


Introducing JUNA 9 | 7 and Oasis 20.0 Fitting Software

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Course Overview and Learning Objectives

This course introduces Juna 9 | 7 and explores the new advanced features in the Audio Efficiency™ platform, including Speech Cue Priority™. New Connectivity accessories and new features found in Oasis 20.0 fitting software are also reviewed.

At the end of this course, participants will be able to:










- Describe the new styles and features offered in Juna 9 | 7
- Match the feature benefit to patient needs
- Identify new accessories offered for use with Juna 9 | 7
- Describe new features within Oasis 20.0 fitting software
- Identify where adjustment of new features is performed in Oasis 20.0 fitting software



Complete Juna Custom Family


Custom Models

NEW!



Juna 9 only

ITEPDITEDITCPDITCDITC
CICPCICxCICIIIC



Custom Overview

| Model | Battery | VC | PS | Dir | T-Coil | Auto-T | Wireless | Gain (2cc) | MPO (2cc) |
|------------------|---------|----|----|-----|--------|--------|----------|------------|-----------|
| New ITEPD | 13 | * | o | • | o | o | o | 63 | 127 |
| ITED | 13 | * | o | • | o | o | o | 52 | 121 |
| New ITCPD | 312 | * | o | • | o | o | o | 63 | 127 |
| ITCD | 312 | * | o | • | o | o | o | 50 | 117 |
| ITC | 312 | o | o | | o | o | | 50 | 117 |
| New CICP | 10 | ** | o | | | | o | 48 | 117 |
| New CICx | 10 | ** | o | | | | o | 43 | 109 |
| CIC | 10 | | | | | | | 42 | 109 |
| IIC*** | 10 | | | | | | | 35 | 109 |

o Optional • Standard

* PS may be configured for VC functionality

** Only via remote or SoundGate

*** Juna 9 only

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Juna 9[7]: BTE Overview

Compact Power Plus

Compact Power

Nano

Nano RITE



- Same hardware as Acivia
- Same acoustical performances
- New color palette

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BTE Overview

| | CPx | CP | N | NR (M-sp) | NR (P-sp) |
|------------|-----|-----|-----|-----------|-----------|
| Battery | 13 | 13 | 312 | 312 | 312 |
| VC | • | • | * | * | * |
| PS | • | • | • | • | • |
| Dir | | • | • | • | • |
| T-Coil | • | • | | • | • |
| Auto-T | • | • | | • | • |
| Wireless | • | • | • | • | • |
| DAI/FM | o | o | | | |
| Gain (2cc) | 71 | 61 | 48 | 50 | 64 |
| MPO (2cc) | 132 | 128 | 122 | 109 | 124 |

o Optional • Standard

* PS may be configured for VC functionality

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BTE Colors

| | | | | | | | | | |
|------------|------|------|------|-----|------|------|------|------|------|
| Top Shell | SABE | MSIL | ANBR | MAC | COBR | JEBL | MAC | SABE | COBU |
| Base Shell | MAC | MAC | MAC | MAC | MSIL | MSIL | MSIL | MSIL | MSIL |

Cobalt Blue is the new Juna signature color

- SABE = Sand Beige
- MSIL = Metallic Silver
- ANBR = Antique Bronze
- COBR = Cocoa Brown
- JEBL = Jet Black
- COBU = Cobalt Blue



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CONNECTIVITY

New Devices – Easy Pairing

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RC-N Remote Control

New design allows:

Easy handling for all ages

Excellent tactility

- Larger and more visible buttons
- Smaller size
- Lighter weight
- Design is similar to other accessories



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New Connectivity Accessories



SoundGate Mic



SoundGate 3




Bernafon wireless hearing aids

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SoundGate Mic

- External microphone to enhance communication
- Up to 15 meters streaming distance to SoundGate 3
- Worn by another person which the end user would like to hear
 - Guided tours
 - Restaurants
 - Classrooms
 - Medical appts



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SoundGate 3 and iPhone App

- Same design as SoundGate 2 – now connects to a Bernafon iPhone SoundGate app
- Available for download on the App store

