



RADIO TEST REPORT

Applicant	:	Empowerment Technologies Inc.
Address of Applicant	:	590 York Rd., Unit 2 Niagara-on-the-Lake, ON Canada, L0S 1J0
Manufacturer	:	Empowerment Technologies Inc.
Address of Manufacturer	:	590 York Rd., Unit 2 Niagara-on-the-Lake, ON Canada, L0S 1J0
Equipment under Test	:	DEFENDER GO 2K AI POWERED PLUG-IN INDOOR/OUTDOOR HOME, BUSINESS, BABY & PET SECURITY CAMERA
Model No.	:	IP3MCB1A
FCC ID	:	2AV6B-IP3MCB1A
IC	:	26035-IP3MCB1A
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart E, RSS-247 Issue 3 August 2023, ANSI C63.10:2013, RSS-Gen Issue 5 April 2018
Report No.	:	DDT-RE25061119-2E03
Issue Date	:	2025/08/21
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

Applicant	:	Empowerment Technologies Inc.
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Equipment under Test	:	DEFENDER GO 2K AI POWERED PLUG-IN INDOOR/OUTDOOR HOME, BUSINESS, BABY & PET SECURITY CAMERA
Model No.	:	IP3MCB1A
Manufacturer	:	Empowerment Technologies Inc.
Address of Manufacturer	:	590 York Rd., Unit 2 Niagara-on-the-Lake, ON Canada, L0S 1J0

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart E,
RSS-247 Issue 3 August 2023,
ANSI C63.10:2013,
RSS-Gen Issue 5 April 2018

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25061119-2E03		
Date of Receipt:	2025/03/14	Date of Test:	2025/03/14 - 2025/08/06

Created: Zoe Peng	Reviewed: Chen Ziqin	Approved: Ella Gong
		
2025/08/06	2025/08/21	2025/08/21

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2025/08/21	Ella Gong

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6/26db Bandwidth and 99% Bandwidth	FCC 15.407 (e), RSS-247 Clause 7.3.4.2, RSS-247 Clause 7.3.5.2, RSS-GEN Clause 6.7	/	Pass
2	Output Power	FCC 15.407 (a); RSS-247 Clause 7.3.4.3; RSS-247 Clause 7.3.5.3; RSS-GEN Clause 6.12	/	Pass
3	Power Spectral Density	FCC 15.407 (a) ; RSS-247 Clause 7.3.4.3; RSS-247 Clause 7.3.5.3	/	Pass
4	Frequency Stability Measurement	FCC 15.407 (g); RSS-GEN Clause 6.11	/	Pass
5	Radiated Emission	FCC 15.407 (b); FCC 15.209; FCC 15.205; RSS-247 Clause 7.3.1.3; RSS-GEN Clause 6.13	/	Pass
6	Band Edge Compliance	FCC 15.407 (b); FCC 15.209; FCC 15.205; RSS-247 Clause 7.3.1.3; RSS-GEN Clause 6.13	/	Pass
7	Power Line Conducted Emissions	FCC Part 15: 15.207(a), RSS-Gen Issue 5 clause 7.2	/	Pass
8	Dynamic Frequency Selection	FCC 15.407 (h); RSS-247 Clause 7.3.6	/	Pass
9	Antenna Requirement	FCC Part 15: 15.203, RSS-Gen Issue 5 clause 6.8	/	Pass
Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.				

2. General Test Information

2.1. Description of EUT

EUT Name	:	DEFENDER GO 2K AI POWERED PLUG-IN INDOOR/OUTDOOR HOME, BUSINESS, BABY & PET SECURITY CAMERA
Model Number	:	IP3MCB1A
Difference of model number	:	/
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 5V by external adapter
Hardware Version	:	/
Software Version	:	/
Antenna Type	:	FPC Antenna
Max Antenna Gain(dBi)	:	Bluetooth Antenna: 1.79dBi WIFI 2.4G Antenna: 1.79dBi WIFI 5G Antenna: 4.51dBi

TPC	:	Without TPC
Radio Technology	:	IEEE 802.11a/n/ac/ax
Operation frequency	:	U-NII-1: 5180 MHz to 5240 MHz U-NII-2A: 5260 MHz to 5320 MHz U-NII-2C: 5500 MHz to 5720 MHz U-NII-3: 5745 MHz to 5825 MHz
Modulation	:	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) IEEE 802.11ax: OFDM, OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)

