



**WIFI-Link™ Technologies Inc.**

歲海尼可網路科技有限公司

WEB: <http://www.wifi-link.com.tw/> TEL: 06-2523801 FAX: 06-2526033

## 5dBi 白色雙頻天線 (2.4/5GHz)

WLD1-5024-05-03

### APPLICATIONS AND FEATURES

#### Applications:

- 2.4GHz-2.5GHz / 5.15~5.85GHz ISM Band
- IEEE 802.11a/b/g/n Wireless LAN
- 802.16WiMax Networks
- Pubic Wireless Hotspot
- Bluetooth、Wi-Fi、RFID
- Wireless Video Systems
- Directional and multipoint application

#### Features :

- Superior Performance
- Made with weatherproof and corrosion resistant
- Good appearance design
- Installed for vertical or horizontal polarization
- Outdoor antenna for public Hot spots
- Heavy Duty mounting
- RoHS Compliant



### SPECIFICATIONS:

#### Electrical Specifications

Frequency Range	2400~2500 MHz 5150~5850 MHz
V.S.W.R	≤ 1.8:1
Return Loss	≥ -13db
Antenna Type	Dipole Sleeve
Gain	2.4GHz : 6dBi 5.0GHz : 5dBi
Polarization	Vertical
Horizontal Beam-with	360°
Impedance	50Ω

#### Mechanical Specifications

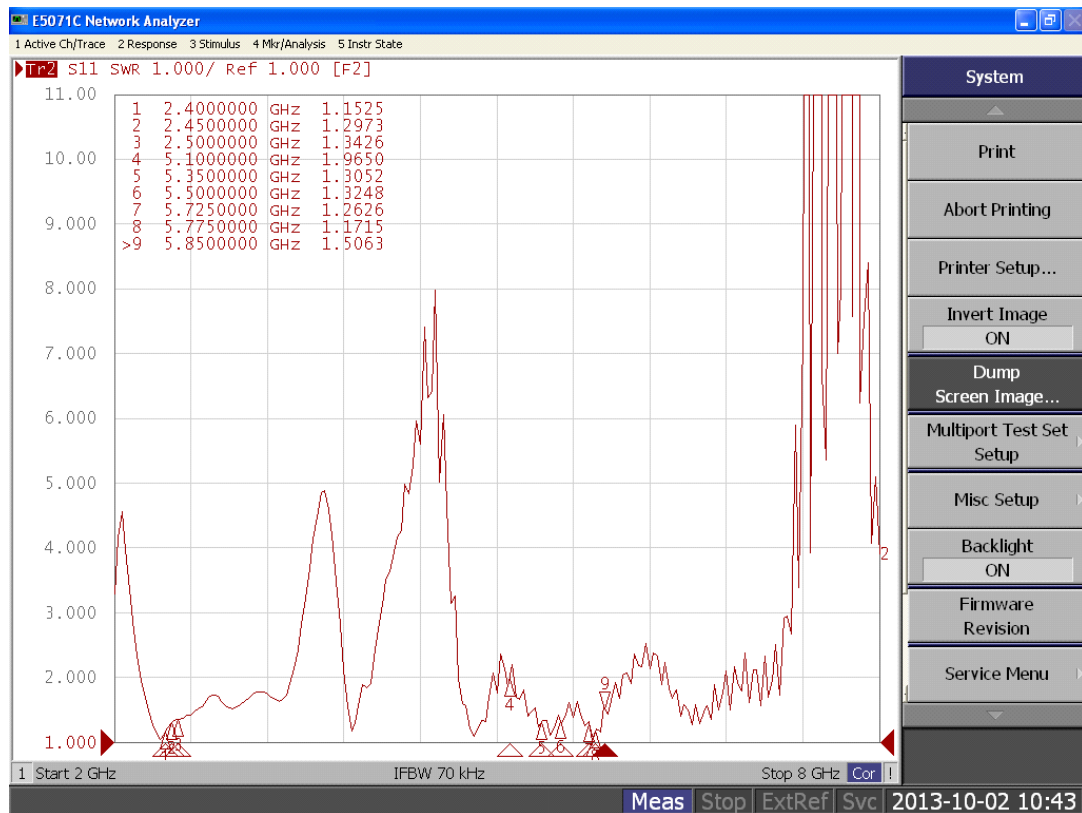
Dimension	195mm
Weight	20g
Housing	TPEE
Hinge	ABS
Color	White
Operating Temperature	-30°C to +75 °C
Storage Temperature	-30°C to +75 °C
Connector	RP SMA MALE

