

Declaration of Equivalence Form

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE

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

SECTION A -	- Please complete all items.
-------------	------------------------------

	niko Shinozaki, of a Company Director			a Director of A&D Compnay,Limited, Company name			
hereby stat	e that t	here are no differences tha	it will aff	fect blood pressure mea	suring accurac	cy between th	ie
Maker ^a		Compnay,Limited	Address				
Manufacturer ^b		Compnay,Limited	Address	3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAP 3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAP			
Brand ^c		compilay, Limited	Model ^d	The second secon			-0013 JAFAN
	A&D neasuring	device for which validation is claimed.		UA-654MR re model names are used, include	all.		
blood press	ure me	asuring device and the vali	dated bl	ood pressure measuring	g device		
Maker ^a	A&D	Compnay,Limited	Address	3-23-14 Higashi-ikebu	curo Toshima-l	Ku Tokyo 170	-0013 IAPAN
Manufacturer ^b			Address	3-23-14 Higashi-ikebukuro Toshima-Ku, Tokyo 170-0013 JAPAN			
Brand ^c	A&D compilay, cilinted		Model ^d	3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAPA			
	A&D d blood pre	essure measuring device.	woder	UA-651			
which has p	revious	ly passed the ESH 2010 pr	otocol,	the results of which we	e published as	follows:	
		Claudio Fania, Paolo Pala					lood pressur
		rding to the European Soci					, , , , , , , , , , , , , , , , , , , ,
The only dif	ference	es between the devices invo	nlve the	following components:			
Tick one box for			JIVC LIIC	ronowing components.			
Part I	1	Algorithm for Oscillomet	ric Meas	surements	Yes 🔲	No 🛛	N/A ^e
	2	Algorithm for Auscultato	ry Meas	urements	Yes 🗌	No 🔲	$N/A^f \boxtimes$
	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 🖂	, F
	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 Facili	ties		Yes 🔲	No 🖂	
	13	Software other than Algo	orithm		Yes 🖂	No 🔲	
	14	Memory Capacity/Numb		red measurements	Yes 🖂	No 🔲	
	15	Printing Facilities			Yes 🔲	No 🔲	N/A ^g ⊠
	16	Communication Facilities	i		Yes 🔲	No 🔲	N/A ^g ⊠
	17	Power Supply			Yes 🗌	No ⊠	
()	18	Other Facilities		2000-00-00-00-00-00-00-00-00-00-00-00-00	Yes 🔲	No 🗵	N/A ^g

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

Notes:

- a Provide the name and address of the actual maker of the device.
- b Provide the name and address of the legal manufacturer of the device, even if it is the same as that of the maker.
- c Provide the name of the brand under which it is sold, even if it is the same as that of the manufacturer or maker.
- d Provide the model name. If alternative or internal model names are used, include all. Each device must be uniquely identifiable.
- e Only tick N/A (Not Applicable) if neither device measures blood pressure using the oscillometric method.
- f Only tick N/A (Not Applicable) if neither device measures blood pressure using the auscultatory method.
- g Only tick N/A (Not Applicable) if neither device provides printing, communication or other facilities, as appropriate.

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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.

5)The pressure sensor is replaced to a piezo electric sensor from an electrostatic capacitive sensor, but the accuracy of blood pressure measurement is equivalent between the two sensors.

9)The equivalent device model name:UA-654MR

10)Difference of case design. Both devices have the different casing.

13) Difference of memory capacity

14)UA-654MR: 60 measurements, UA-651: 30 measurements

SECTION C

Please check that the following are included with the application

A manual for the validated device

A manual for the device for which equivalence is being sought

Completed DET9 Form

An image of the device for which equivalence is being sought

An image of the screen layout of validated device*

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 separately.

SECTION D

Complete all items, bar signatures and seal, online and print. Sign and seal it then send the original to our address below. Please email a signed copy of this form, together with the manuals and images for both devices, to info@dableducational.org.

