

Dental Imaging Technologies Corporation

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

DEXIS Improvo

REPORT NUMBER:

2407B0784SHA-003

ISSUE DATE:

December 4, 2024

DOCUMENT CONTROL NUMBER:

TTRFFCCMPE-02_V1 © 2018 Intertek



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-IMPREVO

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
Erick Liu

REVIEWED BY:

Reviewer
Wakeyou Wang

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Revision History

Report No.	Version	Description	Issued Date
2407B0784SHA-003	Rev. 01	Initial issue of report	December 4, 2024

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 Improve
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:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	September 13, 2024
Date of test:	September 13, 2024 – September 14, 2024

1.2 Technical Specification

Frequency Range:	111kHz – 200kHz
------------------	-----------------

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
<input checked="" type="checkbox"/>	Emf meter	Narda	elt-400	EC2928	2025-07-15
<input checked="" type="checkbox"/>	Broadband field meter	Narda	Nbm-550	EC 6113	2025-04-07
<input checked="" type="checkbox"/>	Probe ef 0391	Narda	Ef 0391	EC 6113-1	2025-04-07
<input checked="" type="checkbox"/>	Probe hf 0361	Narda	Hf3061	EC 6113-2	2025-04-07
<input checked="" type="checkbox"/>	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

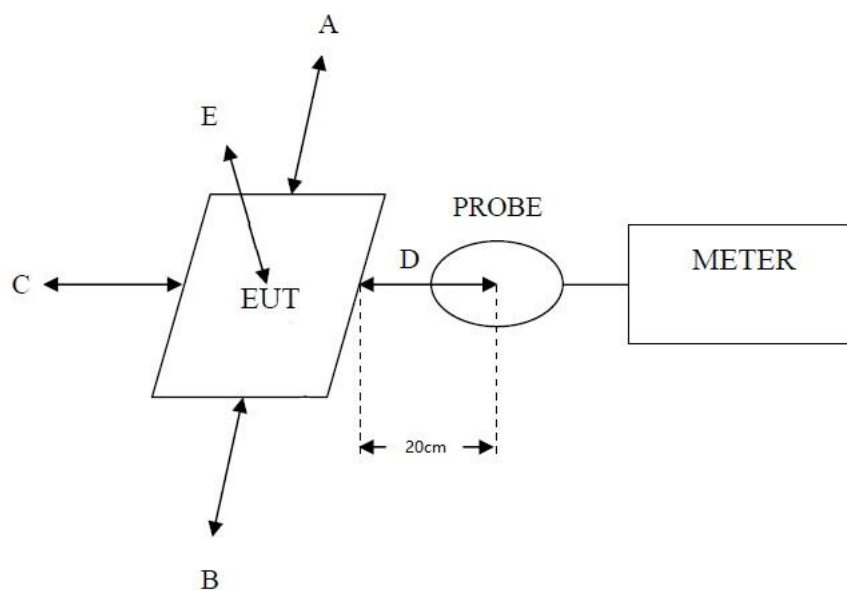
Limits for General Population/Uncontrolled Exposure

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	0.041	1.63 *0.5	Pass
B: Left	20	0.259	1.63 *0.5	Pass
C: Front	20	0.047	1.63 *0.5	Pass
D: Back	20	0.021	1.63 *0.5	Pass
E: Top	20	0.035	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	2.54	614 *0.5	Pass
B: Left	20	5.34	614 *0.5	Pass
C: Front	20	2.58	614 *0.5	Pass
D: Back	20	2.67	614 *0.5	Pass
E: Top	20	3.54	614 *0.5	Pass

***** END *****