

Ponto 3, Ponto 3 Power & Ponto 3 SuperPower Product Information

Ponto 3 – The Definition of Power

Ponto 3 is the most powerful family of abutment-level bone anchored sound processors on the market, offering candidates with bone conduction thresholds up to 65 dB HL the benefits of bone anchored hearing technologies. The Ponto 3 family consists of 3 powerful sound processors and accommodates individual fitting through Genie Medical 2016.1, or later, fitting software.



Powerful sound quality

With Ponto 3 SuperPower, we introduce the world's first single-unit, abutment-level SuperPower processor with a fitting range up to 65 dB HL. The new Ponto 3 family of sound processors is based on the Inium Sense platform. This, together with the unique UltraDrive™ technology in the Ponto 3 SuperPower, delivers a higher output across the entire bandwidth.

BrainHearing for BAHS

BrainHearing™ is about making listening easy and natural for every patient. Oticon Medical's Ponto System uses Direct

Sound Transmission and advanced signal processing to make it as easy as possible to decode sound. The Inium Sense platform includes Free Focus, a directional system with Speech Omni mode that provides increased speech understanding in everyday listening situations.

Several new fitting tools

DSL-BC fitting rationale: Oticon Medical is the first in the industry to provide this rationale. Initially developed for conventional hearing aids, it has now been developed specifically for the needs of bone anchored users.

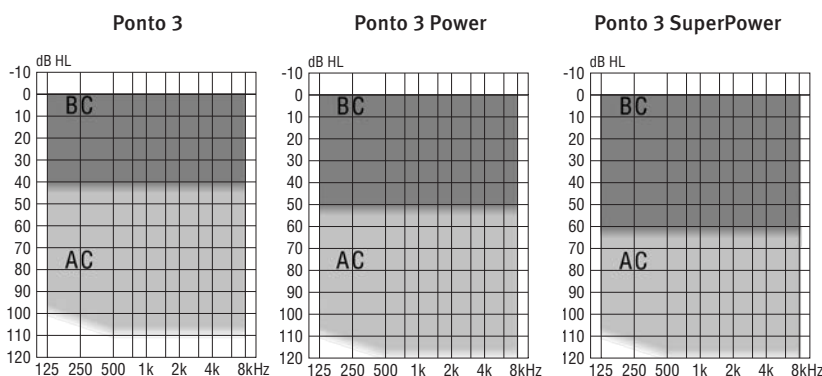
Flogram: A new graph that visualises the patient's auditory dynamic range for Ponto fittings on abutment.

Fitting Assistant with trimmers that allows for quick adjustment of compression and gain, including a Soft Sound Perception trimmer that increases gain for low input level.



FITTING RANGES

Conductive / mixed hearing loss

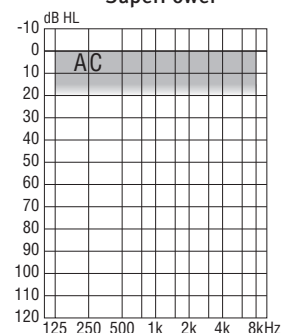


*average of 0.5, 1, 2 and 3 kHz)

FITTING RANGES

Single-sided deafness

Ponto 3, Ponto 3 Power & Ponto 3 SuperPower



*average of 0.5, 1, 2 and 3 kHz)

Product Overview

COLOUR SELECTION



Pure White



White Silver



Chroma Beige



Mocca Brown

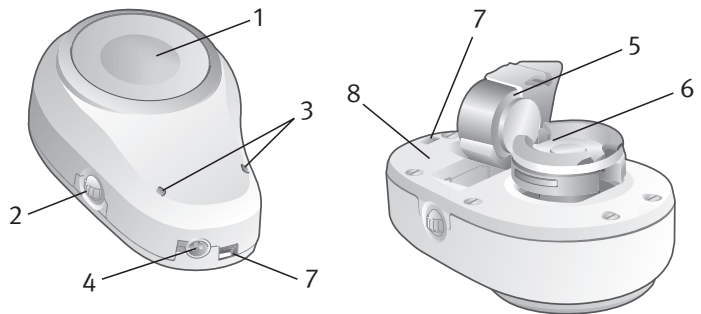


Steel Grey



Diamond Black

1. Push button for program and stand-by/mute
2. Volume control
3. Microphone inlets
4. Programming socket
5. Battery door (on/off, tamper resistant)
6. Coupling
7. Hole for safety line
8. Labelling



Picture shows the Ponto 3. Instrumentation is identical on Ponto 3 Power & Ponto 3 SuperPower.

