UNIQUE TRUE-INPUT TECHNOLOGY™

- True-Input Technology in UNIQUE ensures that the hearing aid works optimally in all environments – from very soft to very loud sounds.
- The analog-to-digital converter in True-Input Technology has been designed by Widex to meet customers’ expectations of excellent sound quality even in very loud sound environments.
- Other comparable hearing aids can process sounds up to 92-106 dB SPL without dampening or clipping the input.
- Widex hearing aids with True-Input Technology linearly handle sounds up to an industry-leading 113 dB SPL – offering sound that is true-to-life.
- With an industry-leading dynamic range of 108dB, True-Input Technology in UNIQUE preserves soft details in quiet environments.

| LOUD MUSIC, SPORTS ARENA | -110 |
| LARGE FAMILY GATHERING | -100 |
| CONVERSATION IN CITY NOISE | -90 |
| CONSTRUCTION SITE / TRAFFIC NOISE | -80 |
| 60-90 dB SPL | -70 |
| 50-60 dB SPL | -60 |
| FALLING LEAVES | -50 |
| 10-20 dB SPL | -40 |
| 20-30 dB SPL | -30 |
| ALONE AT HOME | -20 |
| WHISPER | -10 |
| 0 dB SPL | -0 |

GOAL

A hearing aid that works when you need it most – in challenging situations with loud sounds around you.

Excellent sound quality in very loud sound environments, e.g. loud music, parties, walking on busy city streets, etc.

Excellent speech intelligibility in loud sound environments.
ORIGINAL INPUT

- A simple pure tone input is illustrated as an example
- The signal analysis shows only one frequency

CONVENTIONAL INPUT HANDLING

- A limited input range causes the signal to be clipped in the A/D converter
- The signal analysis shows a lower amplitude for the signal frequency
- Harmonic distortion is created when the signal is clipped

TRUE-INPUT TECHNOLOGY™

- The signal is processed without clipping
- The analysis shows only one frequency as the original
- Correctly processed signal offers true-to-life sound

SOUND QUALITY

- Limited input range in conventional hearing aids causes the signal to be clipped
- With TRUE-INPUT TECHNOLOGY, Widex has been able to increase the input range to an industry-leading 113 dB SPL
- The new and improved Widex proprietary hardware technology offers true-to-life sound quality even in very loud sound environments

SPEECH INTELLIGIBILITY

- TRUE-INPUT TECHNOLOGY offers the best input for excellent signal processing
- The performance of the HD Locator and the Speech Enhancer is based on analysis of the incoming signal
- The analysis is highly dependent on the quality of the processed signal
- TRUE-INPUT TECHNOLOGY ensures that the quality of the signal is excellent in soft, medium, loud and even very loud sound environments
- The HD Locator and the Speech Enhancer perform optimally even in very loud sound environments