Product Information

VIRON 9|7|5 miniRITE T R

Viron is Bernafon's first True Environment Processing™ hearing instrument. The miniRITE T R is a rechargeable hearing instrument with the efficient Li-ion battery technology to provide a full day of use including streaming activity. It is a receiver-in-the-ear hearing instrument designed for users with mild to profound hearing losses. It includes 2.4 GHz Bluetooth® Low Energy and NFMI technology, a telecoil, and double push button for volume and program changes. The miniRITE T R is available with the miniFit speaker system, which includes four power levels and a variety of domes and custom molds.

60-SPEAKER

VN 9|7|5 MNR T R

85-SPEAKER

VN 9|7|5 MNR T R

100-SPEAKER

VN 9|7|5 MNR T R

105-SPEAKER

VN 9|7|5 MNR T R

Made for iPhone | iPad | iPod

USER SCENARIO		HOURS OF OPERATION TIME
Light user (with 0.5 h iPhone & 2 h TV) [1]	=	24.7 hours of operation time [2]
Moderate user (with 1 h iPhone & 3 h TV) [1]	=	23.9 hours of operation time [2]
Heavy user (with 1.5 h iPhone & 6 h TV) [1]	=	22.1 hours of operation time [2]

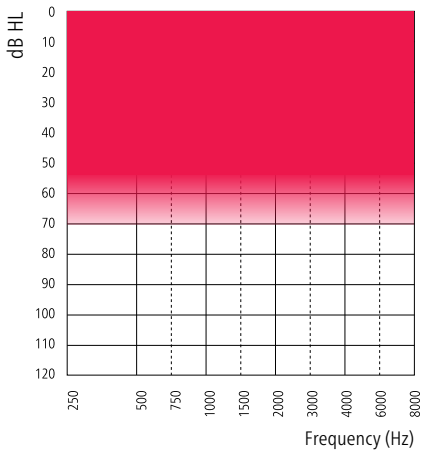
[1] This is in addition to normal hearing instrument use without streaming.
[2] The operating time depends on the fitting level, the use of connectivity features, battery age and sound environment.

Devices must be running iOS 9.3 or later. For information on compatibility, please visit www.bernafon.com/products/accessories.

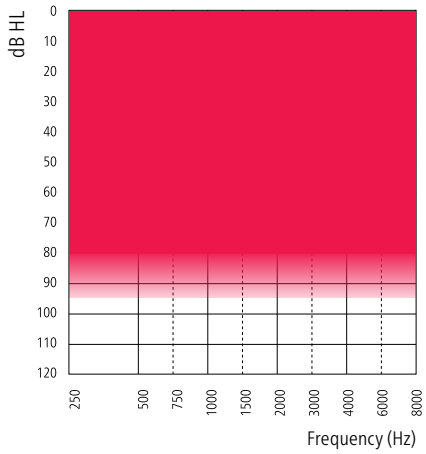
bernafon
Your hearing · Our passion

Viron miniRITE T R – Fitting Range

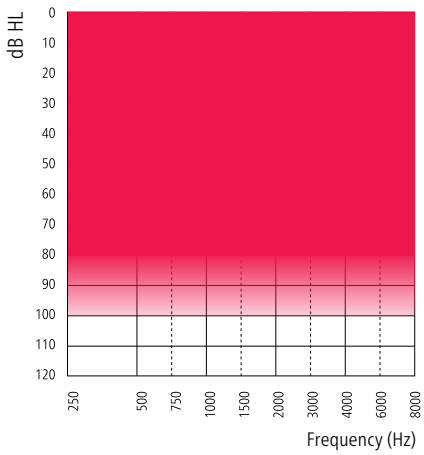
60-SPEAKER



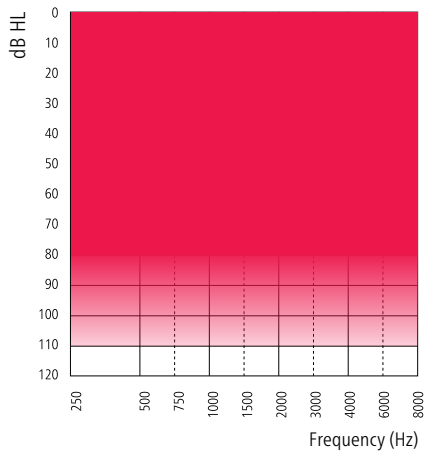
85-SPEAKER



100-SPEAKER



105-SPEAKER



Technical Features

- Double push button
- Telecoil
- miniFit speakers
- Hydrophobic coating
- IP68 rated
- 2.4 GHz Bluetooth® Low Energy
- NFMI (near-field magnetic induction)

Accessories*

- EasyControl-A app (for iOS and Android™)
- RC-A (remote control)
- TV-A (TV adapter)
- FittingLINK 3.0 (wireless programming interface)
- SoundClip-A

* Please refer to www.bernafon.com/products/accessories/ for additional information and support.