Sound processing features

- 15 sound processing channels
- Free Focus
- Inium Sense feedback shield
- Wind Noise Reduction
- Speech Guard
- Tri-state Noise Reduction
- Battery management system
- Binaural Processing

Fitting features

- BC In-situ Audiometry
- Feedback Manager
- Data Logging
- Single-sided deafness fitting mode
- Soft band fitting mode
- DSL-BC fitting rationale
- Fitting Assistant
- FLogram
- Verification tool

The physical product and operational aspects

- Up to 4 programs
- Volume control
- Wireless capabilities
- Low battery warning
- Tamper-resistant battery door
- Nano coating

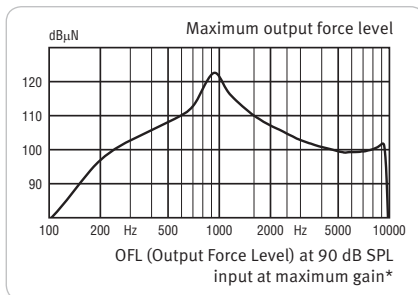
Technical Information

PONTO 3

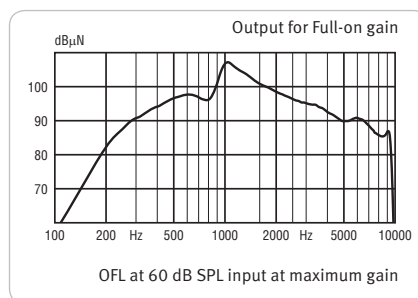
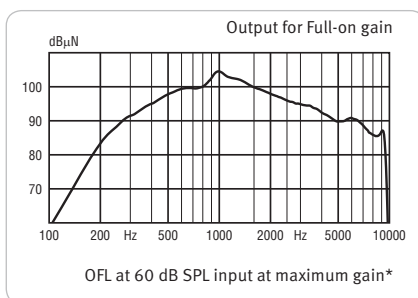
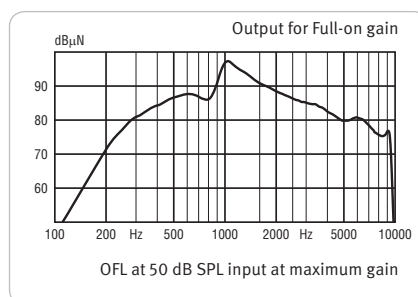
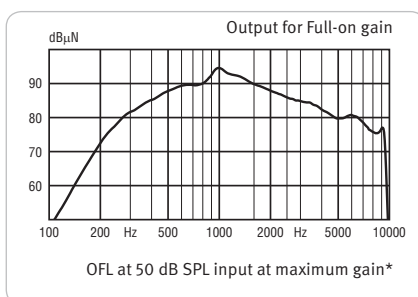
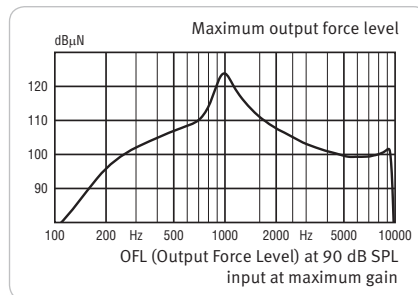


Scale 1:1

ON HEAD



ON SKULL SIMULATOR



*Curve compensation made for resonance on head.

