

Prüfbericht-Nr.: <i>Test report no.:</i>	CN25TN8C 004	Auftrags-Nr.: <i>Order no.:</i>	168568654	Seite 1 von 11 Page 1 of 11
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-08-06	
Auftraggeber: <i>Client:</i>	Dreame Trading (Tianjin) Co., Ltd. Room 2112-1-1, South District, Finance and Trade Center, No.6975 Yazhou Road, Dongjiang Bonded Port Area, Tianjin Pilot Free Trade Zone, 300463 Tianjin, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Dreame NAVO Care SE 1 Incam			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	A121 (Trademark: DREAME)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 47 CFR FCC Part 2.1091 RSS-102 Issue 6			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-08-07	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004057952			
Prüfzeitraum: <i>Testing period:</i>	2025-08-11 - 2025-09-12			
Ort der Prüfung: <i>Place of testing:</i>	Guangdong Dongdian Testing Service Co.,Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	☒ 	genehmigt von: <i>authorized by:</i>	☒ 	
Datum: <i>Date:</i> 2025-09-30	Signed by: Harry W. C. Wu	Ausstellungsdatum: <i>Issue date:</i> 2025-09-30	Signed by: Alex Lan	
Stellung / Position:	Project Manager	Stellung / Position:	Authorizer	
Sonstiges / <i>Other:</i>	FCC ID: 2AXGD-A121 IC: 26444-A121, HVIN: A121 This report is for RF expoure evaluation.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

TEST SUMMARY

3.1.1 RF EXPOSURE COMPLIANCE

RESULT: Pass

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1. TEST SITES

1.1 TEST FACILITIES

Guangdong Dongdian Testing Service Co.,Ltd.

Unit 2,Building 1,No.17,Zongbu 2nd Road, Songshan Lake Park, Dongguan ,Guangdong, China,523808

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

IC Registration No.: 10288A and the CAB identifier is CN0048.

This project was subcontracted by TÜV Rheinland (Shenzhen) Co., Ltd. to Guangdong Dongdian Testing Service Co.,Ltd, and all tests items at the test sites have been conducted under the supervision of a TÜV engineer.

1.2 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

1.3 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

1.4 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendixes of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

1.5 Status of Facility Used for Testing

The Guangdong Dongdian Testing Service Co.,Ltd. Test facility located at Unit 2,Building 1,No.17,Zongbu 2nd Road, Songshan Lake Park, Dongguan ,Guangdong, China,523808 is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

2. GENERAL PRODUCT INFORMATION

2.1 GENERAL DESCRIPTION

The Product is a video camera, which supports Bluetooth LE and 2.4GHz / 5GHz Wi-Fi (802.11 a/b/g/n) functions.

For details refer to the User Manual, Technical Description and Circuit Diagram.

2.2 RATING AND SYSTEM DETAILS

Table 1: Rating of EUT

General Information of EUT	Value
Kind of Equipment:	Dreame NAVO Care SE 1 Incam
Type Designation:	A121
Trademark:	DREAME
FCC ID:	2AXGD-A121
IC:	26444-A121
HVIN:	A121
Operating Voltage:	USB operated (5Vdc, 1A)
Operating Temperature Range:	-20 °C ~ +50 °C
Technical Specification of Bluetooth Low Energy	
Operating Frequency	2402 - 2480 MHz
Type of Modulation	GFSK
Channel Number	40 channels
Channel Separation	2MHz
Data Rate	1Mbps
Antenna Type	FPC Antenna
Antenna Number	1Tx1Rx
Antenna Gain	1.46 dBi (Provided by the Client)
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM/)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 Mbps for 802.11n(HT20) MCS0 ~ MCS7 Mbps for 802.11n(HT40)
Channel Number:	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11b/g/n(HT40)
Channel Separation:	5 MHz
Antenna Type:	FPC Antenna
Antenna Number:	1x1 TRX
Antenna Gain:	1.46 dBi (Provided by the Client)
Technical Specification of 5GHz Wi-Fi	

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Operating Frequency:	5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz
Channel Number:	5180-5240MHz, 8CHs, 802.11 a/n20/n40 5260-5320MHz, 8CHs, 802.11 a/n20/n40 5500-5720MHz, 12CHs, 802.11 a/n20/n40 5745-5825MHz, 7CHs, 802.11 a/n20/n40 Note: 5600-5650MHz band is not used in Canada.
Type of Modulation:	OFDM(BPSK/QPSK/16QAM/64QAM/)
Data Rate:	6/9/12/18/24/36/48/54 Mbps for 802.11a MCS0~MCS7 for 802.11n
Channel Separation:	20MHz / 40MHz
DFS	Client Without Radar Detection
Antenna Type:	FPC Antenna
Antenna Number:	1x1 TRX
Antenna Gain:	2.04 dBi (Provided by the Client)

3. Test Results

3.1 Transmitter Requirements & Test Suites

3.1.1 RF Exposure Compliance

RESULT:**Pass**

Test standard	:	RSS-102 Issue 6 FCC Part 1.1091
Limit	:	Table 1 of 47 CFR FCC Part 1.1310 Section 6.6 of RSS-102 Issue 6
Kind of test site	:	Shielded room

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore MPE measurement or computational modelling should be used to determine compliance.

MPE Calculation is based on the conducted power, and considering maximum power and Antenna gain. The following formula is used to MPE evaluation.

$$Pd = \frac{P_{out} * G}{4R^2\pi}$$

Where

P_d = power density in mW/cm² or W/m²

P_{out} = output power to antenna in mW or W

G_{num} = Antenna gain in numeric

π = 3.14159

R = Distance between observation point and the center of radiator in cm or m

3.1.1.1 FCC Part 1.1310, Part 2.1091

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
(B) Limits for General Population/Uncontrolled Exposure				
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

Table 2: Test Results of RF Exposure Calculations for FCC, Stand-alone mode

Operating Mode	Max. EIRP (dBm)	Distance (cm)	MPE (mW/cm ²)	Limit (mW/cm ²)	Verdict
Bluetooth LE	9.19	20	0.002	1.0	Pass
2.4GHz Wi-Fi	17.15	20	0.011	1.0	Pass
5GHz Wi-Fi	22.09	20	0.032	1.0	Pass

1. All above power data cited from RF reports CN25TN8C 001 and CN25TN8C 001 and CN25TN8C 003.
2. According to the EUT characteristic, WLAN 2.4GHz and WLAN 5GHz can't transmit simultaneously.
3. According to the EUT characteristic, WLAN 2.4GHz/5GHz and Bluetooth can't transmit simultaneously.

3.1.1.2 RSS-102 Issue 6, section 6.6: Field reference level exposure exemption limits

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

Table 3: Test Results of RF Exposure Calculations for ISED, Stand-alone

Operating Mode	Max. EIRP (dBm)	Distance (cm)	Maximum EIRP (W)	Threshold power (W)	Verdict
Bluetooth LE	9.19	20	0.0830	2.70	Pass
2.4GHz Wi-Fi	17.15	20	0.5188	2.70	Pass
5GHz Wi-Fi	22.09	20	0.1618	4.52	Pass

1. All above power data cited from RF reports CN25TN8C 001 and CN25TN8C 001 and CN25TN8C 003.
2. According to the EUT characteristic, WLAN 2.4GHz and WLAN 5GHz can't transmit simultaneously.
3. According to the EUT characteristic, WLAN 2.4GHz/5GHz and Bluetooth can't transmit simultaneously.

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