Wir verstehen Hören.

bruckhoff

INSTRUCTIONS FOR USE

BONE CONDUCTION HEARING SYSTEMS

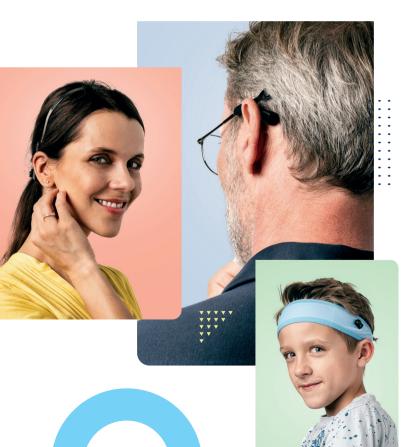


TABLE OF CONTENTS

	INSTRUCTIONS FOR USE	3
1	PURPOSE	3
1.1	Intended use and indication	3
1.2	Contraindications and side-effects	4
2	INFORMATION AND SAFETY INFORMATION	4
2.1	General information	4
2.2	How safety information is organised	4
2.3	General safety information	4
2.4	Key to symbols	6
3	PRODUCT DESCRIPTION	7
3.1	Variants and configurations	7
3.2	Principle of operation	9
3.3	Technical data	10
3.4	Information about materials used	14
3.5	Electromagnetic compatibility information	14
4	OPERATION/USE - LA BELLE BC DELTA	15
4.1	Turning on/off	15
4.2	Setting options	15
4.3	Changing the battery	16
4.4	Fitting and wearing instructions	18
5	OTHER INFORMATION	19
5.1	Storage	19
5.2	Ambient conditions	19
5.3	Care and maintenance	19
5.4	Disposal	20
5.5	Contact	20
5.6	Manufacturer's obligations	20

INSTRUCTIONS FOR USE

These instructions for use apply to the following bone conduction hearing aids:

- Spectacle hearing system la belle BC D50 and la belle BC D70
- Headband hearing system (children's hearing system) la belle junior BC Delta 50
- Headset hearing system la belle BC D50
- For these bone conduction hearing aids, we only offer service: la belle junior BC D70, la belle headset BC D70

Information last revised on: 20. December 2023. We reserve the right to make changes to the design to accommodate future technical developments. All rights reserved. Alteration of the contents of these instructions for use is prohibited without the written permission of AUDIA AKUSTIK GMBH.

1 PURPOSE

1.1 INTENDED USE AND INDICATION

Bone conduction hearing aids are used to compensate conductive and/or combined hearing losses, as well as single-sided deafness (SSD).

Bone conduction hearing aids are suitable for people with ear deformities, especially for those with no outer ear and/or auditory canals due to conditions such as Treacher Collins syndrome or Goldenhar syndrome. Bone conduction hearing aids are also suitable for patients with chronic middle ear disorders that involve ear discharge or other conditions affecting the middle ear (such as otosclerosis or acute otitis media), as well as for those with allergic reactions in the auditory canal or very narrow auditory canals.

Headband hearing systems are indicated for babies over the age of six months, infants and children. The spectacle hearing system and the headset hearing system are suitable for adults.

For hygiene reasons, bone conduction hearing aids must only be used by one patient. Bone conduction hearing aids are designed for repeated use, up to a maximum of 16 hours per day, and have an expected lifetime of six years. Bone conduction hearing aids should only be programmed by professionals with expertise in hearing aids, such as a hearing aid specialist or a qualified audiologist.

Bone conduction hearing aids should only be used by people who understand the contents of the instructions for use and are able to operate the devices safely. For their safety, individuals belonging to the following groups must be supervised by a responsible person:

- Babies over the age of six months, infants and children
- · People with disabilities (e.g. physical, mental or sensory)

If the patient is unable to operate the bone conduction hearing aid her/himself, the device must be operated by the responsible person.

1.2 CONTRAINDICATIONS AND SIDE-EFFECTS

Patients must not use the bone conduction hearing aid:

- if the hearing loss is not covered by the adjustment range of the device;
- if the hearing-impaired person suffers from skin irritation that is attributable to the materials used in the device; or
- if the patient suffers from bilateral deafness.

2 INFORMATION AND SAFETY INFORMATION

2.1 GENERAL INFORMATION

Read these instructions for use in their entirety. Keep the instructions for use for later reference. If the instructions for use are not followed, it is not possible to rule out injury or damage to the device.

2.2 HOW SAFETY INFORMATION IS ORGANISED

Safety-relevant information in these instructions for use is divided into risk levels: **WARNING:**

The signal word WARNING denotes risks that, if ignored, may result in severe injury or severe limitations on use.

CAUTION:

The signal word CAUTION denotes risks that, if ignored, may result in mild to moderate injury or limitations on use.

