ONETECH

시 험 성 적 서

(TEST REPORT)

성적서 번호: R14KR-099
(Report No.)

KOREA LABORATORY ACCREDITATION SCHEME KOLAS TESTING NO. 85

1. 의뢰자 (Client)
-. 기 관 명 (Name): M3 Mobile Co.,Ltd
-. 주 소 (Address): M3 Building,735-45, Yedksam-dong, Gangnam-gu, Seoul, Korea, 135-080
-. 의뢰일자 (Date of Receipt): 2014. 08. 18.
-. AGR No.: A148A-079

2. 시험성적서의 용도 (Use of Test Report): Quality Control

3. 시험대상품목 (Product): UL10
-. 모델명 (Type of Designation): UL10 -. 제조번호 (Serial No.): N/A

4. 시험기간 (Date of Test): 2014. 08. 18. ~ 08. 30.

5. 시험방법 (Test Method Used): KS C IEC 60529:2006

6. 시험환경 (Testing Environment)
○ 온도(Temperature): (26 ± 2) ℃, ○ 습도(Relative Humidity): (51 ± 3) % R.H.

7. 시험결과 (Test Results): Refer to attached test report

8. 측정불확도 (Uncertainty of Measurement): N/A

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This is certified that the above mentioned products have been tested for the sample provided by client and forbid the use except for original purpose.
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확 인 (Affirmation)	시험자 (Tested by) 성 명 Dong-Kyun Park (서명) (Name) (Signature)	승인자(Approved by) 기술책임자(Technical Manager) 성 명 Jin Won Seo (서명) (Name) (Signature)

2014. 09. 04.

한국인정기구 인정 ㈜원텍 대표이사
(The president of ONETECH Corp.)

-. 위 성적서는 국제시험기관인정협력체(International Laboratory Accreditation Cooperation) 상호인정협정(Mutual Recognition Arrangement)에 서명한 한국인정기구(KOLAS)로부터 공인받은 분야에 대한 시험결과입니다.
The above testing certificate is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

경기도 광주시 초월읍 진새골길 43-14 (대쌍령리 301-14) (TEL:+82-31-799-9500 FAX:+82-31-799-9599)
ONETECH Corp. 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do 464-862 Korea (301-14 Daessangnyeong-ri)

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1. CLIENT AND MANUFACTURER INFORMATION

-. Applicant : M3 Mobile Co.,Ltd

-. Address : M3 Building,735-45, Yedksam-dong, Gangnam-gu, Seoul, Korea, 135-080

-. Manufacturer : M3 Mobile Co.,Ltd

-. Address : M3 Building,735-45, Yedksam-dong, Gangnam-gu, Seoul, Korea, 135-080

-. Name of contact : An hyeon woo

-. Telephone No. : -

-. Fax No. : -

2. TEST SUMMARY

2.1 Test items and results

Standards	Test Items	Results
KS C IEC 60529:2006	Degrees of protection provided by enclosures(IP65)	PASS

2.2 deviations, exclusions from standards

No deviations or exclusions have been made from standard.

