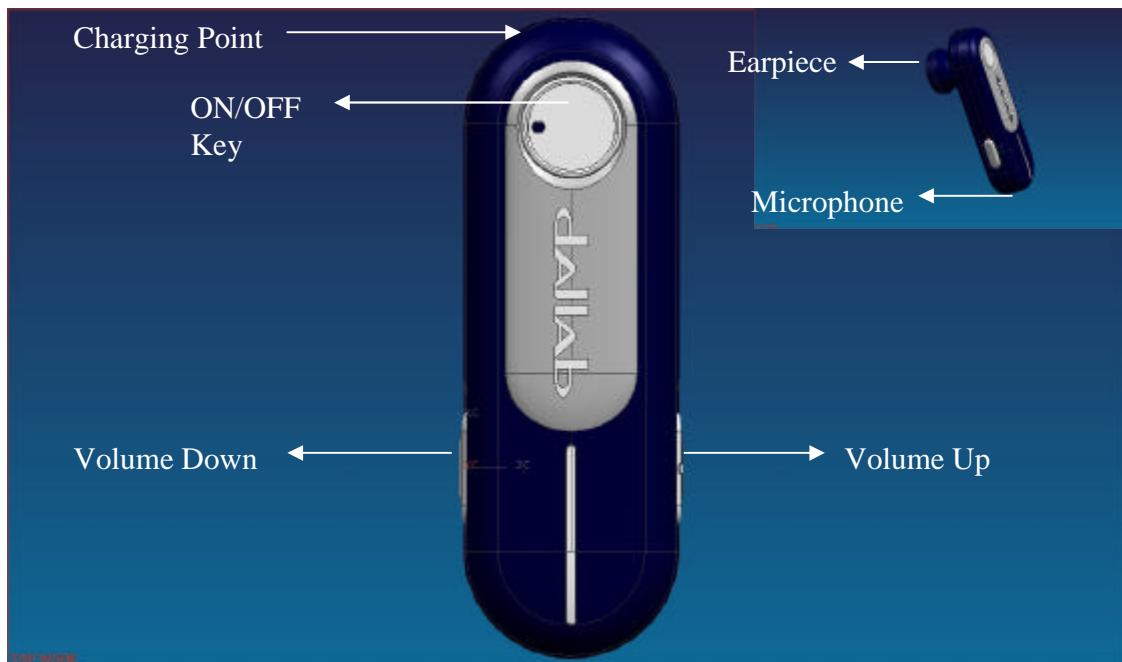
determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 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.

#### **Inclusive in Package:**

- One Dallab Bluetooth Headset(Picture), Charger, User Guide and Quick Start Guide

#### **Second Generation Dallab Bluetooth Headset (Picture)**



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Part	Name	Description
1.	‘Answer/End’ button	Controls various functions of the Headset <ul style="list-style-type: none"><li>• Initiating</li><li>• Answering</li><li>• Transferring</li><li>• Ending calls</li><li>• Used to turn Headset either ON/OFF</li><li>• Pairing the Headset to a Bluetooth phone</li></ul>
2.	Charging Point	Contacts for charging the battery.
3.	Volume Control Button	Adjusts the loudness of the sound we hear.

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4. Headset Indicator lights (LED) (Blue and Red)	Indicator lights shows status of the Headset
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- Active (call in progress)
- Standby(ready for call)
- Off

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5. Microphone	For outgoing audio
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6. Speaker	For incoming audio
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## Preparing to use your Dallab:

### Charging the battery

The DALLAB Headset comes with a built in rechargeable battery. The battery is not fully charged when you buy the headset. For first time use, it takes at least 4 hours to fully charge the battery. Then after, it will take about 1.5-2 hours to fully charge the battery. With the battery, only, fully charged; the talk time will be about 8 hours(TBA), and the stand-by time will be about 90 hours.

A beep is repeated approximately every 10 seconds and will be heard from the Headset while a call is in progress to remind you to recharge the battery.

### Turning the Headset ON/OFF

#### To turn your Headset ON:

Press and hold the  for approximately 3 seconds, the Headset speaker will emit a melody. When the Headset is turned ON the blue LED will be steady ON for approximately 4 to 5 seconds. Afterwards, the blue LED will blink several times. At standby, the blue LED will blink every 10 seconds.

#### To turn your Headset OFF:

Press and hold  for approximately 3 seconds, the speaker will emit a melody, red LED will be steady ON for approximately 1 second. Afterwards, the red LED will blink several times indicating the Headset turning OFF.