2.3 GENERAL SAFETY INFORMATION

WARNING:

- Your bone conduction hearing aid must not be worn by anyone else. There is a danger it this could damage their hearing.
- Do not adjust the settings or other components of the bone conduction hearing aid. Unauthorised modifications to the bone conduction hearing aid can damage your hearing.
- Never wear your bone conduction hearing aid in areas with an explosion risk or in oxygen-rich environments.
- For their safety, individuals belonging to the following groups must be supervised by a responsible person:
 - Babies over the age of six months, infants and children
 - People with disabilities (e.g. physical, mental or sensory)

If the patient is unable to operate the bone conduction hearing aid her/himself, the device must be operated by the responsible person. Never leave the persons listed above with the hearing aid without supervision.

- When using children's hearing systems, it must be ensured that children do not pull the headband over their neck. There is a risk of suffocation resulting from strangulation with the headband.
- Never use a cable to attach your bone conduction hearing aid to an external audio device, such as a radio. This may result in physical injury (electric shock).

CAUTION:

- The bone conduction hearing aid will not restore normal hearing, nor will it prevent or correct loss of hearing from organic causes.
- Keep the bone conduction hearing aid out of reach of small children, people with cognitive
 impairment (other than the patient) and pets. Swallowing hearing aid components, especially
 batteries, can endanger life. There is a risk of asphyxiation and/or poisoning. In serious
 cases, seek the assistance of a doctor or hospital straight away.
- If you experience pain on or behind the ear, for example due to pressure points, talk to your hearing aid specialist or doctor immediately.
- If the sound impression you receive from the bone conduction hearing aid changes, please contact your hearing aid specialist immediately.
- Be aware that hearing programs that use the directional microphone mode reduce background noises. Warning sounds or noises from behind will be only very weak.
- Please never submerge the bone conduction hearing aid in water or use it in the shower, in the bath or when swimming. This could damage the electronics of the hearing aid.
- Never use liquids to clean the microphone inputs. They will lose their special acoustic properties if you do.
- · Protect your bone conduction hearing aid from heat.
- Do not dry the bone conduction hearing aid in the microwave.

NOTES:

- Follow the instructions for use for the RogerX from Phonak when using the accessories.
- Use of the bone conduction hearing aid by people with an active implanted medical device (for example, a cardiac pacemaker, defibrillator etc.) requires prior discussion with and evaluation by a medical specialist.
- Always handle the bone conduction hearing aid with care and do not drop the bone conduction hearing aid.
- Certain medical and dental examinations that use X-rays, such as CT scans and MRI/NMRI scans, may adversely affect the functionality of your bone conduction hearing aid. Take your bone conduction hearing aid off before tests of this type.
- You do not need to remove the bone conduction hearing aid before passing through a security checkpoint (at the airport, for example). The low level of X-ray radiation used at checkpoints will not affect the bone conduction hearing aid.
- Do not use your bone conduction hearing aid in places where electronic aids are prohibited.
- If you are not using your hearing aid, leave the battery compartment open to allow any moisture that has entered the battery compartment to escape.
- Ensure that you always dry your hearing aid thoroughly after use.
- Keep the hearing aid in a safe, dry and clean place.
- Remove the battery if you will not be using your hearing aid for a prolonged period.

2.4 KEY TO SYMBOLS

The following symbols are displayed on the device and packaging:

SYMBOL	MEANING	SYMBOL	MEANING
~~	Manufacturer	<i>\</i>	Temperature limit
REF	Article number	<u>%</u>	Humidity limit
ĺÌ	Follow instructions for use	.	Air pressure limit
SN	Serial number		Protection class II device
MD	Medical device as per MDR	*	Type B applied part
M	Date of manufacture	Ţ	Keep dry
Ţ	Fragile, handle with care	RoHs	The product meets the requirements of 2011/65/EU (RoHS).
С Є 0123	The product meets the requirements specified in 93/42/EEC (medical devices) and 2011/65/EU (RoHS).		
	The medical device was placed on the market after 13 August 2005. This product must not be disposed of in the normal domestic waste. The crossed-out refuse bin indicates that this device must be disposed of separately.		

3 PRODUCT DESCRIPTION

3.1 VARIANTS AND CONFIGURATIONS

la belle BC Delta bone conduction hearing aids are available in three versions with the following configurations:

Table 1: 1. Spectacle hearing system version la belle BC D50, la belle BC D70



C€ 0123

CONFIGURATION	BATTERY TYPE	ARTICLE NUMBER (REF)
la belle BC D50 listeners downstairs, left*	312	48016
la belle BC D50 listeners downstairs, right*	312	48017
la belle BC D50 listeners downstairs, left	13	48305
la belle BC D50 listeners downstairs, right	13	48307
la belle BC D50 listeners above, left*	312	48018
la belle BC D50 listeners above, right*	312	48019
la belle BC D50 listeners above, left	13	48304
la belle BC D50 listeners above, right	13	48306
la belle BC D70 listeners downstairs, left \space	312	48020
la belle BC D70 listeners downstairs, right $^{\rm \star}$	312	48021
la belle BC D70 listeners downstairs, left	13	48313
la belle BC D70 listeners downstairs, right	13	48315
la belle BC D70 listeners above, left *	312	48022
la belle BC D70 listeners above, right*	312	48023
la belle BC D70 listeners above, left	13	48312
la belle BC D70 listeners above, right	13	48314