3. EUT (Equipment Under Test)

3.1 Identification of EUT

-. Equipment : UL10

-. Type/model : UL10

-. Brand Name : N/A

-. Serial number : N/A

-. Derivative Model : N/A

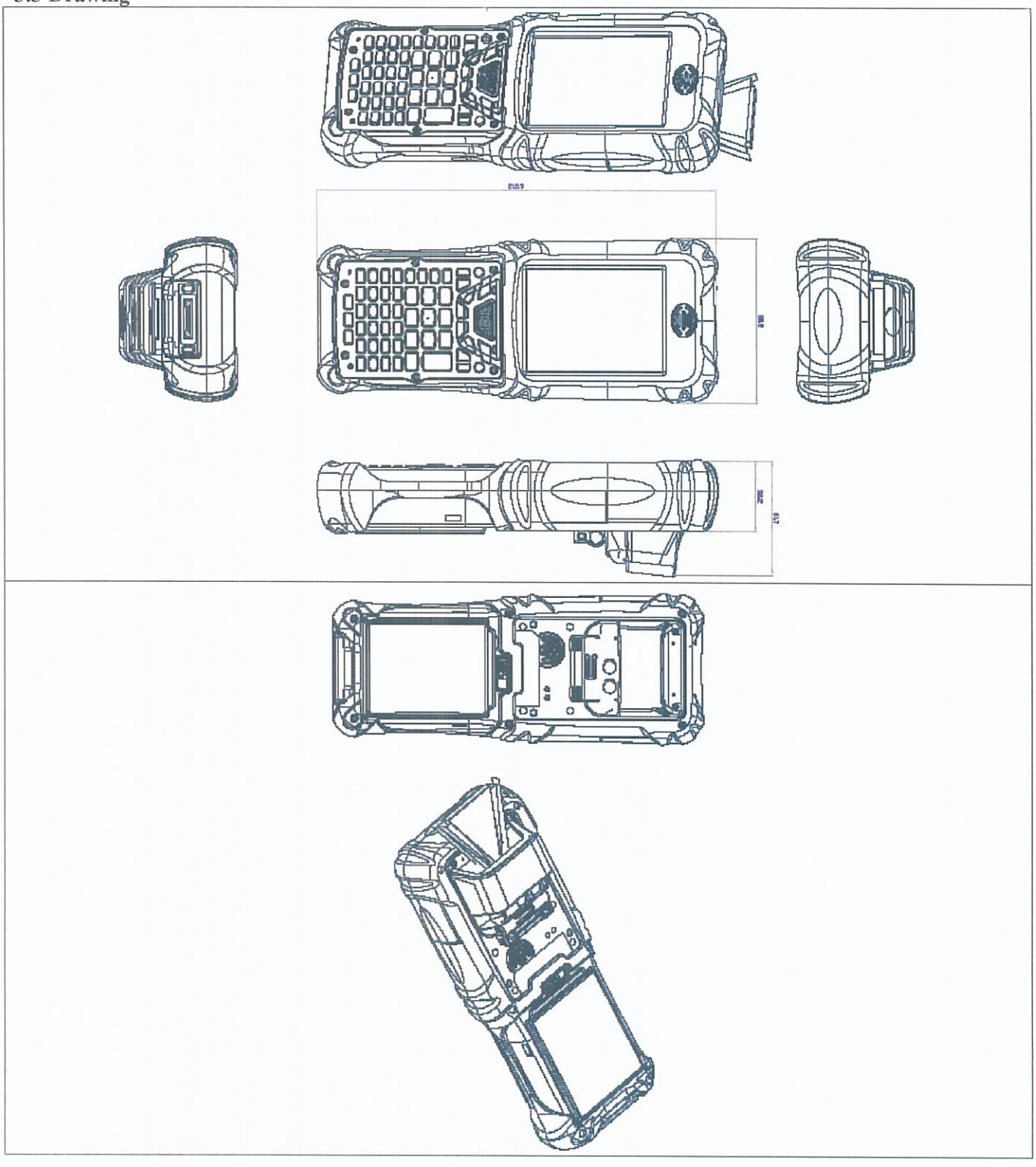
3.2 Configuration

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
UL10	M3 Mobile Co.,Ltd	UL10 (EUT)	-

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3.3 Drawing



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4. DEGREES OF PROTECTION PROVIDED BY ENCLOSURES TEST(IP65)

The **Degrees of protection provided by enclosures Test (IP65)** was performed at ONETECH Corp.

Date : August 18 ~ 30, 2014

4.1 Environmental condition

Ambient temperature	26 ℃
Relative humidity	51 % R.H.

