

# earnet<sup>®</sup> nano3

*Solution Oriented Innovative New Series*



**earnet<sup>®</sup>**  
hearing systems



# Everyone has a right to hear!

We know that every sound is  
important to you



**earnest**<sup>®</sup>  
hearing systems

*more than hearing*





# Superior performance nano3

## anytime and anywhere

With the Ear Clarity technology platform, users have a new experience, providing more comfortable understanding in difficult acoustic conditions and noisy environments. People it has less communication problems in daily life and not affected by hearing loss.

### Differential performances

- Excellent noticeable performance in the first adaptation
- Higher understanding of speech in noisy and difficult audio environments
- Less effort to distinguish sounds in complex noisy environments
- Listening to music is more enjoyable and exciting
- Fast adaptation process

### nano3 technology that gives meaning to sounds

- Our new generation technology recognizes and strengthens even the weak tone syllables that are specific to the frequency, as it provides a balanced understanding of the signals needed.
- Can raise words and conversations to a comprehensible level.
- The user is able to enjoy excellent hearing performance without having stress while using a hearing aid.

### Difficult acoustic conditions

- Creates a comfortable environment with soothing noise management in difficult acoustic spaces.
- Calms noises and raises conversations to a more lively level.
- Weakens background sounds.

### Powerful performance

The ability to deliver powerful gains in different environments, increases hearing pleasure and makes hearing aid enjoyable.



You can achieve  
high **hearing performance**  
with **nano3** technology



**earnnet**<sup>®</sup>  
hearing systems



# New Generation T-FIS

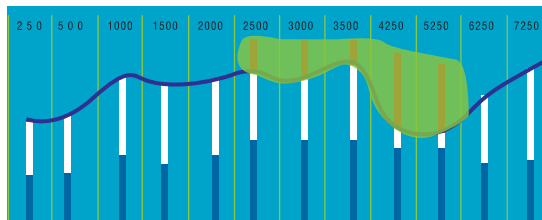
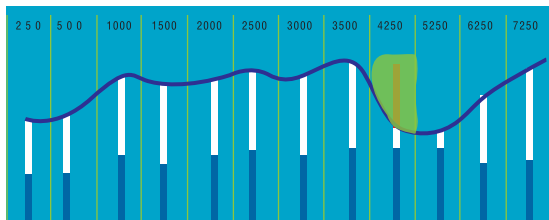
(Tinnitus-Frequency Isolation System)

## Tinnitus Therapy

- We have made the lives of hundreds of thousands of people easier through the experience of years that we have brought in the sector
- *TFIS (Frequency Isolation System)* offers excellent application with narrow or broad band fitting
- Offers high success up to 86% that has been proven clinically
- Low frequency, medium frequency and high frequency fitting
- The frequency of tinnitus can be detected
- Audible sound volume can be measured
- Monaural applicable
- Binaural applicable



Time to peace  
with Tinnitus...





# Nano3, Some exclusive basic features

## Special and unique feedback manager

- Enables special fitting for narrow channels
- Enables special fitting for straight and short channels
- Enables special fitting for the powerful devices
- Enables Large Ventilation opportunity
- Enables unpressurized "Occlusion Free" fitting
- The ear is now safe against the feedback
- Innovative and best feedback management
- It is easier to strengthen consonants

## Hear the treble sound

- Instead of searching for additional and complex technologies to hear treble sounds, it is now possible to hear treble sounds without loss of gain with nano3 technology. Listening to music and hearing the sounds of birds is no longer a dream.

## Maximum Gain

- Each frequency is supplied with high gain which enables diversity of voice, strengthens speech frequencies and builds balance between frequencies. This innovation helps to get maximum benefit from the device.

## The technology giving meaning to sounds

- Our next-generation technology recognizes the balanced and needed signals with that even amplifies the frequency-specific weak tone syllables
- Amplifies words and conversations to a clear level
- The user is able to enjoy the hearing with excellent performance and hearing without being anxious

## Difficult acoustic conditions:

- It creates a comfortable environment with its noise reduction management in complicated acoustic spaces
- Reduces noise and raises conversations to a more vibrant level
- Decreases background sounds

## Powerful performance

- The ability to deliver powerful gains in a different environments enhances hearing pleasure and makes the use of hearing aid enjoyable

## Stable and Durable

- nano3 Pediatrics devices are more durable to environmental conditions; resistant to water, dust, moisture, shocks and falling down

## Battery Consumption

- The device provides the user stress-free and continuous hearing with low battery consumption. The user can enjoy hearing without changing the battery for a long time not worrying about the dead batteries, without charging the battery, without paying high costs (\*)

## Battery Light Signal

- Indicates the status of the battery with the LED notification light in the button and speaking technology

## Start-Up Time

- The time between installing the battery to the device and inserting the device in the ear after the installation can be adjusted

## Difficult Acoustic Environment Applications

- Attack times can be adjusted for the people with hearing loss that are sensitive to loud sounds

## Acoustic Switch

- No need for a physical button for changing the program. The program can be changed with the touch to the microphone (\*\*)

(\*) Battery consumption varies depends on the type of the device.

