

**Getting Started
with **Dynamo****



A quick fitting guide for Dynamo



Dynamo Product Family

The Dynamo Super Power solution uses a powerful combination of BrainHearing™ technologies to provide more speech details for super power users while providing tools which support you in transitioning the patient to a new sound system.

Dynamo is built on the powerful Inium Sense platform to provide the listener with a rich soundscape—including access to more speech details than ever before.

Dynamo is available in four models:

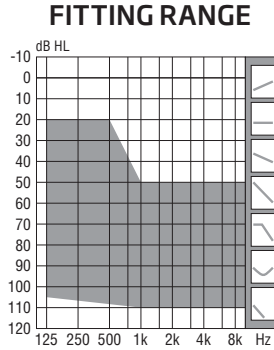
Dynamo	SP 10 Premium	SP8 Advanced	SP6 Essential	SP4 Basic
Speech Guard E Captures and preserves the intensity and contrasts of the speech signal	•	•		
Speech Rescue™ Lowers high frequencies to ensure full access to inaudible sounds	•	•	•	•
Inium Sense feedback shield^{SP} Specifically adapted to super power output levels	•	•	•	•
YouMatic Personalization tools help ease transition to new technology	Premium	Advanced	Essential	Basic

Consult Dynamo product brochure for full feature listing.

Fitting Range

OSPL90 139

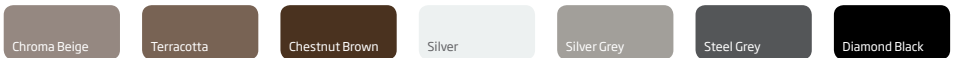
FOG Peak 78dB



Programming Devices

Hearing Instrument	Wireless Programming	Programming with cable
Dynamo	FittingLink	White programming module and Oticon #3 cable

Colors



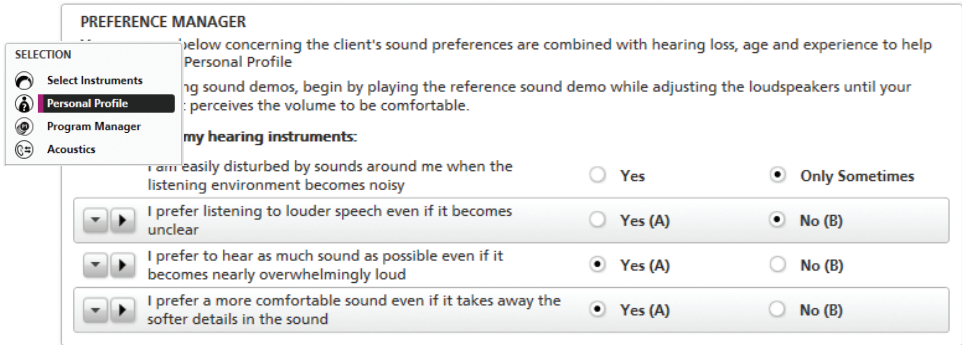
Fitting Options in Genie

- **Overall Loudness Control** – quick volume adjustment, links MPO to preserve compression ratios, facilitating initial programming comfort
 - **Frequency Lowering with Speech Rescue™** – with Oticon’s “copy and keep” approach, patients can experience greater access to the details of speech
 - **New personalization questions tailored for power users** – improves the power patient’s involvement in the fitting process, better accounting for the variations in hearing sensitivity often seen in this population
 - **Feedback Manager enhanced for Dynamo** – Inium Sense feedback shield^{SP} uses an extended Low Frequency Operating Range designed to accommodate potential feedback areas specific to super power instrument users
 - **Automatics Manager and Bass Compensation** – expands the flexibility for low frequency restoration when Dynamo is in the full directional mode
 - **Fitting Rationale Options** – allows for patient’s signal processing preferences
 - ◇ DSE
 - ◇ DSE Linear
 - ◇ DSL Adult and Pediatric Versions
 - ◇ Nal-RP
 - **Bimodal fitting protocol** – fitting guidance for patients using Dynamo and a cochlear implant
-



Personalization for All Power Users

Because power users know what they like, the personalization process is expanded to include questions that better capture the variations in sound preferences experienced by this group. These questions appear when the hearing loss average for 250Hz, 500Hz, and 1000Hz is over 60dB.



Sound samples can be presented to power users with their hearing devices on through headphones, or via loudspeakers, depending on the patient’s hearing loss and your clinic setup.