Offers visual indication

- ✓ Bluetooth® sources within range
- ✓ SoundGate 3 battery status
- ✓ Confirmation of VC and program changes


Compatible with Apple iOS version 7.0 and higher



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SoundGate iPhone App


- Transmits via SoundGate 3
- iPhone provides remote control for Volume and Program changes, sets streaming levels, selects stream inputs
- Provides discreet adjustment of hearing aids



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Connectivity Overview

SoundGate 3



Hearing Aids SG 3 SG Mic SG App Music Telephone TV Induction

RC-N Remote Control



RCN Hearing Aids

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Participant Poll Question

Of the new options in Juna 9 | 7 that you've learned about so far, which do you see as most important to you and your clients?

- A. A Custom ITED with more power
- B. CIC's with wireless connectivity
- C. Bluetooth Remote Mic
- D. Phone App for hearing system control

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New Juna Features

- Speech Cue Priority
- i-VC (intelligent volume control)
- Ultra Comfort ANR Plus*
- Reverb Reduction*
- Comfort in Airplane Program*

* Juna 9 only

The logo for bernafon, featuring the brand name in a bold, sans-serif font with a registered trademark symbol, and the tagline "Your hearing - Our passion" in a smaller font below it.

Audio Efficiency™ - Speech

- ChannelFree™
- **Speech Cue Priority™**
- Frequency Composition™
- True Directionality™
- i-VC

A diagram titled "Audio Efficiency™ - Speech" on a white background. It features three overlapping circles. The top circle contains a red fingerprint icon. The bottom-left circle contains a red lips icon and the word "Speech" in white. The bottom-right circle contains a red headphones icon.

The logo for bernafon, featuring the brand name in a bold, sans-serif font with a registered trademark symbol, and the tagline "Your hearing - Our passion" in a smaller font below it.



SPEECH CUE PRIORITY™

- Speech Cue Priority™ turns DSP into something special by catering to two distinct groups
- Appropriate auditory information is delivered
- Auditory resolution ability is considered

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Auditory Resolution and Hearing Loss

| Better Auditory Resolution Abilities | Poorer Auditory Resolution Abilities |
|---|--|
| Can access and use speech cues within the signal | Can access and use loudness contrast within the signal |
| Benefit from amplification which makes all parts of the speech signal audible | Rely on the overall speech envelope for speech intelligibility |
| ↓ | ↓ |
| Amplification shall provide the maximum amount of information | Amplification shall preserve the envelope |

Source: Moore, B.C.J. (2014). Auditory processing of temporal fine structure: Effects of age and hearing loss. *Frontiers in Neurology*, 5, 1-10.

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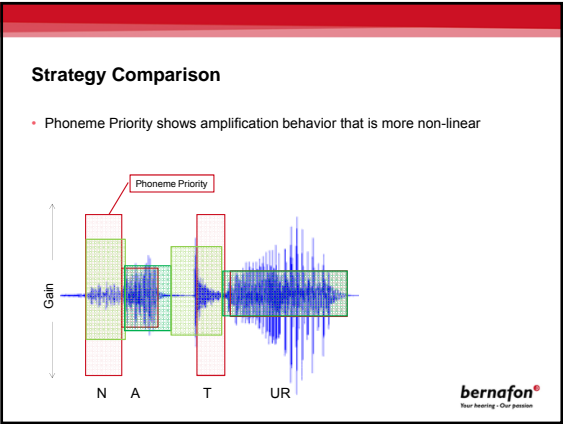
Speech Cue Priority™

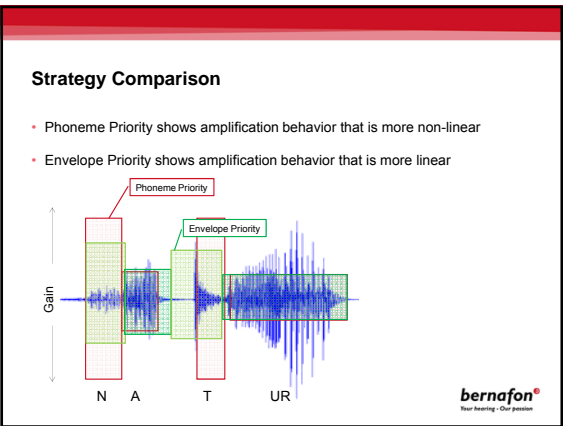
Speech Cue Priority™ consists of two controls:

