Introduction

Introduction to Bluetooth Wireless Technology

Bluetooth is a short- range wireless communication technology. It allows wireless connections between Bluetooth devices such as cellular phones, personal digital assistants (PDA), desktop and notebooks computers, input-output devices (mouse, keyboards, and 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.

DALLAB Bluetooth Headset

Introducing DALLAB Bluetooth Headset, the next generation in mobile accessories, a comfortable and portable Bluetooth headset for hands-free communication with your Bluetooth enabled mobile phone! The Bluetooth Headset works up to 10 meters, 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 28grams) hands-free solution!

We are confident that you will find using your DALLAB Bluetooth Wireless 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 Manufactures 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.

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.
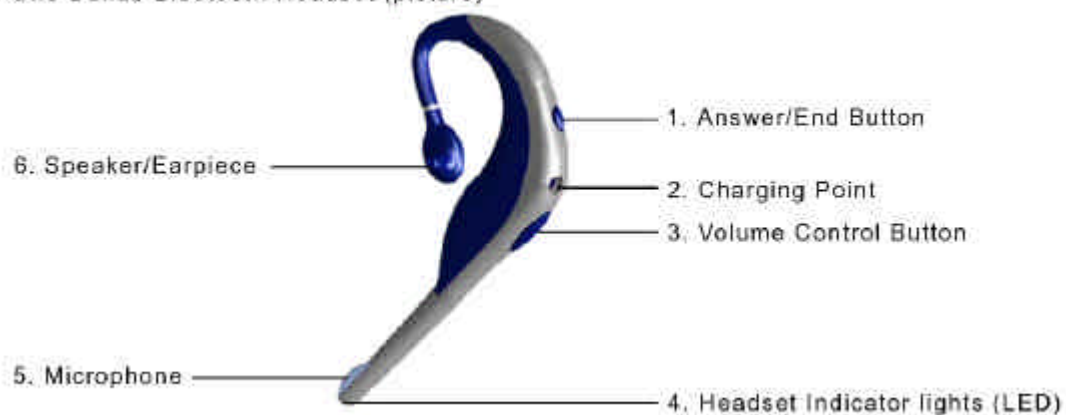
Because this Bluetooth™ headset is very small it is not practicable to place the label including the FCC statement on it. Therefore the required labeling information is placed in this chapter of the user's manual of this Dallab Bluetooth headset. However the FCC identifier is displayed on the packaging of the Bluetooth headset in an appropriate form.

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)

Part	Name	Description
1. 'Answer/End' button		Controls various functions of the headset • Initiating • Answering • Transferring • Ending calls • Used to turn headset either ON/OFF • Pairing the headset to a Bluetooth phone
2. Charging Point		Contacts for charging the battery.
3. Volume Control Button		Adjusts the loudness of the sound we hear.
4. Headset Indicator lights (LED) (Blue and Red)		Indicator lights shows status of the headset • Active (call in progress) • Standby(ready for call) • Off
5. Microphone		For outgoing audio
6. Speaker		For incoming audio

Preparing to use your Dallab:

Charging the battery

The DALLAB Headset comes with a rechargeable battery included. The battery is not fully charged when it is new. For first time use, it takes at least 8 hours to fully charge the battery. Then after, it will take about 4 hours to fully charge the battery. With battery fully charged, the talk time will be 4 to 5 hours, and the stand-by time will be about 72 hours.

Audio tone during call in progress indicates the headset battery requires to be charged.

A beep is repeated approximately every 10 seconds and will be heard from the headset while a call is in progress.

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 previously. "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 80" 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 the headset

- The headset can be used in both ears. Hold the headset with the opposite hand while holding your ear with the other hand. For instance, if you want to place the headset on your left ear, hold the headset with your right hand while holding your ear with your left hand.
- While holding the headset, pull slightly the small speaker away from your ear and place the headset on your ear as shown on the picture.
- Position the headset properly on your ear and then release the speaker. Finally, 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 either or or then speak normally.

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 headset, 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.

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.

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.

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 8 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 has to be recharged every two months, when it is not in use during a long time)

3. **Disposal of Battery**
Remove the battery before disposing the headset.
Check with local authority of your country on disposing the battery.

Technical Specifications

Headset & Horn	
Frequency Response	300 to 3400 Hz
Distortion (THD %)	2% (typical)

Microphone	
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 Part 15, EN 300 328-2, EN 301 489-1, EN60950-1, CE, Bluetooth™ 1.1 (BT listing ID : B01469)
Operating Temperature:	0C to +40C
Weight Headset:	28 grams
Average Talk Time	Up to 4 hours
Average Standby Time	Up to 72 hours
Battery Type	Ni-MH
Charge Time	4 hours
Battery Charger US charger	100 to 240VAC input 5 – 8VDC output, 500mA to 1A max

Troubleshooting

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.

Voice commands not working properly
If you fail using the voice commands you have recorded through your phone, record them through the headset again.

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