

TEST REPORT

Product Name : IP Camera
Brand Mark : MIDLAND
Model No. : IP TRUCK CAMERA PRO
FCC ID : K6M-IPC
Report Number : BLA-EMC-202206-A2103
Date of Sample Receipt : 2022/6/7
Date of Test : 2022/6/7 to 2022/6/22
Date of Issue : 2022/6/22
Test Standard : 47 CFR Part 1.1307, Part 2.1093, KDB
447498
Test Result : Pass

Prepared for:

Midland Europe srl

Via R. Sevardi, 7 42124 Reggio Emilia Italy

Prepared by:

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Date: 2022/6/22



REPORT REVISE RECORD

Version No.	Date	Description
00	2022/6/22	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

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2 GENERAL INFORMATION

Applicant	Midland Europe srl
Address	Via R. Sevardi, 7 42124 Reggio Emilia Italy
Manufacturer	Midland Europe srl
Address	Via R. Sevardi, 7 42124 Reggio Emilia Italy
Factory	Midland Europe srl
Address	Via R. Sevardi, 7 42124 Reggio Emilia Italy
Product Name	IP Camera
Test Model No.	IP TRUCK CAMERA PRO

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	676-A0-A
Software Version	V1.6.2_20211224
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Antenna Type:	External antenna
Antenna Gain:	5dB(Provided by the applicant)

4 LABORATORY LOCATION

All tests were performed at:
 BlueAsia of Technical Services(Shenzhen) Co., Ltd.
 Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province,
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 No tests were sub-contracted.

5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 LIMITS

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout * G) / (4 * \pi * R^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.2 TEST PROCEDURE

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

5.3 EUT RF EXPOSURE EVALUATION

Antenna Gain: 5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.162 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

worse case 802.11b:

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Highest	2462	14.394	27.50426	0.01730	1.0	PASS

Note: Refer to report No. BLA-EMC-202206-A2101 for EUT test Max Conducted Peak Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation Requirement

----END OF REPORT----

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