	VIRON 9	VIRON 7	VIRON 5
DECS™ (Dynamic Environment Control System™)			
Dynamic Noise Management™			
Dynamic Directionality	High / Medium focus	Medium focus	Medium focus
Dynamic Noise Reduction	4 Settings	4 Settings	3 Settings
Dynamic Amplification Control™			
Speech in Noise	6 Settings	4 Settings	2 Settings
Comfort in Noise	4 Settings	2 Settings	–
Dynamic Speech Processing™			
ChannelFree™	●	●	●
Speech Cue Priority™	●	●	●
Dynamic Feedback Canceller™	●	●	●
SPEECH			
Low Frequency Enhancer	●	●	●
Frequency Composition^{nxt}	●	●	●
COMFORT			
Binaural Noise Manager	●	●	–
Transient Noise Reduction	4 options	3 options	3 options
Wind Noise Manager	●	●	●
Dynamic Range Extender	●	–	–
Soft Noise Management	●	●	●
PROCESSING			
Frequency Bandwidth	10 kHz	8 kHz	8 kHz
Fitting Bands	16	14	12
DIRECTIONALITY CONTROLS			
Fixed Dir	●	●	●
Fixed Omni	●	●	●
True Directionality™	●	–	–
INDIVIDUALIZATION			
Program Options/Memories	14/4	13/4	13/4
Binaural Coordination: VC, Program Change, Mute	●	●	●
Automatic Adaptation Manager	●	●	●
Transition Level	4 options	3 options	2 options
Data Logging	●	●	●
Tinnitus SoundSupport	●	●	●

Viron MNR T R can be programmed with Oasis^{nxt} 2019.1 or higher

Operating Conditions of miniRITE T R
- Temperature: +5°C to +40°C
- Humidity: 5 % to 93 %, non-condensing

Storage and Transportation Conditions
Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage

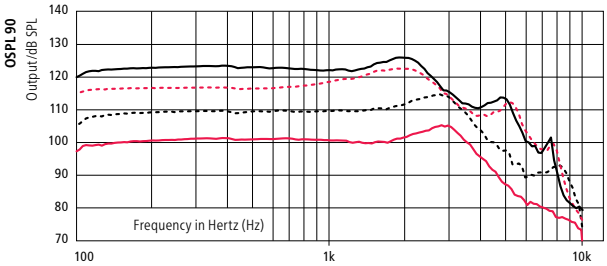
Transport:
- Temperature: –20°C to +60°C
- Relative humidity: 5% to 93%, non-condensing

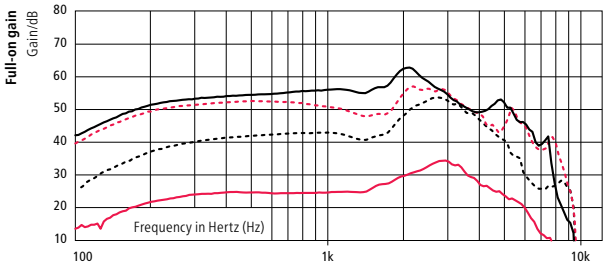
Storage:
- Temperature: –20°C to +30°C
- Relative humidity: 5% to 93%, non-condensing