Company Stamp/Seal

Signature of Director

Yasuhiko Shinozaki

Name Date

18 June 2019

Signature of Witness

Shinobu Ozaki

Name Address

3-23-14 Higashi-ikebukuro Toshima-Ku, Tokyo 170-0013 JAPAN



Device Equivalence Evaluation Form

Comparison of the AND UA-654MR with the AND UA-651

Devices – Item 9	AND UA-654MR	AND UA-651
Pictures		
Display Image	1888 1888	1888 ■ 888 ■ 888 ■ 888
Validation		ESH 2010
Category	Upper Arm Blood pressure monitor	Upper Arm Blood pressure monitor
Casing – Item 10	Approx: 106 [W] × 67 [H] × 143 [D] mm Excluding the cuff holder	Dimensions Approx: 96 [W] × 68 [H] × 130 [D] mm
	Ports Cuff port AC adaptor port	Ports Cuff port AC adaptor port
	start Button Brand logo printing Model name printing SYS, DIA, PUL printing	start button Brand logo printing Model name printing SYS, DIA, PUL printing

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Device Equivalence Evaluation Form

	WHO Classification	WHO Classification		
Display – Item 11	Type liquid crystal display	Type liquid crystal display		
Carrying/Mounting Facilities – Item 12	N/A	N/A		
Software other than Algorithm – Item 13	No	No		
Memory Capacity Item 14	Number of stored measurements Last 60 measurements	Number of stored measurements Last 30 measurements		
Printing Facilities Item 15	N/A	N/A		
Communication Facilities – Item 16	N/A	N/A		
Power Supply Item 17	4×1.5V batteries(R6P, LR6 or AA) or AC adapter(TB-233C) (optional)	4×1.5V batteries(R6P, LR6 or AA) or AC adapter(TB-233C) (optional)		
Other differences	Other Details on Equivalent device that are different to Validated device Sensors Semiconductor sensor	Other Details on Validated device that are different to Equivalent device Sensors Capacitance sensor		
Same Criteria	Measurement Accuracy Pressure: ±3 mmHg Pulse: ±5 % Method Oscillometric measurement Ranges Pressure: 0 - 299 mmHg Systolic pressure: 60 - 279 mmHg Diastolic pressure: 40 - 200 mmHg Pulse: 40 - 180 beats/minute	Measurement Accuracy Pressure: ±3 mmHg Pulse: ±5 % Method Oscillometric measurement Ranges Pressure: 0 - 299 mmHg Systolic pressure: 60 - 279 mmHg Diastolic pressure: 40 - 200 mmHg Pulse: 40 - 180 beats/minute		

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Deflation

Constant speed deflation

Cuffs (Please state sizes and materials used)

22-32cm Nylon

Sensors

Semiconductor sensor

Measurement Records

SYS, DIA, PUL

Measurements other than Blood Pressure

Heart rate

WHO classification

Buttons/Switches

Power

Start button

Measurement Records

Memory recall button – Start button for 3sec

Function

N/A

Analysis

N/A

Event Marking

N/A

Communication

N/A

Display/Symbols/Indicators

Preparation

Zero is blinking

Deflation

Constant speed deflation

Cuffs(Please state sizes and materials used)

22-32cm Nylon

Sensors

Capacitance sensor

Measurement Records

SYS, DIA, PUL

Measurements other than Blood Pressure

Heart rate

WHO classification

Buttons/Switches

Power

Start button

Measurement Records

Memory recall button – Start button for 3sec

Function

N/A

Analysis

N/A

Event Marking

N/A

Communication

N/A

Display/Symbols/Indicators

Preparation

Zero is blinking

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Device Equivalence Evaluation Form

Measurement Procedure Measurement Procedure Pressure value Pressure value Heart mark Heart mark Pressure bar indicator Pressure bar indicator Post Measurement Post Measurement Systolic blood pressure Systolic blood pressure Diastolic blood pressure Diastolic blood pressure Pulse rate Pulse rate WHO classification WHO classification Measurement Records Measurement Records Systolic blood pressure Systolic blood pressure Diastolic blood pressure Diastolic blood pressure Pulse rate Pulse rate WHO classification WHO classification Memory mark symbol Memory mark symbol Memory number Memory number Date and Time Date and Time N/A N/A Power Power Battery detection symbol Battery detection symbol Function **Function** Average data Average data Communication Communication N/A N/A Features Features N/A N/A Not described Not described N/A N/A **Algorithms Algorithms Averages and Differences Averages and Differences**

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Device Equivalence Evaluation Form

	N/A	N/A
	Diagnostic N/A	Diagnostic N/A
	Functions N/A	Functions N/A
	Communication N/A	Communication N/A
Comparable Criteria		

Comments		Satisfactory explanation received for sensor/transducer.		
Recommendation	endation Recommended			
Date	05 Ju	ly 2019		

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