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On a Mac

- Open PDF in Preview
- Click File
- Click Print
- Click dropdown menu on the right “preview”
- Click layout
- Choose # of pages per sheet from dropdown menu
- Checkmark Black & White if wanted.

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- Click Print
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A solid red square is located in the bottom left corner of the page.

Introducing ReSound Vivia and ReSound Savi - our most intelligent portfolio yet!

Tammara Stender, Au.D.

Director of Global Audiology
Commercial and External Relations,
GN Hearing

Webinar FAQs

- How to ask a question:
 - Click Q&A, type your question and Send.
- Where to get the handout:
 - Resources in the classroom and under Pending Courses in your account
- How to view captions:
 - Click Live Transcript CC button
 - Click Show Subtitle
- How to earn CEUs:
 - After the webinar, go to your Pending Courses and pass the multiple-choice exam.
- For assistance or tech support:
 - Call 800-753-2160
 - customerservice@audiologyonline.com
 - Use the Q&A window

Risks/Benefits

- The applicability and accuracy of the course content may vary by the clinical, geographical, and cultural context; you should evaluate the course accordingly.
- As healthcare is rapidly evolving, new findings may change the validity of the information presented in this course. Providers should always consult the latest research and guidelines from professional associations.
- The interventions discussed in this course may be limited in generalizability, requiring practitioners to consider specific individual and population factors.
- The course may not cover all possible risk factors, diagnostic methods, or treatment options, and complex cases may require additional considerations.
- Healthcare providers should apply cultural competence and sensitivity to ensure effective and respectful care based on their patients' diverse needs.
- Providers should always evaluate the limitations of diagnostic and screening tools, considering their potential for false results as well as any ethical implications.
- It is the responsibility of course participants to critically evaluate the evidence from multiple sources to guide professional practice.

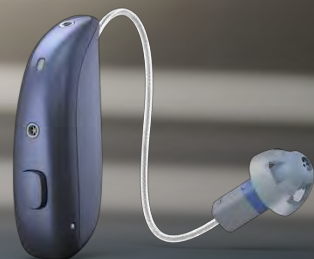
Learning Outcomes

- 1) After this course, participants will be able to identify the features of ReSound Vivia and ReSound Savi.
- 2) After this course, participants will be able to list the patient benefits of Intelligent Focus.
- 3) After this course, participants will be able to guide patients on how to use Auracast Assistant.

Empowering hearing evolution

Introducing the most intelligent portfolio,
powered by a human approach to AI

ReSound Vivia



ReSound Savi



ReSound GN



ReSound portfolio 2024

ReSound GN

Bluetooth® LE Audio &
Auracast™

PREMIUM

ReSound Nexia™



ADVANCED

ReSound OMNIA™



ReSound LiNX Quattro™
and ReSound ENZO Q™



ESSENTIAL

ReSound Key™



ReSound portfolio 2025

		Bluetooth® LE Audio & Auracast™	Intelligent Focus (Tech Level 9)
PREMIUM	ReSound Vivia™ 		
	ReSound Nexia™ 		
ADVANCED	ReSound OMNIA™ 		
	ReSound LiNX Quattro™ and ReSound ENZO Q™ 		
ESSENTIAL	ReSound Savi™ 		
	ReSound Key™ 		

Our most intelligent portfolio yet



ReSound
Smart Fit™ 2.1



Exchangeable mic
filters



SureFit 3*



Bluetooth® LE Audio &
Auracast™



Intelligent Focus
(Tech level 9)

PREMIUM

ReSound Vivia™



ESSENTIAL

ReSound Savi™



Aligned hearing aid basics

Replaceable mic filters

for ReSound Vivia and ReSound Savi



All day battery

for ReSound Vivia and ReSound Savi



Up to 30 hours of
use on one
charge

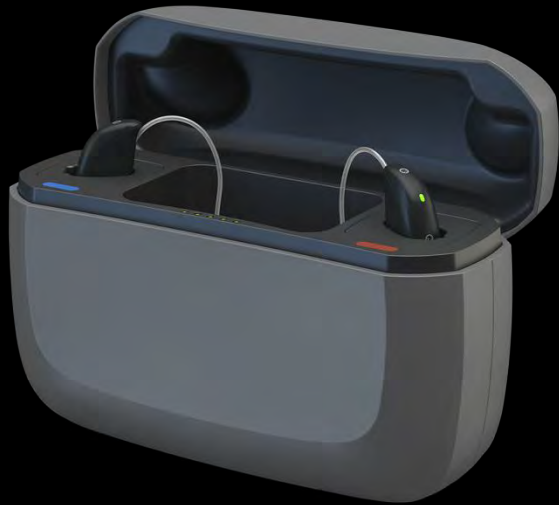


20 hours when
streaming 50% of
the time

ReSound Vivia

ReSound GN

The energy you need



Premium charger



Standard charger

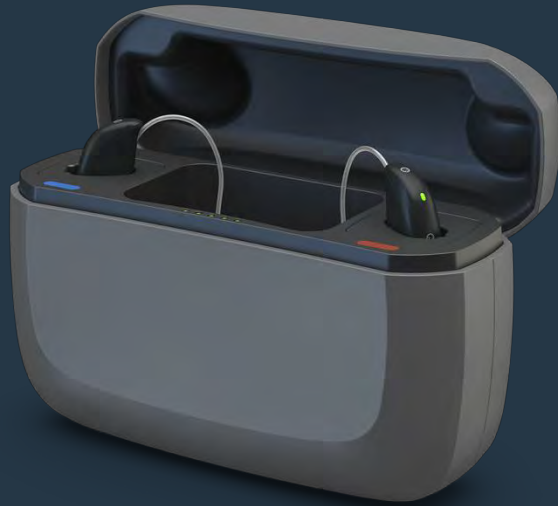


Desktop charger

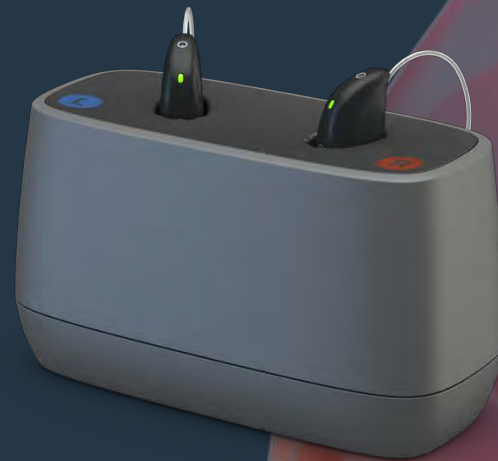
ReSound Savi

ReSound GN

The energy you need



Premium charger



Desktop charger

ReSound Savi

Clear sound and
connectivity for everyone



ReSound Savi

Clear sound and
connectivity for everyone



SA60-DRWC

miniRIE
Rechargeable

SA61-DRW

Standard RIE
312, 13 battery

SA62-DRW

Tech level 3

Tech levels 3 and 2

ReSound Savi

ReSound GN

miniRIE | 5 metallic colors



Tech level 3

RIE 312 | 5 matte colors



Tech levels 3 – 2

RIE 13 | 5 matte colors



Tech levels 3 – 2

ReSound Savi

Best-in-class in hearing all around

Hear your everyday with ease

- Upgraded signal processing on latest chip
- Impulse Noise Reduction (PP3)
- DFS Ultra III
- Now with Sound Shaper

