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Declaration of Equivalence Form

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2013

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

SECTION A - Please complete all items.				
	I Bill Huang, Name of a Company Director a Director of AVITA Corporation, Company name		• • •	
hereby stat	e that there are no differences tha	at will af	fect blood pressure measuring accuracy between the	
Maker*	Kaz Europe Sàrl	Address	Place Chauderon 18, 1003 Lausanne, Switzerland	
Manufacturer ^b	AVITA Corporation	Address	9F, NO.78, SEC.1, KWANG-FU RD. , SAN –Chung District, New Taipei City 24158 Taiwan R.O.C.	
Brand ^e Braun Model ^d BUA7200 Blood pressure measuring device for which validation is claimed. If alternative model names are used, include all.				
blood press	blood pressure measuring device and the validated blood pressure measuring device			
Maker ^a	AViTA Corporation	Address	9F, NO.78, SEC.1, KWANG-FU RD. , SAN –Chung District, New Taipei City 24158 Taiwan R.O.C.	
Manufacturer⁵	AViTA Corporation	Address	9F, NO.78, SEC.1, KWANG-FU RD. , SANChung District, New Taipei City 24158 Taiwan R.O.C.	
Brand ^c Existing validate	AVITA (Wellex) d blood pressure measuring device.	Model ^d	BPM64	

which has previously passed the ESH-2010 protocol, the results of which were published as follows:

Kang Y.Y., Chen Q., Liu C.Y., Li Y. and Wang J.G. Validation of the AVITA BPM64 upper-arm blood pressure monitor for home blood pressure monitoring according to the European Society of Hypertension International Protocol revision 2010.

Full reference

The only differences between the devices involve the following components:

Tick one box for each item 1-18.

Part I	1	Algorithm for Oscillometric Measurements	Yes 🗖	No 🖂	N/A ^e 🔲
	2	Algorithm for Auscultatory Measurements	Yes 🗖	No 🗌	N/A ^f ⊠
	3	Artefact/Error Detection	Yes 🗖	No 🛛	
	4	Microphone(s)	Yes 🗖	No 🗍	N/A ^f 🖾
	5	Pressure Transducer	Yes 🗖	No 🔀	
	6	Cuffs or Bladders	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 measurements	Yes 🖂	No 🔲	
	15	Printing Facilities	Yes 🗋	No 🔲	N/A ⁸ 🛛
	16	Communication Facilities	Yes 🖾	No · 🛄 · · · · ·	N/A ^g
	17	Power Supply	Yes 🔲	No 🛛	
	18	Other Facilities	Yes 🗖	No 🛄	N/A ^g 🖾

An explanation of each item ticked "Yes" must be included in Section B or on a separate sheet.

Provide the name and address of the actual maker of the device. Notes: a

Provide the name and address of the legal manufacturer of the device, even if it is the same as that of the maker.

Provide the name of the brand under which it is sold, even if it is the same as that of the manufacturer or maker.

Provide the model name. If alternative or internal model names are used, include all. Each device must be uniquely identifiable.

Only tick N/A (Not Applicable) if neither device measures blood pressure using the oscillometric method.

Only tick N/A (Not Applicable) if neither device measures blood pressure using the auscultatory method.

Only tick N/A (Not Applicable) if neither device provides printing, communication or other facilities, as appropriate. g

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SECTION B

An explanation for each item, 1 to 18, ticked "Yes" in Section A must be provided here or in an attached document. All differences between the devices must be described.

(6) Cuff

New device has the same cuff size and same bladder but different colors (white / blue) and different materials on outside of cuff (white "faux leather" - PVC)

(9) Model Name or Number

Braun BUA7200 (marketing name ActivScan 9), including regional (language) versions BUA7200WE and BUA7200CEME

(10) Casing

New model has a different housing design and different buttons configuration: dial knob (scroll wheel) with touch sensing buttons

(11) Display

New Device has a color graphic display (dot matrix) based on TFT-LCD technology

(13) SW other than algorithm

New device has advanced functions like 7,14 & 30 days average calculation, graphical and calendar views of memorized readings and embedded tutorials. Visuals on display are also different due to graphic dot-matrix display

(14) Memory capacity/Number of stored measurements

New device has 2x200 readings which are only available for on-device display and also for download thru Bluetooth connection with smartphone

(16) Communication Facilities

New device has Bluetooth Low Energy (BT Smart) communication facitily for download of stored readings and automatic date/time settings when connected to smartphone (dedicated APP required).

