

TEST REPORT

報告號碼：HCN0082/2012

頁數： 1 of 7

日期： December 11, 2012

以下產品由客戶提供並確認規格如下：

產品名稱： 7dBi雙頻指向天線*4-NM(2.4/5GHz Antenna)

產品型號/編號： WLGP-5024-07NM4

生產或供應廠商： 歲海尼可網路科技有限公司

原產國： 台灣

數量： 共 2 件

測試執行日期： Dec. 6, 2012 to Dec. 10, 2012

我們依照客戶要求，根據客戶送交之樣品進行測試，結果如下：

委託測試要求：

外殼保護程度試驗 (IEC 60529 Edition 2.1: 2001)

IP 碼	IP67
第一數字碼	防止觸及危險部位及外來固體異物之保護等級
第二數字碼	防水保護等級

測試結果：

結論

送測樣品經過測試符合 IEC 60529 Edition 2.1: 2001 外殼保護程度試驗--IP67 試驗要求及合格判定準則。測試結果之詳細說明如附頁所示。

Signed for and on behalf of
SGS TAIWAN Ltd.



邱鄭霖
副主任

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外殼保護程度試驗：試驗設備：

名稱	廠牌	型號	序號
1.0 mm 測試棒	ED&D	TRP-02	B0050180
電子式拉壓力計	ALGOL	HF-50	HF-106764
耐塵試驗機	T-MACHINE	TMJ-9723S	T-23-110708
IPX7/IPX8 防水試驗水槽	self-made	SGS-ETR-030201	ETR000001

實驗室環境條件：

環境溫度：(25 ± 3) °C
 環境濕度：(55 ± 20) % RH

試驗方法/規格：

試驗規範：IEC 60529 Edition 2.1: 2001--IP67 試驗方法

1. 防止觸及危險部位之保護試驗：

試驗方法：將直徑 1.0 mm、長 100 mm 之金屬測試棒施加一指定力量向樣品外殼開口部壓住或插入。檢查試驗棒尖端與待測物之外殼內危險帶電/危險機械轉動部位之間是否有接觸。

測試施加力量：1 N±10%

2. 防止外來固體異物之保護試驗：

試驗方法：防塵試驗
 樣品狀態：非操作狀態
 砂塵種類：滑石粉
 砂塵置放量：6.75kg
 試驗室容積：3.375 m³
 最大抽取負壓：-20 mbar
 測試時間：8 小時

- 試驗後檢查待測物外殼之內部是否有進塵之情形。

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試驗方法/規格--續：

3. 防水保護試驗：

試驗方法：

樣品架設方式：

樣品依客戶所指定之正常使用狀態，完全浸沒於水中。

如下標示“●”之方式

●	高度未滿 850 mm 之待測外殼，其最底端應在水面下 1 m 之位置
	高度超過 850 mm 之待測外殼，其最頂端應在水面下 150 mm 之位置

樣品狀態：

非操作狀態

試驗時間：

30 minutes

試驗裝置：

如照片 7, 8 所示

- 試驗後檢查待測物外殼之內部是否有進水之情形。

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代測樣品：

 型號/ 編號： WLGP-5024-07NM4/ No. 1, No.2

 數量： 共 2 件

測試結果：

A. 防止觸及危險部位及外來固體異物之保護等級(IP6X)

A-1 防止觸及危險部位之保護試驗(IP6X)

試驗結果		
檢查項目	樣品型號/ 編號	
	WLGP-5024-07NM4/No. 1	
1	測試棒是否可進入外殼開口部？	否
2	(續 1) 若測試棒可進入待測物之外殼開口部，試驗棒尖端與外殼內危險帶電部位或危險機械轉動部位之間是否有接觸？	N/A
3	(續 2) 試驗棒尖端與外殼內危險帶電部位或危險機械轉動部位之間是否保持適當之空間距離？	N/A
註 1：N/A 表示不適用		
註 2：上述檢查項目係參考 IEC 60529 Edition 2.1: 2001 試驗要求並依照客戶提供之判定準則實施。		

A-2 防止外來固體異物之保護試驗(IP6X)

試驗結果		
檢查項目	樣品型號/ 編號	
	WLGP-5024-07NM4/No. 1	
1	待測物外殼內部是否有粉塵進入？	否
註 1：N/A 表示不適用		
註 2：上述檢查項目係參考 IEC 60529 Edition 2.1: 2001 試驗要求並依照客戶提供之判定準則實施。		