Phoneme Priority

Envelope Priority

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Benefits of Speech Cue Priority™


| End User - Better Auditory Resolution Abilities | End User - Poorer Auditory Resolution Abilities | Hearing Care Professional |
|---|---|--|
| All parts of the speech signal are audible | Loudness contrasts between phonemes are preserved | Auditory resolution abilities are considered |
| Receives maximum audibility | Receives maximum envelope information | Oasis selects default according to client data with the flexibility to change it |
| Matching the amplification to the most useful speech cues | | Improved tool to cater to these user groups |
| State-of-the-art technology | | More competitive |


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Audio Efficiency™ - Speech

- ChannelFree™
- Speech Cue Priority™
- Frequency Composition™
- True Directionality™
- i-VC









i-VC
INTELLIGENT VOLUME CONTROL

- i-VC turns a standard VC into a speech-weighted volume control
- Takes into account the speech-relevant frequency bands
- Improves the frequency shaping of volume changes



i-VC Intelligent Volume Control




Benefits of i-VC

| End User | Hearing Care Professional |
|--|--|
| Improved way of increasing the volume | Can offer a sophisticated volume control |
| Speech-relevant signals are emphasized | More individualized fitting |
| Improved way of decreasing the volume | Increasing the feature set available to address speech-in-noise situations |
| Increased listening comfort in noise | Higher client satisfaction |
| Additional feature to assist in speech-in-noise situations | Giving more control to the end user |

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Audio Efficiency™ - Comfort

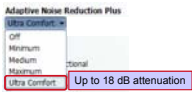
- AFC Plus
- **ANR Plus – Ultra Comfort**
- Transient Noise Reduction
- Reverb Reduction
- Binaural Coordination



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Ultra Comfort - ANR Plus

Even stronger setting (attenuation) of existing Adaptive Noise Reduction Plus




- In Juna 9 only

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Audio Efficiency™ - Comfort

- AFC Plus
- ANR Plus
- Transient Noise Reduction
- **Reverb Reduction**
- Binaural Coordination



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REVERB REDUCTION

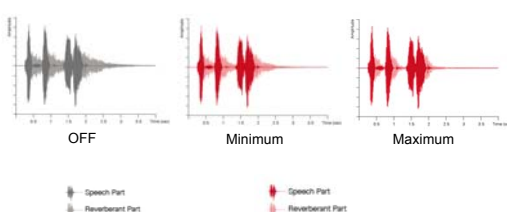
Reverb Reduction turns a reverberant environment into a more comfortable listening experience

Delivers greater comfort in enclosed spaces with:

- High ceilings
- Reflective surfaces
- Furnishings with minimal absorption

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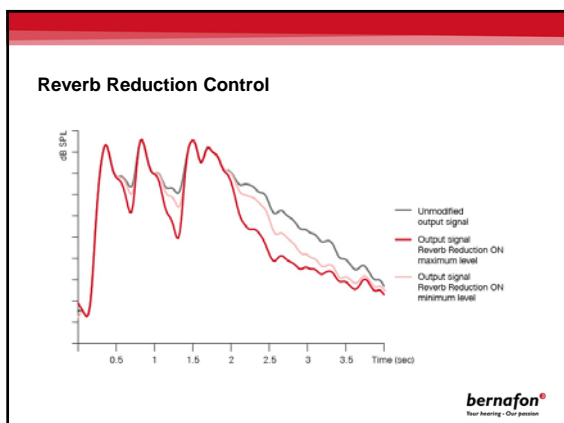
Reverb Reduction Control



OFF Minimum Maximum

— Speech Part
— Reverberant Part

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Parameters for Reverb Reduction

Adjustment influences the amount of attenuation:

- Minimum setting
• up to 8 dB
- Medium setting
• up to 14 dB
- Maximum setting
• up to 20 dB