SECTION C	Please check that the following are included with the application	
	A manual for the validated device	\boxtimes
	A manual for the device for which equivalence is being sought	\boxtimes
	An image of the validated device	\boxtimes
	An image of the device for which equivalence is being sought	
	An image of the screen layout of validated device*	\boxtimes
	An image of the screen layout of the device for which equivalence is being sought*	
	* Screen layouts shown complete, and without obscuring labels or lines, in manuals need not be included	
SECTION D	Complete all items, bar signatures and seal, online and print. Sign and seal it then send the original to our	address b

email a signed copy of this form, together with the manuals and images for both devices, to info@dableducational.org.

Signature of Director		Company Stamp/Seal
Name	Bill Huang	AVITA CORPORATION
		Richter
Date	15-March-2018	Authorized Signature
Signature of Witness		
Name	Jonathan Chen	AVITA CORPORATION
Address	OF NO 78 SEC 1 KIA	ANG-FURD., SAN WORD DI BERGE, NEWSTAPE HILY 24158 Taiwan R.O.C
Audress	.9F, NO.78, SEC.1, KW	ANG-FURD., SAM Wanning District, News Starger City 24158 Taiwan R.O.C

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Device Equivalence Evaluation Form

Comparison with BRAUN BUA7200 and AViTA BPM64

Devices – Item 9	BRAUN BUA7200	AVITA BPM64
Pictures		
Display image	Full-colour TFT-LCD dot matrix display with bitmap graphics that change with context. Some examples given below:	Classic B&W LCD display:
Validation		ESH 2010 (IP2)
Category	Arm Type Blood Pressure Monitor	Arm Type Blood Pressure Monitor
Casing – Item 10	Dimensions 99.5 * 99 * 141.5 mm (W * H *D)	Dimensions 113 * 140 * 57 mm (W * H *D)
	Ports	Ports

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	Cuff Port	Cuff Port
	<i>Features</i> 2 buttons, 2 touch buttons, 1 dial knob (navigation scroll wheel)	Features 4 buttons
Display – Item 11	<i>Type</i> Full-colour dot matrix TFT LCD	Type TN Segment LCD
Carrying/Mounting Facilities – Item 12	N/A	N/A
Software other than Algorithm – Item 13	New device has a Graphic User Interface (GUI) with a main menu based on icons and dial knob (scroll wheel) navigation. Main functions "measurement" and "home" available with touch buttons. Advanced functions like 7,14 & 30 days average calculation. Graphical and calendar views of memorized readings. Embedded tutorials for accurate measurement and WHO colour chart. Visuals on display are different due to graphic dot-matrix display	Average 3 last measurements Alarms
Memory Capacity Item 14	Number of stored measurements 200 memories x 2 users (2*200)	Number of stored measurements 90 memories x 2 users (2*90)
Printing Facilities Item 15	N/A	N/A
Communication Facilities – Item 16	Bluetooth LE (BT Smart 4.0) to transfer measurement data to smartphone (with dedicated APP)	N/A
Power Supply Item 17	4 * AA Batteries (6V)	4 * AA Batteries (6V)
Other differences	N/A	N/A
Same Criteria	Measurement Accuracy Blood Pressure Accuracy ± 3 mmHg Pulse Accuracy ± 4% Method Oscillometric	Measurement Accuracy Blood Pressure Accuracy ± 3 mmHg Pulse Accuracy ± 4% Method Oscillometric

Ranges	Ranges
Blood Pressure: 40~255mmHg	Blood Pressure: 40~255mmHg
Pulse Rate: 40~199 beat/min.	Pulse Rate: 40~199 beat/min.
Inflation	Inflation
Automatic inflation by internal pump	Automatic inflation by internal pump
Zero pressure check before inflation	Zero pressure check before inflation
Deflation	Deflation
Automatic by exhaust valve	Automatic by exhaust valve
Cuffs (Please state sizes and materials used)	Cuffs (Please state sizes and materials used)
Cuff size: 22-42 cm	Cuff size: 22-42 cm
Bladder dimension: 120 x 235 mm	Bladder dimension: 120 x 235 mm
Materials:	Materials:
 PVC « faux-leather » in white color on cuff outside 	 Polyester in black color on cuff outside
• Stretchy polyester in blue/purple color inside cuff	Stretchy polyester in black color inside cuff
Velcro loop and hook in grey color	Velcro loop and hook in black color
Sensors	Sensors
US-9111-006-S (semiconductor)	US-9111-006-S (semiconductor)
Measurement Records	Measurement Records
YES: SYS, DIA, Pulse, IHB, Date & time	YES: SYS, DIA, Pulse, IHB, Date & time
Measurements other than Blood Pressure	Measurements other than Blood Pressure
Pulse (heart rate)	Pulse (heart rate)
Irregular heartbeat	Irregular heartbeat
Date & time	Date & time
Buttons/Switches	Buttons/Switches
Power	Power
POWER Button (On / Off). Also used to abort measurement	POWER (On / Off) & START Button. Also used to abort
	measurement
Measurement Records	Measurement Records
Records access from GUI menu (History/Graph view)	Memory Recall Buttons – User 1 / User 2
Function	Function

