Science made smarter

Technical Specifications

Affinity^{2.0}/ Equinox^{2.0}





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Included and optional parts

AC440	REM440	HIT440
 Included parts: Affinity Suite DD45¹ Audiometric headset MTH400 headset EMS400 Talk back microphone B81 Bone conductor¹ APS3 Patient response button¹ Standard USB cable Power cable 120 or 230V Mouse pad 	 Included parts: Affinity Suite IHM60 In-situ headset with probe microphone and reference microphone^{1/2} (double) Probe tubes, 36 pcs.¹ Standard USB cable Power cable 120 or 230V Mouse pad 	Included parts: • Affinity Suite • Coupler box: • 2cc coupler • ½" microphone • Reference mic. • ITE adaptor • BTE adapter • Body HA adaptor • BTE tubing • Coupler seal wax • Aidapters • Reference microphone
 Optional parts: TDH39¹ Audiometric headset DAK70 Audiometer keyboard with live voice mic. IP30 insert earphones1 B81 Bone Conductor¹ B71 Bone Conductor^{1/2} ACC60 Affinity2.0 carrying case Audiocup enclosures Peltor noise excluding headset^{1/2} HDA300 Audiometric headset¹ DD450 high frequency headset¹ AP70 Power amplifier 2x70 Watt SP90 Loudspeaker SP85A Loudspeaker SP90A Loudspeaker AFC8 Sound cabin installation panel Accessory bracket OtoAccess® database Optical USB 1.1 isolation extension cable 	 Optional parts: Coupler box: 2cc coupler ½" microphone Reference mic. ITE adaptor BTE adapter Body HA adaptor BTE tubing SPL60 Transducer kit for RECD measurement including probes Assortment box with eartips for RECD measurement Aidapters Calibration adaptor for insitu reference Optical USB ¹.1 isolation extension cable ACC60 Affinity2.0 carrying case Coupler microphone extension cable Accessory bracket OtoAccess® database 	 Standard USB cable Power cable 120 or 230V Mouse pad Optional parts: Battery adapters BAA675, BAA13, BAA312, BAA10, BAA5 TBS25M External test chamber incl. cables ACC60 Affinity2.0 carrying case Calibration adaptor Optical USB ¹.1 isolation extension cable SKS10 Skull Simulator with power supply OtoAccess® database

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General technical specifications

Affinity2.0 Hardware - technical specifications

Medical CE-mark:	The CE-mark in combination	with MD symbol indicates that Interacoustics	
	A/S meets the requirements of the Medical Device Regulation (EU)		
	2017/745 Annex I		
	Approval of the quality system is made by TÜV – identification no. 0123.		
Safety Standards	IEC 60601-1: 2005 + CORR. 1:2006 + CORR. 2:2007 + A1:2012		
	ANSI/AAMI ES60601-1:2005 + A2:2010 + A1:2012		
	CAN/CSA-C22.2 No. 6061-1:14		
ENO Otara dand	Class I, Applied parts type B		
EMC Standard	IEC 60601-1-2		
Audiometer Standards	Tone Audiometer: IEC 60645 -1, ANSI S3.6, Type 1		
Calibratian	Speech Audiometer: IEC 60645-1, ANSI S3.6 Type B or B-E.		
Cambration	recrinical information is located in the specifications for the software		
	Calibration information and instructions are located in the Service manual		
PC requirements:	2 GHz Intel i3 processor		
r e requirements.	4GB Ram		
	2.5 GB available disk space		
	1024x768 resolution (1280x10	024 or higher recommended)	
	Hardware accelerated DirectX/Direct3D graphics card.		
	One or more USB ports, vers	ion 1.1 or higher.	
Operative	Windows [®] 8 (64 bit)		
System:	Windows [®] 10 (64 bit)		
O a man a tilb la sa a ftura ma	Windows [®] 11 (64 bit)		
Compatible software		L compatible	
Input Specifications	Talk Back	330μVrms at max. input gain for 0dB VU-	
	Mic. 1/TF & Mic. 2	reading	
	Pat. Resp. L & R	Switches 3 3V to the logic input	
		(The switch current is 33uA)	
	Inp. Aux. 1 & 2	20mVrms at max. input gain for 0dB VU-	
	TB Coupler	reading	
	TB Coupler - internal TB	Input impedance : 15KΩ	
	(Affinity2.0 ^{.0} only)		
	Insitu L & R - Probe mic.		
	CD1 & CD2	10mVrms at max input gain for 0dB VU-	
		reading	
		Input impedance: 10kΩ	
	TB Ref.	7mVrms at max. input gain for 0dB VU-	
	TB Ref – internal TB	reading	
	(Affinity2.0 ^{.0} only)	Input impedance : 4,3KΩ	
	Insitu L & R - Ref. mic		
	Ref.Mic./Ext.	Not in use	
	Coupler/Ext.		
	Wave files	Plays wave file from hard disk drive	
Output Specifications	FF1 / FF2	Lin to 12 6Vrms by 8 O load	
Culput Opcomodulono	(Terminal Block) 70Hz-20kHz +3dB		
	TB Lsp.	Minimum speaker impedance: 4Ω	
	FF1/ FF2	Up to 7Vrms by 6000 load	
	Sp 1, Sp 2, Sp 3, Sp 4	70Hz-20kHz ±3dB	
	Leit, Right	Up to 7.0Vrms by 1002 load	



