

Drop Test Report

Issue by

Design Technology Department

Report No: 1111DP1211

Product Model	5.7" Rugged Handheld Device : R05I98H-RTD1
Product Description	Rugged Handheld Device
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> Rugged Handheld Device <input type="checkbox"/> Renew product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Revision change <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Component:

2011/11/09
Issue date

Lindon Lin
Approved

Nick Tsai
Test Engineer

1. Document Introduction

This document describes how we conduct the environment conditions and test procedure. It includes the test equipment we use, the test condition, and the test procedure we take. We also define our test criteria and the way to conclude the test result.

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

Table of Testing Summary Results

NO	Test Item	Condition Description	Sect. / Page	Reference to
1	Drop Test	8 corner ,12 edges 6 planes Total 26 Drops	4 / 5	MIL-STD-810F Method 516.5 Produce IV Table 516.5-VI

2. Product Configuration

1. M/B : Winmate I98H5-110
2. CPU : Intel® Atom™ Processor Z510 @ 1.10 GHz
3. Chipset : Intel US15W
4. RAM : Transcend TS128MSQ64V6U SODIMM DDR2-667 1GB 8 顆粒
5. SSD : PQI D10080G57RW01A70 MiniPCIe PATA SSD 8G MLC
6. Panel : DataImage 050722DSSWDG01 640x480
7. Battery : FSP RTB-057HH Li-Ion Battery 2S1P 7.4V 2600mAh x 2
8. Bluetooth : Q-COM Bluetooth QBT400-USB01p
9. 3G : HUAWEI EM770W HSPA Module
10. GPS : u-blox LEA-6S GPS Module
11. Wifi : Wi2Wi W2SW0001 WLAN SIP 802.11b/g
12. Adapter : EDAC EA1050C-120 / AC IN 100-240V~1.8A,50-60Hz / DC OUT 12V,4.16A
13. Hot Tab / EC : 205_H5 / 212

3. Photo of Product Configuration

Photo of EUT



4. Transit Drop Test

A. Test Equipment:

- Test Site: Winmate LAB
- Drop Tester / King Design / KD-128A / S/N: BT109183596
- Steel Plate of 1cm thinness

B. Test Condition:

- Reference to MIL-STD-810F Method 516.5 Testing Procedures
- Procedure IV / Table 516.5-VI_Transit drop test.
- Drop Height: 122 cm.
- Drop Sequences: 8 corners, 12 edges 6 planes
- Weight (Non-Package 1 set): 0.93 KG.
- L * W * H (1 Set): 200 mm * 120mm * 47.9 mm
- Quantity: Total 1 Set
- Testing Period: Nov. 08, 2011 to Nov. 08, 2011

