

DUST TEST REPORT

Company : Gold Apollo Co., Ltd
 Address : Rm.1, 3rd Fl., No.77, Sec.1, Hsin Tai Wu Road, Hsi-Chih, Taipei,
Taiwan, R.O.C.
 Model Name : AL-A29
 Date Received : MAY 02, 2010
 Date Tested : MAY 02, 2010 ~ MAY 03, 2010

TESTING LABORATORY IS ACCREDITED BY:

IEC/IECQ 17025 certificate of independent test laboratory approval

Certificate No. : T1091

ISO 17025 accredited in respect of laboratory is approved by TAF

Certificate No. : L0835-090819

ISO 9001 certificate is approved by TUV CERT certification body of TUV NORD Cert GmbH

WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

	Name	Signature	Date
Test Engineer	Vincent Hung	<i>Vincent Hung</i>	May 05, 2010
Manager	General Lee	<i>General</i>	May 05, 2010

NOTE :

1. This report will be invalid if reproduced in part or altered in any way.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used otherwise.
3. This report is ONLY valid with the examination seal and signature of this institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, if not collected by the applicant.



TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1 DESCRIPTION OF UNIT	2
1.2 UNIT TESTING SETUP	2
1.3 UNIT OPERATING CONDITION	2

2. DUST TEST

2.1 DESCRIPTION OF TEST EQUIPMENT	3
2.2 LABORATORY AMBIENCE CONDITION	3
2.3 REFERENCE DOCUMENT	3
2.4 TEST CONDITION	3
2.5 SUMMARY OF TEST	3

ATTACHMENTS	4
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1. GENERAL INFORMATION

1.1 DESCRIPTION OF UNIT

MANUFACTURER : Gold Apollo Co., Ltd.

MODEL NAME : AL-A29

SAMPLE QUANTITY : 1 unit

1.2 UNIT TESTING SETUP:

See attachment on page 5

1.3 UNIT OPERATING CONDITION:

None

2. DUST TEST

2.1 DESCRIPTION OF TEST EQUIPMENT

Test Equipment	Serial Number	Calibration Date
Vötsch- VDT 1000A	59566059640010	NOV. 27, 2009

2.2 LABORATORY AMBIENCE CONDITION

Temperature : $25\pm 2^{\circ}\text{C}$

Relative humidity : $55\%\pm 2\%$ (RH)

2.3 REFERENCE DOCUMENT

This test method refers to IEC60529 IP5X Dust Test Protected.

2.4 TEST CONDITION

Unit is non-operating.

Dust material : Talcum powder (100% dry fine)

Particle size	Amount (%)
< 5 μm (Diameter)	42.31% ± 5
5~10 μm (Diameter)	35.85% ± 5
10~20 μm (Diameter)	21.15% ± 5
20~40 μm (Diameter)	0.69% ± 5
> 40 μm (Diameter)	0%

Dust density : 2.03 g/cm³

Amount of talcum powder : 2 kg/m³ (chamber volume)

Air direction : Vertically to achieve slowest possible downward settlement

Duration of exposure : 8 hours

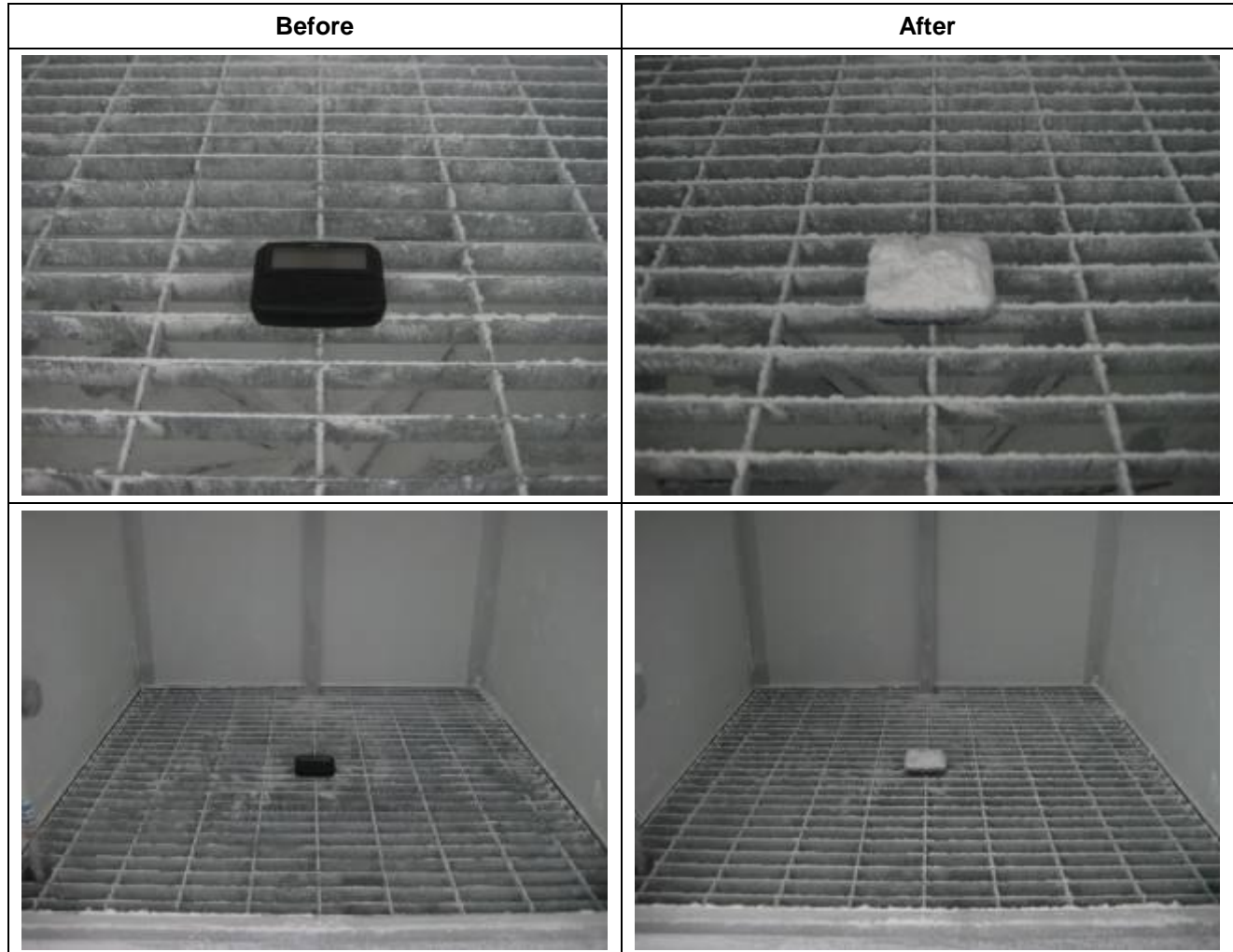
2.5 SUMMARY OF TEST

After test, no particle permeated into units and display functions were normal.

Attachment 1 : Photo of unit



Attachment 2 : Photo of dust test setup



Attachment 3 : Photo of unit after dust test

Functional check



Visual inspection



Visual inspection

