

TEST REPORT

Reference No..... : WTX20X06037068E
Applicant : Asterisk Inc.
Address : Shin-Osaka Dainichi Bldg.201,5-6-16,Nishinakajima,
Yodogawa-ku, Osaka-city, Osaka, 532-0011,Japan
Product : AsReader GUN-Type Long Range BCR
Test Model. : ASR-R202G
Standards : IEC 61000-4-2:2008
Date of Receipt sample : Jun.16,2020
Date of Test..... : Jun.22,2020 to Jun.24,2020
Date of Issue : Jun.28,2020
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China

Tel.: +86-755-33663308

Fax.: +86-755-33663309

Tested by:

Reviewed By:

Approved & Authorized By:

/ Project Engineer

Evan Cai / EMC Manager

Silin Chen / Manager

TABLE OF CONTENTS

1. GENERAL INFORMATION.....	3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	3
1.2 TEST STANDARDS.....	4
1.3 EUT SETUP AND OPERATION MODE	5
1.4 PERFORMANCE CRITERIA FOR EMS	5
1.5 TEST EQUIPMENT LIST AND DETAILS	6
2. SUMMARY OF TEST RESULTS	6
3. ELECTROSTATIC DISCHARGES (ESD)	7
3.1 TEST PROCEDURE	7
3.2 TEST PERFORMANCE	7
3.3 ENVIRONMENTAL CONDITIONS.....	7
3.4 BASIC TEST SETUP BLOCK DIAGRAM.....	7
3.5 ELECTROSTATIC DISCHARGE IMMUNITY TEST DATA	8
3.6 TEST LOCATION DIAGRAM	9
EXHIBIT 1 - TEST SETUP PHOTOGRAPHS	10

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Asterisk Inc.
Address of applicant: Shin-Osaka Dainichi Bldg.201,5-6-16,Nishinakajima,
Yodogawa-ku, Osaka-city, Osaka, 532-0011,Japan

Manufacturer: DONGGUAN XIANGJI ELECTRONIC CO.,LTD.
Address of manufacturer: 4th Floor, Building E, Jinzhikechuang garden,NO.341,
Xiangmang West, Qingxi Town, Dongguan City,
Guangdong, China

General Description of EUT	
Product Name:	AsReader GUN-Type Long Range BCR
Trade Name:	AsReader
Model No.:	ASR-R202G
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Rated Voltage:	Inside the battery
Rated Current:	/
Rated Power:	/
Power Adaptor Model:	/

1.2 Test Standards

The tests were performed according to following standards:

.

IEC 61000-4-2:2008: Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test

.

Sample

1.3 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List			
Test Mode	Description	Remark	Power Supply Mode
TM1	Working	/	Inside the battery

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/
/	/	/	/
/	/	/	/

1.4 Performance Criteria for EMS

All the test data has been collected, reduced, and analyzed within this report in accordance with Immunity requires the following as specific performance criteria:

- A. The apparatus shall continue to operate as intended during and after the test. The manufacturer specifies some minimum performance level. The performance level may be specified by the manufacturer as a permissible loss of performance.
- B. The apparatus shall continue to operate as intended after the test. This indicates that the EUT does not need to function at normal performance levels during the test, but must recover. Again some minimal performance is defined by the manufacturer. No change in operating state or loss of data is permitted.
- C. Temporary loss of function is allowed. Operation of the EUT may stop as long as it is either automatically reset or can be manually restored by operation of the controls.

1.5 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
ESD Generator	LIONCEL	ESD-203B	0170901	2020-04-28	2021-04-27

2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
IEC 61000-4-2	Electrostatic Discharge Immunity	Compliant

3. Electrostatic Discharges (ESD)

3.1 Test Procedure

Test is conducting under the description of IEC 61000-4-2.