Table 2: 2. Children's hearing system version (headband hearing system) la belle Junior BC Delta 50, la belle BC Delta 70



C€ 0123

CONFIGURATION	BATTERY TYPE	ARTICLE NO. (REF)
la belle junior BC Delta 50, left*	312	48028
la belle junior BC Delta 50, right*	312	48029
la belle junior BC Delta 50, left	13	48302
la belle junior BC Delta 50, right	13	48303
la belle junior BC Delta 50, left stereo*	312	48392
la belle junior BC Delta 50, right stereo*	312	48473
la belle junior BC Delta 50, left stereo*	13	48474
la belle junior BC Delta 50, right stereo*	13	48393
la belle junior BC Delta 70, left*	312	48030
la belle junior BC Delta 70, right*	312	48031
la belle junior BC Delta 70, left*	13	48310
la belle junior BC Delta 70, right*	13	48311
la belle junior BC Delta 70, left stereo*	312	48394
la belle junior BC Delta 70, right stereo [*]	312	48475
la belle junior BC Delta 70, left stereo*	13	48476
la belle junior BC Delta 70, right stereo*	13	48395

Table 3: 3. Headset hearing system version la belle headset BC D50, la belle headset BC D70



CONFIGURATION	BATTERY TYPE	ARTICLE NUMBER (REF)
la belle headset BC D50, left*	312	48034
la belle headset BC D50, right *	312	48035
la belle headset BC D50, left	13	48300
la belle headset BC D50, right	13	48301
la belle headset BC D50, left stereo*	312	48388
la belle headset BC D50, right stereo*	312	48477
la belle headset BC D50, left stereo	13	48478
la belle headset BC D50, right stereo	13	48389
la belle headset BC D70, left *	312	48038
la belle headset BC D70, right*	312	48039
la belle headset BC D70, left*	13	48308
la belle headset BC D70, right*	13	48309
la belle headset BC D70, left stereo*	312	48390
la belle headset BC D70, right stereo*	312	48479
la belle headset BC D70, left stereo*	13	48480
la belle headset BC D70, right stereo*	13	48391

3.2 PRINCIPLE OF OPERATION

Bone conduction hearing aids are an alternative to a normal air conduction hearing aid for people with outer and middle ear problems. They use bone vibration to conduct sound directly to the working cochlea, bypassing the outer and middle ear. This type of hearing aid is beneficial for patients with conductive hearing loss and mixed forms of hearing loss, as well as for patients suffering from single-sided deafness.

