

RF Exposure Evaluation
For
Screeneo Innovation SA
Digital Projector
Test Model: NeoPix 140
Additional Model No.: Please Refer to Page 6

Prepared for : Screeneo Innovation SA
Address : Route de Lully 5C 1131 Tolochenaz, Switzerland.

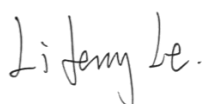
Prepared by : Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : May 22, 2025
Number of tested samples : 2
Sample No. : A250508058-1, A250508058-2
Serial number : Prototype
Date of Test : May 22, 2025 ~ July 25, 2025
Date of Report : July 28, 2025

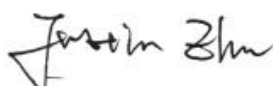
RF Exposure Evaluation	
Report Reference No.	LCSA05095141ED
Date of Issue.....	July 28, 2025
Testing Laboratory Name	Guangzhou LCS Compliance Testing Laboratory Ltd.
Address.....	No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China
Testing Location/ Procedure.....	Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name	Screeneo Innovation SA
Address.....	Route de Lully 5C 1131 Tolochenaz, Switzerland.
Test Specification	
Standard.....	FCC KDB publication 447498 D01 General RF Exposure Guidance v06 FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1091
Test Report Form No.	TRF-4-E-215 A/0
TRF Originator.....	Guangzhou LCS Compliance Testing Laboratory Ltd.
Master TRF.....	Dated 2011-03
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Test Item Description	Digital Projector
Trade Mark.....	PHILIPS
Test Model.....	NeoPix 140
Ratings.....	Please Refer to Page 6
Result	PASS

Compiled by:



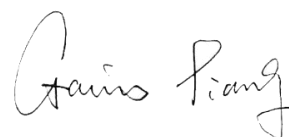
Lifeng Le/ Administrator

Supervised by:



Justin Zhu/ Technique principal

Approved by:



Gavin Liang/ Manager

RF Exposure Evaluation

Test Report No. : LCSA05095141ED	<u>July 28, 2025</u> Date of issue
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EUT.....	: Digital Projector
Test Model.....	: NeoPix 140
Applicant.....	: Screeneo Innovation SA
Address.....	: Route de Lully 5C 1131 Tolochenaz, Switzerland.
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Screeneo Innovation SA
Address.....	: Route de Lully 5C 1131 Tolochenaz, Switzerland.
Telephone.....	: /
Fax.....	: /
Factory.....	: /
Address.....	: /
Telephone.....	: /
Fax.....	: /

Test Result	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	July 28, 2025	Initial Issue	---

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1. Product Information

EUT : Digital Projector

Test Model : NeoPix 140

Additional Model No. : NPX140

Model Declaration : PCB board, structure and internal of these model(s) are the same, So no additional models were tested

Ratings : For EUT Input: 12.0V $\Rightarrow$ 3.0A
For AC Adapter: Input: 100-240V~, 50-60Hz, 1A
Output: 12.0V $\Rightarrow$ 3.0A, 36.0W

Hardware Version : V6.60

Software Version : /

WIFI(2.4G Band) :

Frequency Range : 2412MHz~2462MHz

Channel Number : 11 Channels for 20MHz bandwidth (2412~2462MHz)
7 Channels for 40MHz bandwidth (2422~2452MHz)

Channel Spacing : 5MHz

Modulation Type : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)
IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Antenna Description : FPC Antenna, 1.21dBi(Max.)

WIFI(5.2G Band) :

Frequency Range : 5180MHz~5240MHz

Channel Number : 4 Channels for 20MHz bandwidth(5180MHz~5240MHz)
2 channels for 40MHz bandwidth(5190MHz~5230MHz)

Modulation Type : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna Description : FPC Antenna, 1.23dBi(Max.)

WIFI(5.8G Band) :

Frequency Range : 5745MHz~5825MHz

Channel Number : 5 channels for 20MHz bandwidth(5745MHz~5825MHz)
2 channels for 40MHz bandwidth(5755MHz~5795MHz)

Modulation Type : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna Description : FPC Antenna, 1.23dBi(Max.)

Exposure category : General population/uncontrolled environment

EUT Type : Production Unit

Device Type : Mobile Device

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

2. Evaluation Method

Guangzhou LCS Compliance Testing Laboratory Ltd.