ReSound GN



ReSound Savi

Best-in-class hearing comfort

Best wearing comfort in tiny designs

- Designed for all day wear
- New small styles including a rechargeable miniRIE styles in PP3
- All-weatherproof
- Replaceable mic filters
- All-day battery



ReSound Savi

Best-in-class Connectivity

Clearest Bluetooth experience ever

Connect to Bluetooth LE Audio & Auracast

Auracast Assistant

Clearest all-day streamed sound

Greater benefit from TV-Streamer+ and
Multi-Mic+



ReSound Savi



New small
miniRIE



Environmental
Optimizer

Impulse Noise
Reduction



All-day battery



World's
first
Auracast
Assistant



AURACAST™



BEST-IN-CLASS

Hearing all-around
Hearing comfort
Bluetooth connectivity



Basics aligned

New metallic colors



Exchangeable
mic filters



Enjoy the
Multi-Mic+
TV-Streamer+

3 RIE
styles



ReSound Vivia

Sound is more vivid than
ever with Intelligence
Augmented – a human
approach to AI

Tech levels 9, 7, 5 and 4
Tech level 9 offers Intelligent Focus and
Intelligent Noise Tracker



VI60S -DRWC

microRIE
Rechargeable

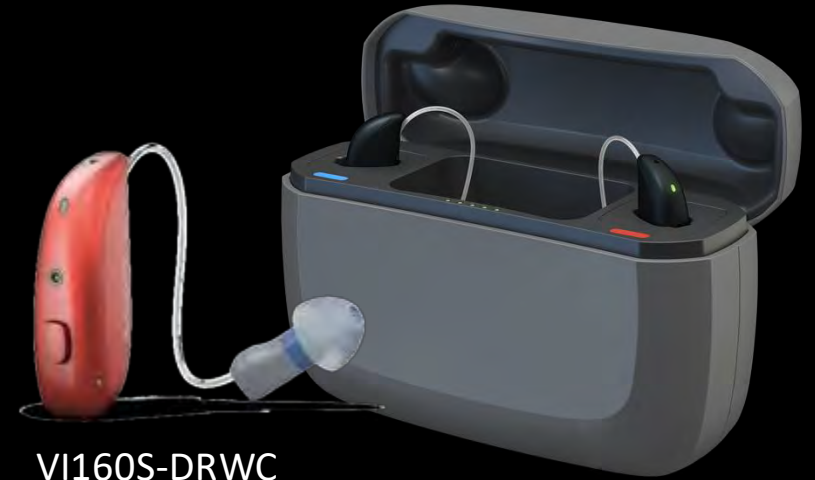
VI61 -DRW

Standard RIE
312, 13 battery

VI62 -DRW

ReSound Vivia microRIE CROS Transmitter

ReSound GN



VI160S-DRWC
Micro RIE style



16 hrs battery life
when transmitting audio to the
opposite ear*



Compatible with ReSound Vivia
RIEs



SureFit 3 receivers and
domes

* All-day battery life on one charge is based on typical use time of 16 hours (both transmitter and hearing aid). Battery life can vary by use.

New colors



All-weatherproof IP68 in & out,
including receivers

ReSound Vivia

**Sound is more vivid than ever
with Intelligence Augmented**
– a human approach to AI

Deep Neural Network for Hearing in Noise

Spotlight speech, eliminate distraction without cutting the user off from the world¹⁻⁴

World's smallest AI hearing aid

with all-day wearing comfort & all-weatherproof design⁵

All-day battery – with no tradeoffs

24 hours of use even with streaming or AI⁶⁻⁷

Made for Bluetooth LE Audio and Auracast

Clearest Bluetooth experience ever and world's first Auracast Assistant enabling Auracast for AI⁸⁻⁹

