

## TEST REPORT

Report No.: HC30025/2020

Page: 1 of 12

Date: March 13, 2020

VECOW CO., LTD  
3F., NO.10, JIANKANG RD.,  
ZHONGHE DIST., NEW TAIPEI CITY,  
TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: RES-3000  
Style/ Item No.: RES-3000-8665U/ No.1  
Quantity: Total 1 set  
Testing Period: Mar. 9, 2020 to Mar. 12, 2020

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)

1. Low Temperature Test
2. High Temperature Test
3. Random Vibration Test
4. Mechanical Shock Test

Test Results : -PLEASE SEE ATTACHED SHEETS-

Signed for and on behalf of  
SGS TAIWAN Ltd.



Allen Wang  
Asst. Supervisor

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# TEST REPORT

Report No.: HC30025/2020

Page: 2 of 12

## 1. Low Temperature Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature and Humidity Chamber	KSON	GTH-1000-60-CP-AR-H	MAA1810-001

### Lab Environmental Conditions:

Ambient temperature:  $(25 \pm 3) \text{ }^\circ\text{C}$

Ambient humidity:  $(55 \pm 20) \text{ \% RH}$

Test Location: No. 31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

### Test Method/ Specification:

Sample condition: Operating (execute " BurnIn Test V8.1 Pro")

Test Temperature: -30  $^\circ\text{C}$

Duration: 16 hours

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "BurnIn Test V8.1 Pro" could work normally or not.

## TEST REPORT

Report No.: HC30025/2020

Page: 3 of 12

Specimen:

Style/Item No.: RES-3000-8665U/ No.1

Quantity: Total 1 set

Test Result:

<div style="text-align: right;"><b>Check Item</b></div> <div style="text-align: left;"><b>Style/ Item No.</b></div>	<b>Appearance check (Visual check)</b>	<b>Functional check</b>
<b>RES-3000-8665U/ No.1</b>	No visible damage	Normal

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# TEST REPORT

Report No.: HC30025/2020

Page: 4 of 12

## 2. High Temperature Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature and Humidity Chamber	KSON	GTH-1000-60-CP-AR-H	MAA1810-001

### Lab Environmental Conditions:

Ambient temperature:  $(25 \pm 3) \text{ }^\circ\text{C}$

Ambient humidity:  $(55 \pm 20) \text{ \% RH}$

Test Location: No. 31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

### Test Method/ Specification:

Sample condition: Operating (execute " BurnIn Test V8.1 Pro")

Test Temperature: 70 °C

Test Humidity: 95 % RH

Duration: 16 hours

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "BurnIn Test V8.1 Pro" could work normally or not.

# TEST REPORT

Report No.: HC30025/2020

Page: 5 of 12

**Specimen:**

Style/Item No.: RES-3000-8665U/ No.1

Quantity: Total 1 set

**Test Result:**

<div style="text-align: right;"><b>Check Item</b></div> <div style="text-align: left;"><b>Style/ Item No.</b></div>	<b>Appearance check (Visual check)</b>	<b>Functional check</b>
<b>RES-3000-8665U/ No.1</b>	No visible damage	Normal

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# TEST REPORT

### 3. Random Vibration Test:

#### Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	King Design	EM-800F2K-50N120	RU104080389
Controller	Dactron	COMET 200	10539718
Control Accelerometer	Wilcoxn Research	793-6	A4938

#### Lab Environmental Conditions:

Ambient temperature:  $(25 \pm 3) ^\circ\text{C}$

Ambient humidity:  $(55 \pm 20) \% \text{RH}$

#### Test Location:

No.17, Wu Chyuan 8th Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan.

#### Test Method/ Specification:

Sample condition: Operating (execute " Burnln Test V8.1 Pro")

Wave form: Random

Frequency: (5 ~ 500) Hz

Frequency (Hz)	Left Slope (dB/ Oct.)	PSD ( $\text{g}^2 / \text{Hz}$ )	Right Slope (dB/ Oct.)
5	—	0.05	0
500	0	0.05	—

⇨ equivalent to 5.0 Grms

Direction: X, Y, Z axes (see photo 5 ~ 7)

Duration: 30 minutes/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program“Burnln Test V8.1 Pro” could work normally or not.