Personal Profiles By Model

Dynamo Instrument	# of Personal Profiles	Profiles
Dynamo SP 10	5	Lively, Exact, Balanced, Gentle, Steady
Dynamo SP 8	3	Exact, Balanced, Gentle
Dynamo SP 6	3	Exact, Balanced, Gentle
Dynamo SP 4	1	Balanced

Transitioning Super Power Users

The challenge of transitioning this patient group to new hearing devices is always a consideration. Genie assists you and the patient in the fitting process. In addition to the new personalization questions, Genie provides two controls which help provide the patient with a comfortable first impression.

Overall Loudness Control

The Overall Loudness Control, located in the Fitting Screen, can be linked or set to each ear individually. With a few clicks, the MPO and the Gain change without adjusting compression ratios for an agreed upon starting point.

The screenshot shows the Fitting Screen with a sidebar on the left containing 'FITTING', 'P1', 'Controls', 'Automatics Manager', and 'Program Manager'. The main area is titled 'CONTROLS' and is split into two sections: 'OVERALL LOUDNESS' for the left ear and 'OVERALL LOUDNESS' for the right ear. Each section has a volume slider set to 0, which is circled in red. Below each slider is a table of frequency response data.

	All	250	500	750	1k	1.5k	2k	3k	4k	6k
MPO	110	111	112	113	114	120	120	116	116	116
Loud	21	25	27	27	29	36	36	37	45	45
Moderate	31	36	37	38	40	47	47	47	48	48
Soft	37	42	44	44	47	55	52	47	48	48

	All	250	500	750	1k	1.5k	2k	3k	4k	6k
MPO	116	120	122	122	118	119	116	114	116	116
Loud	29	35	36	36	33	35	32	34	45	45
Moderate	40	46	47	47	44	46	43	45	48	48
Soft	45	52	54	53	51	54	49	47	48	48

Adjusting Fitting Rationales

Dynamo defaults to Oticon's proprietary DSE Fitting Rationale, designed to help address fitting difficulties in severe to profound losses where dynamic ranges are severely reduced. The DSE Linear version allows for additional flexibility if the patient prefers a true linear processing.

The screenshot shows the Fitting Screen with a sidebar on the left containing 'FITTING', 'P1', 'Controls', 'Automatics Manager', and 'Program Manager'. The main area is titled 'MAIN OPTIONS' and is split into three sections: 'GENERAL', 'RATIONALE', and 'PERSONAL PROFILE'. The 'RATIONALE' section has a dropdown menu with 'DSE' selected, which is circled in red. Below it, 'DSE Linear' is also circled in red. The 'PERSONAL PROFILE' section has a dropdown menu with 'Balanced' selected.

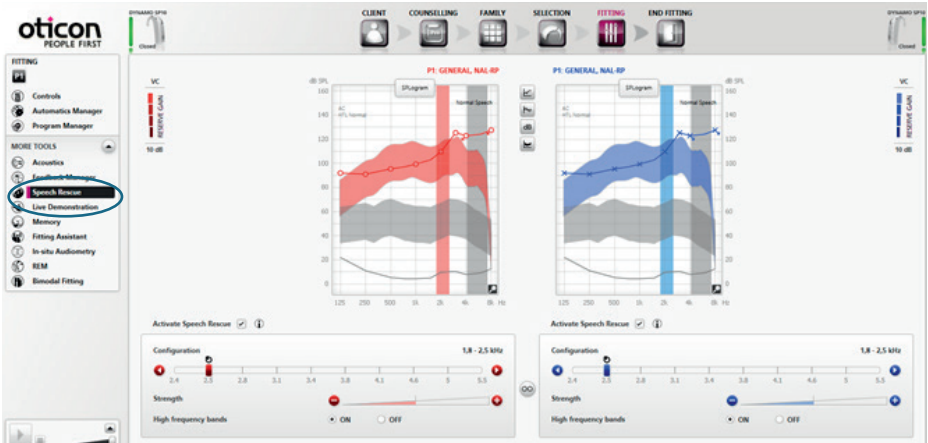
MAIN OPTIONS	RATIONALE	PERSONAL PROFILE
General Conversation In N Music Lecture Comfort In Noise Teletail (ALD) MT (ALD)	DSE NAL-NL1 NAL-NL2 DSE Linear DSL v5a, Adult DSL v5a, Pediatric NAL-RP	Lively Exact Balanced Gentle Steady