4.2 Test equipment used

	Model Number	Manufacturer	Description	Serial Number
■	SOC-300DSEM	SCM	DUST CHAMBER	SOC-11-43-10DSEM
■	-	DAEKYUNG	JET NOZZLE SET(6.3 mm)	-

4.3 Test condition

4.3.1 Dust Test

Items		Descriptions
1st Characteristic Numbers		IP6X
Enclosures Category		■ Category 1 □ Category 2 □ Category 1 and Category 2
Test Condition		-Wire diameter: 50 ㎛ -Width between wires: 75 ㎛ -Amount of talcum powder of the test chamber: 2 kg/m^3
Method	Category 1	□If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h. ■If, with a maximum depression of 2 kPa(20 mbar), the extraction rate is less than 40 volumes per hou, the test is continued until 80 volumes have been drawn, or a period of 8 h has elapsed.
	Category 2	□The enclosure under test is supported in its normal operating position inside the test chamber, but is not connected to a vacuum pump. Any drain-hole normally open shall be left open for the duration of the test. The test shall be continued for a period of 8 h.
Acceptance Conditions		The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

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4.3.2 Water Test

Items	Descriptions
2nd Characteristic Numbers	IPX5
Test Condition	-Internal diameter of the nozzle: 6.3 mm -Delivery rate: 12.5 l/min ± 5 % -Distance grom nozzle to enclosure surface: Between 2.5 m & 3 m -The duration of the test: 3 min
Acceptance Conditions	In general, if any water has entered, it shall not; -Be sufficient to interfere with the correct operation of the equipment or impair safety. -Deposit on insulation parts where it could lead to tracking along the creepage distances. -Reach live parts or windings not designed to operate when wet. -Accumulate near the cable end or enter the cable if any.

4.4 Test result

Item	IP Code	Result
UL10	IP65	Pass



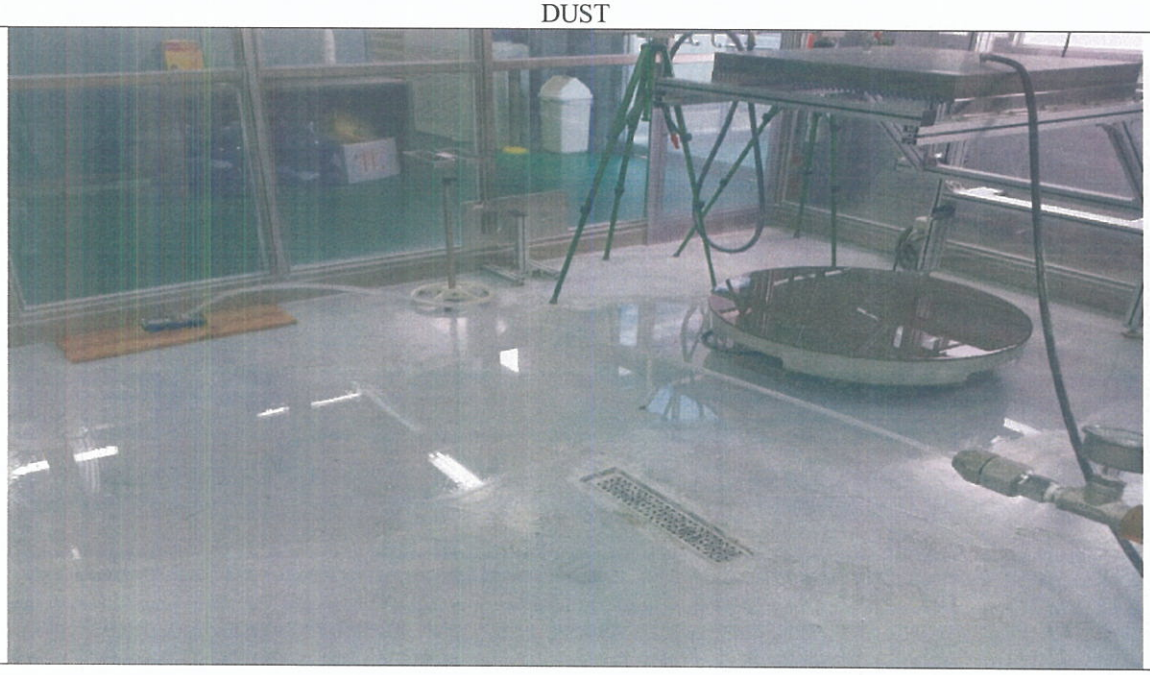
Tested by: Dong Kyun Park / Test Engineer

