

# BOXER-6357VS

With Cfast & HDD

## Environment Test Report

Report NO: 15P020011



Summary	<p><input type="checkbox"/> <b>Pass</b></p> <p><input type="checkbox"/> <b>Fail</b> Note : There is/are ___ defect(s) not list in the report, please check it in the DTS Website.</p> <p><input checked="" type="checkbox"/> <b>Pass with Deviation</b> <b>Comment:</b> <u>Lan function occurred error when system during full loading on IP camera&amp;Burn-in test 8.0</u></p>
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Issue date

Approval

Test Engineer

2015-06-01

KJ Wang

Ben Sun

# Test item list

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## Testing Result

Num	Test item list	Result	Remark
1	Cold start and hot start test	Pass	
2	Low temperature operation test	Pass	
3	Low temperature storage test	Pass	
4	High temperature operation test	Pass	
5	High temperature storage test	Pass	
6	Humidity test	Pass	
7	Variation temperature operation test	Pass	

# Configuration of EUT

## Sample Define:

Sample No.	S/N	BOXER-6357VS(PBA-QM77)
Sample 1		P6357001
Sample 2		P6357002
Sample 3		P6357003
Sample 4		P6357004

Num	Item	Spec
1.	<b>Main Board:</b>	PBA-QM77 C0.2
	1.BIOS	R0.5
	2.CPU	Intel Core i7 – 3517UE / 1.7GHz
	3.Memory	Transcend DDR3L-1600 4GB
2.	<b>Wide Temp. Storage</b>	Innodisk Cfast 3ME 32GB MLC(System) Toshiba 2.5” SATA 1TB 5400rpm
3.	<b>USB Keyboard</b>	KINYO KBX66
4.	<b>USB Mouse</b>	Microsoft Basic Optical Mouse v2.0
5.	<b>Adapter</b>	FSP180-AAAN2

## Test Condition:

Item	Testing Method	BurnIn configuration	Sample volume
<b>CPU</b>	PassMark BurnIn Test 8.0	Loading 100%	4 set
<b>2D Graphic</b>	PassMark BurnIn Test 8.0	Loading 100%	4 set
<b>3D Graphic</b>	PassMark BurnIn Test 8.0	Loading 100%	4 set
<b>Memory</b>	PassMark BurnIn Test 8.0	Loading 100%	4 set
<b>Disk</b>	PassMark BurnIn Test 8.0	Loading 100%	4 set
<b>Serial Port</b>	PassMark BurnIn Test 8.0 with loop back	Loading 100%	4 set
<b>LAN</b>	PassMark BurnIn Test 8.0 internal loop back	Loading 99%	4 set
<b>Audio</b>	PassMark BurnIn Test 8.0 Sound test	Loading 100%	4 set
<b>USB</b>	USB Keyboard and Mouse	-	4 set

# Cold start and hot start test

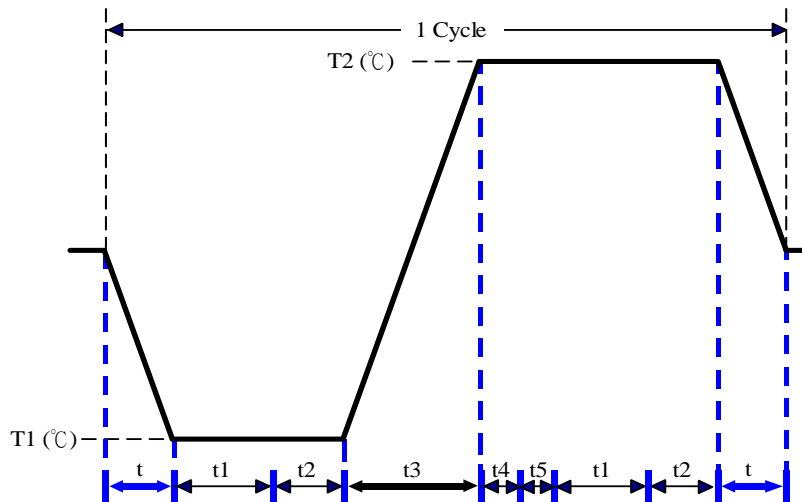
**Test Date:** 04-23 ~ 24-2015

**Test Site:** AAEON QE Dept.

**Test Standard:** Reference IEC 68-2-14 Testing procedures  
Test N: Change of temperature Test

**Test Equipment:**  
Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/11/14  
Serial Number: A0004

**Test Condition:**



Parameters	Description
T1	-4 5°C
T2	7 5°C
t1	2 h r s
t2	1.5 h r s
t4, t5	30 min
t, t3	2°C/min
n (Cycle)	1