VIRON 9 miniRITE T R

- 60-Speaker
- 85-Speaker
- 100-Speaker
- 105-Speaker

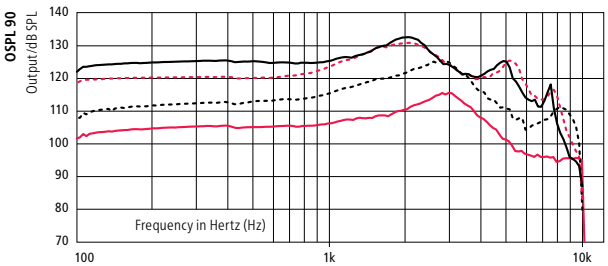
2CC COUPLER

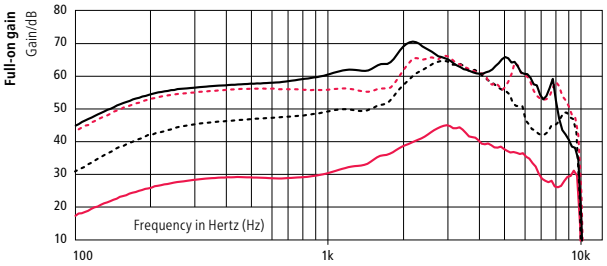




	60-SPEAKER	85-SPEAKER	100-SPEAKER	105-SPEAKER
OSPL90, Peak (dB SPL)	105	115	123	126
OSPL90, 1600 Hz (dB SPL)	100	111	122	124
OSPL90, HFA (dB SPL)	101	112	120	122
Full-on Gain, Peak (dB)	34	54	57	63
Full-on Gain, 1600 Hz (dB)	27	42	48	57
Full-on Gain, HFA (dB)	28	46	52	57
Reference Test Gain (dB)	25	34	43	45
Battery	Li-ion	Li-ion	Li-ion	Li-ion
Distortion 500/800/1600 Hz (%)	<2/<2/<2	<2/<2/<2	<2/<2/<2	<2/<2/<2
Frequency Range (Hz)	100-7900	100-6900	100-8700	100-7700
Equivalent Input Noise[1] dB(A)	19	20	17	16
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	59	73	79	87
Telecoil HFA SPLITS (dB SPL)	75	83	91	95

EAR SIMULATOR





	60-SPEAKER	85-SPEAKER	100-SPEAKER	105-SPEAKER
OSPL90, Peak (dB SPL)	115	126	131	133*
OSPL90, 1600 Hz (dB SPL)	108	120	130	130
OSPL90, HFA (dB SPL)	–	–	–	–
Full-on Gain, Peak (dB)	45	64	66	70
Full-on Gain, 1600 Hz (dB)	36	51	56	63
Full-on Gain, HFA (dB)	–	–	–	–
Reference Test Gain (dB)	29	44	49	55
Battery	Li-ion	Li-ion	Li-ion	Li-ion
Distortion 500/800/1600 Hz (%)	<2/<2/<2	<2/<2/<2	<6/<2/<2	<2/<2/<3
Frequency Range (Hz)	–	–	–	–
Equivalent Input Noise[1] dB(A)	20	24	21	17
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	68	80	86	94

[1] Technical data measured with expansion, corresponding to the test box measurement settings.

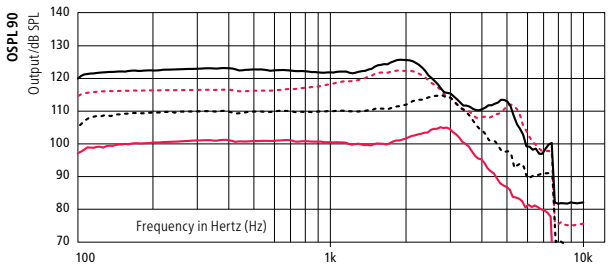
"2cc" refers to a coupler according to IEC 60318-5:2006. "Ear simulator" refers to a coupler according to IEC 60318-4:2010.
Applied versions: IEC 60118-0 /A1:1994, IEC 60118-1 /A1:1998, IEC 60118-7: 2005, ANSI S3.22: 2014, IEC 60118-0:2015.

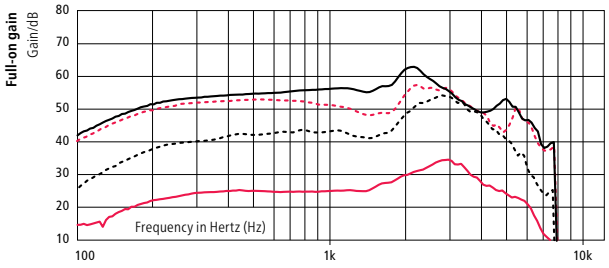
Full-on gain is measured with the gain control of the hearing instruments set to its full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0+A1:1994 but without influence of feedback.

* Special care should be taken when fitting and using a hearing instrument with maximum sound pressure capability in excess of 132 dB SPL (IEC 60318-4) since there may be a risk of impairing the remaining hearing of the hearing instrument user.