Channel information			
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE802.11ac (VHT40) IEEE 802.11ax (HE40)	
UNII-1			
CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	/	/
48	5240	/	/
UNII-2A			
52	5260	54	5270
56	5280	62	5310
60	5300	/	/
64	5320	/	/
UNII-2C			

100	5500	102	5510
104	5520	110	5550
108	5540	118	5590
112	5560	126	5630
116	5580	134	5670
120	5600	142	5710 (Straddle)
124	5620	/	/
128	5640	/	/
132	5660	/	/
136	5680	/	/
140	5700	/	/
144	5720 (Straddle)	/	/
UNII-3			
149	5745	151	5755
153	5765	159	5795
157	5785	/	/
161	5805	/	/
165	5825	/	/
Note: Band 5600-5650MHz will be disabled when shipped to Canada.			

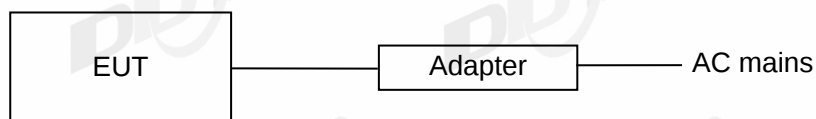
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
AC ADAPTER	Bazhong Chuanyuan	CY- 01050100UU	INPUT: 100-240V~50/60Hz 0.3A MAX OUTPUT: 5.0V $\overline{\text{---}}$ 1.0A 5.0W
Power Cable	/	/	Length: 175cm, without core

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: SecureCRT.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 2 dB (According to the manufacturer's claims)

Tested mode, Tx Power Setting, Data rate, Channel, and Frequency				
Tested mode	Tx Power Setting	Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)
IEEE 802.11a	20	6	LCH: CH36	5180
		6	MCH: CH40	5200
		6	HCH: CH48	5240
		6	LCH: CH52	5260
		6	MCH: CH56	5280
		6	HCH: CH64	5320
		6	LCH: CH100	5500
		6	MCH: CH116	5580
		6	HCH: CH140	5700
		6	Straddle: CH144	5720
		6	LCH: CH149	5745
		6	MCH: CH157	5785
		6	HCH: CH165	5825
IEEE 802.11n HT20	20	MCS 0	LCH: CH36	5180
		MCS 0	MCH: CH40	5200
		MCS 0	HCH: CH48	5240
		MCS 0	LCH: CH52	5260
		MCS 0	MCH: CH56	5280
		MCS 0	HCH: CH64	5320
		MCS 0	LCH: CH100	5500
		MCS 0	MCH: CH116	5580
		MCS 0	HCH: CH140	5700
		MCS 0	Straddle: CH144	5720
		MCS 0	LCH: CH149	5745
		MCS 0	MCH: CH157	5785
		MCS 0	HCH: CH165	5825
IEEE 802.11n HT40	17	MCS 0	LCH: CH38	5190
		MCS 0	HCH: CH46	5230
		MCS 0	LCH: CH54	5270
		MCS 0	HCH: CH62	5310

		MCS 0	LCH: CH102	5510
		MCS 0	MCH: CH110	5550
		MCS 0	HCH: CH134	5670
		MCS 0	Straddle: CH142	5710
		MCS 0	LCH: CH151	5755
		MCS 0	HCH: CH159	5795
IEEE 802.11ac VHT20	20	MCS 0	LCH: CH36	5180
		MCS 0	MCH: CH40	5200
		MCS 0	HCH: CH48	5240
		MCS 0	LCH: CH52	5260
		MCS 0	MCH: CH56	5280
		MCS 0	HCH: CH64	5320
		MCS 0	LCH: CH100	5500
		MCS 0	MCH: CH116	5580
		MCS 0	HCH: CH140	5700
		MCS 0	Straddle: CH144	5720
		MCS 0	LCH: CH149	5745
		MCS 0	MCH: CH157	5785
		MCS 0	HCH: CH165	5825
IEEE 802.11 ac VHT40	17	MCS 0	LCH: CH38	5190
		MCS 0	HCH: CH46	5230
		MCS 0	LCH: CH54	5270
		MCS 0	HCH: CH62	5310
		MCS 0	LCH: CH102	5510
		MCS 0	MCH: CH110	5550
		MCS 0	HCH: CH134	5670
		MCS 0	Straddle: CH142	5710
		MCS 0	LCH: CH151	5755
		MCS 0	HCH: CH159	5795
IEEE 802.11ax HE20	20	MCS 0	LCH: CH36	5180
		MCS 0	MCH: CH40	5200
		MCS 0	HCH: CH48	5240
		MCS 0	LCH: CH52	5260
		MCS 0	MCH: CH56	5280
		MCS 0	HCH: CH64	5320
		MCS 0	LCH: CH100	5500
		MCS 0	MCH: CH116	5580
		MCS 0	HCH: CH140	5700
		MCS 0	Straddle: CH144	5720
		MCS 0	LCH: CH149	5745