Speech Rescue – Accessing an Audible and Usable Signal

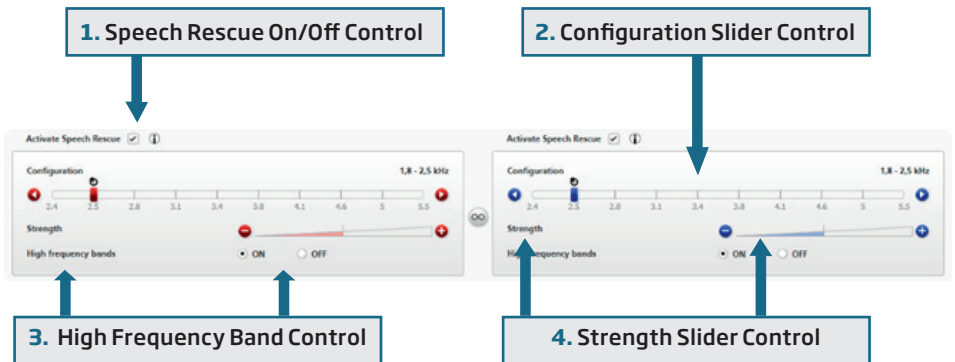
Speech Rescue works with **Speech Guard E** to preserve speech cues by minimizing distortion. First the signal is replicated and placed in an audible frequency range by Speech Rescue. Then the signal is carefully amplified with Speech Guard E to preserve the dynamics of the lowered signal.

About Speech Rescue:

- Speech Rescue defaults to **Off** since it should be a conscious choice whether to activate for each patient
- Click on Speech Rescue Tab to access controls for activation and fine tuning
- Speech Rescue settings are computed automatically for quick and easy fitting



Adjusting Speech Rescue



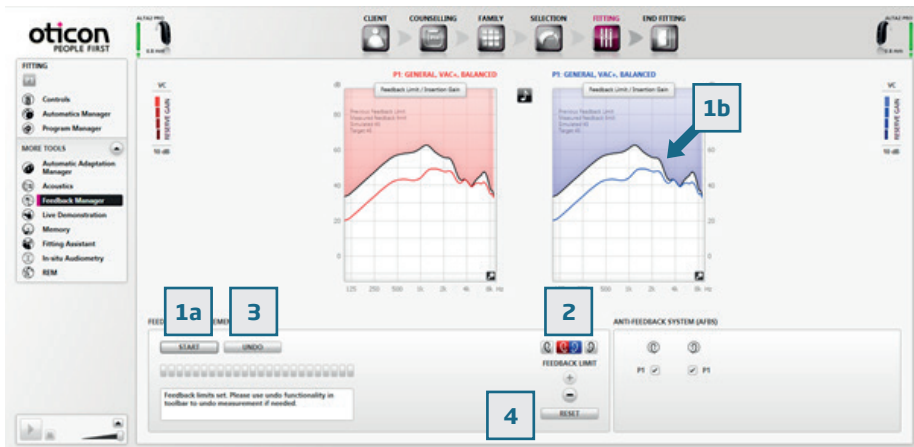
The Speech Rescue controls allow for more fine tuning of the replicated signal. Speech Rescue is prescribed separately for each ear and defaults to linked.

Controls

1. Speech Rescue ON/OFF selector
2. Configuration Slider: adjusts source and destination regions; original setting is automatically programmed based on the audiogram
3. High Frequency Bands ON/OFF selector: the source high frequency bands maybe removed if preferred by the patient or fitter. By default, they will be On to provide the broadest signal possible
4. Strength Slider Control: adjusts the amplitude (volume) of the replicated signal

Inium Sense feedback shield^{SP}

The Inium Sense feedback shield^{SP} in Dynamo has been adapted for super power outputs. It is suggested, but not required, that you run the feedback manager before you begin to fine tune Dynamo. This provides the patient with their maximum gain potential while reducing the risk of feedback right from the start.



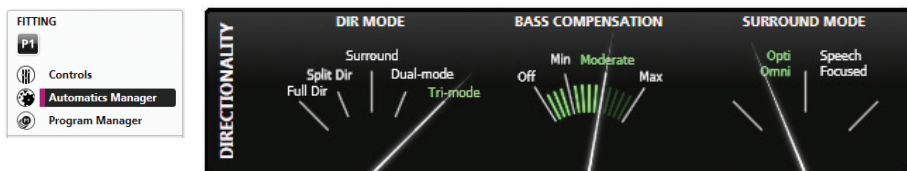
Adjusting the Controls

- 1a. Start Button
- 1b. A feedback limit-curve is displayed once a feedback measurement has been completed.
2. Feedback Limits: adjusts the feedback limit in 1 dB steps. When gain has been reduced, it will be compensated up to the original gain setting (dB per dB).
3. UNDO: restores the settings in use prior to entering the Feedback Manager.
4. RESET: reset the feedback limits but keeps the original gain settings.