60-Speaker
85-Speaker
100-Speaker
105-Speaker

2CC COUPLER





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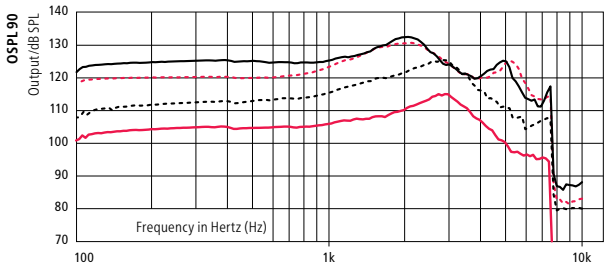
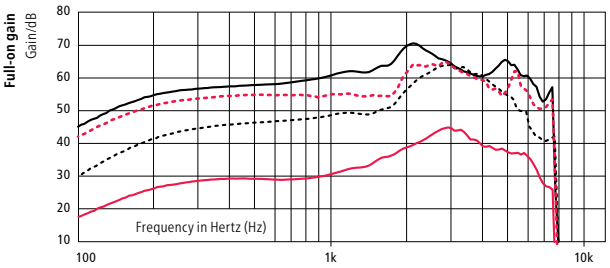
Full-on Gain, HFA (dB)	28	46	52	57
Reference Test Gain (dB)	24	34	43	45
Battery	Li-ion	Li-ion	Li-ion	Li-ion
Distortion 500/800/1600 Hz (%)	<2/<2/<2	<2/<2/<2	<2/<2/<2	<2/<2/<2
Frequency Range (Hz)	100-7700	100-6900	100-7700	100-7700
Equivalent Input Noise[1)] dB(A)	18	19	18	16
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	60	73	79	87
Telecoil HFA SPLITS (dB SPL)	75	83	91	95

EAR SIMULATOR





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Full-on Gain, Peak (dB)	45	64	66	70
Full-on Gain, 1600 Hz (dB)	36	51	55	63
Full-on Gain, HFA (dB)	–	–	–	–
Reference Test Gain (dB)	29	44	48	55
Battery	Li-ion	Li-ion	Li-ion	Li-ion
Distortion 500/800/1600 Hz (%)	<2/<2/<2	<2/<2/<2	<5/<3/<2	<2/<2/<3
Frequency Range (Hz)	–	–	–	–
Equivalent Input Noise[1)], dB(A)	22	24	23	20
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	69	81	86	93

[1)] Technical data measured with expansion, corresponding to the test box measurement settings.

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Charger, miniRITE T R

The charger for Viron miniRITE T R uses inductive technology that allows contactless charging of two hearing instruments via induction coil. Furthermore, the magnetic connection in the charger prevents the hearing instruments from falling out. When the hearing instruments are inserted into the charger, it automatically starts charging. The hearing instruments turn ON when they are removed from the charger.

Charging ports
For hearing instruments when charging

Cable

LED on hearing instrument

LED light
Power ON/OFF indicator

Power supply plug[1]

USB A plug
Insert into power supply plug or other suitable power source

Packaging set

- Travel pouch
- Instructions for Use
- Power supply plug

LED light on hearing instruments

- Charging status indication
- Charging = Red
- Fully charged = Green

Charging time of lithium-ion battery

- 3 h = Fully charged
- 1 h = 50 % charged
- 30 min = 25 % charged
- 15 min = 1 h use including 15 min streaming

[1] Power plug will vary from country to country

Charger, miniRITE T R

Designed for/compatibility	Viron, miniRITE T R
Dimensions	Ø95 mm /total height of 39 mm
Weight	140 grams
Color	Black
Power supply plug	USB A
Status indications	LED on charger indicates Charger ON/OFF status LED on hearing instrument indicates charging status
Charging time of hearing instruments	Max 3 hours depending on initial state of the battery (Temperature: +5 °C to +35 °C) Max 4 hours depending on initial state of the battery (Temperature: +35 °C to +40 °C)
Power source	Supplied power supply unit
Input voltage	5 V DC
Input current	< 0.2 A (charging two hearing instruments) <10mA stand-by (no hearing instruments inserted)
Cable	Fixed mounted cable / 150 cm
Connected to external equipment	When connected to external equipment plugged into a wall outlet, this equipment must comply with IEC-62368 (or IEC-60065, IEC-60950 until June 20, 2019) or equivalent safety standards.

Conditions of use

Operating conditions	Temperature: +5 °C to +40 °C Relative humidity: 5 % to 93 %, non-condensing
Storage and transportation conditions	Temperature: –25 °C to +70 °C Relative humidity: 5 % to 93 %, non-condensing
Atmospheric pressure	700 hPa to 1060 hPa

Technical data: Power supply unit

Power supply unit	AN05x – 050A
Input voltage	100 – 240 V AC
Input current	0.2 A
Input frequency	50 – 60 Hz
Output voltage	5 V DC
Output current	1 A

Manufacturer

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198809/2018-11-30/UK/subject to change

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