3.3 TECHNICAL DATA

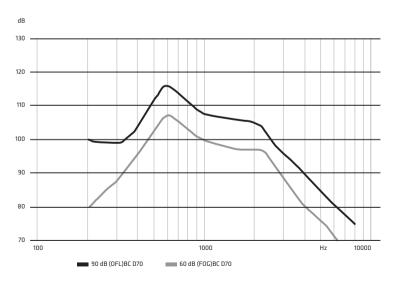
Inclusion in BC DBC DATALA BELLE BC DD0LA BELE BC DD0LA BELE<	TECHNICAL DATA	SPECTACLE HEARING SYSTEM LA BELLE BC		HEADSET HEARING SYSTEM LA BELLE BC	
Feedback canceller4th generation4th generation4th generation4th generationNoise reductionyesyesyesyesWind noise reductionyesyesyesyesMPO*yesyesyesyesChannels16161616Pogrammable frequency bands16161616Programs4444Integrated sound generatoryesyesyesButtonsProgramsProgramsProgramsProgramsProgram selection toneyesyesyesyesNumber of microphones10n10n10n10n10nAdaptive directionalnonnono10n2omidirectionalRecleated fitting software8E-Fit8E-Fit8E-Fit8E-Fit8E-FitNOAH LinkyesyesyesyesyesNoAH LinkYesYesyesyesYesNoAH LinkYesYesYesYesYesNoAH LinkYesYesYesYesYesNoAH LinkYesYesYesYesYesNoAH LinkYesYesYesYesYesNoAH LinkYesYesYesYesYesNoAH free uevel (OFL @90 dB)*116 dB116 dB116 dB116 dB116 dBAdio inputYesYesYesYesYesMax output force level (OFL @90 dB					
Noise reductionyesyesyesyesyesWind noise reductionyesyesyesyesMPO*yesyesyesyesVolume controlyesyesyesyesChannels16161616Programmable frequency bands16161616Programs4444Integrated sound generatoryesyesyesButtonsYogsyesyesyesPrograms selection toneyesyesyesMumber of microphonesnn/an/an/an/aAdaptive directionalnonyesyesyesPhonak Roger X compatibleNoScriettertonalgenerationalgenerationalRodelicated fitting softwaregenerational10mid/rectionalgenerationalgenerationalRodelicated fitting softwareScrietteronalgenerationalgenerationalgenerationalRodelicated fitting softwareYesYesyesyesAdational LinkYesYesyesyesyesNOAH LinkYesYesYesyesyesAdaio naputTwo-levelTwo-levelTwo-levelTwo-levelMuch or programs16dB16dB16dB16dB16dBAdative directional force level (OFL @90 dB)*16dB16dB16dB16dBAdatio naput20-S000Hz20-S000Hz20-S000Hz20-S000Hz20-S00	WDRC ³	16 channels	16 channels	16 channels	16 channels
Wind noise reductionyesyesyesyesMPO'yesyesyesyesVolume controlYesYesYesYesChannels16161616Programmable frequency bands16161616Programs4444Integrated sound generatorYesYesYesButtonsProgramsProgramsProgramsProgramsProgram selection toneYesYesYesManual program selectionN/aN/aN/aBattery warning toneYesYesYesNumber of microphonesIomidirectional or directionalIomidirectional or directionalIomidirectional or directionalBe-dedicated fitting softwareBC-FitBC-FitBC-FitBC-FitNuAH from version 4.3YesYesYesNGAH LinkYesYesYesMax. acousto-mechanical force level GOB*16 dB16 dB16 dBMax. acousto-mechanical force level GOB*200-5000H200-5000H200-5000HToput-related inherent noise*201-5000H201-5000H202-5000H202-5000HCorrent* (mA)12 mA12 mA12 mA12 mA	Feedback canceller	4th generation	4th generation	4th generation	4th generation
APD*() L()	Noise reduction	yes	yes	yes	yes
Number of incompositionProgramsProgramsPrograms16161616Programs444Integrated sound generatorYesYesYesButtonsProgramsProgramsProgramsProgramsProgram selection toneYesYesYesBattery warning toneYesYesYesPrecipii selectionYesYesYesButtonsYesYesYesProgram selection toneYesYesYesProgram selection toneYesYesYesProgram selectionN/aN/aN/aBattery warning toneYesYesYesNumber of microphones10mindirectional or directional10mindirectional or directional or directionalYesNumber of microphonesBC-FitBC-FitBC-FitBC-FitNOAH from version 4.3YesYesYesNOAH from version 4.3YesYesYesMax. acustor-mechanical force level (ØFL @90 dB)*116 dB116 dB116 dBMax. acustor-mechanical force level @60 dB29 dB29 dB29 dBPrograms*20 C SOORHz20 C SOORHz20 C SOORHZInput-related inherent noise*21 Cm A12 mA12 mADerating current* (mA)12 mA12 mA12 mA12 mA	Wind noise reduction	yes	yes	yes	yes
ChannelsJ.C.J.C.J.C.J.C.J.C.J.C.J.C.Channels161616161616Programsable frequency bands1616161616Programs44444Integrated sound generatorYesYesYesYesButtonsProgramsProgramsProgramsProgramsProgramsProgram selection toneYesYesYesYesBattery warning toneYesYesYesYesTelecoilYesYesYesYesAdaptive directionalnonYesYesYesPhonak Roger X compatibleNoYesYesYesNumber of microphonesYesYesYesYesAdaptive directionalnoNoNoNoBC-dedicated fitting softwareBC-FitBC-FitBC-FitBC-FitNOAH from version 4.3YesYesYesYesAudio inputYwo-levelTwo-levelTwo-levelTwo-levelMax. acousto-mechanical force level @GDE*116 dB116 dB116 dB116 dBRequency range*200 - Stoon Hz200 - Stoon Hz200 - Stoon Hz200 - Stoon HzInput-related inherent noise*29 dB29 dB29 dB29 dB29 dBDeparting current* (mA)12 mA12 mA12 mA12 mA12 mA	MP04	yes	yes	yes	yes