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APPENDIX I - PHOTO OF IP65 TEST



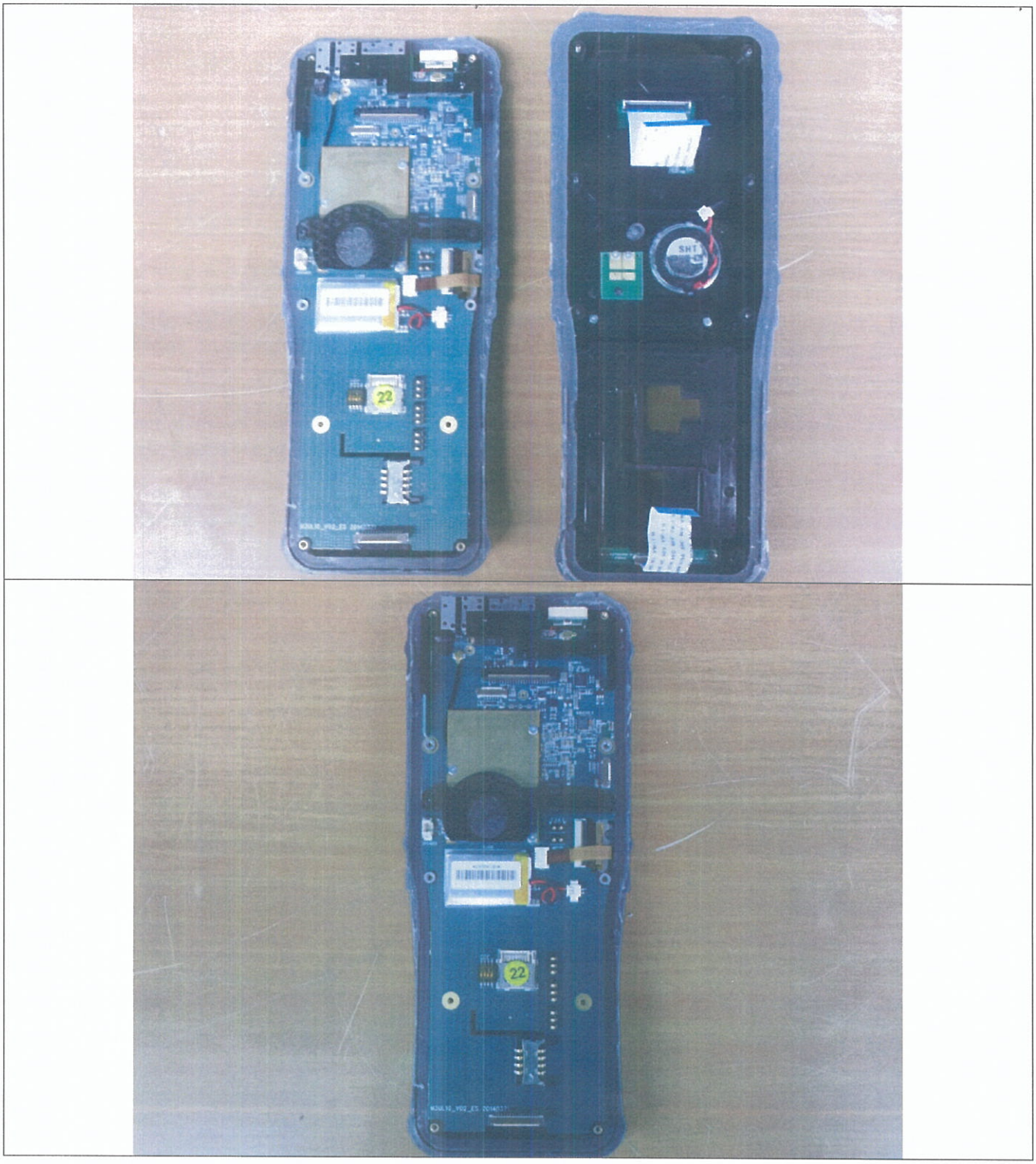
DUST



WATER

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APPENDIX II - PHOTO OF INSIDE AFTER IP65 TEST



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