Declearance of Conformity

A-*KABEL AS*, Postbox 64, 2151 Årnes, Noway
hereby declears:

That AK6591 and AK6592 are manufactured in accordance with the harmonized standards EN 352-3:2002 and EN352-1:2002 to Directive 89/686/EEC.

The headsets are tested according to EN 352-3:2002 and EN352-1:2002.
EC type examination certificate no. 26045KRS01, issued by Notified Body No. 0403:
Finnish Institute of Occupational Health,
Work Environment Development, Protection and Product Safety
Topeliuksentkatu 41 aA,
00250 Helsinki
Finland

Årnes, 01.07.06

Per Ivar Engen
Managing Director

WARNING:

To re-charge the batteries, use only the original charger enclosed.
DO NOT use non re-chargeable batteries together with the charger!
It is normal that re-charging will take 6- 8 hours.

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HEADSET BLUETOOTH
Users Manual

AK6592

AK6591

USER INFORMATION AK6591 and AK6592

This headset is made in two versions.
Helmet attachment; AK6591, and headband; AK6592.

Helmet attachment (AK6591)

Warning: The helmet attachment is adjustable from medium size to large size, complying with EN 352-1.
Fit the headset to the helmet by pressing the flat blade part of the attachment into the slot attachment brackets on the helmet. You should hear a “click” when the attachments are in the right position. The cup with the microphone should be placed to the left side of the helmet with the microphone facing forward. Put the helmet on top of your head and adjust the cups by sliding them up and down on the stainless steel rods on the helmet attachment to make them fit perfectly over the ears. When not working in noisy areas the cups can be placed in a resting position by pulling them straight out (away) your head. You will then hear a click and the cups will stay in a position about 10-15 mm. apart from the ears. You will also be able to swing the cups backwards and up to a resting position on the helmet body. The cups will fit back in exactly the same position when you press them back against the ears will hear a click. The helmet attachments will fit to following helmets: Peltor G22, OBX Iris and Balance.

Headband (AK6592)

Warning: The headband is adjustable from small size to medium size and large size, complying with EN 352-1.
Adjust the headband by sliding the cups up and down on the stainless steel rods on the headband while you assure that the head band is resting on the top of the head.

General instructions

The headband force is pre-adjusted from the factory to meet the requirements in the EEC Directives for PPE.
Medium size range ear-muffs will fit the majority of wearers. Small size range and large size range ear-muffs are designed to fit wearers for whom medium size range ear-muffs are not suitable.
The ear-muffs shall be worn at all times in noisy environments. Hair, beard and wearing of glasses can affect the acoustic performance of the ear-muffs. The ear-muffs shall be placed directly over the ear. Ensure that the cushions will fit tight to the skin all around the ears.

Maintenance

Keep the headset dry and clean by using a clean cloth. If necessary, moisten a cloth with water and ordinary soap. Alcohol may be used to disinfect the headset. Do not spill liquid on the attenuation foam inserts or the inner parts of the headset. The earmuffs shall be regularly inspected for damages and pollution. The ear cushions (PVC and PUR) and the visible attenuation foam (PUR) can easily be replaced with a hygienic kit, order no. AK6501. The fitting of the hygienic covers to the cushions may affect the acoustic performance of the ear muffs.
Your supplier can give you information about spare parts and further maintenance. These models of ear-muffs have satisfied the optional requirements at -20 to +50 °C. The headset should be stored indoors at normal room temperature protected from dust and moisture. For long time storage please remove the batteries.

Operation of the communication unit

This headset can communicate, in full duplex, with other units working on the Bluetooth protocol (another Bluetooth headset or mobile phones with Bluetooth interface). You need to install two AA batteries (LR6 or HR6) in the battery slot before use. Rechargeable batteries (HR6) in combination with a charger are recommended. Under full duplex communication a pair of batteries will last for about 10 hours depending on the quality of the batteries.
Warning: Do not try to re-charge any other batteries than recommended from the battery supplier. It may explode.

The headset has two buttons. One ON/OFF-Volume switch and one function button (the smallest). A green led will be lit when the headset is turned ON.

The ON/OFF-Volume button works as ON/OFF switch by pressing only the central part of the button in, with your fingertip. The same button also acts as a volume control by turning the knob (clockwise for increasing volume and counter clockwise for lower volume).

Pairing two headsets

Every Bluetooth device is made for working in pairs. To pair two headsets you have to follow this procedure:
Keep the headsets on your head or hold it so you can hear the loudspeakers during the process.

Push in the ON/OFF switch and hold it. You will receive one high tone “beep” to indicate that the headset is ON.
Push in the function button and hold it in at the same time. After a few seconds you will hear two low-tone “beeps”.
Release the ON/OFF switch after the two low tone "beeps".
Release the function button. NOTE: if you release the switches in wrong order you will turn the headset OFF and you have to repeat the process.

Now you have made the first headset as a Radio Gateway. Then you need to pair the other headset to the radio gateway. This is done by carrying out the same procedure as the Radio Gateway headset but you have to release the ON/OFF switch and then the function button after just ONE low tone “beep”. (see no. 2). After 5 seconds you will notice that the headsets have paired up and you can enjoy a full duplex communication between the two headsets. You can now turn the headsets off and on without any new pairing next time you want to use them.

During a full duplex communication you are able to mute the microphone by pushing the function button once. The microphone will be muted until you push the function button once again.

Pairing a headset to a Bluetooth mobile phone

Make a Radio Gateway of one headset using the procedure no. 1-4.

See the user manual for your mobile phone and carry out the procedure for pairing your phone to a Bluetooth headset. Wait until the mobile phone has found the headset. A headset symbol and the text “Free2move” will be showed in the display. You will now be asked for a PIN code from your mobile phone. Enter the PIN code 0000 on your phone and confirm.

You will now have a connection between your headset and the mobile phone. This allows you to answer your mobile phone from the headset. You will hear the ringing tone in the headset and you can answer and even end calls by pushing the function button once. If you have voice control on your mobile phone you can operate this from the headset as well. Push the function button and speak directly to the phones voice control. End calls by pushing the function button again. Be certain that the mobile phone is not moved more than 10 m. from the headset. The Bluetooth modules in mobile phones have normally a very limited range.

The pairing to a mobile phone will last until you pair the headset to another Bluetooth device.

Sound attenuation AK6591

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean att. (dB)	16.3	19.5	28.6	36.4	32.2	39.2	39.2	42.6	41.0
St. dev.	3.1	2.6	4.3	3.2	2.2	3.7	3.3	4.1	4.8
APV (84%	**13.2**	**16.9**	**24.3**	**33.3**	**30.0**	**35.5**	**35.9**	**38.5**	**36.2**

H_{84} = 33 dB, M_{84} = 27 dB, L_{84} = 19 dB, SNR_{84} = 29 dB. Standard weight for AK6591: 346 g.

Sound attenuation AK6592

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean att. (dB)	13.3	19.5	29.3	32.6	31.5	37.6	38.7	41.5	39.3
St. dev.	2.3	3.5	3.2	4.3	3.0	3.7	4.6	3.7	4.7
APV (84%	**11.1**	**16.0**	**26.1**	**28.3**	**28.5**	**33.8**	**34.1**	**37.8**	**34.6**

H_{84} = 31 dB, M_{84} = 26 dB, L_{84} = 18 dB, SNR_{84} = 28 dB. Standard weight for AK6592: 317 g.

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.

Modifications not expressly approved by this company could void the user's authority to operate the equipment.

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 isconnected.
. Consult the dealer or an experienced radio/TV technician for help.