Initial Programmable frequency bands16161616Programs16161616Programs4444Integrated sound generatorYesYesYesButtonsProgramsProgramsProgramsProgramsProgram selection toneYesYesYesManual program selectionn/an/an/an/aBattery warning toneYesYesYesYesTelecoilYesYesYesYesAdaptive directionalnoYesYesYesPhonak Roger X compatiblenoYesYesYesNumber of microphonesStoreYesYesYesAdaptive directionalnoNonoNoBC-dedicated fitting softwareBC-FitBC-FitBC-FitBC-FitNOAH from version 4.3YesYesYesYesAudio inputTwo-levelTwo-levelTwo-levelTwo-levelMax. acousto-mechanical force level (GFL @90 dB)*116 dB116 dB116 dB116 dBFrequency range*200 - 5000 Hz200 - 5000 Hz200 - 5000 Hz200 - 5000 Hz200 - 5000 HzInput-related inherent noise*29 dB29 dB29 dB29 dB29 dB29 dBOperating current* (mA)12 mA12 mA12 mA12 mA12 mA12 mA	Volume control	yes	yes	yes	yes
Programs444Integrated sound generatoryesyesyesyesButtonsProgramsProgramsProgramsProgramsProgramsProgram selection toneyesyesyesyesManual program selectionn/an/an/an/aBattery warning toneyesyesyesyesTelecoilyesyesyesyesAdaptive directionalnonyesyesyesPhonak Roger X compatiblenonononoBC-dedicated fitting softwareYesyesyesyesNumber for level (OFL @90 dB)*116 dB116 dB116 dB116 dB116 dBMax. acusto-mechanical force level (GEL @90 dB)*20 s c yos20 s c yos116 dB116	Channels	16	16	16	16
Integrated sound generatoryesyesyesyesButtonsProgramsP	Programmable frequency bands	16	16	16	16
ButtonsPrograms	Programs	4	4	4	4
Program selection toneyesyesyesyesManual program selectionn/an/an/an/aBattery warning toneyesyesyesyesTelecoilyesyesyesyesNumber of microphones1omnidirectional ordirectional1omnidirectional ordirectional ordirectional1omnidirectional ordirectional2omnidirectional ordirectional ordirectionalAdaptive directionalnoyesnoyesPhonak Roger X compatiblenonononoBC-dedicated fitting softwareBC-FitBC-FitBC-FitBC-FitNOAH LinkyesyesyesyesAdatio inputTwo-levelTwo-levelTwo-levelTwo-levelMax. output force level (OFL @90 dB)*116 dB116 dB116 dB116 dB116 dBFrequency ranges200 - 5000 Hz200 - 5000 Hz200 - 5000 Hz200 - 5000 Hz200 - 5000 HzInput-related inherent noises29 dB29 dB29 dB29 dB29 dB29 dBOperating current* (mA)12 mA12 mA12 mA12 mA12 mA12 mA	Integrated sound generator	yes	yes	yes	yes
Manual program selectionn/an/aBattery warning toneyesyesyesPlecoilyesyesyesyesNumber of microphones1 omnidirectional or directional2 omnidirectional or directional1 omnidirectional or directional2 omnidirectional or directionalAdaptive directionalnoyesnoyesPhonak Roger X compatiblenonononoBC-dedicated fitting softwareBC-FitBC-FitBC-FitBC-FitNOAH Irom version 4.3yesyesyesyesAtabio inputTwo-levelTwo-levelTwo-levelTwo-levelMax. output force level (OFL @9 0 BB)*116 dB116 dB116 dB116 dBFrequency range*200 - 5000 Hz200 - 5000 Hz200 - 5000 Hz200 - 5000 HzIput-related inherent noise*29 dB29 dB29 dB29 dBDerating current* (mA)12 mA12 mA12 mA12 mA	Buttons	Programs	Programs	Programs	Programs
Battery warning toneyesyesyesyesBattery warning toneyesyesyesyesTelecoilyesyesyesyesNumber of microphones10mindirectional or directional20mindirectional or directional20mindirectional or directionalAdaptive directionalnoyesnoyesPhonak Roger X compatiblenonononoBC-dedicated fitting softwareBC-FitBC-FitBC-FitBC-FitNOAH from version 4.3yesyesyesyesAudio inputTwo-levelTwo-levelTwo-levelTwo-levelMax. output force level (OFL @90 dB)*116 dB116 dB116 dB116 dBFrequency range*200 - 5000 Hz200 - 5000 Hz200 - 5000 Hz200 - 5000 HzIput-related inherent noise*29 dB29 dB29 dB29 dBDerating current* (mA)12 mA12 mA12 mA12 mA12 mA	Program selection tone	yes	yes	yes	yes