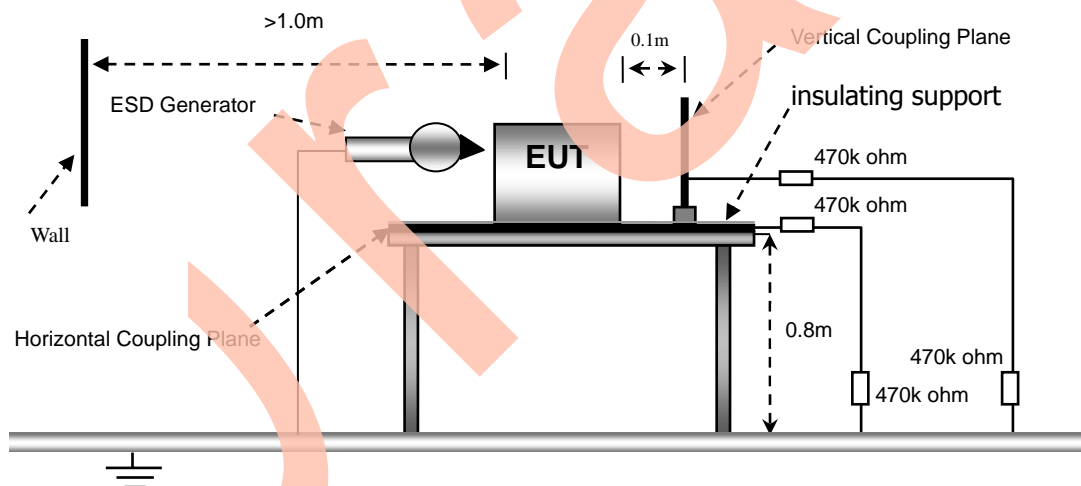
3.2 Test Performance

Performance Criterion: C (Applicant's requirement)

3.3 Environmental Conditions

Temperature:	26 °C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

3.4 Basic Test Setup Block Diagram



3.5 Electrostatic Discharge Immunity Test Data

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2 Test Points	Test Voltage (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-10	+10
b	/	/	/	/	/	/	/	/	B	B
c,d,e,g,h,i,g	/	/	/	/	/	/	/	/	A	A

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2 Test Points	Test Voltage (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-10	+10
a	/	/	C	C	C	C	/	/	/	/
f	/	/	A	A	A	A	/	/	/	/

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP & VCP)

EN 61000-4-2 Test Points	Test Voltage (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-10	+10
HCP (6 Sides)	/	/	/	/	/	/	/	/	A	A
VCP (4 Sides)	/	/	/	/	/	/	/	/	A	A