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	Ins. Left. Ins. Right	70Hz-20kHz +3dB
	Bone	
	Ins Mask	-
		-
		_
	Insitu L, Insitu R	
	Monitor, Ass. Mon.	Max.3.5Vrms. by 8 Ω load
	Sp. 1-4 Power Out	70Hz-20kHz ±3dB
	DC	Voltage: 5VDC
		Current: 0.5A
	ТВ Loop	Up to 100mA/meter
	FF Loop	/UHZ-2UKHZ ±3dB
	Batt. Sim.	Voltage: 1.1 – 1.6VDC
	Batt. Sim Internal TB	Impedance range: 0 – 25 Ω.
	(Affinity2.0 ^{.0} only)	
Data Connections	USB/PC	USB B socket for connection to PC
		(compatible with USB 1.1 and later)
	USB	USB A socket for connection of other USB
	Kaub	(Internal USB 1.1 nub)
	Reyb.	interface)
		Check the Service manual for more
		information.
Internal test box:	Built in test box holds teleco	il drive as well as special dual speaker set for
	checking directional microphone function.	
Dimensions (LxWxH)	Affinity ^{2.0} : 42 x 38 x 14 cm / 16.5 x 15 x 5.5 inches	
Weight	Affinity ^{2.0} :	5.5 kg / 12.1 lbs.
Power supply	100-240 V~, 50-60Hz	
Power Consumption:	195VA	
Operation environment	Temperature:	15-35°
	Re. Humidity:	30-90% Non condensing
	Ambient pressure range:	98kPa o 104kPa
Transport and storage	Transport temperature:	-20-50°C
	Storage temperature:	
	Re. Humidity:	10-95% INON CONDENSING

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Technical specifications of the AC440 software