## TEST REPORT

Report No.: HC30025/2020

Page: 7 of 12

Specimen:

Style/Item No.: RES-3000-8665U/ No.1

Quantity: Total 1 set

Test Result:

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
RES-3000-8665U/ No.1	No visible damage	Normal

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# TEST REPORT

Report No.: HC30025/2020

Page: 8 of 12

## 4. Mechanical Shock Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Shock Test System	LANSMONT	95-115D	M17656
Data Acquisition & Analysis System	LANSMONT	TP4 8A-CH SML 1115-001	1115-001
ICP Accelerometer	PCB	353M288	196438
ICP Accelerometer	PCB	356A24	90696
ICP Accelerometer	PCB	356A24	162319
Shock Test System	LANSMONT	95-115D	M17656

### Lab Environmental Conditions:

Ambient temperature:  $(25 \pm 3) ^\circ\text{C}$

Ambient humidity:  $(55 \pm 20) \% \text{RH}$

Test Location: No. 33, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

### Test Method/ Specification:

Sample condition: Operating (execute " Burnln Test V8.1 Pro")

Pulse shape: Half-Sine

Acceleration: 50 g

Pulse duration: 11 ms

Shock direction: 6 faces ( $\pm X$ ,  $\pm Y$ ,  $\pm Z$  axes, see photo 8 ~ 13)

No. of shock: 3 shocks/ axis (total 18 shocks)

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "Burnln Test V8.1 Pro" could work normally or not.



# TEST REPORT

Report No.: HC30025/2020

Page: 9 of 12

**Specimen:**

Style/Item No.: RES-3000-8665U/ No.1







Quantity: Total 1 set

**Test Result:**

Check Item	Appearance check (Visual check)	Functional check
Style/ Item No.  <b>RES-3000-8665U/ No.1</b>	No visible damage	Normal

