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Preventive Maintenance Action Report

EQUIPMENT : SCANNING SYSTEMS, ULTRASONIC, GENERAL-PURPOSE

ID CODE : PTP00365

MANUFACTURER : GE HEALTHCARE

MODEL : VIVID S5 SERIAL No. : 0197VS5

LOCATION : I.C.U

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

670/1 Phaholyothin Road, Samsen Nai, Phaya Thai, Bangkok 10400

Tel: 02-271-7000 Fax: -

PM. DATE : 25 APRIL 2024 ISSUE DATE : 1 MAY 2024

Supatcha

SUPATCHA BUAPUEAN

Performed by : _____ Approved by : _____

PHUWASIN YIWKIM

CONDITION OF THIS RESULT OF TEST

1. REFERENCE STANDARD INSTRUMENT:

MASTER	MANUFACTURER	MODEL	SERIAL NO.	CERTIFICATE NO.	DUE DATE
MULTI-	SUN NUCLEAR	SONO403	802259-5417-1	CALPM09230038	19 Sep 2024
PURPOSE,					
MULTI-TISSUE					
ULTRASOUND					
PHANTOM					
Electrical Safety	Fluke	ESA615	3494034	23MD774	7 Jun 2024
Analyzer					
Vitalsign Simulator	Fluke	ProSim8	2541031	23MD777	7 Jun 2024

2. THIS CERTIFICATION IS TRACEABLE TO:

- National Healthcare Systems
- Technology Promotion Association (Thai-Japan)
- Technology Promotion Association (Thai-Japan)

3. THIS RESULT OF TEST WAS FOUND ACCURATE AS SHOW ON DATE AND PLACE OF TEST ONLY



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1. Qualitative Tests

No.	List	Pass	Fail	None	Comment
1	Chassis/Housing	/			
2	Mount/Fasteners	/			
3	Casters/Brakes	/			
4	AC Plug/Receptacles	/			
5	Line Cord	/			
6	Strain Reliefs	/			
7	Circuit Breaker/Fuse	/			
8	Cables	/			
9	Fittings/Connectors	/			
10	Transducers	/			
11	Filters	/			
12	Controls/Switches	/			
13	Fans	/			
14	Indicators/Displays	/			
15	Time/Date Settings	/			
16	Self-Test	/			
17	Cybersecrity			/	
18	User Calibration	/			
19	Audible Signals	/			
20	Labeling	/			
21	Accessories	/			

2. Mains Voltage

No.	List	Pass	Fail	None	Comment
1	Line (Live) to Neutral ≈ 230 Vac	/			228.8 V
2	Line (Live) to Earth ≈ 230 Vac	/			0.3 V
3	Neutral to Earth ≈ 0 Vac	/			228.8 V

3. Quantitative Tests

No.	List	Pass	Fail	None	Comment
1	Ground Resistance ≤0.5 Ω	/			0.492 Ω
2	Chassis Leakage Current ≤ 500 µA [ungrounded]	/			55.5 μΑ
	patient-care equipment				



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3. Quantitative Tests (Continues)

No.	List	Pass	Fail	None	Comment
3	Lead-to-Ground Leakage Current ≤100 μA	/			4.0 μA Probe 1 Name:
	grounded; ≤500 μA ungrounded				3S-RS SN:
					851456WX4
4	Lead-to-Ground Leakage Current ≤100 μA			/	
	grounded; ≤500 μA ungrounded				
5	Rate Calibration (ECG) 60,80,120 BPM ±5%	/			HR = 60, 80, 120 BPM

4. Probe Test Probe 1

No.	List	Pass	Fail	None	Comment
1	Dead Zone	/			0.56 cm
2	Resolution	/			
3	Measure Caliper Accuracy - Vertical Plane. ± 5%	/			- Vertical Plane. 4 cm.
					= 4.01 cm
4	Measure Caliper Accuracy - Horizontal Plane. ±	/			- Horizontal Plane. 3
	5%				cm. = 3.06 cm
5	Image Uniformity	/			
6	Measure Image Penetration	/			
7	Check Anechoic Image	/			

5. Probe Test Probe 2

No.	List	Pass	Fail	None	Comment
1	Dead Zone			/	
2	Resolution			/	
3	Measure Caliper Accuracy - Vertical Plane. ± 5%			/	- Vertical Plane. 4 cm.
					= cm
4	Measure Caliper Accuracy - Horizontal Plane. ±			/	- Horizontal Plane. 3
	5%				cm. = cm
5	Image Uniformity			/	
6	Measure Image Penetration			/	
7	Check Anechoic Image			/	



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8. Preventive Maintenance

No.	List	Pass	Fail	None	Comment
1	Clean the exterior and accessories	/			
2	Lubricate			/	
3	Adjust			/	
4	Replace			/	

Electrical Safety Test: Master used Electrical Safety Analyzer (Metron / QA-90) according to IEC.60601.1

FI-BME-NHS-CP-001/3 Rev.09 Page 4/4 Issued Date 20/07/2023