World's best for hearing in noise

ReSound Vivia is the world's best for hearing in noise



360 All
Around

All-Around Program



Clear
Focus



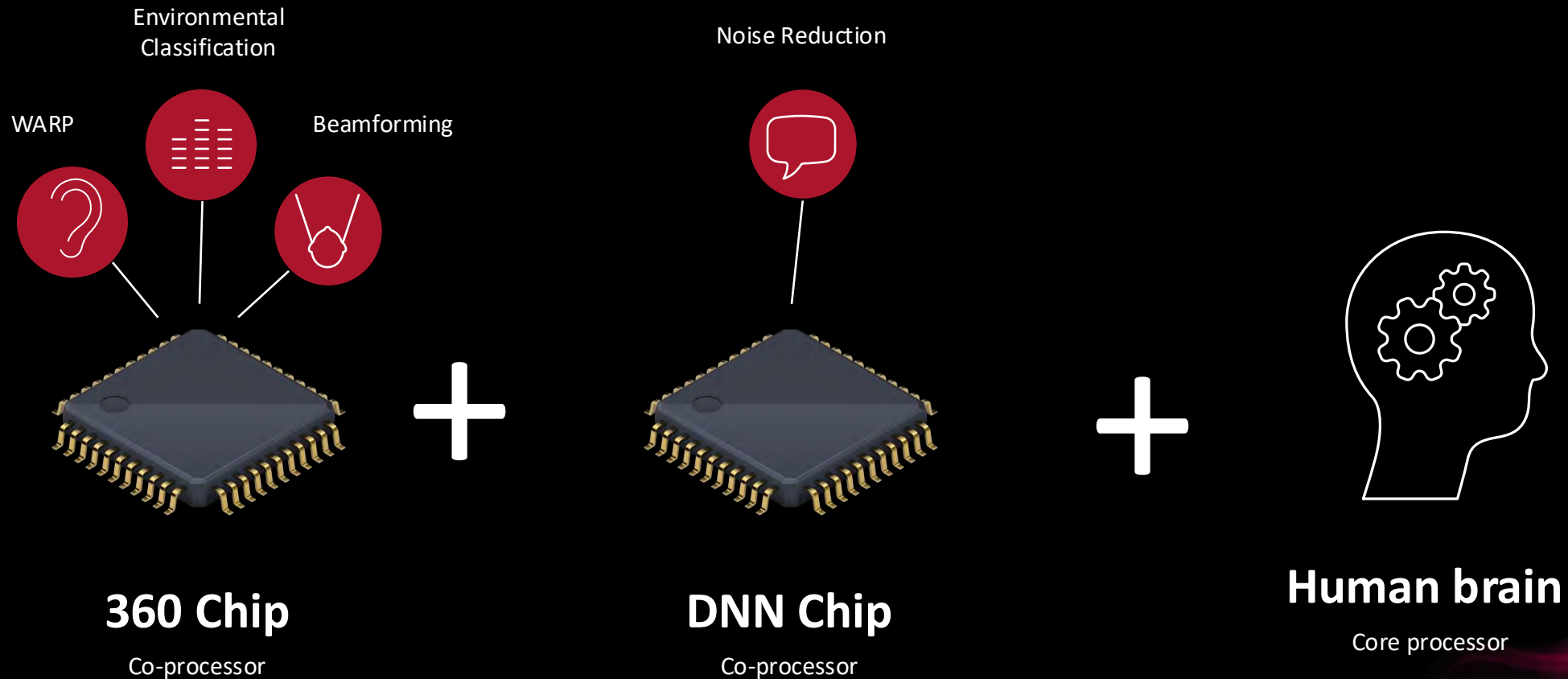
Intelligent
Noise Tracker

Hear in Noise Program

Clear Focus + Intelligent Noise Tracker =
ReSound Intelligent Focus

ReSound Vivia with DualChip

The highest form of Intelligence Augmented

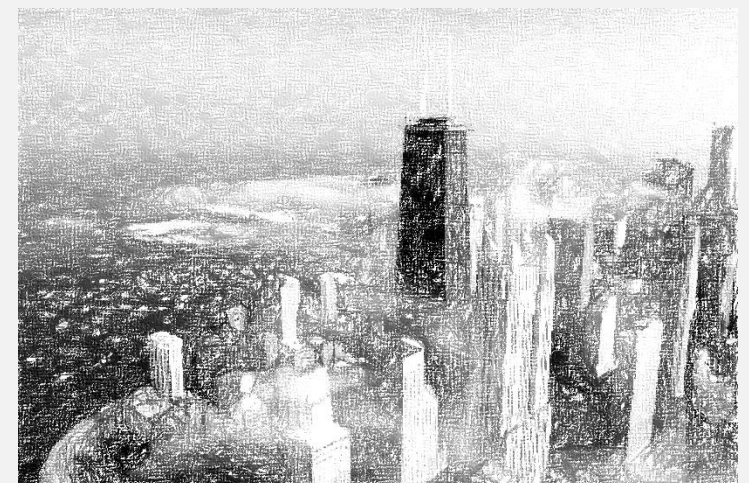


What is a Neural Network?

A **Machine Learning Algorithm** Designed to Mimic the Process of Human Thought

Take an image

- what the computer sees is pixels that are given a number representing the color intensity



A small change to the picture gives a new set of values.
Thus, we must **train the computer with many samples to accurately classify the image, without over- or under-generalizing the outcome.**

How does a Deep Neural Network work?