IEEE 802.11ax HE40	17	MCS 0	MCH: CH157	5785
		MCS 0	HCH: CH165	5825
		MCS 0	LCH: CH38	5190
		MCS 0	HCH: CH46	5230
		MCS 0	LCH: CH54	5270
		MCS 0	HCH: CH62	5310
		MCS 0	LCH: CH102	5510
		MCS 0	MCH: CH110	5550
		MCS 0	HCH: CH134	5670
		MCS 0	Straddle: CH142	5710
		MCS 0	LCH: CH151	5755
		MCS 0	HCH: CH159	5795
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to 106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

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

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

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

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

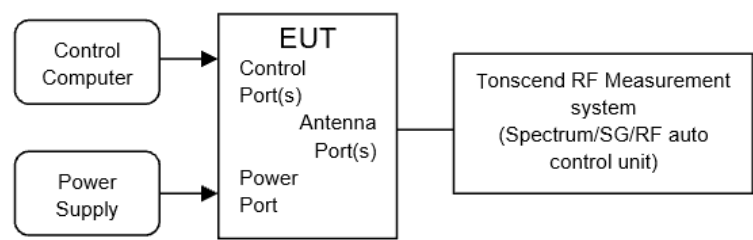
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method) 5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$) 1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V) 4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz) 4.40 dB (6 GHz - 18 GHz) 3.54 dB (18 GHz - 26 GHz) 4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz) 3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☒ RF Connected Test (RF Measurement System 3#)				
SIGNAL ANALYZER	R&S	FSV40	101407	2026/07/06
Wideband Radio Communication Tester	R&S	CMW500	117491	2026/03/28
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY62153058	2026/07/06
MXG Vector Signal Generator	Agilent	N5182A	MY48180912	2026/03/28
RF Control Unit	Tonscend	JS0806-2	20C8060230	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. 26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
26 dB Bandwidth	---	5150 - 5250
	---	5250 - 5350
	---	For FCC: 5470 - 5725
	---	For IC: 5470 - 5600 5650 - 5725

4.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	approximately 1% of the emission bandwidth.
VBW	> RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

4.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	25.2-26.8℃,34.7-41.5%RH	Test Date:	2025.07.17-2025.07.23
Test Power Supply:	AC 120V	Sample Number:	S25061119-001