Medical CE-mark:	The CE-mark in combination with MD symbol indicates that Interacoustics		
	A/S meets the requirements of the Medical Device Regulation (EU)		
	Approval of the quality system is made by TÜV – identification no. 0123.		
Audiometer Standards:	Tone: IEC60645-1 2017/ANSI S3.6 2018 Type 1 EHF		
	Speech: IEC60645-1 2017 /ANSI S3.6 2018 Type A or A-E		
Transducers & Calibration:	Calibration information and instructions are located in the Service manual.		
Air Conduction	Check the accompanying Appendix for RETSPL levels for transducers		
	ISO 380 1 2017 ANSI 53 6 2018	Headbard Static Force 4 5N ±0 5N	
	ISO 389-1 2017, ANSI 53.0-2018	Headband Static Force 4.5N ±0.5N	
	PTB report 1 61 /066803/13	Headband Static Force 8 8N ±0.5N	
DD450		Headband Static Force 10N ±0.5N	
	PTB report 2004	Headband Static Force 5N +0.5N	
F A B Tope 5A	ISO 389-2 1998 ANSI S3 6-2018		
IP30	ISO 389-2 1998 ANSI S3 6-2018		
Bone Conduction	Placement: Mastoid		
B71	ISO 389-3 2016 ANSI S3 6-2018	Headband Static Force 5 4N +0 5N	
B81	ISO 389-3 2016, ANSI S3.6-2018	Headband Static Force 5.4N ±0.5N	
Free Field	ISO 389-7 2005, ANSI S3.6-2010		
High Frequency	ISO 389-5 2004, ANSI S3.6-2010		
Effective masking	ISO 389-4 1994, ANSI S3.6-2010		
Patient Response switch:	Handheld push button.		
Patient communication	Talk Forward and Talk Back.		
r attent communication.			
Monitor:	Output through external earphone or	speaker.	
Monitor: Stimuli:	Output through external earphone or Pure tone, Warble tone, NB, SN, WN	speaker. , TEN noise	
Monitor: Stimuli: Tone	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave	speaker. , TEN noise es 125-8000Hz and 8000-20000Hz.	
Monitor: Stimuli: Tone Warble Tone	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz.	
Monitor: Stimuli: Tone Warble Tone Wave file	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/-5% modulation 44100Hz sampling, 16 bits, 2 channel	speaker. , TEN noise es 125-8000Hz and 8000-20000Hz. els	
Monitor: Stimuli: Tone Warble Tone Wave file Masking	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channe Automatic selection of narrow band r	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone	
Monitor: Stimuli: Tone Warble Tone Wave file Masking	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channe Automatic selection of narrow band r presentation and speech noise for sp	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone peech presentation.	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channe Automatic selection of narrow band r presentation and speech noise for sp IEC 60645-1:2001, 5/12 Octave filter	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone peech presentation. with the same center frequency	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White poice:	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channe Automatic selection of narrow band r presentation and speech noise for sp IEC 60645-1:2001, 5/12 Octave filter resolution as pure Tone.	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone peech presentation. with the same center frequency	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White noise: Speech Noise	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channe Automatic selection of narrow band r presentation and speech noise for sp IEC 60645-1:2001, 5/12 Octave filter resolution as pure Tone. 80-20000Hz measured with constant IEC 60645-1:2017, 125-6000Hz fallin	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone beech presentation. with the same center frequency bandwidth g 12dB/octave above 1KHz ±/-5dB	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White noise: Speech Noise. Presentation	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channe Automatic selection of narrow band r presentation and speech noise for sp IEC 60645-1:2001, 5/12 Octave filter resolution as pure Tone. 80-20000Hz measured with constant IEC 60645-1:2017 125-6000Hz fallin Manual or Reverse. Single or multiple	speaker. , TEN noise is 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone peech presentation. with the same center frequency is bandwidth g 12dB/octave above 1KHz +/-5dB e pulses, pulse time adjustable from	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White noise: Speech Noise. Presentation	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channe Automatic selection of narrow band r presentation and speech noise for sp IEC 60645-1:2001, 5/12 Octave filter resolution as pure Tone. 80-20000Hz measured with constant IEC 60645-1:2017 125-6000Hz fallin Manual or Reverse. Single or multiple 200mS-5000mS in 50mS steps. Sim	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone beech presentation. with the same center frequency t bandwidth g 12dB/octave above 1KHz +/-5dB e pulses. pulse time adjustable from ultaneous or alternating.	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White noise: Speech Noise. Presentation Intensity	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channe Automatic selection of narrow band r presentation and speech noise for sp IEC 60645-1:2001, 5/12 Octave filter resolution as pure Tone. 80-20000Hz measured with constant IEC 60645-1:2017 125-6000Hz fallin Manual or Reverse. Single or multiple 200mS-5000mS in 50mS steps. Sim Check the accompanying Appendix for	speaker. , TEN noise is 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone beech presentation. with the same center frequency is bandwidth g 12dB/octave above 1KHz +/-5dB e pulses. pulse time adjustable from ultaneous or alternating. for maximum output levels	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White noise: Speech Noise. Presentation Intensity Steps	Output through external earphone orPure tone, Warble tone, NB, SN, WN125-20000Hz separated in two rangeResolution 1/2-1/24 octave.1-10 Hz sine +/- 5% modulation44100Hz sampling, 16 