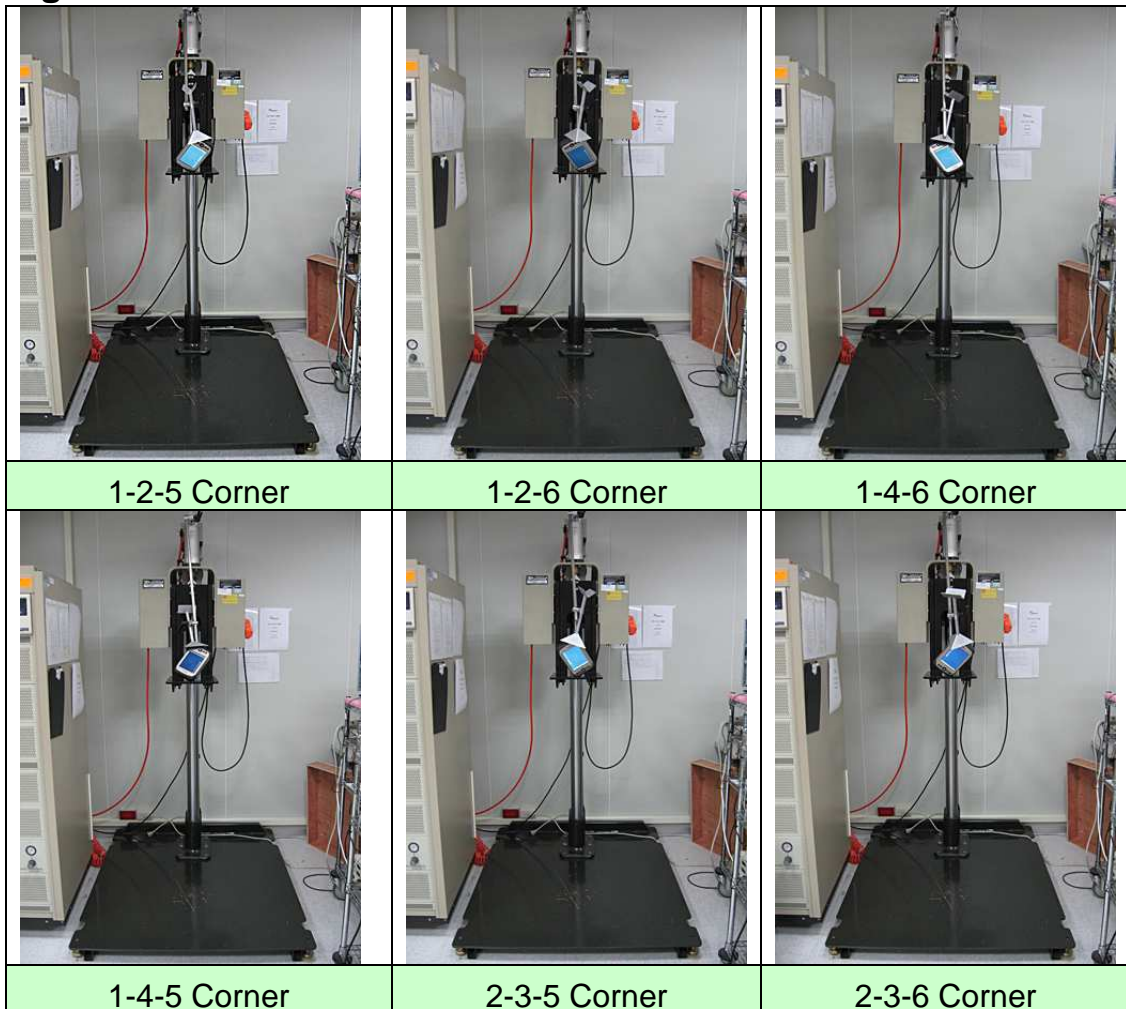
Check Condition and Requirements:

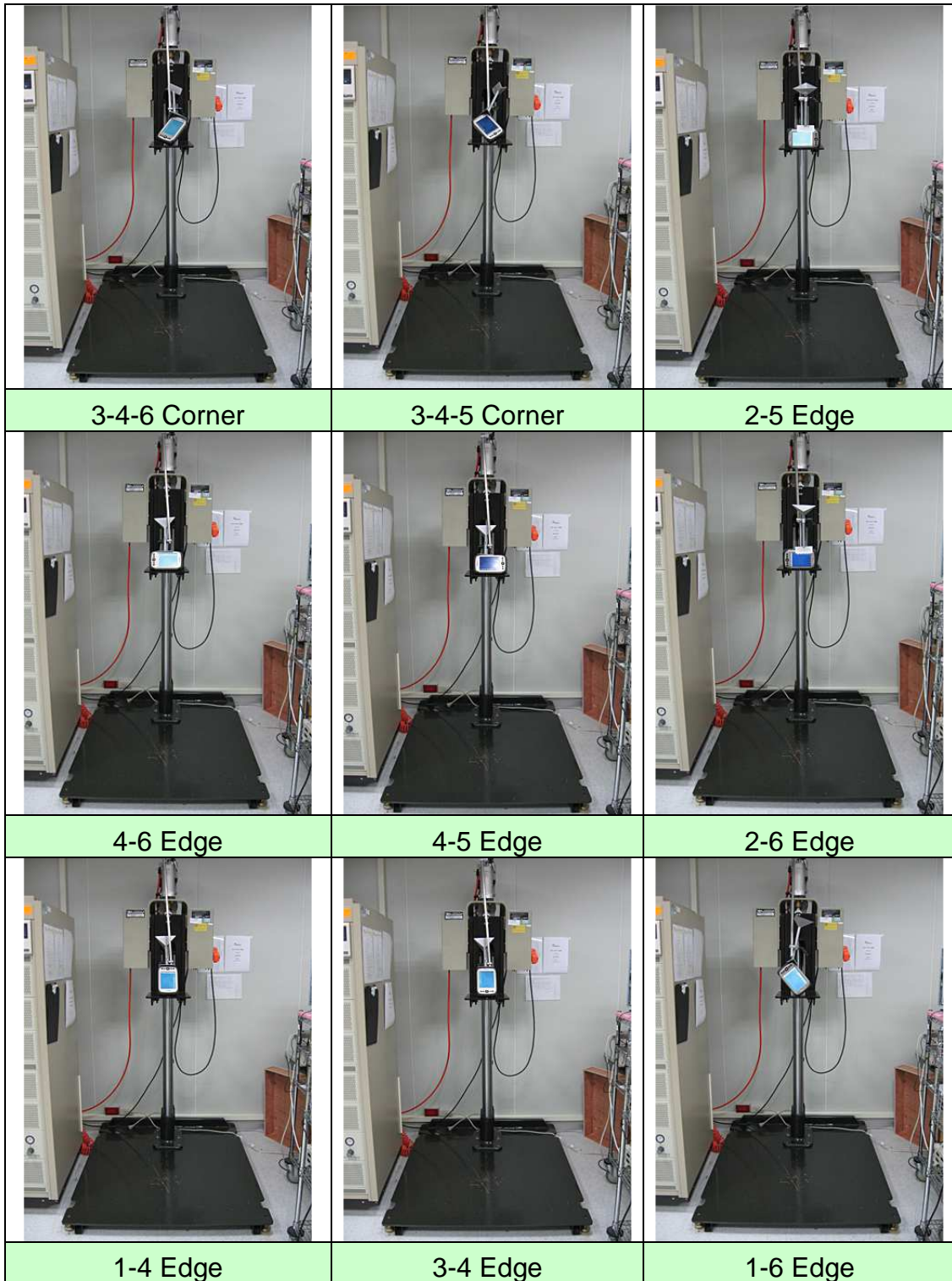
The Non-package product is to be dropped 8 corners, 12 edges and 6 faces, from the appropriate height designate in the table of test condition.

