

<b>Safety Standards</b>	IEC60601-1:2005; ES60601-1:2005/A2:2010; CAN/CSA-C22.2 No. 60601-1:2008; IEC60601-1:1988+A1+A2 Class I Type B Applied parts IPx0	
<b>EMC Standard</b>	IEC 60601-1-2:2007	
<b>Audiometer Standards</b>	Tone: IEC 60645-1:2012/ANSI S3.6:2010 Type 1- Speech: IEC 60645-2:1993/ANSI S3.6:2010 Type A or A-E	
<b>Calibration</b>	Calibration information and instructions is located in the AC40 Service manual	
<b>Air Conduction</b>	TDH39: DD45: HDA300: HDA280 E.A.R Tone 3A/5A: CIR 33 IP30	ISO 389-1 1998, ANSI S3.6-2010 PTB/DTU report 2009 PTB report PTB 1.61 – 4064893/13 PTB report 2004 ISO 389-2 1994, ANSI S3.6-2010 ISO 389-2 1994 ISO 389-2 1994, ANSI S3.6-2010 DES-2361
<b>Bone Conduction</b>	B71: B81: Placement: Mastoid	ISO 389-3 1994, ANSI S3.6-2010 ISO 389-3 1994, ANSI S3.6-2010
<b>Free Field</b>	ISO 389-7 2005, ANSI S3.6-2010	
<b>High Frequency</b>	ISO 389-5 2006, ANSI S3.6-2010	
<b>Effective masking</b>	ISO 389-4 1994, ANSI S3.6-2010	
<b>Transducers</b>	TDH39 DD45 HDA300 HDA280 B71 Bone B81Bone E.A.R Tone 3A/5A: CIR 33 IP30	Headband Static Force 4.5N ±0.5N Headband Static Force 4.5N ±0.5N Headband Static Force 8.85N ±0.5N Headband Static Force 5N ±0.5N Headband Static Force 5.4N ±0.5N Headband Static Force 5.4N ±0.5N
<b>Patient Response switch</b>	Two push button.	
<b>Patient communication</b>	Talk Forward (TF) and Talk Back (TB).	
<b>Monitor</b>	Real stereo output through built-in speakers or through external earphone or assistant monitor.	
<b>Special tests/test battery (some are optional)</b>	<ul style="list-style-type: none"> <li>• Stenger</li> <li>• ABLB</li> <li>• Langenbeck (tone in noise).</li> <li>• Masking Level Difference</li> <li>• Pediatric Noise Stimuli</li> <li>• Multi Frequency</li> <li>• High Frequency</li> <li>• Speech from Hard-drive (Wave Files)</li> <li>• SISI</li> <li>• Master Hearing Aid</li> <li>• Hearing Loss Simulator</li> <li>• QuickSIN(tm)</li> <li>• Auto threshold: <ul style="list-style-type: none"> <li>o Hughson Westlake</li> <li>o Békésy</li> </ul> </li> </ul>	
<b>Stimuli</b>		
<b>Tone</b>	125-20000Hz separated in two ranges 125-8000Hz and 8000-20000Hz. Resolution 1/2-1/24 octave.	
<b>Warble Tone</b>	1-10 Hz sine +/- 5% modulation	
<b>Pediatric Noise</b>	A special narrowband noise stimulus. The bandwidth is frequency depended 125-250 Hz 29%, 500Hz 24%, 750 Hz 20%, 1kHz 17%, 1.5kHz 13%, 2kHz 11%, 3kHz 9% from 4kHz and up is fix 8%.	
<b>Wave file</b>	44100Hz sampling, 16 bits, 2 channels	