Reverb Reduction

Off ▼

Off

Minimum

Medium

Maximum

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Benefits of Reverb Reduction

| End User | Hearing Care Professional |
|--|--------------------------------------|
| Preserves speech intelligibility as seen in internal studies | Freedom to adjust for client's needs |
| Improves speech naturalness | Speech naturalness clinically tested |
| Preferred in a reverberant environment | Competitive advantage of Juna 9 |
| Can enjoy hearing aids in even more situations | Satisfied clients |


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Audio Efficiency™ - Individualization

- Live Music & Cinema Programs
- **Comfort in Airplane Program**
- Wireless Connectivity
- Language Specific Targets



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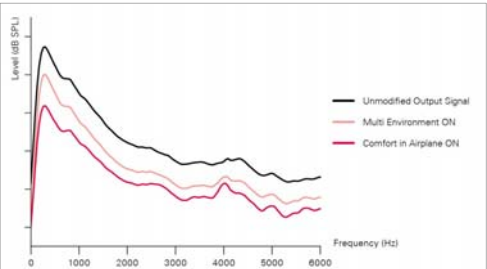


COMFORT IN AIRPLANE

- Turns air travel into an enjoyable experience
- Dedicated listening program for airplane travelers
- Maximizes comfort in noisy airplane cabins
- Available in Juna 9

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Noise Level Measurements



Level (dB SPL)

Frequency (Hz)

— Unmodified Output Signal
— Multi Environment ON
— Comfort in Airplane ON

Airplane cabin noise (Boeing 747) measured by a Bernafon employee

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Benefits of the Comfort in Airplane Program

| End User | Hearing Care Professional |
|---|--|
| Maximized listening comfort | Can offer a unique solution |
| Reduces noise annoyance | More individualized fitting |
| No need to mute or remove hearing aids | Very easy to assign in Oasis |
| Simple one touch access | Less fine-tuning and follow up visits needed |
| Arrive in a more relaxed state at destination | More time for counseling |

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Juna 9 | 7 Overview

| Feature | Juna 9 | Juna 7 |
|---------------------------|-------------------------------------|---------|
| ChannelFree™ | ✓ | ✓ |
| Speech Cue Priority™ | ✓ | ✓ |
| Frequency Composition™ | ✓ | ✓ |
| i-VC | ✓ | ✓ |
| ANR Plus | ✓ 5 ctr | ✓ 4 ctr |
| Ultra Comfort | <input checked="" type="checkbox"/> | |
| Transient Noise Reduction | ✓ | ✓ |
| Reverb Reduction | <input checked="" type="checkbox"/> | |
| AFC Plus | ✓ | ✓ |

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Juna 9 | 7 Overview

| Feature | Juna 9 | Juna 7 |
|-----------------------------|-------------------------------------|--------|
| True Directionality™ | <input checked="" type="checkbox"/> | |
| Adaptive Directionality | ✓ | ✓ |
| Live Music/Cinema Programs | ✓ | ✓ |
| Comfort in Airplane Program | <input checked="" type="checkbox"/> | |
| Language Specific Targets | ✓ | ✓ |
| Data Logging/Learning | ✓ | ✓ |
| Smart VC | <input checked="" type="checkbox"/> | |
| VC Learning Limits | <input checked="" type="checkbox"/> | |
| Adaptivity Control | ✓ | ✓ |

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Participant Poll Question

Of all the features in Juna 9 | 7 , which sounds most like it has something unique to offer your clients?

- A. Speech Cue Priority™
- B. i-VC
- C. Comfort in Airplane
- D. Language Specific Targets

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OASIS 20.0

What's new and where to find it

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New in Oasis 20.0**Transfer Settings of hearing instruments:**

- Through selection of hearing instrument Selectable - Transfer Settings
- Upon detection of hearing instrument Detect Hearing Instruments
- Oasis will automatically prompt: How do you want to proceed?
 - From one technology to another
 - From one style to another
 - Transfer of complete data
 - Transfer of programs/amplification

