



Report No.: FA980128

Maximum Permissible Exposure (Nerve Stimulation)

FCC ID : U4G-Q10SSDL

: Dock Equipment

Brand Name : DATALOGIC

Model Name : DOCK, SINGLE SLOT, CHARGE, MEMOR 20

Applicant/

: DATALOGIC S.R.L. Manufacturer

VIA SAN VITALINO 13 40012 LIPPO DI CALDERARA DI RENO (BO), ITALY

Standard : 47 CFR Part 2.1091

The product was received on Aug. 02, 2019, and testing was started from Aug. 12, 2019 and completed on Aug. 12, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB680106 D01 RF Exposure Wireless Charging Apps v03 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of United States government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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Maximum Permissible Exposure

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History of this test report

Report No.	Version	Description	Issued Date
FA980128	01	Initial issue of report	Dec. 03, 2019
		Revised accessories information	
FA980128	02	(This report is the latest version replacing for the	Dec. 04, 2019
		report issued on Dec. 03, 2019.)	

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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.6	-	Maximum Permissible Exposure	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None.

Reviewed by: Sam Tsai

Report Producer: Michelle Tsai

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1 Human Exposure Assessment

1.1 Maximum Permissible Exposure

1.1.1 Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)			
0.3-3.0	614	1.63	(100)*	6			
3.0-30	1842 / f	4.89 / f	(900 / f ²)*	6			
30-300	61.4	0.163	1.0	6			
300-1500	-	-	F/300	6			
1500-100,000	-	-	5	6			
	Limits for General	Population / Uncont	rolled Exposure				
Frequency Range (MHz)							
0.3-1.34	614	1.63	(100)*	30			
1.34-30	824/f	2.19/f	(180/f ²)*	30			
30-300	27.5	0.073	0.2	30			
300-1500	-	-	F/1500	30			
1500-100,000	-	-	1.0	30			

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Note 1: f = frequency in MHz; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2.1091
- KDB680106 D01 RF Exposure Wireless Charging Apps v03

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1.3 Testing Location Information

	Testing Location							
	HWA YA ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.							
		TEL	: 886-3-327-	3456 FAX :	886-3-327-0973			
	Test site Designation No. TW1190 with FCC.							
Te	Test Condition Test Site No. Test Engineer Test Environment Test Date							
RF Conducted TH06-HY			TH06-HY	Gary	23.7~24.3°C / 61~63%	12/Aug/2019		

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1.4 Accessories

	Accessories Information					
Type-C cable	Signal Line	1.2 meter, shielded cable, w/o ferrite core				

Note: Regarding to more detail and other information, please refer to user manual.

1.5 Support Equipment

	Support Equipment							
No.	No. Equipment Brand Name Model Name FCC ID							
1	Phone	DATALOGIC	-	-				
2	AC Adapter	CHAnnEL WELL	2ACP0183	-				

Note: Support equipment No.2 was provided by customer.

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Maximum Permissible Exposure

Where Z_0 = Free Space Impedance = 377 Ω

The Worst Condition 1.6

Ancillary Equipment	Charging Condition	Worst Charging Condition	
Phone	Charging Mode	Charging Mode	

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1.6.1 **Test Method**

	Test Method							
		rformed aggregate both leakage E-field and H-field at surrounding the device from all simultaneous nsmitting coils.						
\boxtimes	During testing, the EUT was placed on a non-conductive table top and the ancillary equipment (e.g., phone) was placed on the EUT for charging. Maximum E-field and H-field measurements were tested from each side of the EUT. Along the side of the EUT to center of E-field probe and H-field probe positioned at the location to search maximum field strength.							
\boxtimes	E-f	ield transfer to H-field						
		E-field = $Z_0 \times H$ -field H-field = F-field $\div Z_0$						

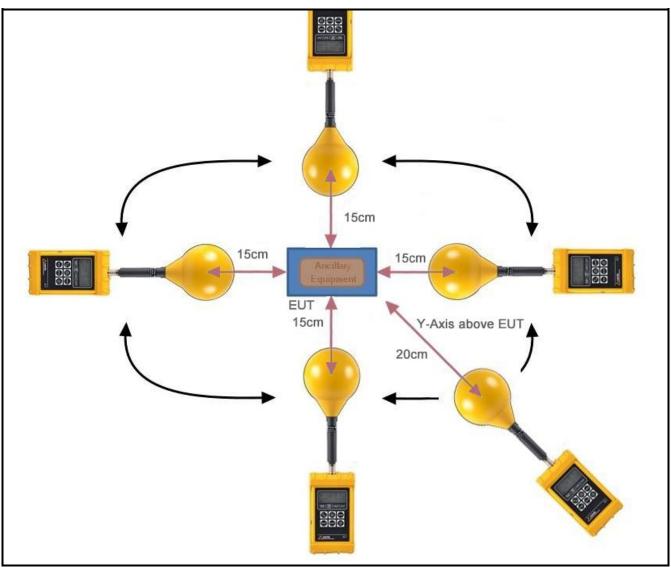
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1.6.2 Test Setup



Note1: find worst position for each axis.

Note2 : This shall be measured as the distance from the edge of the device to the center of the measurement probe.

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1.6.3 Result of Maximum Permissible Exposure

Maximum Permissible Exposure							
Charging Condition	Separation	E-field (V/m)	H-field (A/m)				
Operating	15cm	Left	0.77	0.002			
Operating	15cm	Right	0.62	0.002			
Operating	15cm	Тор	0.94	0.003			
Operating	15cm	Bottom	0.9	0.002			
Operating	Operating 15cm		0.68	0.002			
	Limit	614	1.63				
ı	Margin Limit (%	0.15%	0.15%				

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2 Test Equipment and Calibration Data

Instrument for Conducted Test

istrument for Conducted Test								
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date		
B-Field Probe	Narda Safety Test Solutions GmbH	B-Field Probe 100 cm ²	M-0652	50Hz~400kHz	20/Jul/2018	19/Jul/2020		
Exposure Level Tester	Narda Safety Test Solutions GmbH	ELT-400	N-0210	100kHz~3MHz	20/Jul/2018	19/Jul/2020		
Probe EF	Narda Safety Test Solutions GmbH	0391 E-Field	D-0667	0.1MHz ~ 3GHz	20/Jul/2018	19/Jul/2020		
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	E-0847	0.1MHz ~ 3GHz	20/Jul/2018	19/Jul/2020		

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