

Page: 1 of 6



RF EXPOSURE REPORT





FCC Applicant: Optioon Sensors Europe B.V.

Opaallaan 35, 2132 XV Hoofddorp, The Netherlands

FCC Manufacturer: Opticon Sensors Europe B.V.

Opaallaan 35, 2132 XV Hoofddorp, The Netherlands

Product Name: Companion Scanner

Brand Name: OPTICON

Model No.: OPN-6000

Model Difference: N/A

Report Number: TESA2402000091ES

FCC ID Q2Q-OPN6000

Date of EUT Received: Feb. 20, 2024

Issue Date: Mar. 15, 2024

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1093.

The results of this report relate only to the sample identified in this report.

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Report No.: TESA2402000091ES

Page: 2 of 6

Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2402000091ES	00	Original	Mar. 15, 2024	Kimmy Chiou	

Note:

1 . The remark "*" indicates modification of the report upon requests from certification body.

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Report No.: TESA2402000091ES

Page: 3 of 6

Table of Contents

1	DES	SCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
		Product Description	
		Antenna Information:	
2		XPOSURE EVALUATION FOR PORTABLE CONDITIONS	
		FCC Standard Applicable:	_
		Maccurement Popult	6

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Page: 4 of 6



DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

Product Description

Product Name:	Companion Scanner
Brand Name:	OPTICON
Model No.:	OPN-6000
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	PP0041
Power Supply:	3.7Vdc from battery or 5Vdc from USB Cable

1.2 **Antenna Information:**

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Chip	2400~2483.5	1.70

The antenna information is provided by the applicant.

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Report No.: TESA2402000091ES

Page: 5 of 6

RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

2.1 **FCC Standard Applicable:**

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.1.1 As per KDB 447498 D01 4.3.1,

Step a: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\lceil \sqrt{f(GHz)} \rceil \le 3.0$ for 1-g Head & Body SAR and ≤ 7.5 for 10-g extremity Hand SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below
- Step b: For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):
 - 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance - 50 mm) · (f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
 - 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·10]} mW, for > 1500 MHz and \leq 6 GHz
- Step c: For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):
 - 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by [1 + log(100/f(MHz))]
 - 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by 1/2
 - 3) SAR measurement procedures are not established below 100 MHz

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Page: 6 of 6



2.2 Measurement Result:

Step a:

This is a portable device and the max. output power including tune-up tolerance is 5.012 (mW), lower than the threshold given and derived as formula given above, where

 $=5.012 (\text{mW})/5 (\text{mm})^* \sqrt{2.402} (\text{GHz}) = 1.554 < 3.0$

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)			Result	≤ 3.0 for 1-g SAR
2402	7	5.012	5	1.554	TRUE

As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

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