# Reliability Testing

Test Item	Procedure	Requirement
Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1.no visible damage 2. Freq. Tol. : < ±5%
Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

# Testing Report

## V.S.W.R.



## Antenna Gain

頻率	Gain H-Plane
2.400GHz	6.0 dBi
2.450 GHz	6.0 dBi
2.500 GHz	5.9 dBi
5.150 GHz	4.5 dBi
5.350 GHz	5.1 dBi
5.825 GHz	4.9 dBi

頻率	HPBW H-Plane	HPBW E-Plane
2.4 GHz	360.0 deg	30.6 deg
2.45 GHz	360.0 deg	35.2 deg
2.5 GHz	360.0 deg	35.3 deg
5.15 GHz	360.0 deg	26.5 deg
5.35 GHz	360.0 deg	26.7 deg
5.825 GHz	360.0 deg	43.2 deg



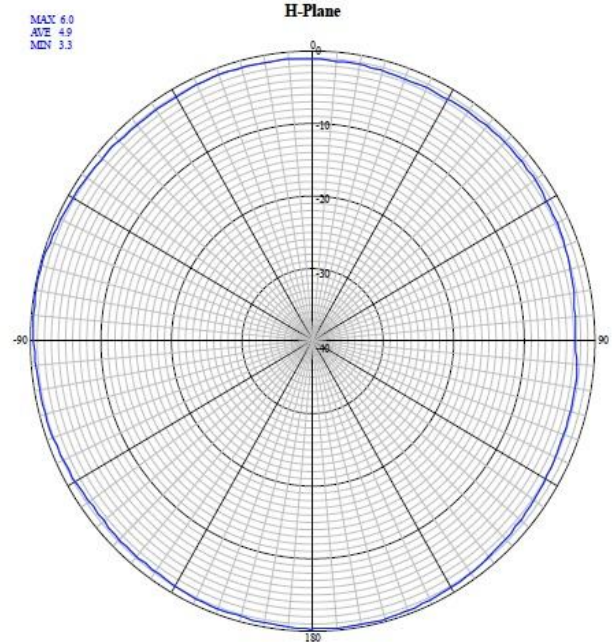
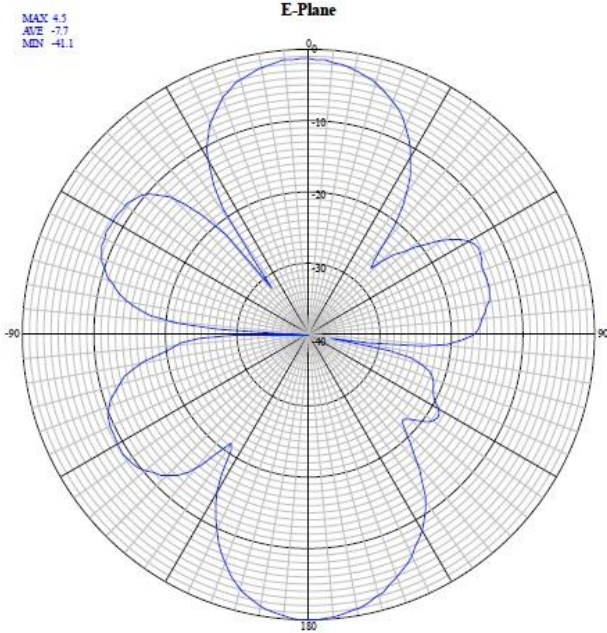
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# Antenna Vertical & Horizontal Pattern