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.64	5169.92	5190.56	---	---
		5200	20.64	5189.72	5210.36	---	---
		5240	22.60	5229.36	5251.96	---	---
		5260	22.36	5249.32	5271.68	---	---
		5280	22.92	5269.60	5292.52	---	---
		5320	24.28	5309.60	5333.88	---	---
		5500	20.36	5490.08	5510.44	---	---
		5580	19.96	5570.08	5590.04	---	---
		5700	19.96	5690.04	5710.00	---	---
		5720	20.12	5710.00	5730.12	---	---
		5720 UNII-2C	15	5710.00	5725	---	---
		5720 UNII-3	5.12	5725	5730.12	---	---
		5745	19.96	5735.12	5755.08	---	---
		5785	20.32	5775.08	5795.40	---	---
		5825	20.00	5815.12	5835.12	---	---
11N20SISO	Ant1	5180	21.16	5169.32	5190.48	---	---
		5200	20.72	5189.64	5210.36	---	---
		5240	21.96	5229.64	5251.60	---	---
		5260	21.08	5249.36	5270.44	---	---
		5280	20.28	5269.88	5290.16	---	---
		5320	21.12	5309.68	5330.80	---	---
		5500	20.28	5490.00	5510.28	---	---
		5580	20.32	5569.96	5590.28	---	---
		5700	20.28	5690.00	5710.28	---	---
		5720	20.16	5710.08	5730.24	---	---
		5720 UNII-2C	14.92	5710.08	5725	---	---
		5720 UNII-3	5.24	5725	5730.24	---	---
		5745	20.20	5734.96	5755.16	---	---
		5785	20.32	5775.04	5795.36	---	---
		5825	20.52	5814.80	5835.32	---	---
11N40SISO	Ant1	5190	41.28	5169.60	5210.88	---	---
		5230	41.04	5209.52	5250.56	---	---
		5270	41.28	5249.60	5290.88	---	---
		5310	41.28	5289.60	5330.88	---	---
		5510	41.68	5489.12	5530.80	---	---
		5550	41.28	5529.36	5570.64	---	---
		5670	41.36	5649.44	5690.80	---	---
		5710	41.04	5689.76	5730.80	---	---
		5710 UNII-2C	35.24	5689.76	5725	---	---
		5710 UNII-3	5.8	5725	5730.80	---	---
		5755	41.20	5734.52	5775.72	---	---
		5795	41.28	5774.52	5815.80	---	---
		5180	20.36	5169.96	5190.32	---	---
		5200	20.56	5189.72	5210.28	---	---
		5240	20.44	5230.04	5250.48	---	---
11AC20SISO	Ant1	5260	20.36	5250.00	5270.36	---	---
		5280	20.28	5270.00	5290.28	---	---
		5320	20.68	5309.92	5330.60	---	---
		5500	20.36	5490.00	5510.36	---	---
		5580	20.20	5570.00	5590.20	---	---
		5700	20.32	5689.84	5710.16	---	---
		5720	20.36	5709.80	5730.16	---	---
		5720 UNII-2C	15.2	5709.80	5725	---	---
		5720 UNII-3	5.16	5725	5730.16	---	---

		5745	20.20	5734.96	5755.16	---	---
		5785	20.32	5774.88	5795.20	---	---
		5825	20.28	5815.00	5835.28	---	---
11AC40SIS O	Ant1	5190	41.28	5169.20	5210.48	---	---
		5230	41.20	5209.44	5250.64	---	---
		5270	41.12	5249.52	5290.64	---	---
		5310	41.60	5289.36	5330.96	---	---
		5510	41.04	5489.60	5530.64	---	---
		5550	41.28	5529.28	5570.56	---	---
		5670	41.04	5649.60	5690.64	---	---
		5710	41.04	5689.68	5730.72	---	---
		5710 UNII-2C	35.32	5689.68	5725	---	---
		5710 UNII-3	5.72	5725	5730.72	---	---
		5755	41.04	5734.60	5775.64	---	---
		5795	41.12	5774.52	5815.64	---	---
11AX20SIS O	Ant1	5180	24.36	5167.04	5191.40	---	---
		5200	22.76	5187.64	5210.40	---	---
		5240	22.84	5228.44	5251.28	---	---
		5260	22.48	5248.04	5270.52	---	---
		5280	23.00	5268.60	5291.60	---	---
		5320	24.80	5307.52	5332.32	---	---
		5500	21.24	5489.80	5511.04	---	---
		5580	20.64	5569.76	5590.40	---	---
		5700	20.64	5689.80	5710.44	---	---
		5720	22.36	5708.32	5730.68	---	---
		5720 UNII-2C	16.68	5708.32	5725	---	---
		5720 UNII-3	5.68	5725	5730.68	---	---
		5745	23.92	5734.80	5758.72	---	---
		5785	23.88	5773.24	5797.12	---	---
		5825	21.24	5814.28	5835.52	---	---
11AX40SIS O	Ant1	5190	40.56	5169.84	5210.40	---	---
		5230	40.88	5209.60	5250.48	---	---
		5270	41.12	5249.44	5290.56	---	---
		5310	40.88	5289.76	5330.64	---	---
		5510	41.52	5489.44	5530.96	---	---
		5550	41.04	5529.68	5570.72	---	---
		5670	41.04	5649.60	5690.64	---	---
		5710	40.96	5689.68	5730.64	---	---
		5710 UNII-2C	35.32	5689.68	5725	---	---
		5710 UNII-3	5.64	5725	5730.64	---	---
		5755	40.96	5734.60	5775.56	---	---
		5795	40.80	5774.84	5815.64	---	---

4.5. Test graphs