Telecoil yes yes yes yes yes Number of microphones 1 omnidirectional ordirectional ordirectional ordirectional 1 omnidirectional ordirectional 1 omnidirectional 1 omnidirectional ordirectional Adaptive directional no yes no yes Phonak Roger X compatible no no no no BC-dedicated fitting software BC-Fit BC-Fit BC-Fit BC-Fit NOAH Inform version 4.3 yes yes yes yes Aduio input Two-level Two-level Two-level Two-level Max. acousto-mechanical force level GOB ¹⁵ 116 dB 116 dB 116 dB 116 dB Frequency range ^s 200 - 5000 Hz 200 - 5000 Hz 200 - 5000 Hz 200 - 5000 Hz Input-related inherent noise ^s 21 2 mA 12 mA 12 mA 12 mA 12 mA	Manual program selection	n/a	n/a	n/a	n/a
Number of microphones1 omnidirectional 1 omnidirectional2 omnidirectional or directional1 omnidirectional or directionalAdaptive directionalnoyesnoyesPhonak Roger X compatiblenonononoBC-dedicated fitting softwareBC-FitBC-FitBC-FitBC-FitNOAH from version 4.3yesyesyesyesAduio inputTwo-levelTwo-levelTwo-levelTwo-levelMax. acusto-mechanical force level @GD BB'116 dB116 dB116 dB116 dBFrequency range*200 - 5000 Hz200 - 5000 Hz200 - 5000 Hz200 - 5000 HzDerating current* (mA)12 mA12 mA12 mA12 mA12 mA	Battery warning tone	yes	yes	yes	yes
Number of microphones10minidirectional or directional10minidirectional or directional0 or directionalAdaptive directionalnoyesnoyesPhonak Roger X compatiblenonononoBC-dedicated fitting softwareBC-FitBC-FitBC-FitBC-FitNOAH from version 4.3YesyesyesyesAudio inputTwo-levelTwo-levelTwo-levelTwo-levelMax. acusto-mechanical force level @GDL @90 dB ¹ 116 dB116 dB116 dB116 dBFrequency range ^s 200 - 5000 Hz200 - 5000 Hz200 - 5000 Hz200 - 5000 HzDperating current ^e (mA)12 mA12 mA12 mA12 mA12 mA	Telecoil	yes	yes	yes	yes
Phonak Roger X compatible no no no no BC-dedicated fitting software BC-Fit BC-Fit <th>Number of microphones</th> <th>1 omnidirectional</th> <th></th> <th>1 omnidirectional</th> <th></th>	Number of microphones	1 omnidirectional		1 omnidirectional	
BC-dedicated fitting software BC-Fit BC-Fit </th <th>Adaptive directional</th> <th>no</th> <th>yes</th> <th>no</th> <th>yes</th>	Adaptive directional	no	yes	no	yes
NOAH from version 4.3yesyesyesyesNOAH LinkYesYesYesYesAudio inputTwo-levelTwo-levelTwo-levelTwo-levelMax. output force level (OFL @90 dB)*116 dB116 dB116 dB116 dBMax. acousto-mechanical force level @60 dB*48 dB48 dB48 dB48 dBFrequency range*200 - 5000 Hz200 - 5000 Hz200 - 5000 Hz200 - 5000 HzInput -related inherent noise*29 dB12 mA12 mA12 mA12 mA	Phonak Roger X compatible	no	no	no	no
NOAH LinkyesyesyesAudio inputTwo-levelTwo-levelTwo-levelMax. output force level (OFL @90 dB)*116 dB116 dB116 dBMax. acousto-mechanical force level @60 dB*48 dB48 dB48 dBFrequency range*200 - 5000 Hz200 - 5000 Hz200 - 5000 HzInput-related inherent noise*29 dB29 dB29 dBDerating current* (mA)1.2 mA1.2 mA1.2 mA1.2 mA	BC-dedicated fitting software	BC-Fit	BC-Fit	BC-Fit	BC-Fit
Audio input Two-level Two-level Two-level Two-level Max. output force level (OFL @90 dB) ⁵ 116 dB 12 dD 200 - 5000 Hz 200 - 5000 H	NOAH from version 4.3	yes	yes	yes	yes
Max. output force level (OFL @90 dB)* 116 dB 116 dB <th1< th=""><th>NOAH Link</th><th>yes</th><th>yes</th><th>yes</th><th>yes</th></th1<>	NOAH Link	yes	yes	yes	yes
Max. acousto-mechanical force level @60 dB ⁵ 48 dB 48 dB 48 dB 48 dB 48 dB Frequency range ⁵ 200 - 5000 Hz 200 Hz <td< th=""><th>Audio input</th><th>Two-level</th><th>Two-level</th><th>Two-level</th><th>Two-level</th></td<>	Audio input	Two-level	Two-level	Two-level	Two-level
Frequency range ^s 200 - 5000 Hz 200 Hz	Max. output force level (OFL @90 dB) ^s	116 dB	116 dB	116 dB	116 dB
Input-related inherent noise ⁵ 29 dB 12 mA 1.2 mA	Max. acousto-mechanical force level @60 dBs	48 dB	48 dB	48 dB	48 dB
Operating current ^s (mA) 1.2 mA 1.2 mA 1.2 mA	Frequency range ^s	200 - 5000 Hz	200 - 5000 Hz	200 - 5000 Hz	200 - 5000 Hz
	Input-related inherent noise ⁵	29 dB	29 dB	29 dB	29 dB
Distortion ⁵ < 3% < 3% < 3%	Operating current ^s (mA)	1.2 mA	1.2 mA	1.2 mA	1.2 mA
	Distortion ⁵	< 3%	< 3%	< 3%	< 3%