How do you want to proceed?
☐ Start a new fitting
☒ Transfer all Oasis data

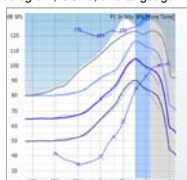
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New in Oasis 20.0

New Tool Bar options



- **Edit** - Transfer Fitting from R ↔ L
- **View** - → Graph Options → In Situ SPL → Display SPLOgram
- displays audiogram, UCL's, and target gain in SPL



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New in Oasis 20.0

New Tool Bar options



- **Tools** - → REM Setting:
Turns Adaptive HA Features off
for external REM measurement
and apply fine-tuning changes
easily



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New in Oasis 20.0

New Tool Bar options



- **Targets** - New Reset to Target Option
- based on target gain or P1 amplification
- **Sound Player** - Common backgrounds, music, multi-language speech

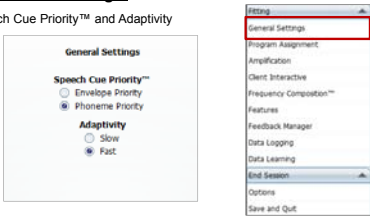


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New in Oasis 20.0

New - General Settings:

- Speech Cue Priority™ and Adaptivity



General Settings

Speech Cue Priority™

☐ Envelope Priority

☒ Phoneme Priority

Adaptivity

☐ Slow


☒ Fast

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New in Oasis 20.0

Program Assignment:

- Comfort in Airplane program
- Assignment of additional programs based on target gain or based on P1 amplification



Program Assignment

P1 Multi-Program

P2 No Program

P3 No Program

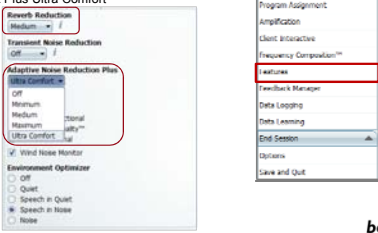
P4 No Program

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New in Oasis 20.0

New Features for Juna 9:

- Reverb Reduction
- ANR Plus Ultra Comfort



Reverb Reduction

Medium

Transient Noise Reduction

Off

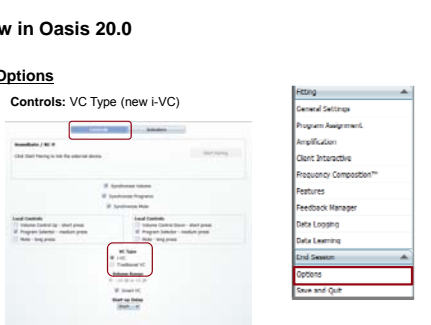
Adaptive Noise Reduction Plan

Ultra Comfort

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New in Oasis 20.0

- Options:** VC Type (new I-VC)



The screenshot displays the Oasis 20.0 software interface. On the left, the 'Options' menu is open, with 'VC Type' highlighted. The main window shows the 'VC Type' setting, which is currently set to 'I-VC'. The 'I-VC' option is highlighted with a red box. The 'VC Type' dropdown menu is also visible, showing 'I-VC' as the selected option.

Options

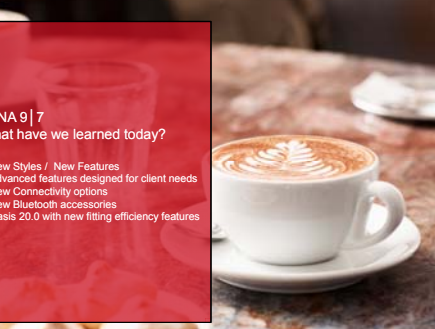
- General Settings
- Program Assignment
- Amplification
- Client Interactive
- Frequency Composition™
- Features
- Feedback Manager
- Data Logging
- Data Learning
- End Session
- Options**
- Close and Quit

VC Type

- I-VC
- VC Type

VC Type

- I-VC
- VC Type



JUNA 9i 7

What have we learned today?

- New Styles / New Features
- Advanced features designed for client needs
- New Connectivity options
- New Bluetooth accessories
- Oasix 20.0 with new fitting efficiency features

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**Introducing JUNA 9 | 7
and Oasis 20.0 Fitting Software**

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