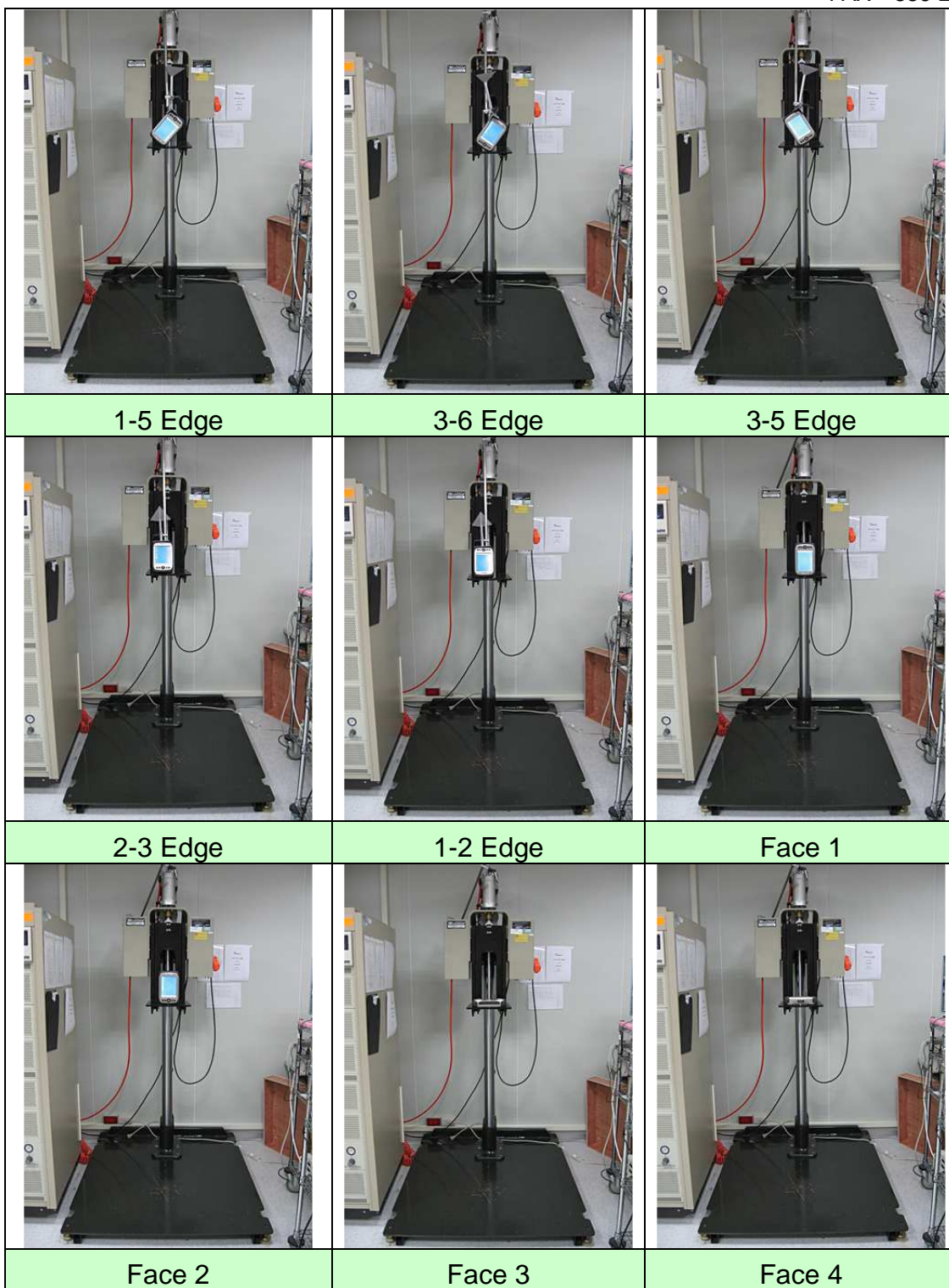
Drop #	Drop Item	Type of Drop
1.	1-2-5 Corner of Package	Corner
2.	1-2-6 Corner of Package	Corner
3.	1-4-6 Corner of Package	Corner
4.	1-4-5 Corner of Package	Corner
5.	2-3-5 Corner of Package	Corner
6.	2-3-6 Corner of Package	Corner
7.	3-4-6 Corner of Package	Corner
8.	3-4-5 Corner of Package	Corner
9.	2-5 Edges of Package	Edge
10.	4-6 Edges of Package	Edge
11.	4-5 Edges of Package	Edge
12.	2-6 Edges of Package	Edge
13.	1-4 Edges of Package	Edge
14.	3-4 Edges of Package	Edge
15.	1-6 Edges of Package	Edge
16.	1-5 Edges of Package	Edge
17.	3-6 Edges of Package	Edge
18.	3-5 Edges of Package	Edge
19.	2-3 Edges of Package	Edge