(\*\*) Depending on the type of device.



# Pediatrics

We have introduced the world of sound to the individuals that have profound hearing loss and make their lives easier with the slogan of '**more powerful than the most powerful**'.

We continue to serve worldwide with the most reliable and distinctive software.

## For Those Who Want Special Devices with Unique Technology

**We produce the technologies that give meaning to sounds**

**nano3 Pediatrics** we developed for infants and children offers variety of sounds to the little users and introduces existence of the sound and its impacts to them. It contributes to the development of mind and formation of perception and speaking abilities.

## Special For Our Little Users

**nano3 Pediatrics** we developed has been designed in the way that the

children can get maximum benefit from the technology and get solutions for their needs to build a perfect future.

## Some Special Basic Features

### Special And Distinctive Feedback Manager

The ear canal of infants and children are narrower, shorter and straighter than the ear canals of adults. To make mold for this type of ear canal is very hard and does not give good results for most of the time. The molds that do not fit in the ear canal properly causes feedback especially for powerful hearing aids.

We developed algorithms that reduce the impact of the problem and even remove the problem itself completely most of the time.

## Hearing the Treble Sounds

Instead of seeking additional and complicated technologies to hear



treble sounds, it is possible to hear the treble sounds by **nano3** technology very well without reducing gain.

Listening to music and hearing the sound of birds are no longer a dream.

### Maximum Gain

Provides a balance between frequencies and strengthens required speech frequencies.

### Powerful Performance

Increases the pleasure of hearing adapting to the environment and makes it comfortable to use the hearing aid.

### More Clear Voices

Our new generation technology can detect and balance the needed signals. It recognizes and amplifies frequency based weak toned syllables.

### Difficult Acoustic Conditions

Creates a comfortable environment with the sound suppressor management in difficult acoustic places. Suppresses the noise and amplifies the voice to the level where it can be understood.

### Stable and Durable

**nano3 Pediatrics** hearing aids have been developed for children. It is more resistant to water, dust, humidity and the situations where the hearing aid falls down.

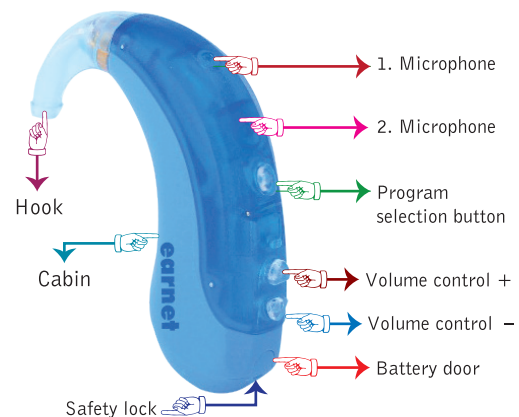









### Battery Consumption

**nano3 Pediatrics** provides the joy of long lasting hearing with low battery consumption. The user keeps enjoying hearing with low cost without changing the battery for a long time.

### Battery Light Signal

The parent can check the operation of the device via the flashing light. Besides, a speaking technology that gives a warning about battery's running out is integrated.



	IIC	CIC	Micro	Micro P	SD	MD	MP
							
	Ear Sim.   2 ccm	Ear Sim.   2 ccm	Ear Sim.   2 ccm	Ear Sim.   2 ccm	Ear Sim.   2 ccm	Ear Sim.   2 ccm	Ear Sim.   2 ccm
Max. Output (dB SPL)	120 / 112	120 / 112	118 / 110	124 / 116	124 / 116	131 / 123	131 / 123
Max. Gain (dB)	52 / 43	54 / 45	48 / 40	62 / 54	62 / 54	70 / 60	70 / 60
Frequency range	<100-7300 / 7200	<100-7400 / 7100	<100-7700 / 7600	<100-7300 / 6800	<100-7300 / 6800	<100-6400 / 5600	<100-6400 / 5600
Battery current	0,75 / 0,75	0,7 / 0,7	0,83 / 0,83	0,8 / 0,8	0,8 / 0,8	0,84 / 0,86	0,84 / 0,86
Battery size	10	10	10	10	10	312	312
Multi-function button	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Acoustic switch	+	+	+	+	+	+	+
Number of programs	NANO3 A / NANO3 B						
	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4
Number of frequency channels	16 / 12	16 / 12	16 / 12	16 / 12	16 / 12	16 / 12	16 / 12
Gain Bands	16 / 12	16 / 12	16 / 12	16 / 12	16 / 12	16 / 12	16 / 12
Channels MPO	16 / 12	16 / 12	16 / 12	16 / 12	16 / 12	16 / 12	16 / 12
Microphone	1	1	1	1	2	2	1
Telecoil	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Volume control	Optional	Optional	Optional	Optional	Optional	Optional	Optional
IP rating	–	–	–	–	–	–	–
Dimension (LxWxD) mm	–	–	–	–	–	–	–
Vibration (IEC 60068-2-64)	+	+	+	+	+	+	+
Mechanical shock (IEC 60068-2-31)	+	+	+	+	+	+	+
Shock temperature changes (IEC 60068-2-14)	+	+	+	+	+	+	+
Dust, water and humidity (IEC 60529)	–	–	–	–	–	–	–