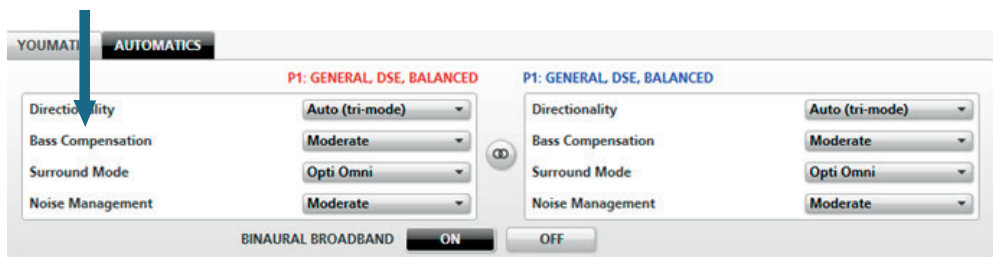
Bass Compensation and Full Directional Mode

Dynamo introduces Free Focus Directionality into Super Power by expanding the flexibility of the Bass Compensation Control. Dynamo has two additional settings for low frequency compensation to be able to provide a more acceptable loudness level when the instrument is in the full directional mode.

Located in the Automatics Manager, the Bass Control allows you to select Off, Min, Moderate or Max. These settings represent the 0%, 25% 50% and 75%, respectively, of low frequency restoration. The default setting will be Moderate.



The Bass Compensation setting appears in a new readout in the Directionality portion of the Automatics screen (pictured above). Based on the patient's experiences in the full directional mode, the setting can be modified in the Youmatics Screen.

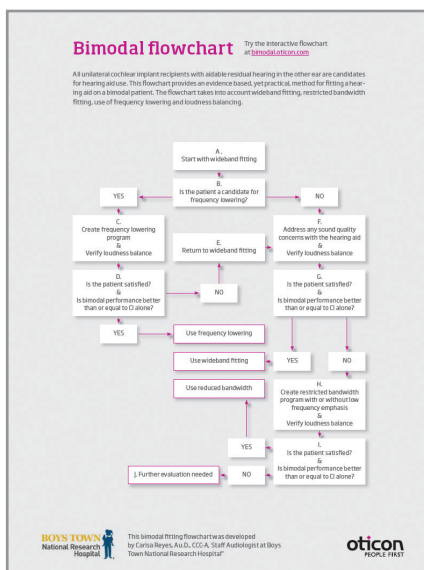
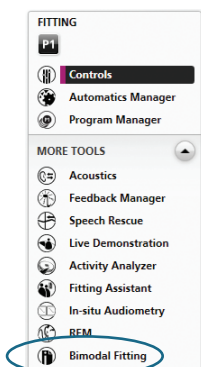


Bimodal Fitting Protocol

Oticon's Bimodal Fitting Protocol is designed to work in a complementary manner for patients with a unilateral cochlear implant of any brand, while being fit with a Dynamo on the contralateral side.

Developed by experts at the Boys Town National Research Hospital, the protocol can be accessed in Genie under "Bimodal Fitting." The protocol guides you through balancing loudness and frequency shaping. The purpose is to provide your patient with the best possible acoustic settings in conjunction with the CI mapping.

Fitting Screen



You can review Oticon's white paper "Bimodal Hearing Aid Fitting Guidelines" on www.MyOticon.com for more information.

Enhanced Connections – More Engagement

Connectline offers newfound freedom for your patients to use their cell phones, watch TV with friends and family, or listen to music by wirelessly sending the signal to the user's instruments.

Many patients have found the ConnectLine Microphone has helped them more easily participate in conversations. Worn by the conversation partner, the Microphone sends the wearer's voice to the Dynamo instruments. The system is controlled with Oticon's sleek and intuitive Streamer Pro.



To Learn More

For more information about fitting Dynamo, contact the Technical Support Audiology Group at 1 (855) 400-9762

For general information regarding the next generation of BrainHearing™ technologies visit us online at MyOticon.com.

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to empower people
to communicate freely,
interact naturally and
participate actively

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