dabl®Educational Trust

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2006

A SIGNED COPY WILL BE POSTED ON THE www.dableducational.org WEBSITE

SECTION A - Please complete all items online.					
I		Jia Zhenning Director Company r		Shanghai HONSU	JN Group limited
hereby state	that the	ere are no differences that will affect blood press	ure measuring	g accuracy betwee	n the
LD30 (also named as Bios BD209) Blood pressure measuring device for which validation is claimed					
blood press	ure mea	suring device and the			
		LD-578 Existing validated blood pressure measuring device			
blood press published a		suring device, which has previously passed the	International	protocol, the resu	lts of which were
		Yi Zhang, Jie Wang, Qi-Fang Huang, Chang-S Authors(s) Validation of the HONSUN LD-578 blood pre			
		monitoring according to the European Society	of Hypertens	ion International I	Protocol
		Title Blood Pressure Monitoring Publication	June 2009 Year Volume I	-Volume 14 -Issu	e 3 -pp 128-131
		s between the devices involve the following con evant, both Yes and No should be left blank. Please provide details on a	•	·.)	
Part I	1	Algorithm for Oscillometric Measurements		Yes □	No ⊠
	2	Algorithm for Auscultatory Measurements		Yes □	No 🗆
	3	Artefact/Error Detection		Yes 🗆	No 🛛
	4	Microphone(s)		Yes 🗆	No 🗆
	5	Pressure Transducer		Yes 🗆	No 🛛
	6	Cuff or Bladder		Yes □	No 🛛
	7	Inflation Mechanism		Yes □	No 🛛
	8	Deflation Mechanism		Yes 🗆	No ⊠
Part II	9	Model Name or Number		Yes 🛛	No 🗆
	10	Casing		Yes 🛛	No 🗆
	11	Display		Yes 🛛	No 🗆
	12	Carrying/Mounting Facilities		Yes 🗆	No 🗆
	13	Software other than Algorithm		Yes 🛛	No 🗆
	14	Memory Capacity/Number of stored measuren	nents	Yes ⊠	No 🗆
	15	Printing Facilities		Yes □	No 🗆
	16	Communication Facilities		Yes 🗆	No 🗆
	17	Power Supply		Yes	No 🛛
	18	Other Facilities		Yes 🗆	No 🗆
Brief explanations of differences and further relevant details:					

- 10) LD30 includes 2 memory buttons(memory 1, memory 2) while LD-578 includes 1 memory button;
- 11) LD30 includes symbol for M1 and M2(memory1 and memory2), symbol for WHO classification and symbol for Date/Time while LD-578 does not;
- 13) LD30 includes the function of two stored memories, WHO classification and Date/Time function while LD-578 does not;
- 14) LD30 includes 2*60=120 sets of memories while LD-578 includes 90 sets of memories;

Fax + 353 1 278 3835

SECTION B - Complete all items, bar signatures and seal, online and print. Sign and seal it then send the original along with manuals for both devices to our address below.

