



TEST REPORT

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-4904-0113 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR25-SRF0167 Page (1) of (6)	
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1. Applicant

- Name : THINKWARE CORPORATION
- Address : A, 9FL., Samwhan Hipex, 240, Pangyoyeok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea
- Date of Receipt : 2025-07-21

2. Use of Report : Certification

3. Type of Equipment / Model : Rear Camera / BCQH-600

4. Manufacturer / Country of Origin : THINKWARE CORPORATION / South Korea

5. FCC ID : 2ADTG-BCQH600

6. Date of Test : 2025-08-13 to 2025-09-05

7. Test Standard(method) used : 47 CRF Part 1.1310

8. Test Result : Refer to the test result in the test report

Affirmation	Tested by Name : Seongil Choi (Signature)	Technical Manager Name : Kwonse Kim (Signature)
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2025-09-09

Eurofins KCTL Co.,Ltd.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by Eurofins KCTL Co.,Ltd.

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REPORT REVISION HISTORY

Date	Revision	Page No
2025-09-09	Originally issued	-

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General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

CONTENTS

1. General information4

2. Device information4

 2.1. Frequency/channel operations.....4

3. RF Exposure.....5

 3.1. Test results.....6



1. General information

Applicant : THINKWARE CORPORATION.
 Address : A, 9FL., Samwhan Hipex, 240, Pangyoyeok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea
 Manufacturer : THINKWARE CORPORATION
 Address : A, 9FL., Samwhan Hipex, 240, Pangyoyeok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
 CAB Identifier: KR0040, ISED Number: 8035A
 KOLAS No.: KT231

2. Device information

Equipment under test : Rear Camera
 Model : BCQH-600
 Modulation technique : FMCW
 Frequency range : 59 500 MHz ~ 62 400 MHz
 Power source : DC 5 V
 Antenna specification : Integrated patch Antenna
 Antenna gain : 4.0 dBi
 Software version : V1.0
 Hardware version : V4.0
 Test device serial No. : KAV0AAQ8000131A
 Operation temperature : -10 °C ~ 60 °C

2.1. Frequency/channel operations

This device contains the following capabilities:

FMCW

Ch.	Frequency (GHz)
01	59.5 ~ 62.4

Table 2.1.1. FMCW

3. RF Exposure

Regulation

This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC rules and Regulations.

The limit for Maximum Permissible Exposure (MPE), specified in FCC §1.1310, is listed in Table 1-1. According to FCC §1.1310: the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(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 [minute]
(A) 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 ~ 1 500	/	/	f/300	6
1 500 ~ 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 ~ 1 500	/	/	f/1 500	30
1 500 ~ 100 000	/	/	1.0	30

f=frequency in MHz, * = plane-wave equivalent power density

3.1. Test results

MPE (Maximum Permissible Exposure) Prediction

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

$$S = PG / 4\pi R^2 \quad (\Rightarrow R = \sqrt{PG / 4\pi S})$$

S = power density [mW/cm²]

P = Power input to antenna [mW]

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 [cm]

Calculation Result of RF exposure

Frequency [MHz]	Max Tune-up Power [dBm]	Max Tune-up Power [mW]	Power density at 20 cm [mW/cm ²]	Limit [mW/cm ²]
59 500 ~ 62 400	14.00	25.12	0.004 997	1.00

Note.

1. Maximum tune up (EIRP): 14.00 dBm
2. The power density "Pd" at a distance of 20 cm calculated from the formula is far below the limit of 1 mW/cm².

End of test report