t,t3 = temprature slope

t, t1: Power Off

t2: Power on/off test 10 times (on 2 min / off 5min)

t3,t4: Run PassMark Burn In Test

t5: Software restart test 2 times

Test Software: Windows 7

**Sample Quantity Under Test:**

Quantity: 4

**Test Result:**

Sample No.	Cold Start Test	Hot Start Test	Test Result	Note
Sample 1	Pass	Pass	Pass	
Sample 2	Pass	Pass	Pass	
Sample 3	Pass	Pass	Pass	
Sample 4	Pass	Pass	Pass	

**Note:**

# Low temperature operation test

**Test Date:** 04-08 ~ 09-2015

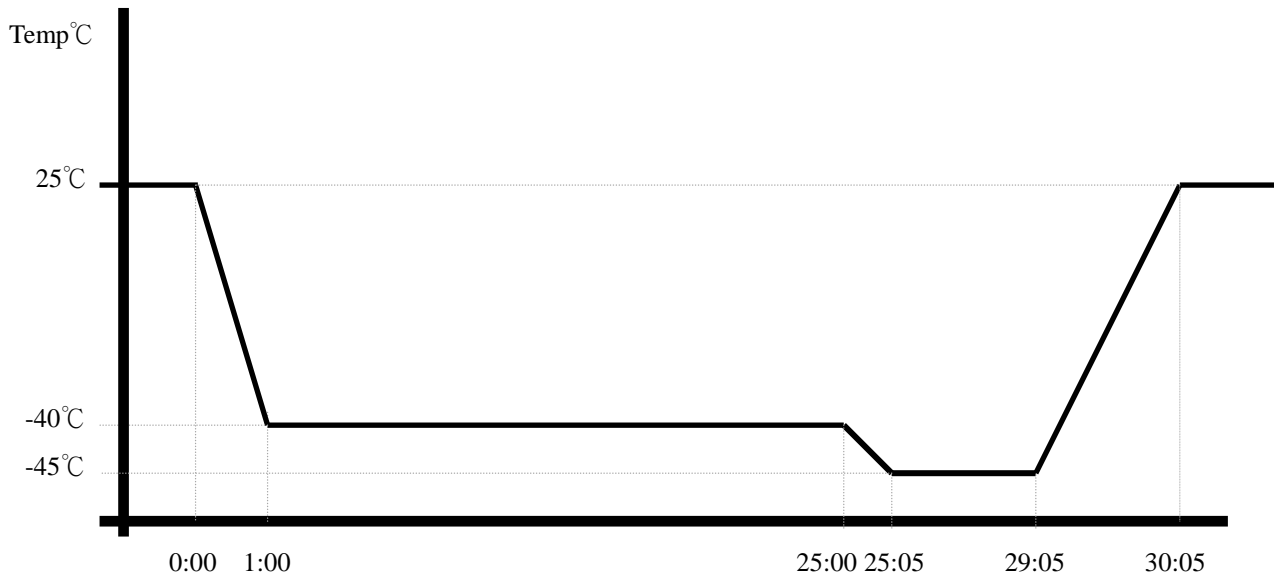
**Test Site:** AAEON QE Dept.

**Test Standard:** Reference IEC 68-2-1 Testing procedures  
Test Ad: Cold Test

**Test Equipment:**  
Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/11/14  
Serial Number: A0004

**Test Condition:**

1. Test Temperature: -40°C, -45°C
2. Test Times: -40°C/24Hrs; -45°C/4Hrs
3. Test Software: Windows 7 / Run PassMark Burn In Test 8.0 Pro
4. Test Environment Curve:



**Sample Quantity Under Test:**

Quantity: 4

**Test Result:**

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	Pass	

Note:

# Low temperature storage test

**Test Date:** 04-10 ~14-2015

**Test Site:** AAEON QE Dept.

**Test Standard:** Reference IEC 68-2-1 Testing procedures  
Test Ad: Cold Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/11/14  
Serial Number: A0004