### Check phone compatibility

DALLAB is compatible with most Bluetooth phones (version 1.1) with headset or hands-free profile. Ensure that your phone has Bluetooth capability by visiting your phone manufacturer's web site.

### Pairing to a Bluetooth phone

Before using your Headset for the first time, you must pair it with a particular Bluetooth cell phone. "Pairing" process creates a unique wireless link between two devices. Once paired, the communication between two devices does not need any authentication or authorization anymore.

Please follow the instruction below to pair the Headset with a Bluetooth cell phone:

1. Ensure the Headset is ON.
2. Press and hold  and  or  simultaneously for approximately 3 seconds until the Headset blue LED starts to blink.
3. The status indicates that the Headset is in pairing mode and waiting to be paired with another Bluetooth device.

4. Follow the operating instructions for your Bluetooth phone to start a pairing process.
5. Your phone's display will indicate that it found one or more Bluetooth devices, the "dallab 85" should be included in the list, please select it for pairing.
6. The phone's display then prompts you for a pairing passkey or PIN, please enter four eights "8888".
7. When the pairing process is finished successfully, the Headset blue LED will flash every 10 seconds.
8. Your phone's display may ask you whether you want to change the Headset's name; you can replace the "Bluetooth Headset" with any name you may prefer.

*If you have a Bluetooth phone that supports the **handsfree Bluetooth profile**, please refer to **Sophisticated features** section which includes features like Last Number Redial, Call Transfer, Call Waiting etc.*

## **Wearing and positioning the Headset**

Once the Headset and your Bluetooth phone are paired

- The headset can be used in both ears.
- Position the headset properly on your ear and then release the speaker. Make sure that the speaker fits well into your ear. At this stage it should be stable and comfortable.
- Your headset is now ready to be used.

## **Answering/Ending a call**

### **Answering a call.**

After being paired with your cell phone, the Headset is ready to receive incoming calls without using the phone. When there's an incoming call, the Headset's speaker will emit a melody tone and the blue LED will flash, you can answer the incoming call by pressing  then speak normally.

**Note:** *If the phone rings first, wait until the Headset rings, then press the Headset button.*

### **Ending a call.**

You can use either of the ways to end a call:

1. Press the Headset's  to end a call.
2. Press the phone's keypad to end a call.

## **Making a call**

### **There are two ways to make calls:**

#### **1. Using the phone's keypad:**

As general usage, dial the phone number you want to call by pressing the phone's keypad.

#### **2. Using the Voice Dialing through the Headset:**

#### **What is voice dialing?**

Voice dialing is a feature on some Bluetooth phones which allows you to make calls by saying the name of the person you want to call. The phone compares your voice with your previous recording (called a voice tag). If they match then the phone will automatically dial the corresponding phone number. Not all Bluetooth phones support voice dialing, please refer to your phone's spec to make sure whether your phone supports this feature.

The Headset does not have a keyboard so it's necessary to use voice dialing to make calls. Voice commands are especially useful when you are using the Headset. To do this you have to record voice tags for the contacts in your phone address book. If your phone supports voice dialing function, you can use this feature with the Headset easily. Note that the voice dialing on your phone must be enabled and the voice tags must have been recorded previously.

(Please refer to your phone's instruction on recording and storing voice tags)

- Briefly press  once.
- After the tone, say the name of the person you want to call.
- The phone number will be dialed automatically by phone after recognizing the correct voice tag.

### **Rejecting the call**

Short Press  twice to reject an incoming call.

### **Muting a Call**

If you need to 'mute' a call during your conversation, long press  for approximately 3 seconds (be sure not to press down on  as this will end your call). Once your call is muted, you may release . You will be able to hear the party you were speaking with on your earpiece, but they will not be able to hear you. To continue your conversation, simply long press  for approximately 3 seconds, normal talk function will resume, your party will be able to hear you again and you can resume your conversation.

### **Sophisticated Features (for Bluetooth phones with hands-free profile)**

#### **Call Waiting**

When your phone notifies you of another incoming call during conversation, hold  and release only when you hear a short melody indicating that your Headset has now been switched to the second call. The first calling party will automatically be put on hold and vice versa.

To end the second call during conversation, short press  once to return to the first calling party and vice versa.

#### **Last Number Redial**

Short press  or  will trigger the phone to redial the last number. The call is automatically transferred to the Headset.

#### **Reject an incoming call (incoming ring)**

Long Press  to reject an incoming call.

#### **Termination of outgoing call (before being connected to the outside party)**

Short press  to end the call.