# Nano3, Comparison Chart

	Premium Nano3 A	Advanced Nano3 B		Premium Nano3 A	Advanced Nano3 B
Sound compensation	•	•	Data logging	•	•
Sound hoarseness removal	•	•	Internal noise suppression	•	•
Multiple input mode	•	•	Noise reference	Input/Output	Input
Acoustic switch	•	•	Power on setup	•	—
Audible program change	•	•	OutPut filter	•	—
T- FIS input	•	•	MP0 attack time setting	•	—
T-FIS output	•	—	MP0 release time setting	•	—
Insitu Comfort Test	•	•	Wind Block	•	•
Device operating signal	•	•	Environmental sound regulator	•	•
Audible battery warning	•	•	Advanced adaptif feedback control	•	•
LED Battery warning signal*	•	•			

# Nano3, Performance Level

	Premium Nano3 A	Advanced Nano3 B		Premium Nano3 A	Advanced Nano3 B
360° understanding speech	•	•	Traffic	•	•
Quiet/Calm environments	•	•	Music	•	•
Understanding speech in noise	•	•	Calm environment	•	•
Understanding speech in very noisy environment	•	—	Natural	•	•
Eco stop	•	—	Office	•	•
Treble sound clarity	•	—	Party	•	•
Base sound clarity	•	—	Fixed direction	•	•
Preferential memory control	•	—	Only forefront	•	•
Setting the start time	•	—	Front and back direction	•	•
Autosave program and VC position	•	—	T-FIS input	•	•
			T-FIS output	•	—



# Nano3 Key Features

## 16/12 WDRC Channels

- 16/12 independent fitting channels

## 16/12 Channels Fine Tuning Gain Bands

- Enables frequency-based gain, sound balance and clarity

## 8 KHz Band Width

- Covers all the speech frequencies and ensures that music and rare loud sounds in everyday life can be heard easily

## Channel Based Scalar Noise Reduction

- Channel based noise reducer decreases noise gradually

## 16/12 Channel MPO

- Adjusts the maximum audio output level in 16 channels and provides channel-based safe sound

## Memory

- Adjustable 6 or 4 Programs. Offers options for different environments from 1 to 6 or 4 programs.

## Input Mode

- It provides different input options such as Omni, automatic directional, fixed directional, Inductive and Tinnitus therapy

## Acoustic Switch

- Changing the memory program with the finger touch to the microphone output without the need of a physical button

## Physical Button

- If the physical button is inserted, it can be used for two purposes
  - Can be used for switching the programs and volume adjustment
  - Short press to change program, long press to adjust volume

## Switching the Program

- Gives audible information about the program in desired language
- Notifies about the switched program audibly in desired language

## T-FIS (Tinnitus – Frequency Isolation System)

- Successful frequency isolation system at any frequency for tinnitus rehabilitation

## In-Situ Comfort Test

- The sound level performance of each frequency is measured and the fitting confirmation is obtained by the hearing aid. 'Which frequency is heard, how much by user' is observed through mold, vent and tube modifications

## Battery Warning

- Gives a warning via lighted button or signal tone

## Low Battery

- Gives an audible warning or signal tone to 'change the battery'

## Starting Program

- When the device is turned on, it starts to operate automatically with the same program and volume level that were used last when it was turned off

## Data Recording

- Makes contribution to the compatibility of other programs. Usage preferences are determined

## Base Sound Clarity

- Suppresses the low frequency noise extra, removes the speech dullness and eliminates the noise

## Internal Noise Blocker

- Hearing instruments normally produce internal noise as they work with batteries and those who do not have hearing loss at low frequencies are uncomfortable with that
- Internal Noise Blocker offers an excellent usage pleasure because it suppresses the internal sound of the device