Technical information Ponto 3			
Battery voltage	1.1-1.5 V	Total harmonic distortion (THD60)	<3% above 600 Hz
Current consumption, in silence	1.30 mA	Equivalent input noise	26 dB SPL
Current consumption, typical	1.55 mA	Electrical input equivalent to an acoustic input of 70 dB SPL	N/A*
Average battery lifetime	Typically 70-130 hours	Processing delay	6 ms
Frequency range (DIN45.605)	200 Hz-9.5 kHz	Battery size	13
Peak OFL at 90 dB SPL input (skull sim.)	124 dB rel. 1 µN	Weight	14 g without battery
Peak OFL at 60 dB SPL input (skull sim.)	107 dB rel. 1 µN	Physical dimensions (L*W*H)	34* 21* 11 mm
Peak OFL at 50 dB SPL input (skull sim.)	97 dB rel. 1 µN	IRIL GSM/DECT	41/43 dB SPL

*Electrical audio input is available via wireless audio streaming from the Oticon Medical Streamer.

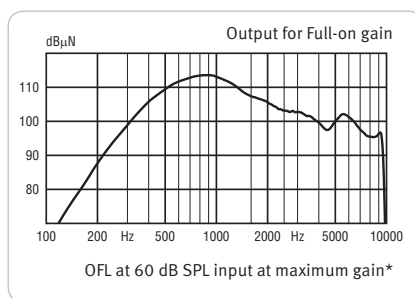
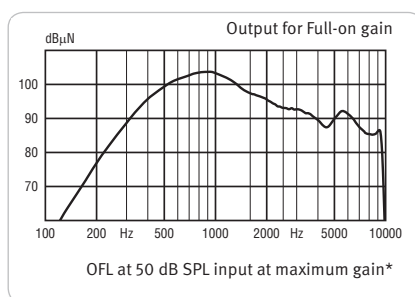
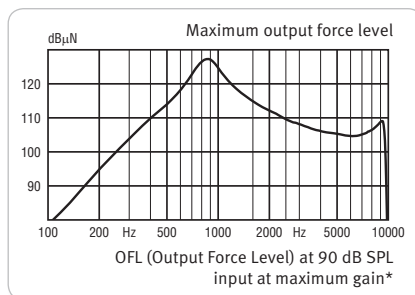
Technical Information

PONTO 3 POWER

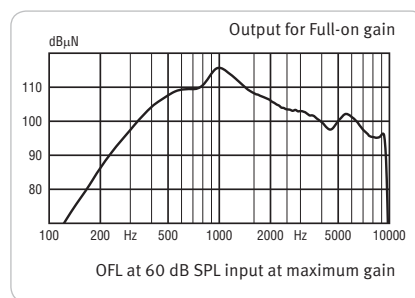
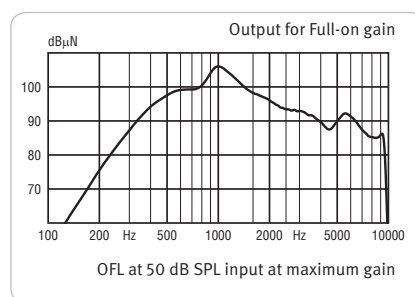
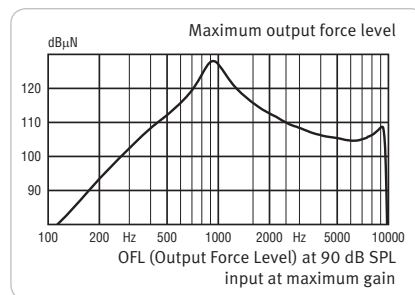


Scale 1:1

ON HEAD



ON SKULL SIMULATOR



*Curve compensation made for resonance on head.

Technical information Ponto 3 Power			
Battery voltage	1.1-1.5 V	Total harmonic distortion (THD60)	<3% above 600 Hz
Current consumption, in silence	1.35 mA	Equivalent input noise	26 dB SPL
Current consumption, typical	2.20 mA	Electrical input equivalent to an acoustic input of 70 dB SPL	N/A*
Average battery lifetime	Typically 70-150 hours	Processing delay	6 ms
Frequency range (DIN45.605)	260 Hz-9.6 kHz	Battery size	675
Peak OFL at 90 dB SPL input (skull sim.)	128 dB rel. 1 µN	Weight	17 g without battery
Peak OFL at 60 dB SPL input (skull sim.)	116 dB rel. 1 µN	Physical dimensions (L*W*H)	34* 21* 14 mm
Peak OFL at 50 dB SPL input (skull sim.)	106 dB rel. 1 µN	IRIL GSM/DECT	30/53 dB SPL

*Electrical audio input is available via wireless audio streaming from the Oticon Medical Streamer.