#### **Transferring Call from your Phone to the Headset**

If you initiate a call without using the Headset, you can transfer the call to the Headset if the Headset is on, paired with the phone and within range.

To transfer call to the Headset, short press  to transfer the call to the Headset.

#### **Call Transfer from Headset to phone (while a call is in progress)**

Long press  will automatically transfer the call to the phone.

## Tips for Nokia Bluetooth Phones

### Connecting the paired Headset to your phone:

The Headset is disconnected from the phone when, for example the Headset is switched off. To connect the Headset to your phone, switch on the Headset or make the connection in the phone's Bluetooth menu. Short press  to establish a connection between the Headset and your phone.

Note that switching on the Headset creates the connection automatically only if you have set the phone to accept Bluetooth connection requests without your permission. In Nokia phones this can be done by changing your paired devices settings in the Bluetooth menu.

### Understanding Dallab's indicators and audio tones:

Headset Status (Visible)	Headset Indicator Light	
	Blue (LED)	Red (LED)
Power Off	OFF	OFF
Standby (Ready for call)	Flashing	OFF or Flashing (Low Battery)
Incoming Call	Flashing	OFF or Flashing (Low Battery)
Active (Call in progress)	Flashing	OFF or Flashing (Low Battery)
Muting a Call (Call in progress)	Flashing	OFF
Charging Mode (Low Battery)	OFF	Steady ON
Charging Complete	Steady ON	OFF
Pairing Mode	Flashing	OFF
Pairing Successful	Flashing	OFF

Headset Status (Audible)	Headset Indicator Tones
Volume Limit	Two beeps when either lower or upper volume limit reached
Low Battery Indicator	Beeps repeated every 10 seconds
Incoming Call	Ringing melody
Power On	Power ON melody
Power Off	Power OFF melody

## Battery Information

### 1. New batteries

For first time use, plug the adapter into the Headset and charge it at least 4 hours.

### 2. Battery care

- Only qualified Service Centers are authorized to remove or replace the battery.
- The rechargeable battery has a long service life if treated with care.
- The battery can only be charged in a temperature range of 10 C to 45 C.
- Use the battery in room temperature for maximum battery capacity.
- The battery capacity may be reduced if operating in a cold environment. (The Headset battery has to be recharged every two months, when it is not in use for a long period of time)
- Keep the Headset away from lit candles, cigarettes, open flames etc.

### 3. Disposal of Battery

The battery in the Headset contains toxic parts. It should be disposed in the right manner and must never be deposited in municipal waste. The Certified Service Centre removing or replacing the battery will dispose it of according to local country regulations.

**Note: Red LED Blinks during Charging**

Immediately remove the AC power adaptor and take your unit to a qualified service centre.

## Technical Specifications

<i>Headset &amp; Horn</i>	
Frequency Response Distortion (THD %)	300 to 3400 Hz 2% (typical)
<i>Microphone</i>	
Frequency Response	300 to 3400 Hz
S/N Ratio	36 dB @ 1 KHz
Wireless Link Type	Bluetooth Radio Module (Profile v1.1)
Frequency	2.4 GHz - ISM Band (2400-2483.5 MHz)
Useful Range	Up to 10 meters
Compliance	FCC, EN 300 328-2, CE, Bluetooth™ 1.1
Operating Temperature:	0C to +55C
Weight Headset:	13 grams
Average Talk Time	Up to 8 hours (TBA)
Average Standby Time	Up to 90 hours
Battery Type	Lithium Polymer
Charge Time	1.5-2 hours
Battery Charger	100 to 240VAC input, 5 – 8VDC output, 500mA to 1A max (Use only approved Adaptor).

## Troubleshooting

This section lists some problems that you might encounter while using your Headset

### **No sound contact between Headset and phone**

The Headset and the phone you are using with it have to be paired to recognize each other. They also have to be within range of each other. Make sure that there are no solid objects, such as walls or furniture, in between the Headset and the phone.

### **Indicator light on the Headset does not turn on when charging**

Ensure that the AC power adaptor is plugged firmly into the electrical wall socket.  
Ensure the cable coming from the AC power adaptor is firmly plugged all the way into the Headset.

### **Headset does not ‘pair’ with Bluetooth phone**

If your phone indicates that pairing was unsuccessful, then ensure that all other nearby Bluetooth devices (except for the Dallab Headset) are off and reattempt ‘pairing’.

### **Crackling noise**

There is an interfering signal nearby.  
You have exceeded the 10meters wireless range.

### **Charging during a call**

You should not charge the Headset during a call. The call might be disconnected.