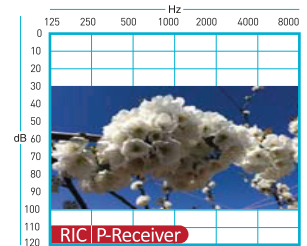
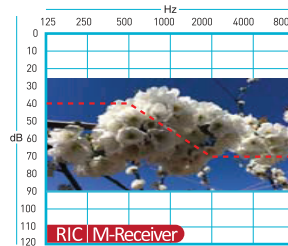
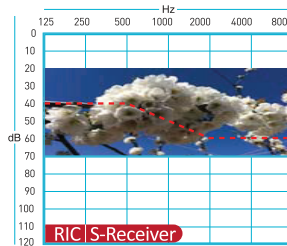
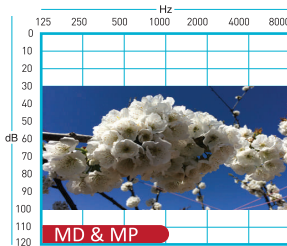
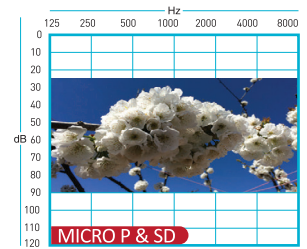
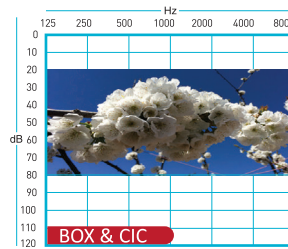
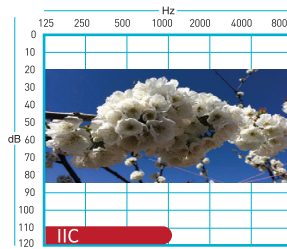
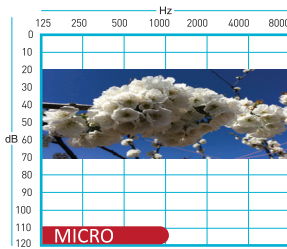
## Treble Sound Clarity

- Adjusts the echo and gain at high frequency sounds to provide a comfortable and easily understandable sounds

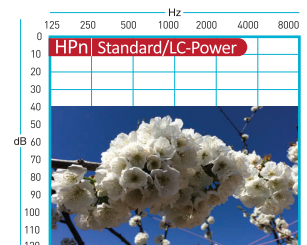
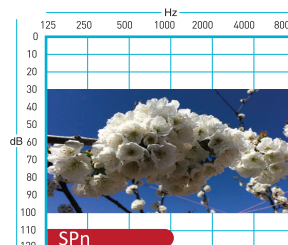
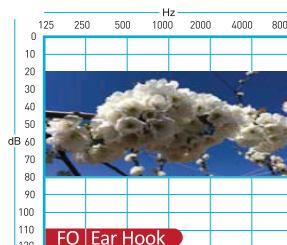
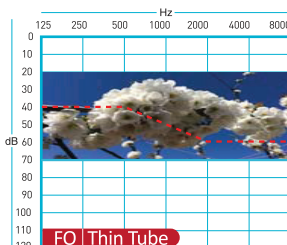
## Primary Memory

- User can start with the preferred program

# Fitting Range



--- Open Tip      — Closed Tip



--- Open Tip      — Closed Tip

## Fitting Formulas

NAL-NL2, DSL Adult, DSL Pediatrics

## Choose your Favorite Color

nano3 is better equipped than the previous nano series and has a wider range of products



### Programming System

- Cable : ITE cable 10 Batt. / Right & Left  
(Model: BOX / CIC / Micro / Micro P / SD)
- Cable : ITE cable 312 Batt. / Right & Left  
(Model: MP / MD)
- Cable : CS44 program cable (4 Pin)  
(Model: FO / RIC / SPn / HPn / HPn-L)
- Battery : Programming With  
(Model: HPn, HPn-L)
- Battery : Without battery  
(Model: BOX, CIC, Micro, MicroP, SD, FO, SPn)
- Prog.Device: Hi-Pro / Hi-Pro2 with USB
- Software : EarTuning2

### Programming Cables



### HI-PRO2





The technology  
that gives meaning  
to the sounds



*Pediatrics* | HP<sub>n</sub> & SP<sub>n</sub>

**earn<sup>®</sup>et**  
h e a r i n g   s y s t e m s



NEW GENERATION

# T-FIS

(Tinnitus-Frequency Isolation System)

earnert  
nano3  
series



ear-technik  
hearing aids

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