Signature of Director

Name

Date

Oct 12, 2010

Signature of Witness

Name

Address

Rm.C, Floor 22, Zhi Yuan Bidg, No. 768 Xietu Road, Shanghai, China



DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2006

A SIGNED COPY WILL BE POSTED ON THE www.dableducational.org WEBSITE

SECTION A - Please complete all items online.					
I			irector of	Thermor Limited	
hereby state that there are no differences that will affect blood pressure measuring accuracy between the					
•		BIOS BD209 Blood pressure measuring device for which validation is claim.		· · · · · · · · · · · · · · · · · · ·	
blood pres	sure mea	suring device and the			
orood pro		C			
		LD - 578 Existing validated blood pressure measuring device			
blood pressure measuring device, which has previously passed the <u>International</u> protocol, the results of which were published as follows					
		Yi Zhang, Jie Wang, Qi-Fang Huang, Ch	nang-Sheng Sheng,	Yan Li and Ji-Gua	ang Wang
		Authors(s) Validation of Honsun LD-578 blood pres			
		•		•	ie momtoring
		according to the European Society of Hy	pertension Internation	onal Protocol	
		Blood Pressure Monitoring	June 2009	- Volume 14 - Iss	ue 3 - pp 128-131
		Publication	Year Volume Pa	ages	
-		s between the devices involve the followin evant, both Yes and No should be left blank. Please provide deta	-	1	
Part I	1	Algorithm for Oscillometric Measuremen	nts	Yes □	No ⊠
	2	Algorithm for Auscultatory Measuremen	its	Yes □	No 🗆
	3	Artefact/Error Detection		Yes □	No ⊠
	4	Microphone(s)		Yes □	No 🗆
	5	Pressure Transducer		Yes □	No ⊠
	6	Cuff or Bladder	,	Yes □	No ⊠
	7	Inflation Mechanism		Yes □	No ⊠
	8	Deflation Mechanism		Yes □	No ⊠
Part II	9	Model Name or Number		Yes ⊠	No 🗆
	10	Casing		Yes ⊠	No 🗆
	11	Display		Yes ⊠	No 🗆
	12	Carrying/Mounting Facilities		Yes □	No □
	13	Software other than Algorithm		Yes ⊠	No □
	14	Memory Capacity/Number of stored mea	asurements	Yes ⊠	No □
	15	Printing Facilities		Yes □	No □
	16	Communication Facilities		Yes □	No □
	17	Power Supply		Yes □	No ⊠
-	18	Other Facilities		Yes □	No 🗆
Brief exnl	anations o	of differences and further relevant details: s			
_		ss 2 memory buttons (memory 1, memory 2	= =	1 memory button	
10) BB20). merade	5 2 memory battons (memory 1, memory 2	2) ED 370 has only	1 memory button	
SECTION B - Complete all items, bar signatures and seal, online and print. Sign and seal it then send the original along with manuals for both devices to our address below.					
Signature of Director Company Stamp/Seal					
Name		Mark Beaton			
Date		November 8, 2010			
Signature of Witness					
Name					

Web www.dableducational.org

Carraig Court, Georges Avenue, Blackrock, Co. Dublin, Ireland. Tel + 353 1 278 0247 Fax + 353 1 278 3835

dabl®Educational Trust Address Thermor Limited

16975 Leslie Street, Newmarket, Ontario

Canada, L3Y 9A1

Appendix A

11) BD209 includes symbol for M1 and M2 (memory 1 and memory 2), symbol for WHO classification and symbol for Date/Time while LD-578 does not.

12) BD209 includes the function of two stored memories, WHO classification and Date and time with each measurement, LD-30 does not.

13) BD209 includes 2 x 60 sets of memory (total 120 sets). LD-578 has capacity for 90 sets of memory



Device Equivalence Evaluation Form

Comparison of the Honsun LD-30 with the Honsun LD-578

Devices	Honsun LD-30		Honsun LD-578	
Pictures			HONSUN HONSUN	
Validation			ESH	
Device 1 Criteria	Display/Symbols/Indicators Post Measurement BP classification (ESH) Date and Time Date and Time Date and Time (During memory recall) Algorithms Diagnostic WHO Guidelines	10, 11, 13 11 11		
Same Criteria	Measurement Accuracy BP accuracy ± 3 mmHg Pulse accuracy ± 5% Method Oscillometric measurement method BP 40 mmHg - 260 mmHg Pulse 40 bpm -160 bpm Manually initiated measurements Measurements are from single inflations Inflation Automatic Inflation Fuzzy Logic Four preset inflation pressures	1, 5 1, 5 1, 5 1, 5, 7, 8 1, 5, 8 13 13	Measurement Accuracy BP accuracy ± 3 mmHg Pulse accuracy ± 5% Method Oscillometric measurement method BP 40 mmHg - 260 mmHg Pulse 40 bpm -160 bpm Manually initiated measurements Measurements are from single inflations Inflation Automatic Inflation Fuzzy Logic Four preset inflation pressures	1, 5 1, 5 1, 5 1, 5, 7, 8 1, 5, 8 13 13