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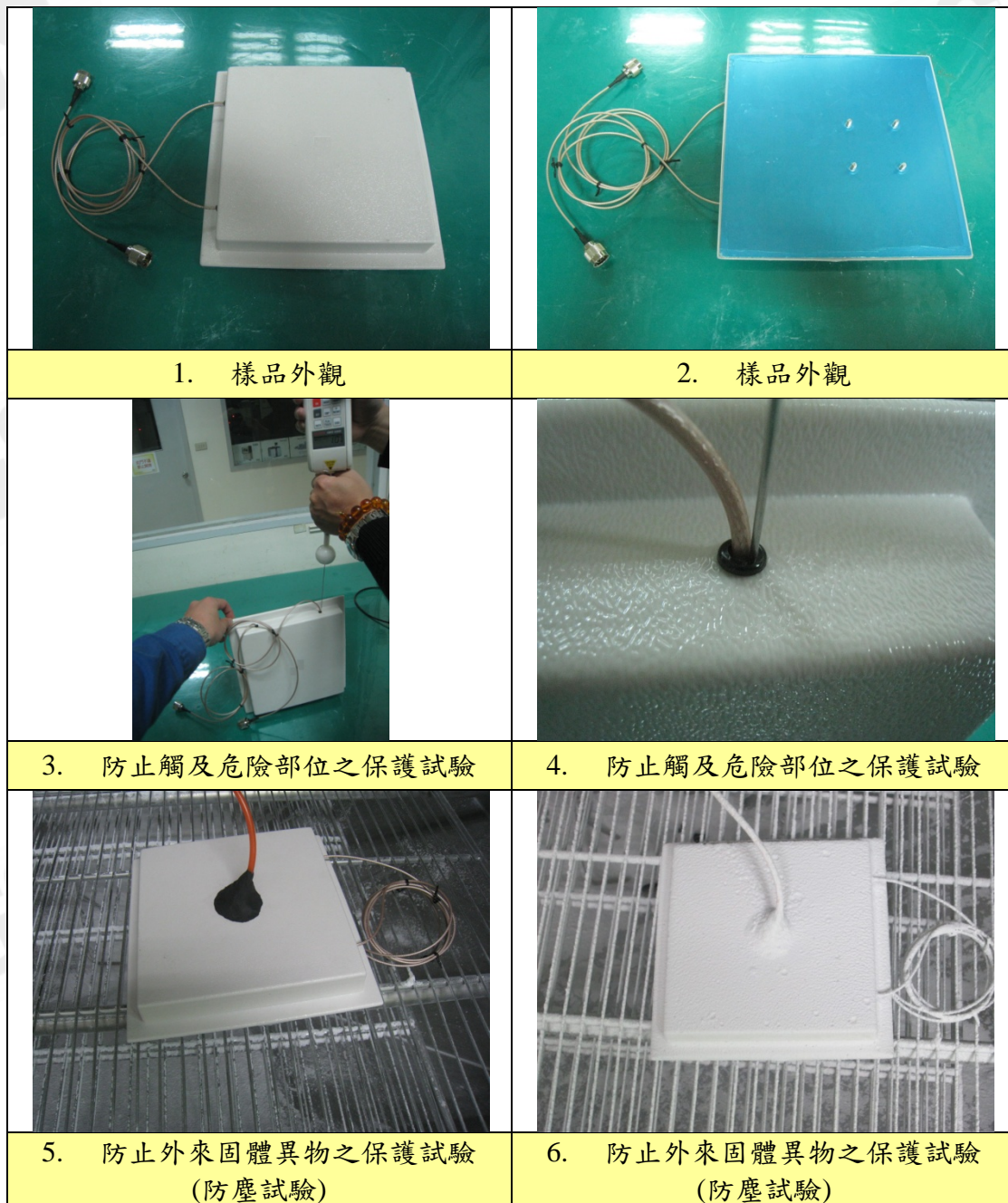
測試結果--續：

B. 防水保護等級(IPX7)

		試驗結果
檢查項目		樣品型號/ 編號
		WLGP-5024-07NM4/ No. 2
1	待測物外殼之內部是否有進水情形？	否
2	(續 1) 電線或電氣元件附近是否有水滯留？	N/A
2.1	(續 2) 外殼內部浸水時，是否足以阻礙內部器具正常動作及安全之虞？	N/A
2.2	(續 2.1) 是否於沿面距離之絕緣物表面附著有產生電弧軌跡之虞的水分？	N/A
2.3	(續 2.2) 導致未被設計為在潮濕情形下可運轉之帶電部或繞組受潮？	N/A
註 1：N/A 表示不適用		
註 2：上述檢查項目係參考 IEC 60529 Edition 2.1: 2001 試驗要求並依照客戶提供之判定準則實施。		

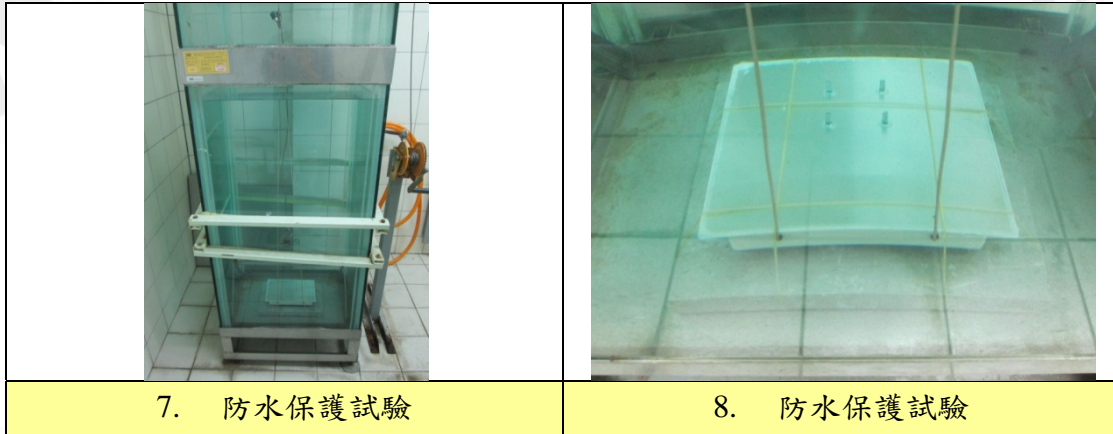
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試驗照片--續：



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