

# Technical data sheet

## BTE UP

120

|                                      | Xceed 1                              | Xceed 2                          | Xceed 3                          |
|--------------------------------------|--------------------------------------|----------------------------------|----------------------------------|
| Speech Understanding                 | OpenSound Navigator™                 | Level 1                          | Level 2                          |
|                                      | - Balancing power effect             | 100%                             | 50%                              |
|                                      | - Max. noise removal                 | 9 dB                             | 5 dB                             |
|                                      | OpenSound Optimizer™                 | •                                | •                                |
|                                      | Noise Reduction LX                   | -                                | -                                |
|                                      | Multiband Adaptive Directionality LX | -                                | -                                |
|                                      | OpenSound Booster™                   | •                                | •                                |
|                                      | Speech Guard™ LX                     | Level 1                          | Level 3                          |
|                                      | Single compression LX                | -                                | -                                |
|                                      | Speech Rescue™ LX                    | •                                | •                                |
| Sound Quality                        | Clear Dynamics                       | •                                | -                                |
|                                      | Spatial Noise Management             | •                                | -                                |
|                                      | Processing Channels                  | 48                               | 48                               |
|                                      | Bass Boost (streaming)               | •                                | •                                |
| Listening Comfort                    | Transient Noise Management           | 4 configurations                 | 3 configurations                 |
|                                      | Feedback shield LX                   | •                                | •                                |
|                                      | Wind Noise Management                | •                                | •                                |
| Personalisation & Optimising Fitting | YouMatic™ LX, NR levels              | 3 configurations                 | 2 configurations                 |
|                                      | Fitting Bands                        | 14                               | 12                               |
|                                      | Multiple Directionality Options      | •                                | •                                |
|                                      | Adaptation Management                | •                                | •                                |
|                                      | Oticon Firmware Updater              | •                                | •                                |
|                                      | VC range and step size               | •                                | •                                |
| Connecting to the World              | Fitting Formulas                     | DSE, VAC+, NAL-NL1 + 2, DSL v5.0 | DSE, VAC+, NAL-NL1 + 2, DSL v5.0 |
|                                      | Stereo streaming (2.4 GHz)           | •                                | •                                |
|                                      | Oticon ON App                        | •                                | •                                |
|                                      | ConnectClip                          | •                                | •                                |
|                                      | Remote Control 3.0                   | •                                | •                                |
|                                      | TV Adapter 3.0                       | •                                | •                                |
|                                      | Phone Adapter 2.0                    | •                                | •                                |
|                                      | Amigo FM                             | •                                | •                                |
|                                      | Tinnitus SoundSupport™               | •                                | •                                |
|                                      | CROS/ BiCROS support                 | •                                | •                                |
|                                      | Bimodal fitting panel                | •                                | •                                |

### Conditions of Use

#### Operating conditions

Temperature: +1°C to +40°C (34°F to 104°F)

Humidity: 5% to 93% relative humidity, non-condensing

Atmospheric pressure: 700 hPa to 1060 hPa

### Storage and transportation conditions

Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage.

Temperature: -25°C to +60°C (-13°F to 140°F)

Humidity: 5% to 93% relative humidity, non-condensing

Atmospheric pressure: 700 hPa to 1060 hPa



Oticon Xceed BTE UP is an ultra power hearing aid with a 675 battery. The style has separate push buttons for programs and volume for easy usage and control. It features T-coil, optional LED indications and FM support.

OpenSound Navigator™ helps power users to select and understand speech even in challenging sound environments by balancing the sound sources and suppressing background noise.

OpenSound Optimizer™ enhances both listening experience and comfort by blocking feedback and allowing the users to receive prescribed gain.

TwinLink™ wireless technology combines binaural communication and streaming, and 2.4 GHz connectivity for stereo streaming directly from digital sound sources.