Start measurement Button (touch button)	Average of last 3 measurements for User 1 or User 2
	Alarm setting
Analysis	
N/A	Analysis
E subtration	N/A
Event Marking N/A	Event Marking
N/A	N/A
Display/Symbols/Indicators	
Preparation	Display/Symbols/Indicators
Zero pressure check: during "3-2-1 countdown" animation on LCD	Preparation
	Zero pressure check: Up/Down arrow symbol 🕈
Measurement Procedure	Measurement Procedure
Inflation: show progress bar animation	Inflation: show cuff pressure in numerical value and pulse symbol
Deflation	Deflation
Display Results	Display Results
Post Measurement	Display Results
Systolic blood pressure	Post Measurement
Diastolic blood pressure	Systolic blood pressure
Pulse (heart rate)	Diastolic blood pressure
WHO indicator	Pulse (heart rate)
	WHO indicator
Irregular Heartbeat indicator (IHB)	Irregular Heartbeat indicator (IHB)
Errors, if any (ERROR 0, 1, 2, 3)	Errors, if any (Err 0, 1, 2, 3)
Measurement Records	
YES: SYS, DIA, Pulse, IHB, Date & time	Measurement Records
	YES: SYS, DIA, Pulse, IHB, Date & time
Date and Time	
Yes (visible when measurement completes)	Date and Time
	Yes (always visible)
Power	
Low Battery symbol	Power
Factures	Low Battery symbol
Features Average page view	Features
ANCIARC MARC MICHN	AVG symbol
Not described	
N/A	Not described

	Algorithms Averages and Differences N/A Diagnostic WHO scale with colour-coded background on display Functions N/A	N/A Algorithms Averages and Differences N/A Diagnostic WHO scale Functions N/A
Comparable Criteria	Measurement Records Memory capacity: 200 measurements for 2 users (2*200) Buttons/Switches Home Button (touch button) – for GUI Navigator Dial knob (scroll wheel) for function selection in GUI Enter Button (for confirmation in GUI) in centre of dial knob.	Measurement Records Memory capacity: 90 measurements for 2 users (2*90) Buttons/Switches N/A
	Measurement Records Access thru menu in GUI Function Navigation with dial knob and centre button to access all functions from GUI menu	Measurement Records Memory Recall Buttons–User 1 / User 2 Function Time & Date Setting (SET button) + Alarm Memory view for User 1 or User 2
	Analysis Averages functions accessible from GUI menu Event Marking Delete individual reading from GUI menu (History)	Analysis Last 3 readings average, in memory mode Event Marking N/A
	Communication Bluetooth connection (pairing) menu Display/Symbols/Indicators Post Measurement	Communication N/A Display/Symbols/Indicators
	WHO indicator in 4 colours, with ESH 2013 hypertension level for	Post Measurement WHO indicator, 3-levels (Normal, High-Normal, High)

home use (135/85mmHg)	
Measurement Records Measurements records visible in different views: history graph and monthly calendar	Measurement Records Memory recall number
Date and Time Time and date in EU or US format – selectable by user	Date and Time US format only Communication
Communication Bluetooth pairing progress and status	N/A
 Features All functions accessible in GUI menu: Graphical history view with colour bars Averages (AM, PM and 24-hour) for past 7, 14 and 30 days. Calendar view with colour-coded daily averages User selection and user name. Add/delete user. Device settings Time & date setting and format (EU/US) Bluetooth pairing function Help Function (animated guide) and WHO colour chart 	Features AVG symbol for last 3 measurements Alarms

Comments		
Recommendation	Reco	mmended
Date	23 M	arch 2018