bits, 2 channedAutomatic selection of narrow band rpresentation and speech noise for spIEC 60645-1:2001, 5/12 Octave filterresolution as pure Tone.80-20000Hz measured with constantIEC 60645-1:2017 125-6000Hz fallinManual or Reverse. Single or multiple200mS-5000mS in 50mS steps. SimCheck the accompanying Appendix 1Available Intensity Steps is 1, 2 or 50	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone beech presentation. with the same center frequency t bandwidth g 12dB/octave above 1KHz +/-5dB e pulses. pulse time adjustable from ultaneous or alternating. for maximum output levels IB	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White noise: Speech Noise. Presentation Intensity Steps Accuracy	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channed Automatic selection of narrow band r presentation and speech noise for sp IEC 60645-1:2001, 5/12 Octave filter resolution as pure Tone. 80-20000Hz measured with constant IEC 60645-1:2017 125-6000Hz fallin Manual or Reverse. Single or multiple 200mS-5000mS in 50mS steps. Sim Check the accompanying Appendix for sp Available Intensity Steps is 1, 2 or 5c Sound pressure levels: ± 2 dB Vibration force levels: ± 5 dB	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone beech presentation. with the same center frequency bandwidth g 12dB/octave above 1KHz +/-5dB e pulses. pulse time adjustable from ultaneous or alternating. for maximum output levels IB	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White noise: Speech Noise. Presentation Intensity Steps Accuracy Extended range	Output through external earphone orPure tone, Warble tone, NB, SN, WN125-20000Hz separated in two rangeResolution 1/2-1/24 octave.1-10 Hz sine +/- 5% modulation44100Hz sampling, 16 bits, 2 channeAutomatic selection of narrow band rpresentation and speech noise for spIEC 60645-1:2001, 5/12 Octave filterresolution as pure Tone.80-20000Hz measured with constantIEC 60645-1:2017 125-6000Hz fallinManual or Reverse. Single or multiple200mS-5000mS in 50mS steps. SimCheck the accompanying Appendix for the accompanying Appendix for the activated of the accompanying for the activated of the activated of the activated of the activated of the accompanying for the activated of	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone beech presentation. with the same center frequency bandwidth g 12dB/octave above 1KHz +/-5dB e pulses. pulse time adjustable from ultaneous or alternating. for maximum output levels IB utput will be limited to 20 dB below	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White noise: Speech Noise. Presentation Intensity Steps Accuracy Extended range function	Output through external earphone orPure tone, Warble tone, NB, SN, WN125-20000Hz separated in two rangeResolution 1/2-1/24 octave.1-10 Hz sine +/- 5% modulation44100Hz sampling, 16 bits, 2 channedAutomatic selection of narrow band rpresentation and speech noise for spIEC 60645-1:2001, 5/12 Octave filterresolution as pure Tone.80-20000Hz measured with constantIEC 60645-1:2017 125-6000Hz fallinManual or Reverse. Single or multiple200mS-5000mS in 50mS steps. SimCheck the accompanying Appendix fallinAvailable Intensity Steps is 1, 2 or 50Sound pressure levels: ± 2 dBVibration force levels: ± 5 dBIf not activated, the Air Conduction omaximum output.	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone beech presentation. with the same center frequency bandwidth g 12dB/octave above 1KHz +/-5dB e pulses. pulse time adjustable from ultaneous or alternating. for maximum output levels IB utput will be limited to 20 dB below	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White noise: Speech Noise. Presentation Intensity Steps Accuracy Extended range function Frequency	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channed Automatic selection of narrow band r presentation and speech noise for sp IEC 60645-1:2001, 5/12 Octave filter resolution as pure Tone. 80-20000Hz measured with constant IEC 60645-1:2017 125-6000Hz fallin Manual or Reverse. Single or multiple 200mS-5000mS in 50mS steps. Sim Check the accompanying Appendix 1 Available Intensity Steps is 1, 2 or 50 Sound pressure levels: ± 2 dB Vibration force levels: ± 5 dB If not activated, the Air Conduction o maximum output. Range: 125Hz to 8kHz (Optional Hig	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone beech presentation. with the same center frequency t bandwidth g 12dB/octave above 1KHz +/-5dB e pulses. pulse time adjustable from ultaneous or alternating. for maximum output levels IB utput will be limited to 20 dB below h Frequency: 8 kHz to 20 kHz)	
Monitor: Stimuli: Tone Warble Tone Wave file Masking Narrow band noise: White noise: Speech Noise. Presentation Intensity Steps Accuracy Extended range function Frequency	Output through external earphone or Pure tone, Warble tone, NB, SN, WN 125-20000Hz separated in two range Resolution 1/2-1/24 octave. 1-10 Hz sine +/- 5% modulation 44100Hz sampling, 16 bits, 2 channe Automatic selection of narrow band r presentation and speech noise for sp IEC 60645-1:2001, 5/12 Octave filter resolution as pure Tone. 80-20000Hz measured with constant IEC 60645-1:2017 125-6000Hz fallin Manual or Reverse. Single or multiple 200mS-5000mS in 50mS steps. Sim Check the accompanying Appendix fallin Available Intensity Steps is 1, 2 or 50 Sound pressure levels: ± 2 dB Vibration force levels: ± 5 dB If not activated, the Air Conduction o maximum output. Range: 125Hz to 8kHz (Optional Hig Accuracy: Better than ± 1 %	speaker. , TEN noise s 125-8000Hz and 8000-20000Hz. els noise (or white noise) for tone beech presentation. with the same center frequency t bandwidth g 12dB/octave above 1KHz +/-5dB e pulses. pulse time adjustable from ultaneous or alternating. for maximum output levels IB utput will be limited to 20 dB below h Frequency: 8 kHz to 20 kHz)	