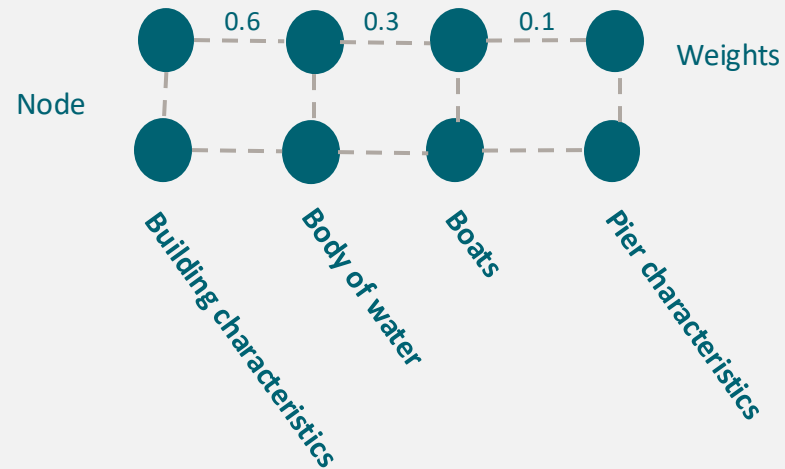
TARGET



INPUT

Hidden layers
Statistical calculations and analysis

Investigate input in detail



OUTPUT

PREDICTION

Chicago Skyline

Weights are optimized until prediction is correct

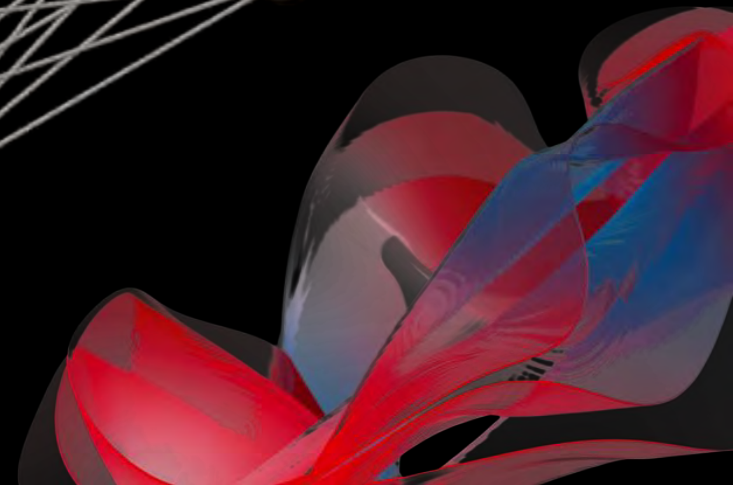
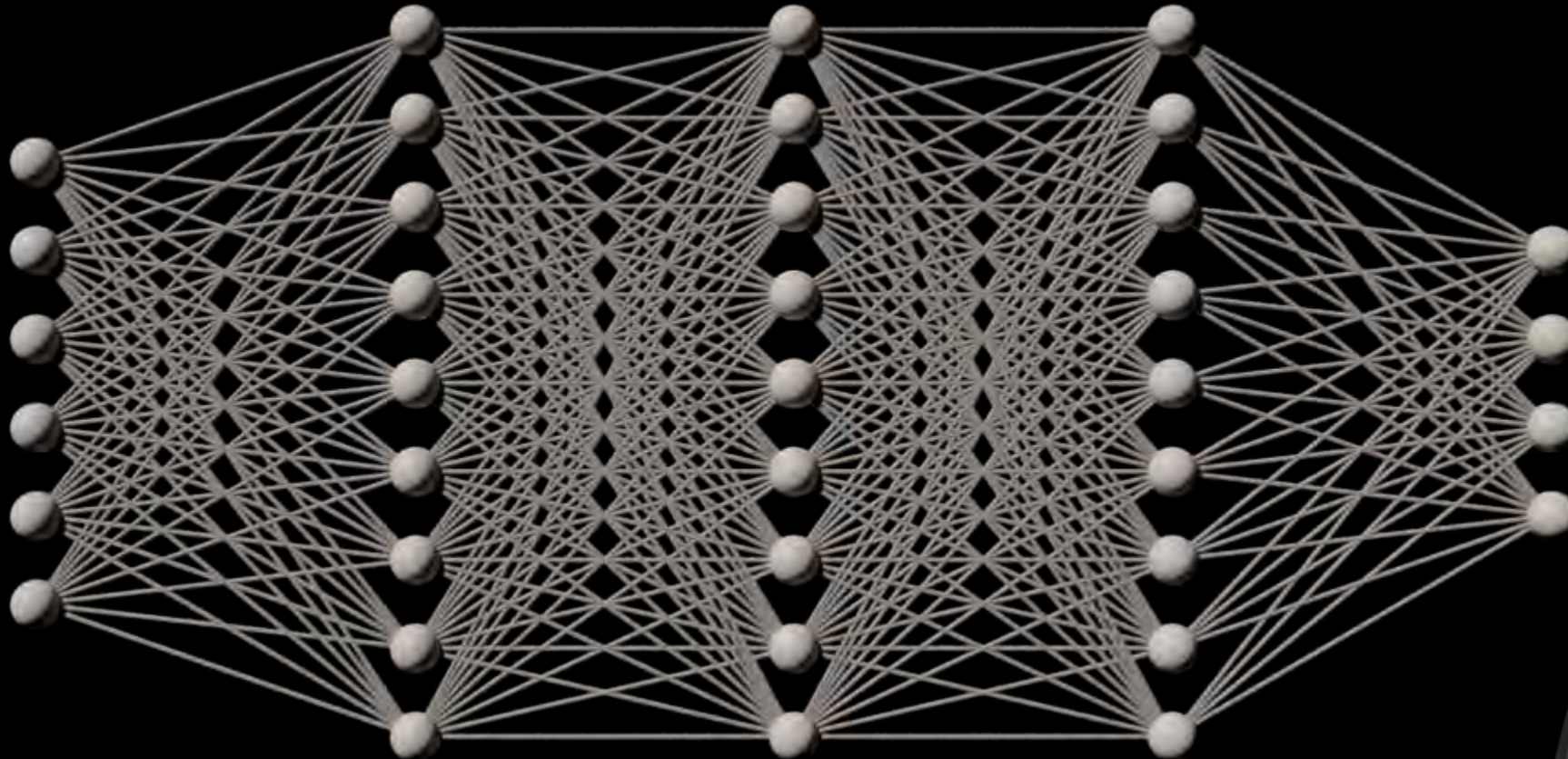
input layer