 $^3\,$ WDRC = wide dynamic range compression $^{-4}\,$ MPO = maximum power output $^5\,$ according to IEC 60118-9 Measurement of bone conduction hearing aid characteristics

	CHILDREN'S HEARING SYSTEM (HEADBAND HEARING SYSTEM) LA BELLE		
TECHNICAL DATA	LA BELLE BC DSO	LA BELLE BC D70	
WDRC ³	16 channels	16 channels	
Feedback canceller	4th generation	4th generation	
Noise reduction	yes	yes	
Wind noise reduction	yes	yes	
MP0 ⁴	yes	yes	
Volume control	yes	yes	
Channels	16	16	
Programmable frequency bands	16	16	
Programs	4	4	
Integrated sound generator	yes	yes	
Buttons	Programs	Programs	
Program selection tone	yes	yes	
Manual program selection	n/a	n/a	
Battery warning tone	yes	yes	
Telecoil	yes	yes	
Number of microphones	1 omnidirectional	2 omnidirectional or directional	
Adaptive directional	no	yes	
Phonak Roger X compatible	yes	yes	
BC-dedicated fitting software	BC-Fit	BC-Fit	
NOAH from version 4.3	yes	yes	
NOAH Link	yes	yes	
Audio input	Two-level	Two-level	
Max. output force level (OFL @90 dB) ^s	116 dB	116 dB	
Max. acousto-mechanical force level @60 dB ^s	48 dB	48 dB	
Frequency range ^s	200 - 5000 Hz	200 – 5000 Hz	
Input-related inherent noises	29 dB	29 dB	
Operating current ^s (mA)	1.2 mA	1.2 mA	
Distortion ⁵	< 3%	< 3%	

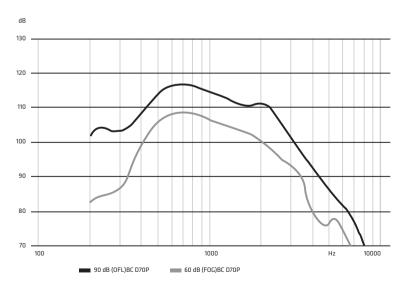
TECHNICAL DATA IN ACCORDANCE WITH	SPECTACLE HEARING SYSTEM LA BELLE BC		HEADSET HEARING SYSTEM LA BELLE BC	
EN 60601-2	LA BELLE	LA BELLE	LA BELLE	LA BELLE
	BC D50	BC D70	BC D50	BC D70
Operating current (mA)	1.2	1.2	1.2	1.2
Electric shock protection type	Protection	Protection	Protection	Protection
	class II	class II	class II	class II
Electric shock protection for the applied part	Type B	Type B	Type B	Type B
Mode of operation	maximum 16	maximum 16	maximum 16	maximum 16
	hours per day	hours per day	hours per day	hours per day

OFL90 OUTPUT FORCE LEVEL, FOG(60) ACOUSTOMECHANICAL FORCE LEVEL



TECHNICAL DATA IN ACCORDANCE WITH	CHILDREN'S HEARING SYSTEM (HEADBAND HEARING SYSTEM) LA BELLE		
EN 60601-2	LA BELLE BC D50	LA BELLE BC D70	
Operating current (mA)	1.2	1.2	
Electric shock protection type	Protection class II	Protection class II	
Electric shock protection for the applied part	Туре В	Туре В	
Mode of operation	maximum 16 hours per day	maximum 16 hours per day	

OFL90 OUTPUT FORCE LEVEL, FOG(60) ACOUSTOMECHANICAL FORCE LEVEL



3.4 INFORMATION ABOUT MATERIALS USED

MATERIAL	LA BELLE BC D50-70	HEADSET BC D50-70	JUNIOR BC D50	JUNIOR BC D70
Stainless steel 1.4404 (316L) X2CrNiMo17-12-2	х	х		х
Zirconium oxide ZrO2	х	х	х	х
Cellidor CAB-13A Black	х	х	х	х

Headbands

Lycra = 77% polyester and 23% elastane Jersey = 95% cotton and 5% elastane

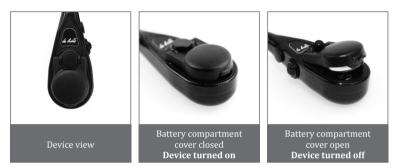
3.5 ELECTROMAGNETIC COMPATIBILITY INFORMATION

Electrical medical devices are subject to special precautions in terms of electromagnetic compatibility (EMC). They must only be installed and operated in accordance with EMC information.

4 OPERATION/USE - LA BELLE BC DELTA

4.1 TURNING ON/OFF

Closing the battery compartment cover turns on the bone conduction hearing aid. To turn off the bone conduction hearing aid, simply open the battery compartment cover.



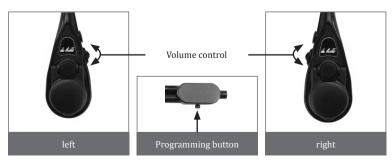
4.2 SETTING OPTIONS Setting options on control element 1

Bone conduction

• la belle BC • la belle junior BC • la belle headset BC

You can change the settings for the following functions yourself:

- Volume setting
- Hearing program selection
- Turning the device on/off



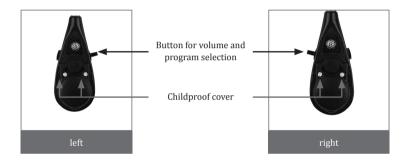
The programming button is located on the programming cell.