<b>Masking</b>	Automatic selection of narrow band noise (or white noise) for tone presentation and speech noise for speech presentation. Narrow band noise: IEC 60645-1 2012, 5/12 Octave filter with the same centre frequency resolution as pure Tone. White noise: 80-20000Hz measured with constant bandwidth Speech Noise. IEC 60645-2:1993 125-6000Hz falling 12dB/octave above 1KHz +/-5dB					
<b>Presentation</b>	Manual or Reverse. Single or multiple pulses.					
<b>Intensity</b>	Check the accompanying Appendix Available Intensity Steps is 1, 2 or 5dB Extended range function: If not activated, the Air Conduction output will be limited to 20 dB below maximum output.					
<b>Frequency range</b>	125Hz to 8kHz (Optional High Frequency: 8 kHz to 20 kHz) 125Hz, 250Hz, 750Hz, 1500Hz and 8kHz may freely be deselected					
<b>Speech</b>	<b>Frequency Response:</b>					
	(Typical)	<b>Frequency</b>	<b>Linear [dB]</b>		<b>FFreq<sub>uv</sub> [dB]</b>	
		[Hz]	<b>Ext. sign<sup>1</sup></b>	<b>Int. sign<sup>2</sup></b>	<b>Ext. sign<sup>1</sup></b> <b>Int. sign<sup>2</sup></b>	
	TDH39 (IEC 60318-3 Coupler)	125-250	+0/-2	+0/-2	+0/-8	+0/-8
		250-4000	+2/-2	+2/-1	+2/-2	+2/-2
		4000-6300	+1/-0	+1/-0	+1/-0	+1/-0
	DD45 (IEC 60318-3 Coupler)	125-250	+0/-2	+1/-0	+0/-8	+0/-7
		250-4000	+1/-1	+1/-1	+2/-2	+2/-3
		4000-6300	+0/-2	+0/-2	+1/-1	+1/-1
	E.A.R Tone 3A (IEC 60318-5 Coupler)	250-4000	+2/-3	+4/-1	(Non linear)	
IP 30 (IEC 60318-5 Coupler)	250-4000	+2/-3	+4/-1	(Non linear)		
B71 Bone Conductor (IEC 60318-6 Coupler)	250-4000	+12/-12	+12/-12	(Non linear)		
	2% THD at 1000 Hz max output +9 dB (increasing at lower frequency) Level range: +10 to 60 dB HL					
		1. Ext. sign: CD input		2. Int. sign: Wave files		
<b>External signal</b>	Speech replaying equipment connected to the CD inputs must have a signal-to-noise ratio of 45 dB or higher. The speech material used must include a calibration signal suitable for adjusting the input to 0 dBVU.					
<b>Free Field output (non-powered)</b>	<b>Power amplifier and loudspeakers</b> With an input of 7 Vrms - Amplifier and loudspeakers must be able to create a Sound Pressure Level of 100 dB in a distance of 1 meter - and meet the following requirements: Frequency Response 125-250 Hz +0/-10 dB 250-4000 Hz ±3 dB 4000-6300 Hz ±5 dB Total Harmonic Distortion 80 dB SPL < 3% 100 dB SPL < 10%					
<b>Internal storage</b>	500 patients and 50.000 sessions/measurements/audiograms (may depend on session type/size)					
<b>Signal Indicator(VU)</b>	Time weighting: 300mS Dynamic range: 23dB Rectifier characteristics: RMS Selectable inputs are provide with an attenuator by which the level can be adjusted to the indicator reference position(0dB)					
<b>Data Connections (sockets) for connection of accessories</b>	4 x USB A 1 x USB B for PC connection (compatible with USB 1.1 and later) 1 x LAN Ethernet (not used)					
<b>External devices (USB)</b>	Standard PC mouse and keyboard (for data entry) Supported printers: Please contact local distributor for a list of approved PC printers.					
<b>HDMI output</b>	Provides a copy of the built-in screen in HDMI format 800x600 resolution					
<b>Input Specifications</b>	TB	212 uVrms at max. gain for 0dB reading Input impedance : 3.2KOhm				
	Mic.2	212 uVrms at max. gain for 0dB reading Input impedance : 3.2KOhm				
	CD1/2	16mVrms at max. gain for 0dB reading Input impedance : 47KOhm				
	TF (side panel)	212uVrms at max. gain for 0dB reading Input impedance : 3.2KOhm				
	TF (front panel)	212uVrms at max. gain for 0dB reading Input impedance : 3.2KOhm				
	Wave files	Plays wave file from internal SD card				

<b>Output Specifications</b>	FF 1/2/3/4 Line output	7Vrms at 2kOhms load 60-20000Hz -3dB
	FF 1 / 2 / 3 / 4 - powered	4x20W (only 2x20W can be used by software at the moment)
	Left & Right	7Vrms at 10 Ohms load 60-20000Hz -3dB
	Ins. Left & Right	7Vrms at 10 Ohms load 60-20000Hz -3dB
	HF Left & Right	7Vrms at 10 Ohms load 60-20000Hz -3dB
	HLS	7Vrms at 10 Ohms load 60-20000Hz -3dB
	Bone 1+2	7Vrms at 10 Ohms load 60-20000Hz -3dB
	Ins. Mask	7Vrms at 10 Ohms load 60-20000Hz -3dB
	Monitor headset (side panel)	2x 3Vrms at 32 Ohms / 1.5Vrms at 8 Ohms load 60-20000Hz -3dB
	Assist Mon.	Max.3.5Vrms. by 8 $\Omega$ load 70Hz-20kHz $\pm$ 3dB
<b>Display</b>	8.4 inch high resolution colour display 800x600 pixels	
<b>Compatible software</b>	Diagnostic Suite - Noah, OtoAccess and XML compatible	
<b>Dimensions (LxWxH)</b>	522 x 366 x 98 cm / 20.6 x 14.4 x 3.9 inch Hight with display open: 234 mm / 9.2 inch	
<b>Weight</b>	7.9kg / 17.4lb	
<b>Power supply</b>	110V~/0.65A - 240V~/0.3A 50-60Hz Rated at: 2xFF, 1kHz pure-tone, NBN 1kHz	
<b>Operation environment</b>	Temperature:	15-35°C
	Re. Humidity:	30-90% Non condensing
	Ambient pressure:	98-104 kPa
<b>Transport and storage</b>	Transport temperature:	-20-50°C
	Storage temperature:	0-50°C
	Re. Humidity:	10-95% Non condensing
<b>Warm up time</b>	Approx. 1 minute	