hidden layer 1

hidden layer 2

hidden layer 3

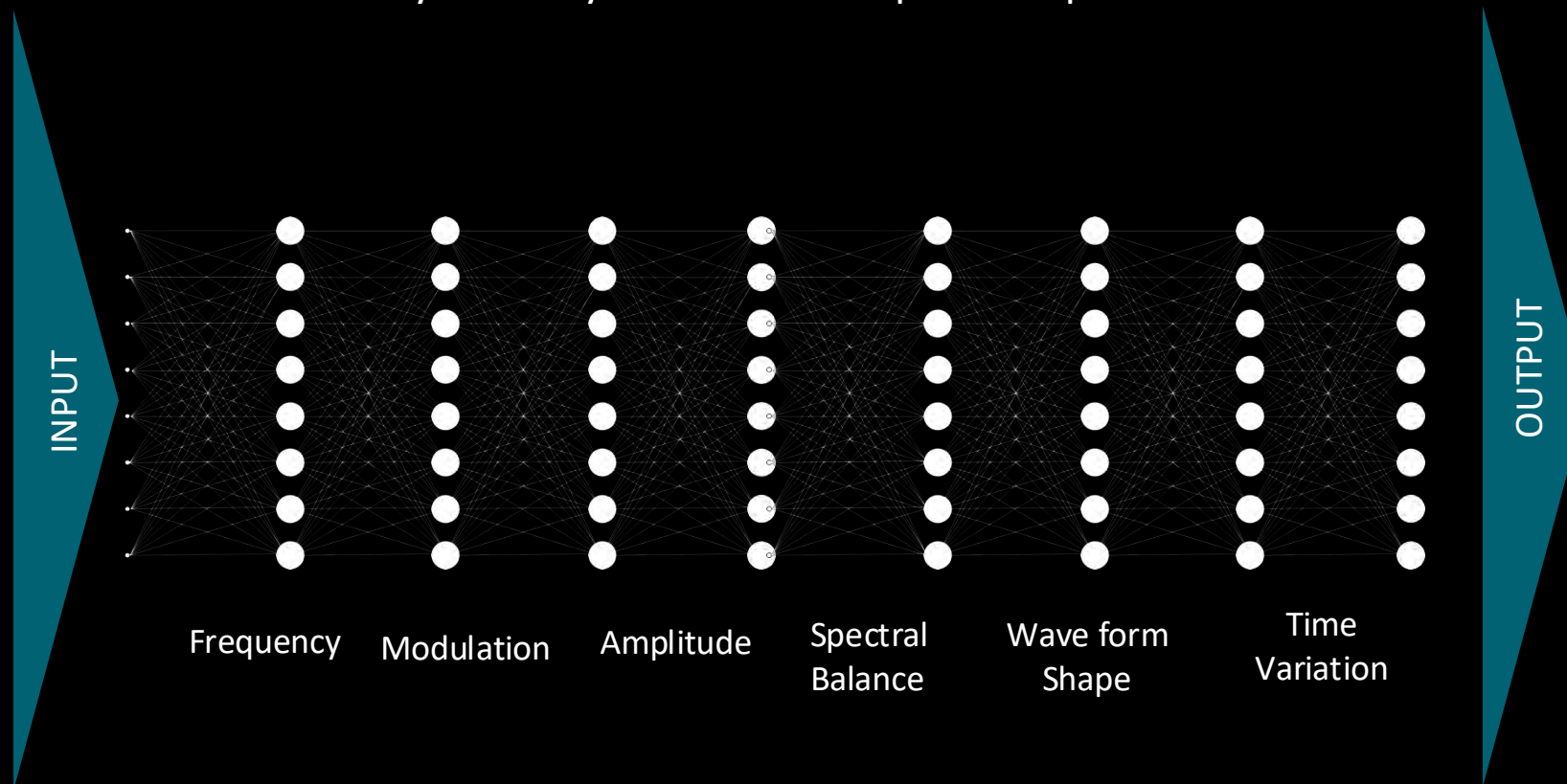
output layer



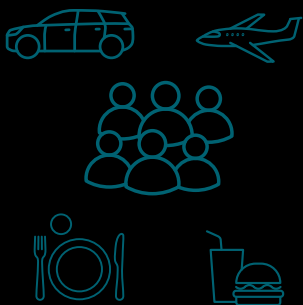
What the network is trained on is important

We used real life **speech in noise** sentences
where the **noise can be classified as noise by everyone**

Layers – each layer studies a different aspect of the input



The output of the DNN is compared to the speech in the sample and then the model resets the weights and iterates again.



Noise examples:

- Traffic Noise
- Airplane noise
- Multi-talker babble
- Cafeteria noise
- Cutlery on plates

Training the DNN

We've trained the DualChip on

**13.5
million**

speech sentences

We've worked across

**3.9
million**

tuned sound parameters

So, the DualChip can do

**4.9
trillion**

operations per day

**So advanced and efficient,
it fits into the smallest AI hearing aid**

ReSound Vivia with DualChip

**17 times more efficient than
other leading hearing
solutions with AI***

*compared to other leading brands with 4-mic beamformer and DNN noise reduction

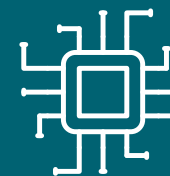
17 times more efficient than other leading hearing solutions with AI*



DNN applied together with directional beamformer

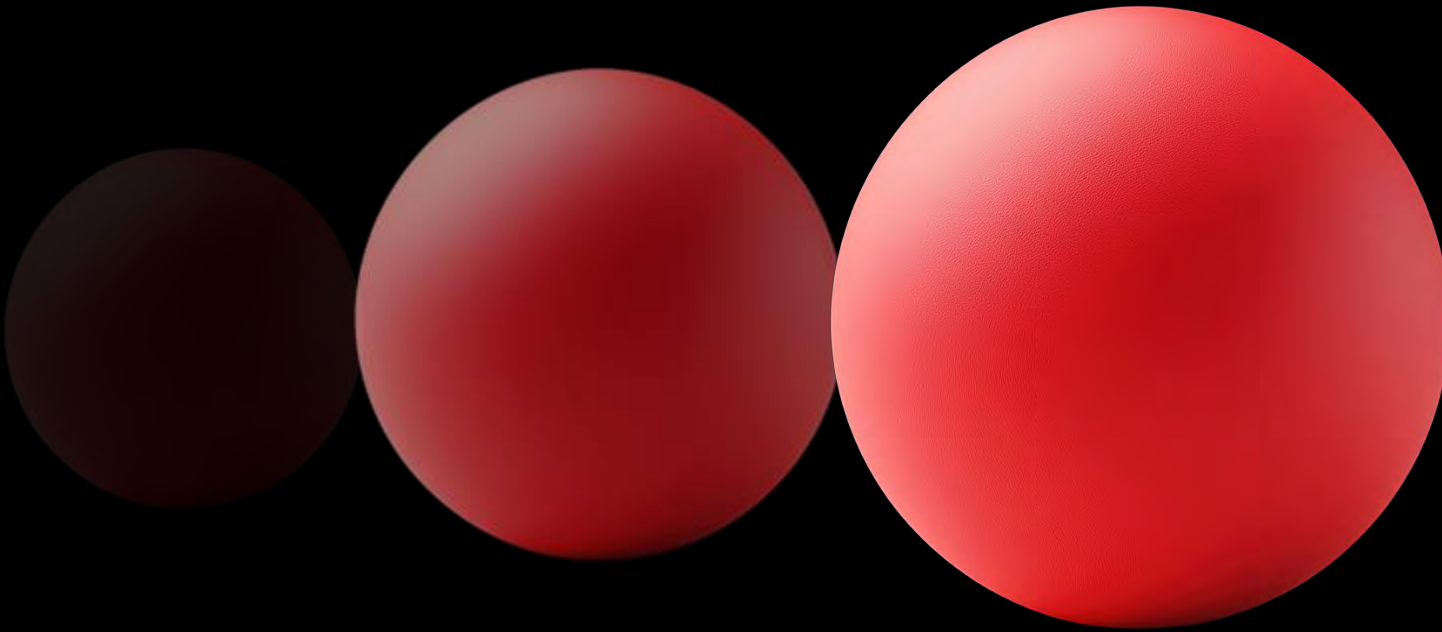


DNN trained with 13.5 million real-life conversations in noise



DNN architecture optimized for efficiency and longer battery life

In which direction is the ball moving?

