

Dental Imaging Technologies Corporation

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

DEXIS Improvo

REPORT NUMBER:

2412B1752SHA-003

ISSUE DATE:

January 23, 2025

DOCUMENT CONTROL NUMBER:

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Applicant : Dental Imaging Technologies Corporation
450 Commerce Drive Quakertown, PA USA 18951

Manufacturer : Dental Imaging Technologies Corporation
450 Commerce Drive Quakertown, PA USA 18951

FCC ID : 2A7FY-IMPRESSO

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC PART 1 SECTION 1.1310

PREPARED BY:

Project Engineer
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REVIEWED BY:

Reviewer
Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
2412B1752SHA-003	Rev. 01	Initial issue of report	January 23, 2025

Measurement result summary

TEST ITEM	FCC REFERENCE	TEST RESULT	NOTE
RF Exposure	1.1310	Pass	-

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	I/O 3D Scanner
Type/Model:	DEXIS Imprevo
Description of EUT:	The product covered by this report is a digital optical scanning device used to record the topographic characteristics of teeth or dental impressions in three dimensions. It has only one model.
Rating:	Powered by DEXIS 1INR19/66 battery: 3.635 V, 3500 mAh, 12.7 Wh Charging Station: Input: 12 V DC/2.5 A Output: 15 W
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	02
Sample received date:	December 13, 2024
Date of test:	December 13, 2024 – January 5, 2024

1.2 Technical Specification

Frequency Range:	111kHz – 200kHz
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1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310

KDB 680106 D01 RF Exposure Wireless Charging App v03

2.2 Mode of operation during the test

Within this test report, EUT was tested under its rating voltage and frequency (120V, 60Hz).
The 1%/50%/100% battery capacity was tested and the 1% battery capacity was worst case.

2.3 Test peripherals list

Item No.	Name	Band and Model	Description
-	-	-	-

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	24	53	101

2.5 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Emf meter	Narda	elt-400	EC2928	2025-07-15
☒	Broadband field meter	Narda	Nbm-550	EC 6113	2025-04-07
☒	Probe ef 0391	Narda	Ef 0391	EC 6113-1	2025-04-07
☒	Probe hf 0361	Narda	Hf3061	EC 6113-2	2025-04-07
☒	EMF meter	Narda	ehp-50f	EC 6527	2025-09-17

2.6 Measurement uncertainty

Test Items	Expanded Uncertainty (k=2)
H-field	0.9 dB
E-field	1.1 dB

3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

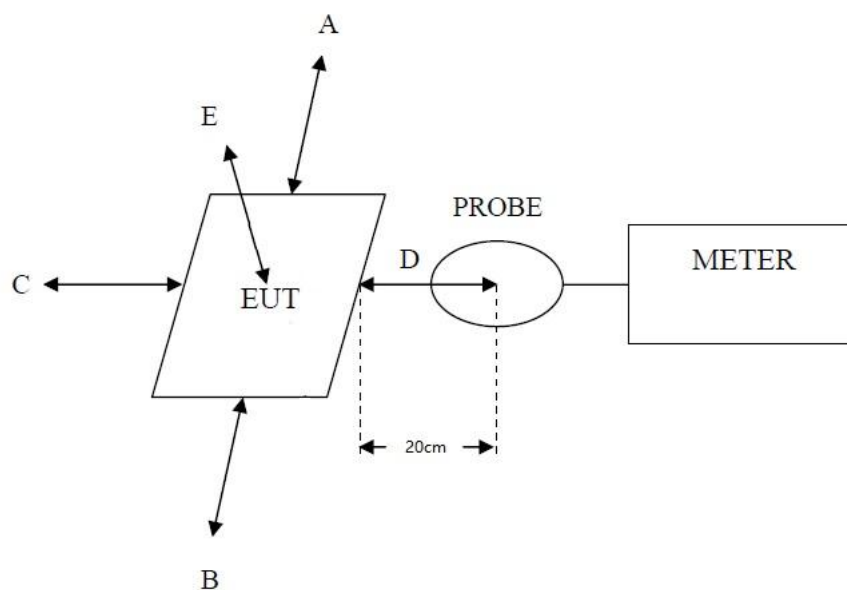
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	30
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 – 1 500	-	-	f/1500	30
1 500 – 100 000	-	-	1.0	30

Limits for Occupational/Controlled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	6
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 – 1 500	-	-	f/300	6
1 500 – 100 000	-	-	5	6

3.2 Assessment Configuration



TEST REPORT

3.3 Assessment Results

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (Pass/Fail)
A: Right	20	0.042	1.63 *0.5	Pass
B: Left	20	0.155	1.63 *0.5	Pass
C: Front	20	0.051	1.63 *0.5	Pass
D: Back	20	0.034	1.63 *0.5	Pass
E: Top	20	0.245	1.63 *0.5	Pass

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result (Pass/Fail)
A: Right	20	2.16	614 *0.5	Pass
B: Left	20	4.11	614 *0.5	Pass
C: Front	20	2.31	614 *0.5	Pass
D: Back	20	2.11	614 *0.5	Pass
E: Top	20	4.45	614 *0.5	Pass

***** END *****