**Test Condition:**

1. Test Temperature: -40°C
2. Test Times: -40°C / 96Hrs
3. Test Environment Curve:



**Sample Quantity Under Test:**

Quantity: 4

**Test Result:**

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	Pass	
<b>Note:</b>		

# High temp./humidity operation test

**Test Date:** 04-14 ~ 15-2015

**Test Site:** AAEON QE Dept.

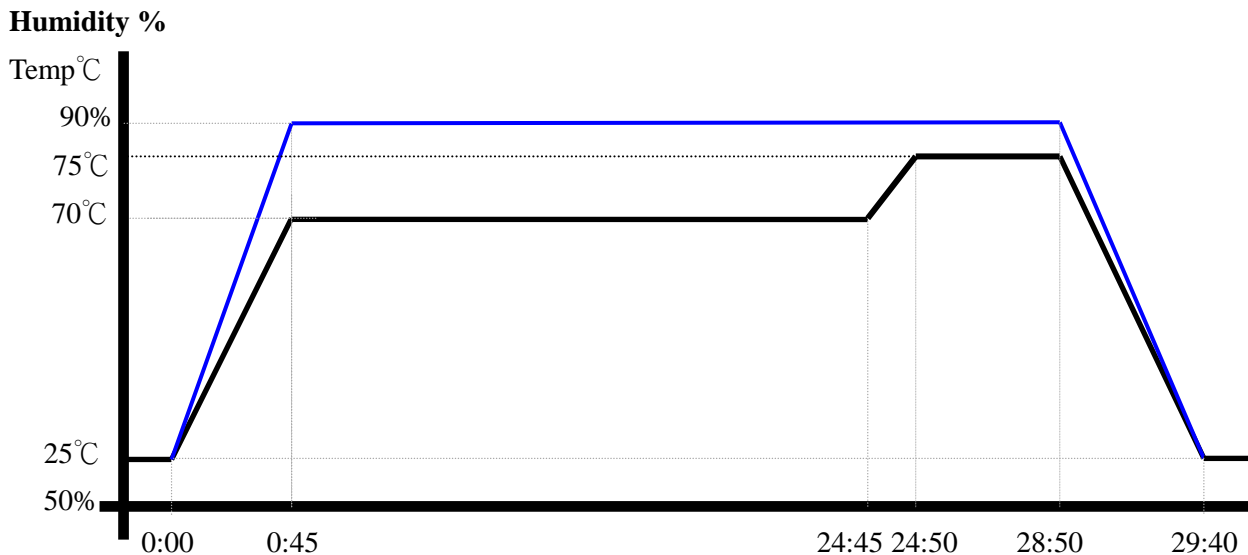
**Test Standard:** Reference IEC 68-2-2 Testing procedures  
Test Bd: Dry Heat Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/11/14  
Serial Number: A0004

**Test Condition:**

1. Test Temperature: 70°C, 75°C
2. Test Humidity: 90%RH
3. Test Times: 70°C/24Hrs; 75°C/4Hrs
4. Test Software: Windows 7 / Run PassMark Burn In Test 8.0 Pro
5. Test Environment Curve:



**Sample Configuration & Quantity Under Test:**

Quantity: 4

**Test Result:**

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	Pass	
<b>Note:</b>		

# High temperature storage test

**Test Date:** 04-15 ~ 19-2015

**Test Site:** AAEON QE Dept.

**Test Standard:** Reference IEC 68-2-2 Testing procedures  
Test Bd: Dry Heat Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/11/14  
Serial Number: A0004