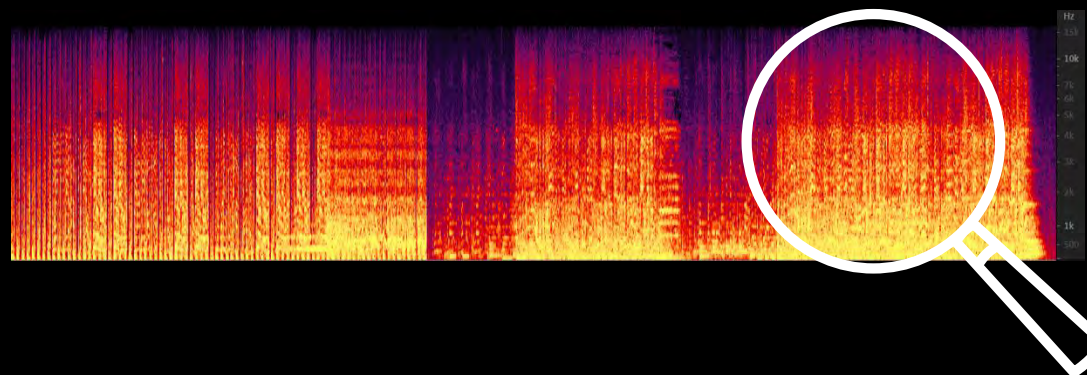


Recurrent neural network

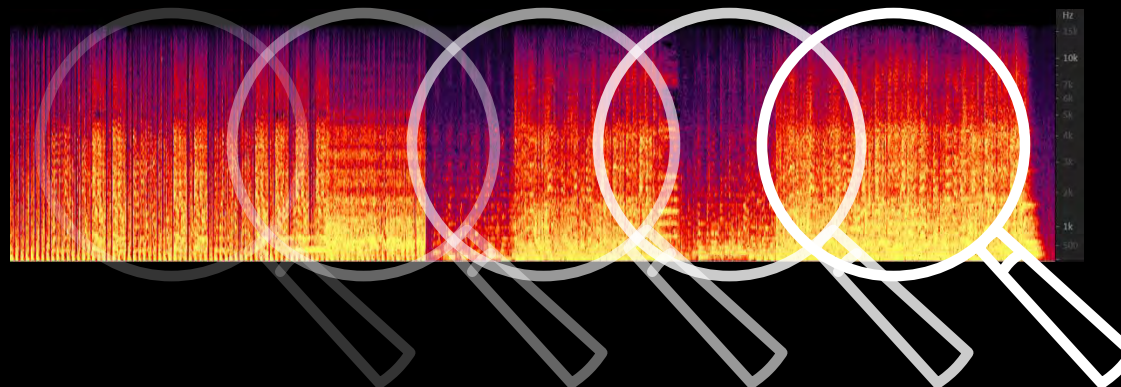
Uses information from the past to make
more accurate and faster predictions

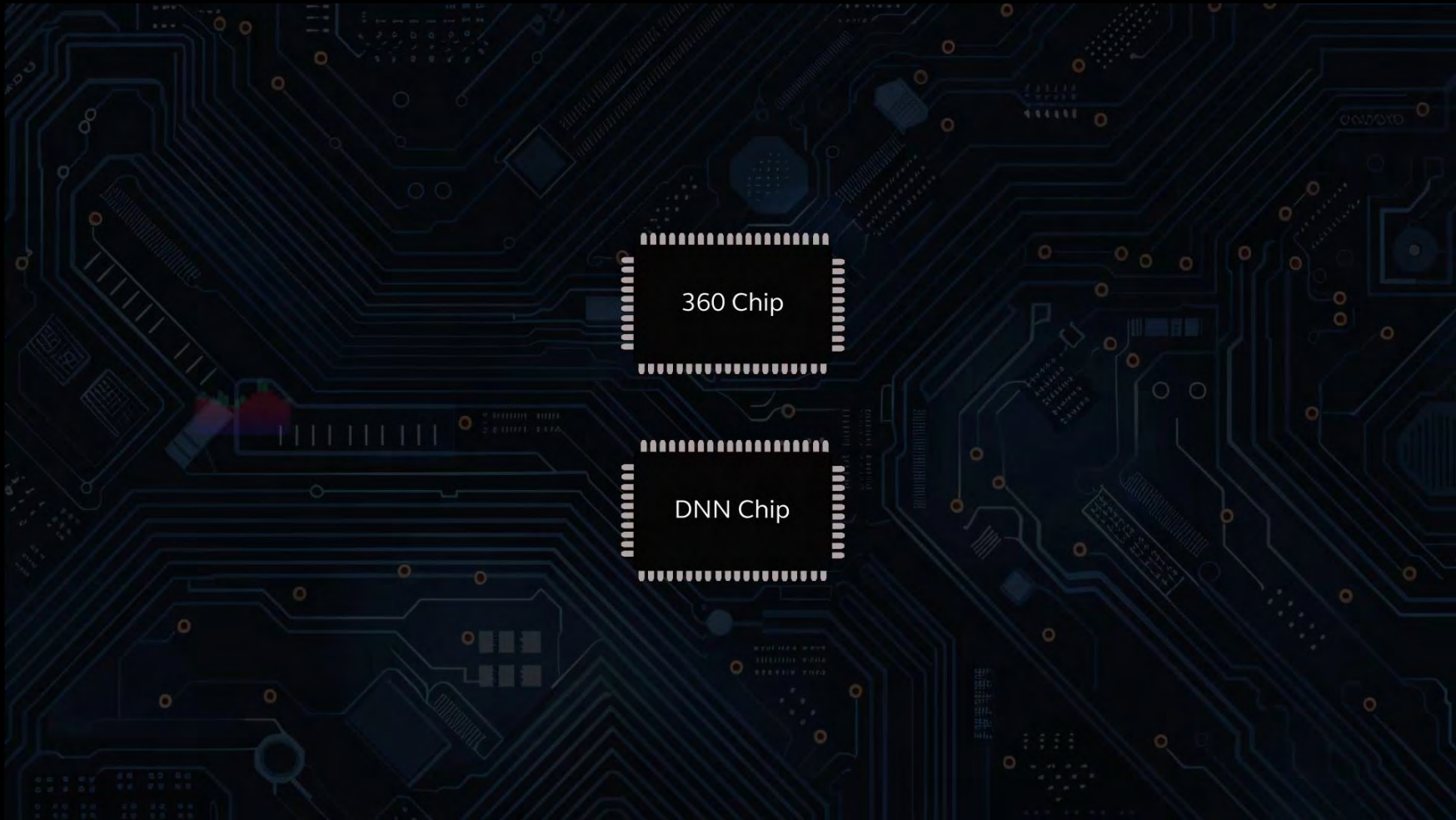
Faster predictions with longer battery life

Other methods



ReSound





Intelligence Augmented

Help, not replace the human

Intelligence Augmented

- We call our approach to AI, **Intelligence Augmented™**.
It may be a small, but important, distinction from the term AI.
'Augment' suggests that the machine is designed to **assist the human in solving the problem**, while 'artificial' implies a more machine-centered solution that the human is presented with.
- We **augment the hearing aid user's decisions** by being careful to not take out all the noise but to use our system to decrease known noise and spotlight speech in front.
- The combination of the four-microphone beamformer and the Intelligent noise reduction is the **next generation of AI for hearing in noisy environments**.
- The user is empowered by delivering an acoustic scene that is easier to act on but **leaves them completely in control of what they want to hear**.