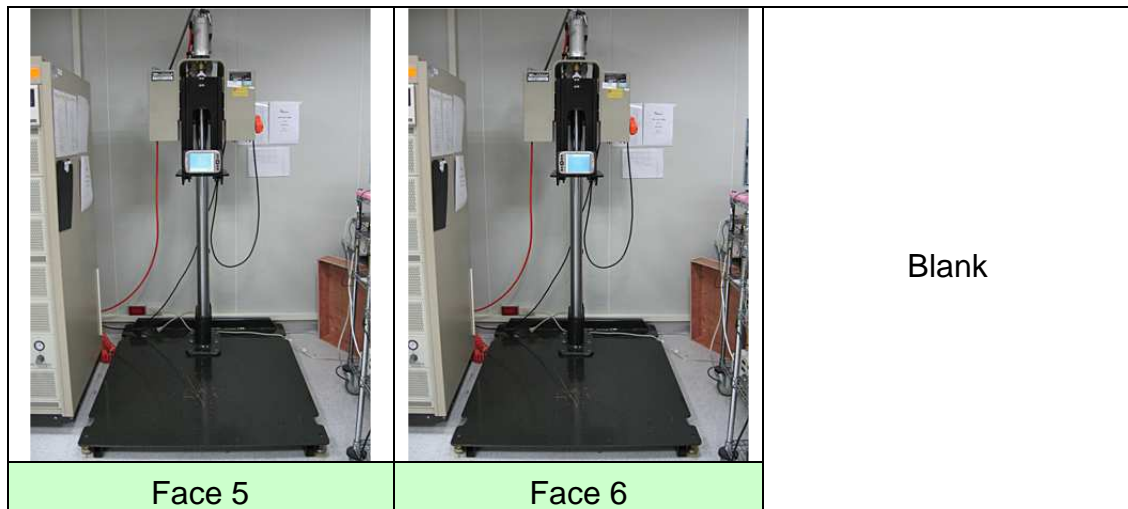
20.	1-2 Edges of Package	Edge
21.	Face 1 of the Package	Face
22.	Face 3 of the Package	Face
23.	Face 2 of the Package	Face
24.	Face 4 of the Package	Face
25.	Face 5 of the Package	Face
26.	Face 6 of the Package	Face

Testing of Photo









D. Test Result:

- No visible damage to the product.
- No displacement of components, cables, or hardware.
- The test unit operates normally after the completion of the drop test.

E. Test Judgment:

- Test Result

Check Item Style Item No.	Appearance check (Visual check)		Functional & Performance check
	Initial	Final	
5.7" Rugged Handheld Device : R05I98H-RTD1	No visible damage	No visible damage	Normal