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Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3.1 Refer Evaluation Method

[ANSI C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.

3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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 Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Uncontrolled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

F=frequency in MHz

*=Plane-wave equivalent power density

4. MPE Calculation Method

Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Internal/ External Identification	Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Notes
Internal	FPC Antenna	2400MHz ~ 2500MHz 5000MHz ~ 6000MHz	2.4GWIFI: 1.21dBi 5GWIFI: 1.23dBii	WIFI Antenna

6. Conducted Power**[2.4G WIFI]**

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11B	1	2412	14.74
	6	2437	14.07
	11	2462	14.37
11G	1	2412	14.29
	6	2437	14.49
	11	2462	14.83
11N20 SISO	1	2412	13.67
	6	2437	13.84
	11	2462	13.08
11N40 SISO	3	2422	13.29
	6	2437	13.1
	9	2452	13.92

[5.2G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	36	5180	11.74
	40	5200	11.95
	48	5240	12.77
11N20 SISO	36	5180	11.31
	40	5200	11.12
	48	5240	11.27
11N40 SISO	38	5190	10.91
	46	5230	10.37
11AC20 SISO	36	5180	11.29
	40	5200	11
	48	5240	11.36
11AC40 SISO	38	5190	11.02
	46	5230	10.41

[5.8G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	149	5745	11.79
	157	5785	11.73
	165	5825	11.54
11N20 SISO	149	5745	11.64
	157	5785	11.14
	165	5825	10.9
11N40 SISO	151	5755	11.17
	159	5795	11.07
11AC20 SISO	149	5745	11.76
	157	5785	11.1
	165	5825	10.92
11AC40 SISO	151	5755	10.9
	159	5795	11.01

7. Manufacturing Tolerance**[2.4G WIFI]**

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	14.0	14.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	14.0	14.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	13.0	13.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	13.0	13.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[5.2G WIFI]

11A (AVG)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	12.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(AVG)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(AVG)			
Channel	Channel 38	Channel 46	
Target (dBm)	10.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC20(AVG)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC40(AVG)			
Channel	Channel 38	Channel 46	
Target (dBm)	11.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	

[5.8G WIFI]

11A (AVG)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(AVG)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(AVG)			
Channel	Channel 151	Channel 159	
Target (dBm)	11.0	11.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC20(AVG)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC40(AVG)			
Channel	Channel 151	Channel 159	
Target (dBm)	10.0	11.0	
Tolerance $\pm$ (dB)	1.0	1.0	

8. Measurement Results

8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r=20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[2.4G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11b	15.0	31.6228	1.21	1.3213	0.0083	1.0000
IEEE 802.11g	15.0	31.6228	1.21	1.3213	0.0083	1.0000
IEEE 802.11n HT20	14.0	25.1189	1.21	1.3213	0.0066	1.0000
IEEE 802.11n HT40	14.0	25.1189	1.21	1.3213	0.0066	1.0000

[5.2G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	13.0	19.9526	1.23	1.3274	0.0053	1.0000
IEEE 802.11n HT20	12.0	15.8489	1.23	1.3274	0.0042	1.0000
IEEE 802.11n HT40	11.0	12.5893	1.23	1.3274	0.0033	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	1.23	1.3274	0.0042	1.0000
IEEE 802.11ac VHT40	12.0	15.8489	1.23	1.3274	0.0042	1.0000

[5.8G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	12.0	15.8489	1.23	1.3274	0.0042	1.0000
IEEE 802.11n HT20	12.0	15.8489	1.23	1.3274	0.0042	1.0000
IEEE 802.11n HT40	12.0	15.8489	1.23	1.3274	0.0042	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	1.23	1.3274	0.0042	1.0000
IEEE 802.11ac VHT40	12.0	15.8489	1.23	1.3274	0.0042	1.0000

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjusted to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.

8.2 Simultaneous Transmission MPE Evaluation

The sample support one antenna. No need consider simultaneous transmission.

9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

10. Description of Test Facility

CNAS Registration Number is L11555

A2LA Certificate Number: 5099.01

FCC Designation Number is CN1379

Test Firm Registration Number: 729882

11. Measurement Uncertainty

2.4GWIFI/5GWIFI:

Test Item		Frequency Range	Uncertainty	Note
Output power	:	1GHz-40GHz	$\pm 0.57\text{dB}$	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

-----THE END OF REPORT-----