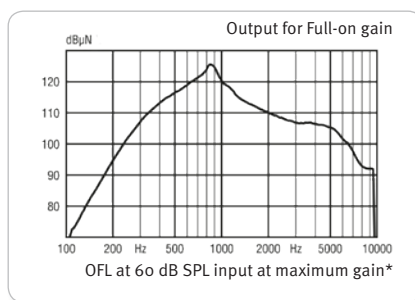
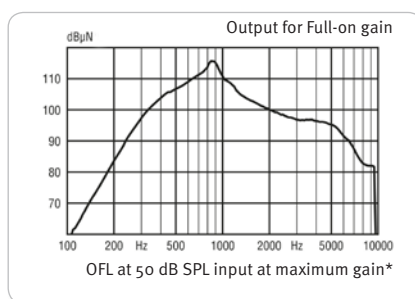
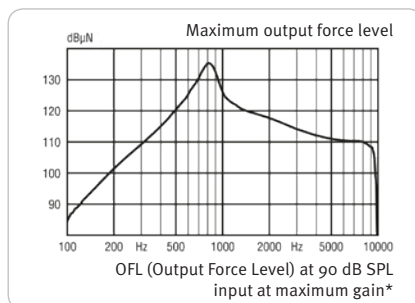
Technical Information

PONTO 3 SUPERPOWER



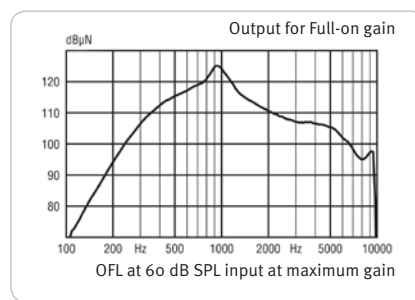
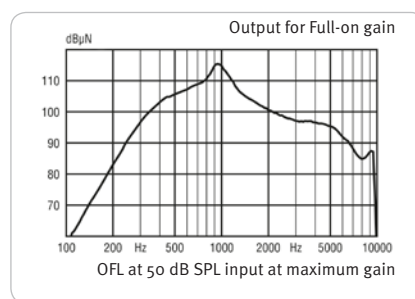
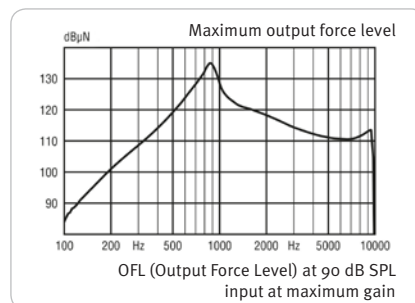
Scale 1:1

ON HEAD



*Curve compensation made for resonance on head.

ON SKULL SIMULATOR



Technical information Ponto 3 SuperPower			
Battery voltage	1.1-1.5 V	Total harmonic distortion (THD60)	<3% above 600 Hz
Current consumption, in silence	3.60 mA	Equivalent input noise	26 dB SPL
Current consumption, typical	6.80 mA	Electrical input equivalent to an acoustic input of 70 dB SPL	N/A*
Average battery lifetime	Typically 35-80 hours	Processing delay	6 ms
Frequency range (DIN45.605)	260 Hz-9.6 kHz	Battery size	675P
Peak OFL at 90 dB SPL input (skull sim.)	135 dB rel. 1 µN	Weight	17 g without battery
Peak OFL at 60 dB SPL input (skull sim.)	125 dB rel. 1 µN	Physical dimensions (L*W*H)	34* 21* 14 mm
Peak OFL at 50 dB SPL input (skull sim.)	115 dB rel. 1 µN	IRIL GSM/DECT	30/53 dB SPL

*Electrical audio input is available via wireless audio streaming from the Oticon Medical Streamer.

