

ITE

ITE Power

STAGE



ISG343-P; ISG43-P

Technical Datasheet

The Interton STAGE ITE Power is a new, trimmer-based product supported by the latest digital technology. The modern digital benefits of Stage combined with the traditional trimmer fitting makes this product contemporary, reliable and easy to use. And no computer is needed – you will be able to instantaneously bring your customers to the new STAGE of digital technology by simple adjustment of the trimmers.

Standard Features

- Trimmer-based product, supported by 100% digital signal processing
- 4 channel swift compression (WDRC)
- Noise reduction in all 4 channels
- Expansion
- Delayed activation
- Audible tones:
 - low-battery warning
 - program change
 - delayed activation notification
- On/Off via the battery door

Colours

Beige, Tan, Brown

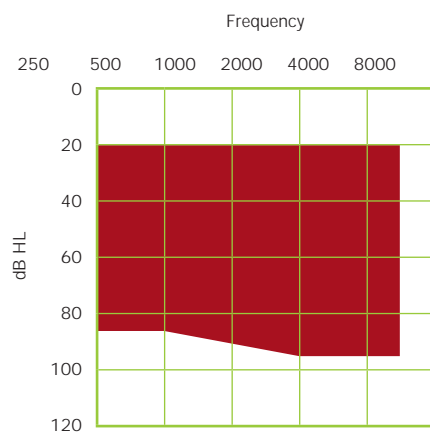
Options

- Analogue volume control
- Push button
- Programs:
 - Basic
 - Noise
 - Telecoil
- Retrieval line
- Telecoil

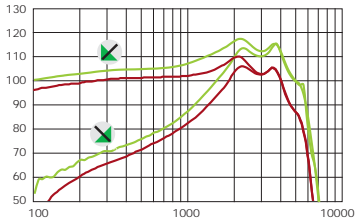
Trimmers

- Fitting is possible through three trimmers:
- Low Frequency Cut (Green)
 - Maximum Power Output (Black)
 - High Frequency Cut (Yellow)
- The following trimmers can be chosen for Stage ITE:
- ISG343-P is for all three trimmers
 - ISG43-P is for other trimmer combinations

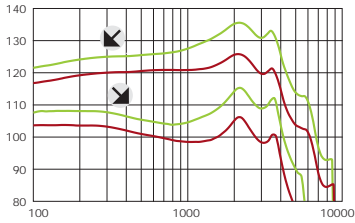
Fitting range



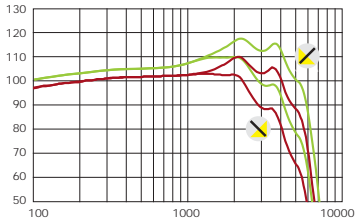
Basic frequency response and effect of low frequency cut



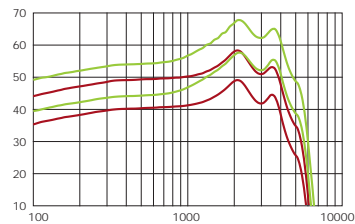
Maximum Output (OSPL90) and effect of MPO control



Basic frequency response and effect of high frequency cut



Full-on and Reference test gain



Legend: O.E.S. (green line), 2cc (red line)

Notes:

O.E.S. = Occluded Ear Simulator
 2cc = 2 cm³ coupler
 Pi = Acoustic input signal

Basic settings:

Full-on Gain, Reference Test Gain
 MPO = Maximum Power Output
 Maximum Band Width

Measured according IEC 118-0 1983, amendment 1994; at 1.3 V and 23°C on O.E.S. according to IEC711 1981, resp on 2cc according to IEC60118-7 2nd edition 2005 (DIN average calculated at 500 Hz, 1000 Hz and 2000 Hz; HFA average calculated at 1000 Hz, 1600 Hz and 2500 Hz; 0 dB SPL sound pressure equals 20µPa). All measurements without DSP features activated unless indicated otherwise.

Electroacoustic Performance

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	IEC 118-7 2cc Coupler	IEC 118-0 Ear Simulator	ANSI S3.22
Acoustic Gain at 1600 Hz (dB) (IEC) Peak value (dB)	53 dB 60 dB	60 dB 68 dB	- 60 dB
Saturation Sound Pressure Level SSPL at 1600 Hz (dB) (IEC) Peak value (dB SPL)	123 dB SPL 126 dB SPL	129 dB SPL 136 dB SPL	- 126 dB SPL
ANSI-HFA Acoustic gain (dB) Saturation sound pressure level (dB SPL)	- -	- -	53 dB 123 dB SPL
Low-frequency limit (Hz) High-frequency limit (Hz)	100 4650	100 5260	100 4650
Harmonic Distortion (THD) at 500 Hz (%) at 800 Hz (%) at 1600 Hz (%)	0.3 % 0.4 % 0.5 %	0.4 % 0.5 % 0.7 %	0.3 % 0.4 % 0.5 %
Equivalent Input Noise (dB)	24 dB SPL	22 dB SPL	24 dB SPL
Power Consumption (mA)	1.1	1.0	1.1
Battery Size	13	13	13
Battery Life	276 hours	290 hours	276 hours
Reference Test Gain	45 dB	53 dB	45 dB

Digital Trimmer Reference

Low Frequency Cut
 Variable up to -30 dB at 500 Hz

Controls the low frequency amplification of the instrument. The control is active in the frequency area between 100 Hz - 3000 Hz. Low frequency sounds will be less amplified by turning the trimmer clockwise, and provide less low frequency gain.



If the sound is too „boomy“, turn the low frequency trimmer clockwise.

MPO Control
 Output varies up to -24 dB

Controls the maximum output sound level of the instrument. The maximum output sound level can be increased by turning the trimmer counter-clockwise.



If the sound is too loud, turn the MPO trimmer clockwise.

High Frequency Cut
 Variable up to -20 dB at 4000 Hz

This control reduces the amplification in the high frequencies. This trimmer can be used for feedback control. High frequency sounds will be less amplified by turning the trimmer clockwise.



If the sound is too „tinny“, turn the MPO and high frequency trimmers clockwise.