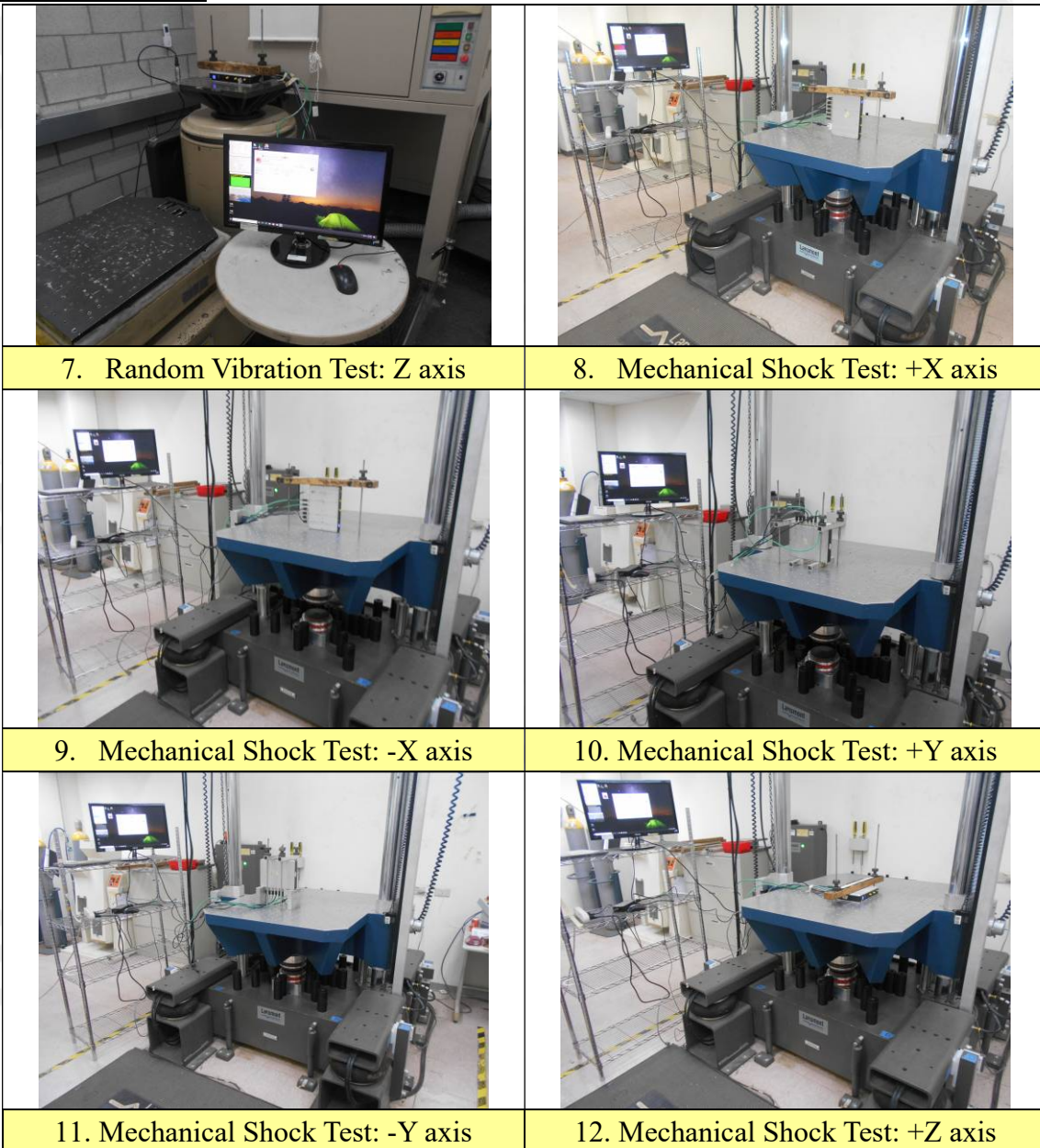
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Test Photos:

	
1. Appearance of specimen	2. Appearance of specimen
	
3. Low Temperature Test/ High Temperature Test	4. Low Temperature Test/ High Temperature Test
	
5. Random Vibration Test: X axis	6. Random Vibration Test: Y axis

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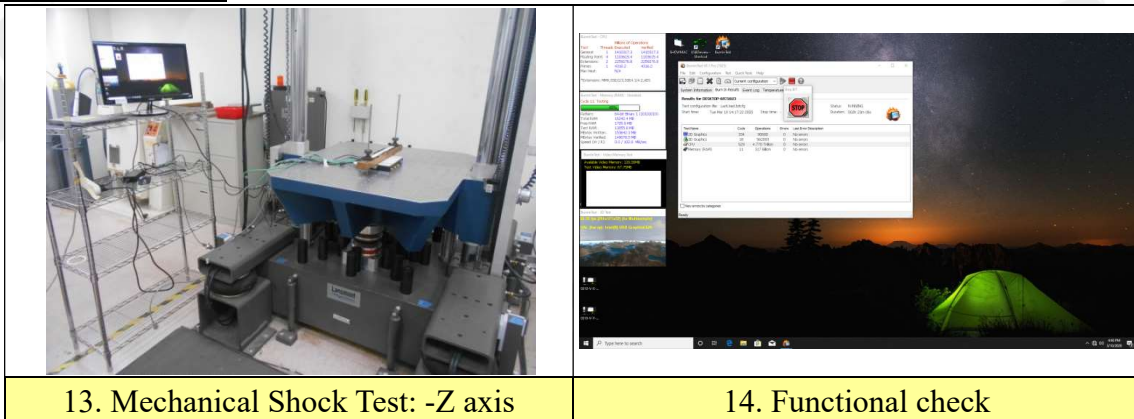
Test Photos--Continued:



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Test Photos--Continued:



— — — The End of Test Report — — —

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