To Summarize:

Program 1

360 All-Around



Industry best hearing in noise without cutting you off from sounds around you¹



Industry most narrow beamformer to spotlight speech in front²

Program 2

Intelligent Focus

89%

Prefer Intelligent Focus when hearing in noise compared to legacy³

64%

Experience better hearing in noise compared to other leading AI hearing solutions⁴

Auracast for all

The future of universal connectivity

Across all technology levels of
our latest portfolio

Best-in-class Bluetooth connectivity

Enjoy the clearest Bluetooth experience ever
with **Bluetooth LE Audio & Auracast**

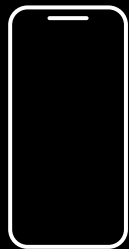
Easy **hands-free calls**
for iPhone, iPad and Android*

Hear clearly in every situation
at the volume you prefer with
TV-Streamer+ and Multi-Mic+



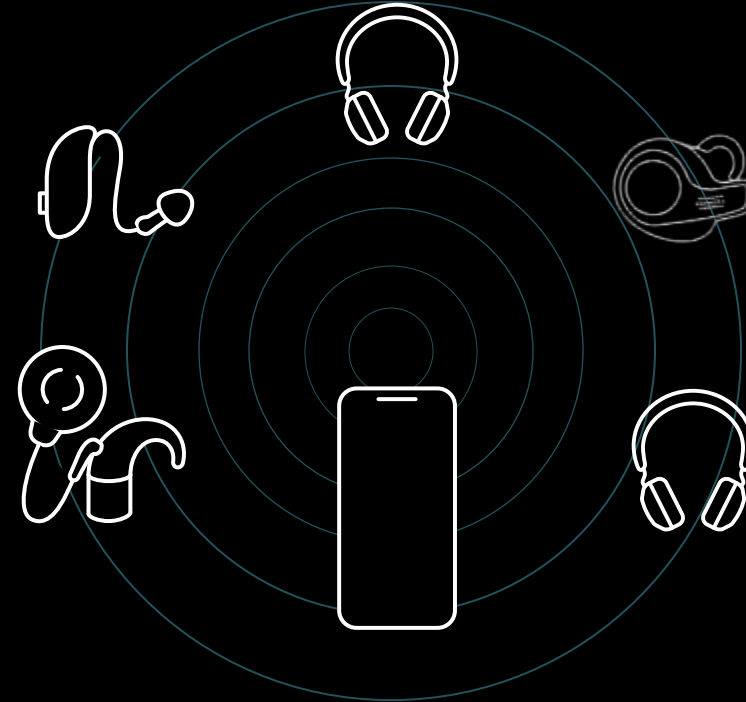
*Hands-free calls are compatible with iPhone 11 or later, iPad Pro 12.9-inch (5th generation), iPad Pro 11-inch (3rd generation), iPad Air (4th generation), iPad mini (6th generation), iPad (10th generation) or later, with software updates iOS 15.3 and iPadOS 15.3 or later. Bluetooth LE Audio works with Beltone Commence and compatible mobile devices with Bluetooth 5.3 or later. Check compatibility on gnhearing.com/products/compatibility-beltone

What is Auracast broadcast audio?



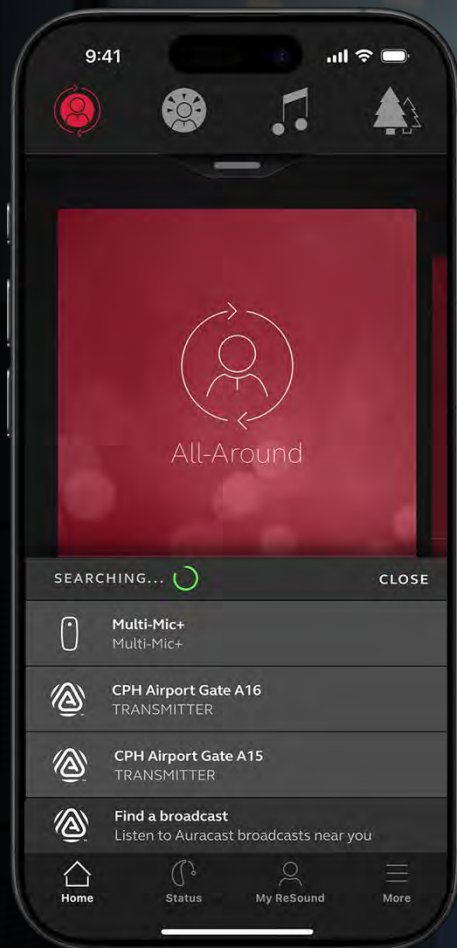
Classic Bluetooth

Only allows for one-to-one communication
between devices



Auracast broadcast audio

Auracast will allow electronic devices to
broadcast audio simultaneously to an
unlimited number of nearby audio
devices with Bluetooth LE Audio



World's first
Connect to Auracast
streams with your
app*

ReSound Smart 3D™ with
Auracast Assistant

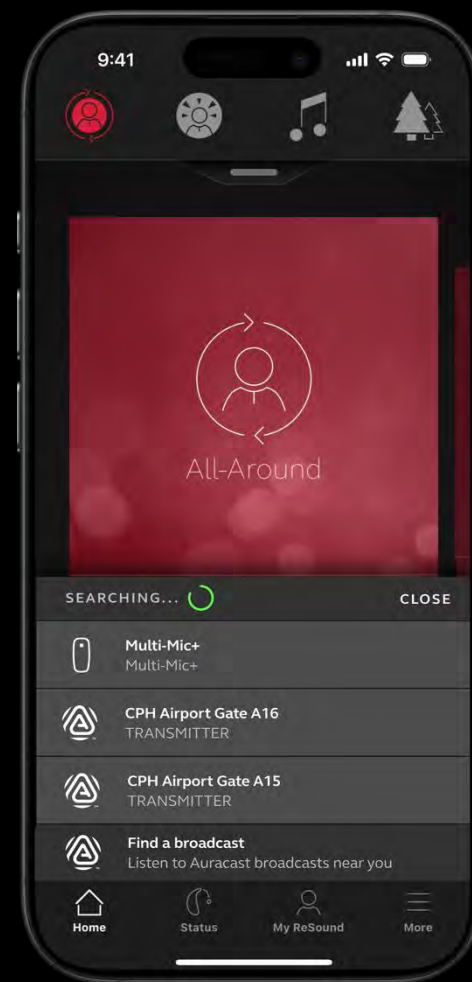
* From version 1.39



Bringing Auracast for All

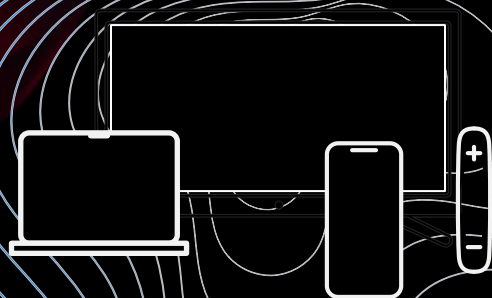
World's first Auracast Assistant for hearing aids

Connect to any Auracast stream via our app
without the concern of compatibility



Auracast™ Transmitter

(television, laptop, TV-Streamer+ Multi-Mic+...)