Setting options on control element 2

Bone conduction • la belle junior BC

You can change the settings for the following functions yourself:

- Hearing program setting
- Volume setting
- Turning the device on/off



Button function

Volume 1x short forwards: 1x short backwards:	one level louder one level quieter
Program selection 1 x long forwards: 1 x long backwards:	go to next program go to previous program

4.3 CHANGING THE BATTERY

Depending on the version, the following battery types can be used for the la belle BC Delta bone conduction hearing aids:

- Type 312
- Type 13

For details, please consult the Versions and configurations section to find out which battery types to use.

Same for all control elements:

- 1. Open the battery compartment cover.
- 2. Remove the battery with the included magnetic stylus.
- 3. Using the magnetic stylus, insert the new battery with the "+" symbol facing up.
- 4. Close the cover.
- 5. This automatically turns the hearing aid back on.



For the headband hearing system version

For the la belle junior BC Delta 50 and la belle BC Delta 70 headband hearing system, the childproof cover must be released before the battery can be changed.

- 1. Using the screwdriver supplied, remove the two screws.
- 2. Remove the dead battery and insert a new battery.
- 3. Then re-insert and tighten the two screws.



NOTE:

- Always replace weak or defective batteries (for example, leaking batteries) immediately.
- Never use silver-zinc or lithium-ion batteries.
- Do not change the battery while you are using the bone conduction hearing aid.

4.4 FITTING AND WEARING INSTRUCTIONS

Spectacle hearing system la belle BC D50, la belle BC D70

Insert the la belle hearing module (1) onto the temple arm of your glasses. You can use your glasses without the hearing aid by inserting the attachable glasses temple arm end piece (2).



Headband hearing system

la belle junior BC Delta 50, la belle BC Delta 70

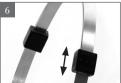
Use the two poppers (4) to attach the junior headband hearing system (3) to the headband.



Headset hearing system la belle BC D50, la belle BC D70

You can adjust your headset hearing system (5) to fit the head easily using the size adjustment (6) on the headset.





5 OTHER INFORMATION

5.1 STORAGE

We recommended that you keep the bone conduction hearing aid in its original packaging until it is used for the first time. Once opened, always keep your bone conduction hearing aid in a safe, dry and clean place.

CAUTION:

Dead batteries may cause damage to the device. Therefore, remove the battery when the device will not be used for a prolonged period of time (for example, overnight).

5.2 AMBIENT CONDITIONS

Operation: Ambient temperature Relative humidity Air pressure	0°C to 40°C 20% to 80% 500 hPa to 1200 hPa
Shipping: Ambient temperature Relative humidity Air pressure	-20°C to 60°C 20% to 80% 500 hPa to 1200 hPa
Storage: Ambient temperature Relative humidity Air pressure	0°C to 45°C 20% to 60% 500 hPa to 1200 hPa

5.3 CARE AND MAINTENANCE

The bone conduction hearing aids are maintenance-free. Regularly inspect the bone conduction hearing aid. If you notice any damage on the device, contact your audiologist immediately.

Clean the hearing system at least once daily with a suitable soft, dry and lint-free cloth. Do not use cleaning agents and/or disinfectants. The device must not be sterilised.

We recommend that you wash the headband before wearing the headband system for the first time. The headband should be hand washed only, and you should always remove the device before washing.

5.4 DISPOSAL

This device falls within the scope of the WEEE directive (Directive 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment). Accordingly, this device must not be disposed of in household waste. Local regulations for disposal should be followed (such as disposal via local authorities or retailers).

Old batteries must also not be disposed of in household waste. Your audiologist will dispose of them for you correctly.

5.5 CONTACT

If you need support with the set-up, use or care of the hearing aid or hearing aid system, or if you experience unexpected operational states or events, please contact AUDIA AKUSTIK GMBH or your audiologist immediately.

AUDIA AKUSTIK GMBH Franz-Mehring-Str. 13 99610 Sömmerda Germany

Tel: +49 (3634) 693 - 0 Email: service@bruckhoff.com www.bruckhoff.com

5.6 MANUFACTURER'S OBLIGATIONS

In accordance with the European Regulation on Medical Devices (2017/745), AUDIA AKUSTIK GMBH is obligated to inform you of the following:

All serious incidents related to the product must be reported to AUDIA AKUSTIK GMBH and the competent authorities of the Member State in which the user and/or patient resides.

NOTE:

Serious incidents are defined as incidents involving the death of a patient, user or other person, or the temporary or permanent serious deterioration in the health of a patient, user or other person. It is immaterial whether such incidents have occurred or might have occurred. You can find an exact definition in Regulation (EU) 2017/745 Article 2 (65).

You can find the contact information for the competent authorities in your Member State online by searching for "Competent Authorities for Medical Devices EU".

			 21
YOUR NOTES			

YOUR NOTES

			23
YOUR NOTES			

Wir verstehen Hören.

bruckhoff

MANUFACTURING AND DISTRIBUTION: AUDIA AKUSTIK GMBH Franz-Mehring-Str. 13 | 99610 Sömmerda | Germany

WWW.BRUCKHOFF.COM