Test Result: Pass

Note: This test is conducted according to the customer's requirements

3.6 Test location diagram

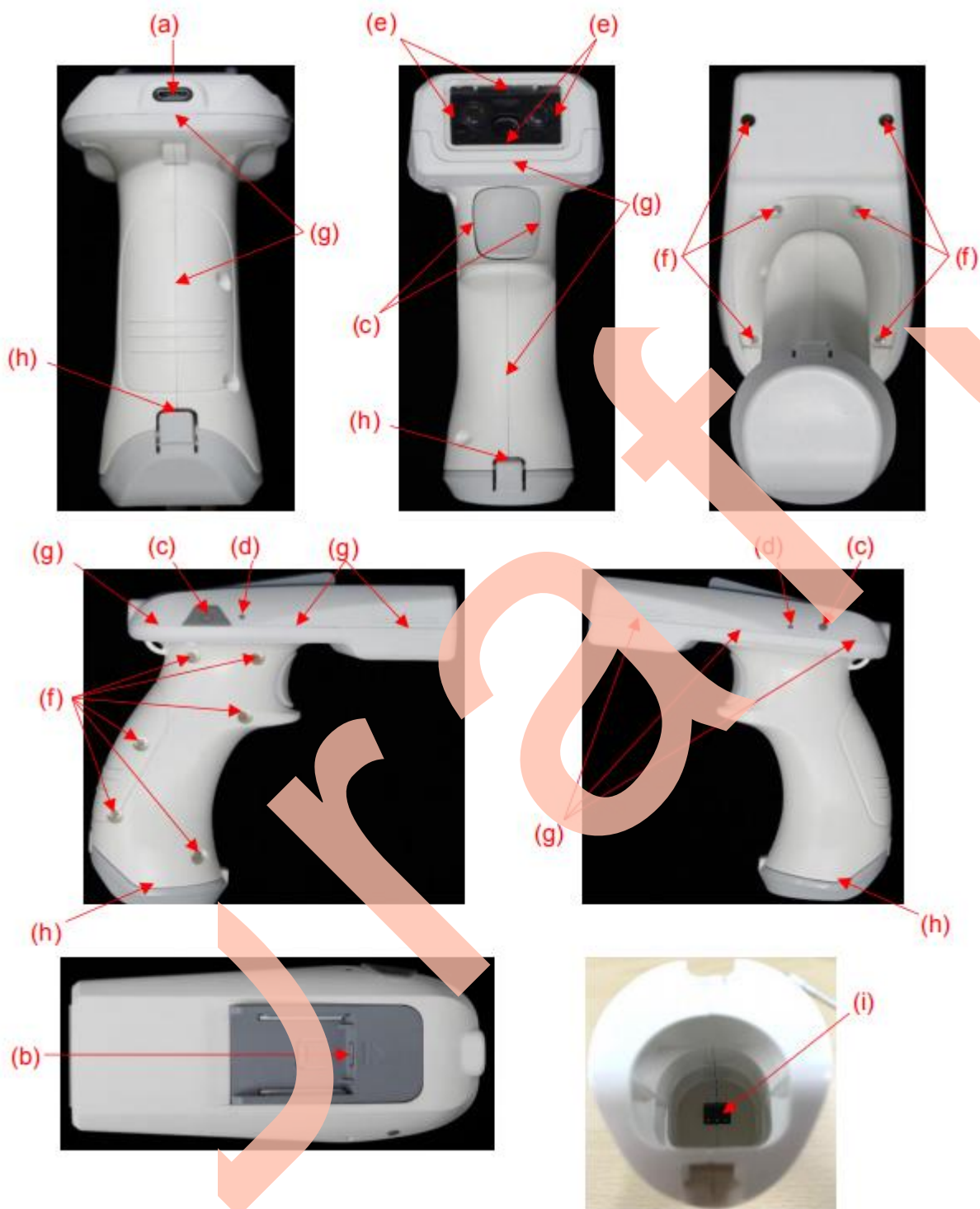
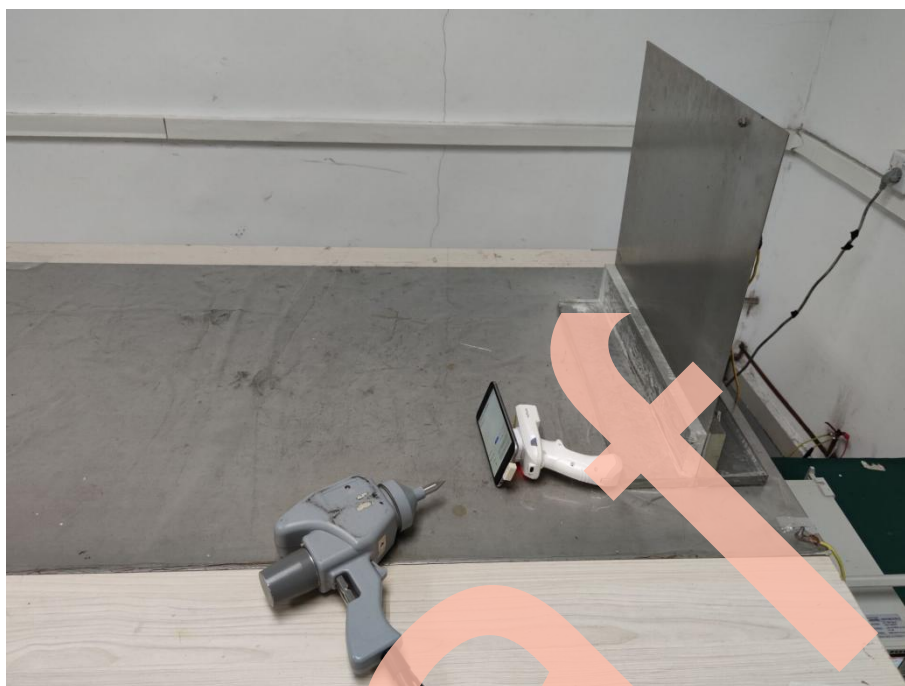


EXHIBIT 1 - TEST SETUP PHOTOGRAPHS

IEC 61000-4-2 Test View



***** END OF REPORT *****