dabl®Educational Trust

Device Equivalence Evaluation Form

Devices	Honsun LD-30	Honsun LD-578 Measurement (continued)		
Same Criteria	Measurement (continued)			
(continued)	Deflation		Deflation	
	Automatic Deflation	8	Automatic Deflation	8
	Cuffs		Cuffs	
	Large (Arm circ. 32-43 cm) (Optional)	6	Large (Arm circ. 32-43 cm) (Optional)	6
	Medium (Arm circ. 22 to 32 cm)	6	Medium (Arm circ. 22 to 32 cm)	6
	Buttons/Switches		Buttons/Switches	
	Power		Power (O. 10.15)	
	On/Off with Start/Stop (O/I Label)	10	On/Off with Start/Stop (O/I Label)	10
	Display/Symbols/Indicators Measurement Procedure		Display/Symbols/Indicators Measurement Procedure	
	Beeps before measurement	18	Beeps before measurement	18
	During Measurement: BP Level & Heartbeat	11	During Measurement: BP Level & Heartbeat	11
	Beeps after measurement	18	Beeps after measurement	18
	Post Measurement	10	Post Measurement	18
	SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
	Measurement error (no error numbers)	11	Measurement error (no error numbers)	11
	Measurement Records	11	Measurement Records	11
	Average "A" symbol	11	Average "A" symbol	11
	Memory recall number (Replaces pulse rate momentarily)	11	Memory recall number (Replaces pulse rate momentarily)	11
	Delete memory ([Ir)	11	Delete memory ([/r)	11
	Power		Power	
	Low battery	11, 17	Low battery	11, 17
	Case		Case	
	Display		Display	
	Single screen display	10	Single screen display	10
	Segment LCD	10	Segment LCD	10
	Power		Power	
	4 "AA" batteries	17	4 "AA" batteries	17
	AC adapter (Optional)	17	AC adapter (Optional)	17
	Automatic switch-off when not used for 3 min	17	Automatic switch-off when not used for 3 min	17
	Rechargeable batteries not permitted	17	Rechargeable batteries not permitted	17
Comparable Criteria	Measurement		Measurement	
	Measurement Records		Measurement Records	
	Memory: 60 measurements × 2 zones	14	Memory: 90 measurements	14

© 2011 dabl Educational Trust Limited
Page 2 of 3

dabl®Educational Trust

Device Equivalence Evaluation Form

Devices	Honsun LD-30		Honsun LD-578	
Comparable Criteria (continued)	Buttons/Switches Measurement Records Memory × 2 (Includes Date/Time set) Display/Symbols/Indicators Measurement Records	10	Buttons/Switches Measurement Records Memory Display/Symbols/Indicators Measurement Records	10
	Last 3 measurements mean × 2	11	Last 3 measurements mean	11
	Memory zone ("M1" and "M2" symbols) Algorithms Averages and Differences Last 3 measurements memory zone means	11	Memory "M" symbol Algorithms Averages and Differences Last 3 measurements mean	11
Device 2 Criteria				
Web link			http://www.asian-medical.com/product/?n=32&pid=7	

Comments	In addition to the above, both manuals provide detailed electromagnetic information which is the same in each case. The LD-30 appears identical form a measurement perspective, the only additions being the two memory zones, the date & time and the WHO classification indicator. Honsun is a manufacturer that distributes models under its own name (http://www.asian-medical.com). It is also an OEM company that
	distributes the same models to other distributers for sale under different brand names some of which use the same model number and some of which do not. The Canadian company Thermor uses BIOS as its brand name (http://biosexactly.com/) and supplies blood pressure monitors from, among others, Honsun.
Recommendation	Equivalence is recommended
Date	14/01/2011

© 2011 dabl Educational Trust Limited
Page 3 of 3