**Test Condition:**

1. Test Temperature: 85°C
2. Test Times: 96Hrs
3. Test Environment Curve:



**Sample Configuration & Quantity Under Test:**

Quantity: 4

**Test Result:**

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	Pass	
<b>Note:</b>		



# Humidity Test

**Test Date:** 04-20~22-2015

**Test Site:** AAEON QE Dept.

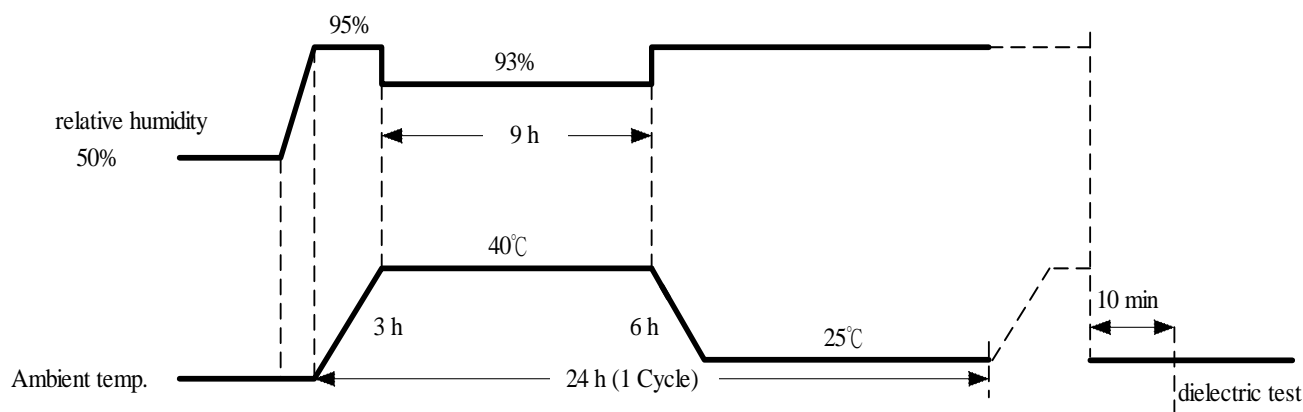
**Test Standard:** Reference IEC 68-2-30 Testing procedures  
Test Db: Damp Heat Test (Non-operation)

**Test Equipment:**

Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/11/14  
Serial Number: A0004

**Testing Item:**

1. Test Temperature: 25°C / 40°C
2. Test Humidity: 93~95%RH
3. Test Cycle: 2 Cycle
4. Test Environment Curve:



**Sample Configuration & Quantity Under Test:**

Quantity: 4

**Test Result:**

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	Pass	

Note:

# Variation Temperature Operation test

**Test Date:** 05-27 ~ 29-2015

**Test Site:** AAEON QE Dept.

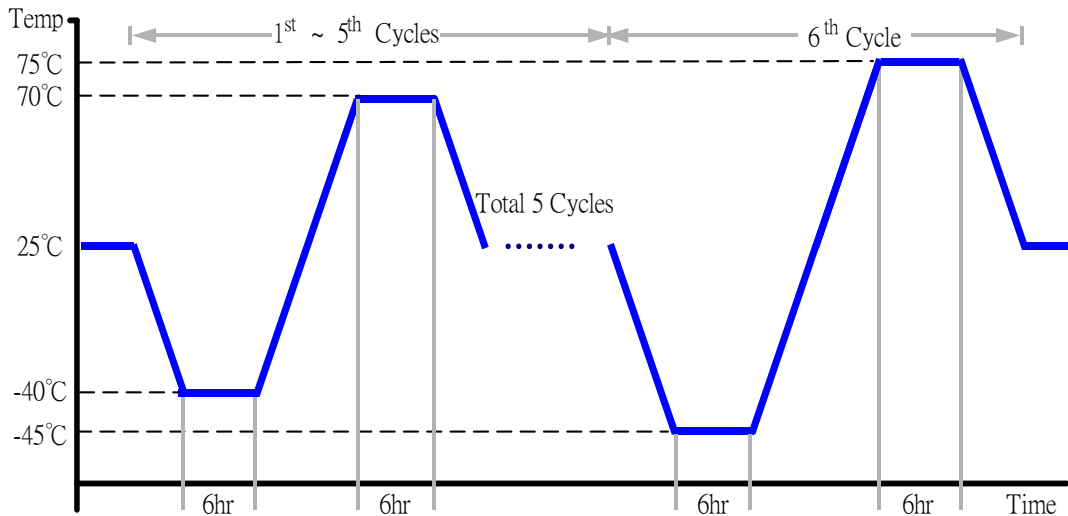
**Test Standard:** Reference IEC 68-2-14 Testing procedures  
Test N: Change of temperature Test

**Test Equipment:**

Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)  
Model: THS-D7TS-100+LN2  
Date of Calibration: 09/11/14  
Serial Number: A0004

**Test Condition:**

1. Test Low Temperature: -40°C (1~5 cycles)  
-45°C (6<sup>th</sup> cycle)
2. Test High Temperature: 70°C (1~5 cycles)  
75°C (6<sup>th</sup> cycle)
3. Test dwell time: 6Hrs
4. Temperature slope: 15°C/min
5. Test cycle: 6 cycles
6. Test Environment Curve:



**Sample Quantity Under Test:**  
Quantity: 4

**Test Result:**

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Fail	
Sample 3	Pass	
Sample 4	Pass	

**Note:**