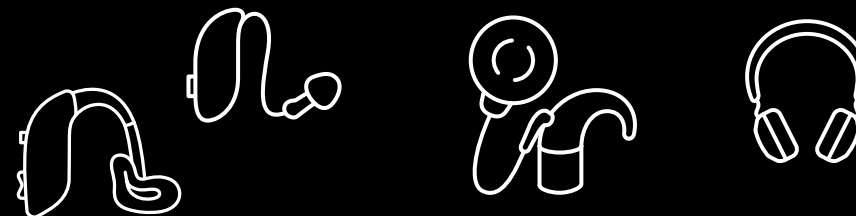
Auracast Assistant

(ReSound Smart 3D app, smartphone, smartwatch...)

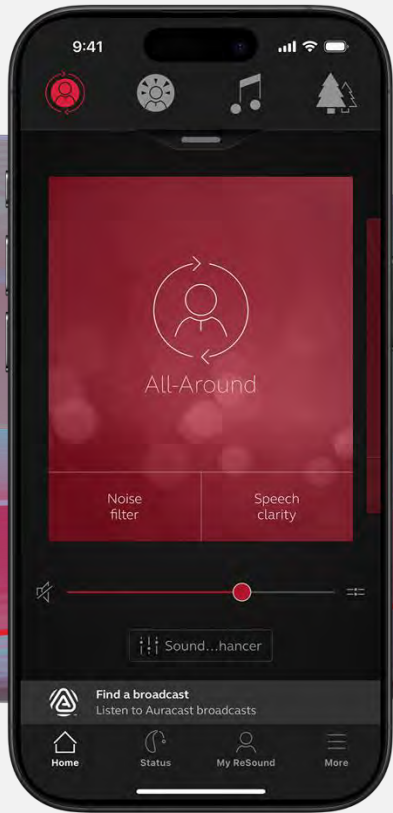


Auracast Receiver

(Hearing aids, cochlear implants, headphones, earbuds...)



New ReSound Smart 3D app with Auracast Assistant



Find a broadcast



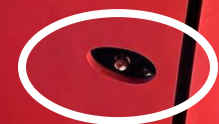
Select a broadcast

Lincoln Center Alice Tully Hall

LOCATION
1941 Broadway
New York, NY

CAPACITY
1,085 Max

SQUARE FEET
9468



The **187- person ensemble** was broadcasted via Auracast

“The opportunity to hear my own music over Auracast was irresistible –and it exceeded my expectations. I could not be happier.

Richard Einhorn, composer

“I was blown away. For first time I could hear the plucking on the cello and the violin.

Participant

“The concert moved me to tears and left me speechless. What a game changer!

Participant

“The fusion of art and technology is becoming seamlessly interconnected, creating a truly powerful experience.

Participant

Resources 2 min read

Auracast Hearing Aids Previewed in New York City

Written by
Andrew Bellavia

Published on
November 5, 2024

Auracast™ Audio. Better than the original?



Nick Hunn
CTO at WiFore



November 6, 2024

If you've not heard of Auracast™, it's time to find out about it. It's part of the new Bluetooth Low Energy Audio specifications which support broadcast audio. What that means is that it allows individuals and places to share an audio stream, so that multiple people can listen to the same thing.

Auracast builds on the telecoil experience, which has been part of hearing aids for many years, but supports a new codec, called LC3. This can be used to generate high quality audio with such a low latency that the Bluetooth stream can reach your ears at the same time as the ambient stream. Last week, Auracast had its first major public demonstration in the US at a performance of Richard Einhorn's "Voice of Light" in the Lincoln Centre in New York. A number of users, both with and without hearing loss were able to hear how it works. I was one of





Multi-Mic+

With the world's first remote mic featuring Auracast, educators, presenters, event hosts, and tour guides can broadcast their voice to multiple listeners.



TV-Streamer+

The TV-Streamer+ supports Auracast, allowing an unlimited number of Auracast-enabled devices to listen to a TV audio stream.



Now with AutoStreaming

Configurable in the
ReSound Smart 3D app and
fitting software

ReSound GN



Multi-Mic+

AutoStreaming
Default ON



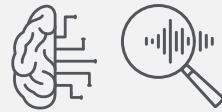
TV-Streamer+

AutoStreaming
Default OFF

ReSound Vivia: World's best for hearing in noise¹⁻⁴



World's smallest AI hearing aid



Intelligent Focus with DNN



DualChip



All-day battery



World's first Auracast Assistant



Industry leading CROS

 AURACAST™

89%

preference for Intelligent Focus when hearing in noise³



Clear Focus

New colors



Exchangeable mic filters

3 RIE styles



Now with AutoStreaming

Top 3 reasons to recommend ReSound Vivia & ReSound Savi

- 1 **Intelligence Augmented** | A human approach
- 2 **Connectivity** | Bluetooth® LE Audio & Auracast™
- 3 **You can have it all** | Top 6 important factors for patients

Intelligence Augmented Philosophy

ReSound Philosophy

Help from the
machine



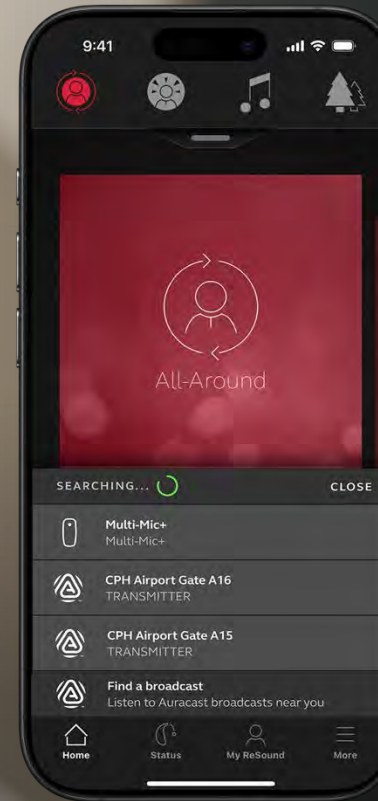
To **empower**
the **human**

To **empower the machine**



To help
human

Setting the standard: Auracast for all



Tech level

9

7

5

4

3

2

Bluetooth LE Audio and Auracast across all
technology levels

Top 6 important factors for users:


Cosmetics


All-day
battery


Hear in noise


State-of-the art
Connectivity


Ease of use


Comfort



You can have it all with ReSound Vivia and Savi



Empowering hearing evolution

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