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Signal Indicator (VU)	Time weighting:	350mS
	Dynamic range:	-20dB to +3dB
	Rectifier characteristics:	RMS
	Selectable inputs are provided with an attenuator by which the level of	
	be adjusted to the indicator reference	position(0dB)
Storing capability:	Tone audiogram: dB HL, MCL, UCL, Tinnitus, R+L Speech Audiogram: WR1, WR2, WR3, MCL, UCL, Aided, Unaided,	
	Binaural, R+L.	
Compatible Software:	Noah 4, OtoAccess® and XML comp	atible



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REM440 software - technical specifications

Medical CE-mark:	The CE-mark in combination with	n MD symbol indicates that	
	Interacoustics A/S meets the requirements of the Medical Device		
	Regulation (EU) 2017/745 Annex I		
	Approval of the quality system is made by TÜV – identification no. 0123.		
Real Ear Measurement	IEC 61669 2015, ANSI S3.46 20	13	
Standards:			
Stimuli:	Warble Tone, Pure Tone, Random noise, Pseudo random noise, Band		
	limited white noise, Chirp, ICRA,	Real Speech, any other sound file	
	(automatic calibration available).		
Frequency range:	100Hz – 10kHz		
Frequency	Less than ± 1 %		
accuracy:			
Distortion:	Less than 2%		
Intensity range:	40 – 90 dB		
Intensity	Less than ± 1.5 %		
accuracy:			
Measurement Intensity Range:	Probe microphone 40-145 dB SPL \pm 2 dB.		
Frequency Resolution:	1/3, 1/6, 1/12, 1/24 octave or 1024-point FFT.		
Probe microphone:	Intensity: 40 – 140 dB		
Reference microphone:	Intensity: 40 – 100 dB		
Intensity Accuracy:	Less than ± 1.5 dB		
Cross talk	Cross talk in the probe and probe tube will alter the obtained results with		
	less than 1 dB at all frequencies.		
Available tests:	REUR	REOG	
	REUG	Input – Output	
	REIG	FM Transparency	
		Ear Level, FIVI ONLY	
		Directionality	
		visible speech mapping	
Compatible Software:			
Compannie Soltware.	NOAN 4, OLOACCESS® and AML compatible		



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HIT 440 software - technical specifications

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Medical CE-mark:	The CE-mark in combination with MD symbol indicates that		
	Regulation (EU) 2017/745 Annex I		
	Approval of the quality system is made by TÜV – identification no.		
	0123.		
Hearing Aid Analyzer Standards:	IEC 60118-0 2015, IEC 60118-7 2005, ANSI S3.22 2014		
Frequency Range:	100-10000Hz.		
Frequency Resolution:	1/3, 1/6, 1/12 and 1/24 octave or	1024-point FFT.	
Frequency Accuracy:	Less than ± 1 %		
Stimulus Signal:	Warble Tone, Pure Tone, Random noise, Pseudo random noise, Band limited white noise, Chirp, ICRA, Real Speech, any other sound file (automatic calibration available).		
Sweep Speed:	1,5 – 12 sec.		
FFT:	Resolution 1024 points. Averaging: 10 – 500.		
Stimulation Intensity Range:	40-100 dB SPL in 1 dB step.		
Intensity Accuracy:	Less than ± 1.5 dB		
Measurement Intensity Range:	Probe microphone 40-145 dB SPL ± 2 dB		
Stimulus Distortion:	Less than 1 % THD.		
Battery Simulator:	Standard and custom types are selectable		
	Standard battery Impedance[Ω] Voltage[V]		
	Zinc air 5	8	1.3
	Zinc air 10	6	1.3
	Zinc air 13	6	1.3
	Zinc air 312	6	1.3
	Zinc air 675	3.5	1.3
	Mercury 13	8	1.3
	Mercury 312	8	1.3
	Mercury 657	5	1.3
	Mercury 401	1	1.3
	Silver 13	10	1.5
	Silver 312	10	1.5
	Silver 76	5	1.5
	Custom types	0 – 25	1.1 – 1.6
Available tests:	Additional tests can be designed	by user	
	OSPL90	Harmonic Distortion Intermodulation Distortion Battery Current Drain Microphone Directionality Coil Frequency Response Coil Harmonic Distortion	
	Full On Gain		
	Input/output		
	Reference Test Gain		
	Frequency Response		
	Equivalent Input Noise Coil Full-On Gain Response		
	HIT440 software comes with a se	et of Test Protocols	loaded.
Pre-Programmed Protocols:	Additional Test Protocols can be designed by user, or easily		
Compatible Orfered	imported into the system.		
Compatible Software:	Noah 4, OtoAccess® and XML compatible		