Product Overview

SELECTED FEATURES IN PONTO 3 SOUND PROCESSORS

Free Focus

Free Focus is the directional system in Ponto 3. It encompasses four directionality modes: Speech Omni, Optimised Omni, Split directionality and Full directionality. The automatic directionality can be set up to include either the Speech Omni or the Optimised Omni. Speech Omni is the default.

Binaural Processing

Binaural Processing consists of Binaural Coordination and Binaural Synchronisation. Binaural Coordination makes it possible to operate one sound processor and have the same effect in both. This applies to changing volume, user program and stand-by/mute function. Binaural Synchronisation synchronises noise reduction and directionality modes to the same mode in both devices. Binaural Processing is on by default in bilateral fittings.

Inium Sense feedback shield

The feedback handling in the Ponto 3 family is a two-stage feedback system. First, the individual feedback limit is measured and applied during fitting. The feedback shield then limits feedback in everyday life through a variety of advanced signal processing, including frequency shift. In situations with risk of feedback, feedback shield applies different processing to hinder feedback while limiting the artefacts associated with conventional feedback systems.

Tri-state Noise Reduction

Continuously analyses the environment to detect speech, environmental background noise and wind noise. The system automatically moves seamlessly between the different states. The aim of this system is to provide some degree of comfort in noisy environments while preserving the information most important for speech intelligibility.

Wind Noise Reduction

Depending on the wind noise level, sounds will be attenuated. The more wind, the more attenuation. Switches the sound processor into surround mode when wind is detected.

Speech Guard

Speech Guard is a signal processing system that works by maintaining linear processing as much as possible, but at the same time responding instantaneously to rapidly occurring environmental sounds – without the level of distortion experienced with traditional compression systems.



Product Overview & Accessories

FITTING SOFTWARE

Ponto 3 sound processors are programmed using the Genie Medical 2016.1, or later version, fitting software. The software can be used stand-alone or with NOAH. They can be programmed using either programming cables Oticon #3 or NOAHlink #2.

SELECTED FITTING FEATURES

BC In-situ Audiometry

A tool in Genie Medical used for measuring the patient's bone conduction hearing thresholds directly via the sound processor.

Feedback Manager

The Feedback Manager in Genie Medical measures and applies individual feedback limits in the sound processor in order to prevent static feedback and facilitate the full use of the entire range of the volume control without feedback.

Data Logging

Permits the sound processor to memorise listening levels, usage time, user settings and system states. The data can be analysed externally, providing valuable information used to optimise patient comfort and speech intelligibility in any complex listening situation.

Learning Volume Control

Enables the sound processor to adjust automatically to patient preferences over time. Different listening situations and preferred volume settings are memori-

sed. The system continuously analyses listening situations and automatically adjusts the volume to the memorised preferred setting. In this way the system assists in reaching the preferred volume without the need for manual adjustment of the volume control.

OPTIONS AND ACCESSORIES

Oticon Medical Streamer

The Oticon Medical Streamer can wirelessly connect the Ponto 3 sound processors to different audio sources, such as a computer, mobile phone or MP3 player. The sound is transmitted from the source to the sound processor via the Oticon Medical Streamer.



Read more about the Oticon Medical Streamer at www.oticonmedical.com/connectline or in the Oticon Medical Streamer product information.

Skins & Stickers

Colourful skins offer the opportunity to personalise the sound processor. The skins can be used together with the stickers included with the sound processor to create an individual look.



Because sound matters

Oticon Medical is a global company in implantable hearing solutions, dedicated to bringing the magical world of sound to people at every stage of life. As a member of one of the world's largest groups of hearing health care companies, we share a close link with Oticon and direct access to the latest advances in hearing research and technologies. Our competencies span more than a century of innovations in sound processing and decades of pioneering experience in hearing implant technology.

By working collaboratively with patients, physicians and hearing care professionals, we ensure that every solution we create is designed with users' needs in mind. We share an unwavering commitment to provide innovative solutions and support that enhance quality of life for people wherever life may take them. Because we know how much sound matters.



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