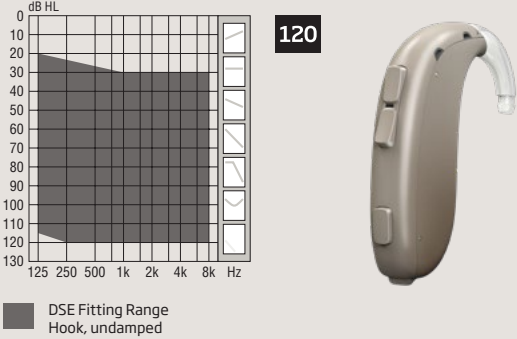
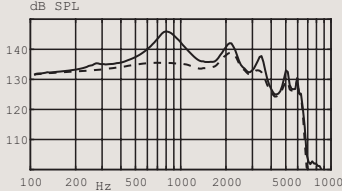
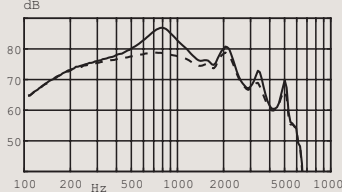
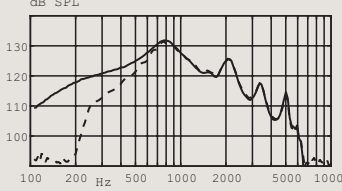
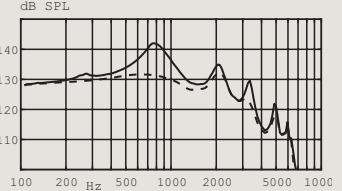
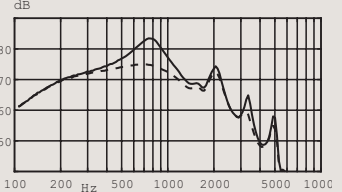
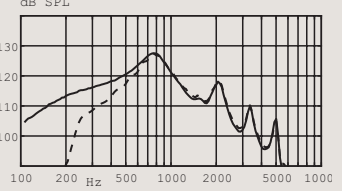
Oticon Xceed is built on the Velox S™ platform using a programmable firmware architecture supporting future performance updates.



IP68

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| Technical data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             | Ear Simulator<br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV and<br>IEC 60318-4:2010                                                                                                                                                                                                                                                                                                                                        | 2CC Coupler<br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>120</p> <p>DSE Fitting Range<br/>Hook, undamped</p> <p><b>Technical information</b><br/>Omnidirectional mode is used unless otherwise stated.</p> <p><b>Warning to the instrument dispenser</b><br/>The maximum output capability of the hearing aid may exceed 132 dB SPL. Special care should be exercised in selecting and fitting the instrument, as there may be risk of impairing the remaining hearing of the hearing aid user.</p> |                                             | <p><b>OSPL90</b></p>  <p><b>Full-on Gain</b></p>  <p><b>Frequency Response</b></p>  <p>— Standard tube, undamped hook<br/>--- Standard tube, damped hook</p> <p>— Acoustic input: 60 dB SPL<br/>--- Magnetic input: 31.6 mA/m</p> | <p><b>OSPL90</b></p>  <p><b>Full-on Gain</b></p>  <p><b>Frequency Response</b></p>  <p>— Standard tube, undamped hook<br/>--- Standard tube, damped hook</p> <p>— Acoustic input: 60 dB SPL<br/>--- Magnetic input: 31.6 mA/m</p> |
| OSPL90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Peak<br>1600 Hz<br>HFA-OSPL90               | 146 dB SPL<br>136 dB SPL<br>138 dB SPL                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 142 dB SPL<br>128 dB SPL<br>130 dB SPL                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Full-on gain <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Peak<br>1600 Hz<br>HFA-FOG                  | 87 dB<br>76 dB<br>77 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 83 dB<br>69 dB<br>69 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reference test gain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             | 61 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 53 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             | 100-6000 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 100-5300 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Telecoil output (1600 Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 mA/m field<br>10 mA/m field<br>SPLITS L/R | 111 dB SPL<br>126 dB SPL<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -<br>-<br>112 dB SPL                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Total harmonic distortion<br>(Input 70 dB SPL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 500 Hz<br>800 Hz<br>1600 Hz                 | 11 %<br><2 %<br>3 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9 %<br><2 %<br>3 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Equivalent input noise level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Omni<br>Dir                                 | 19 dB SPL<br>35 dB SPL                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 23 dB SPL<br>38 dB SPL                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Battery consumption <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Typical<br>Quiescent                        | 1.8 mA<br>1.5 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4.1 mA<br>1.5 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Battery life, artificial measurement, hours <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             | 370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Expected battery life, hours (battery size 675 - IEC PR44) <sup>4</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             | 80-250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

- Measured with the gain control of the hearing aid set to its full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0+A1:1994 but without influence of feedback.
- Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of minimum 3 minutes.
- Based on the standardised battery consumption measurement (IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.
- Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).