2.4GHz

Vertical

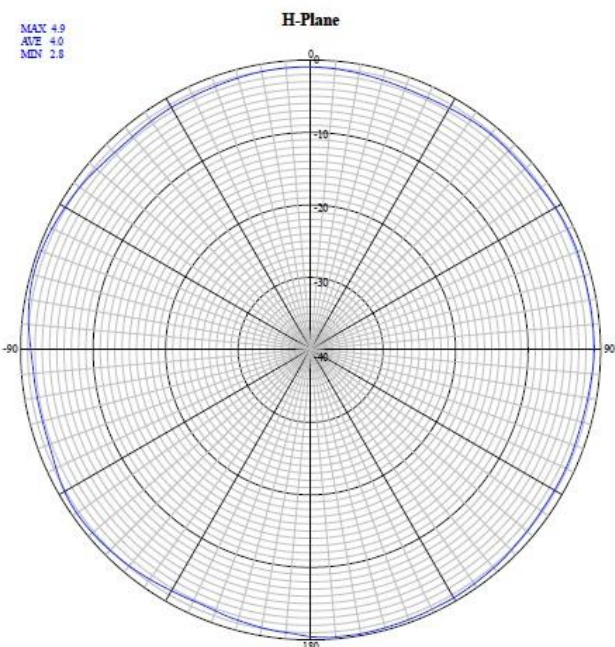
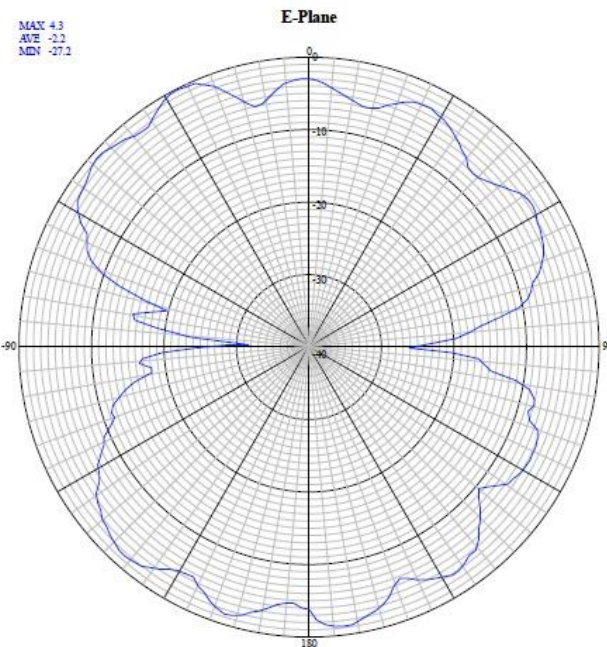
Horizontal



5.0GHz

Vertical

Horizontal

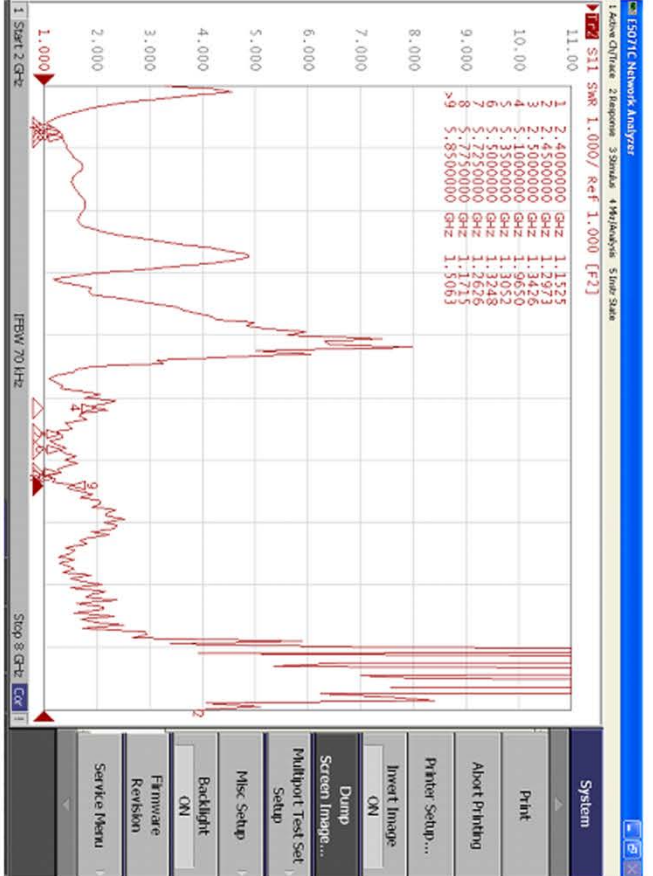


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REV	DATE	DESCRIPTION	DRAWN
A			

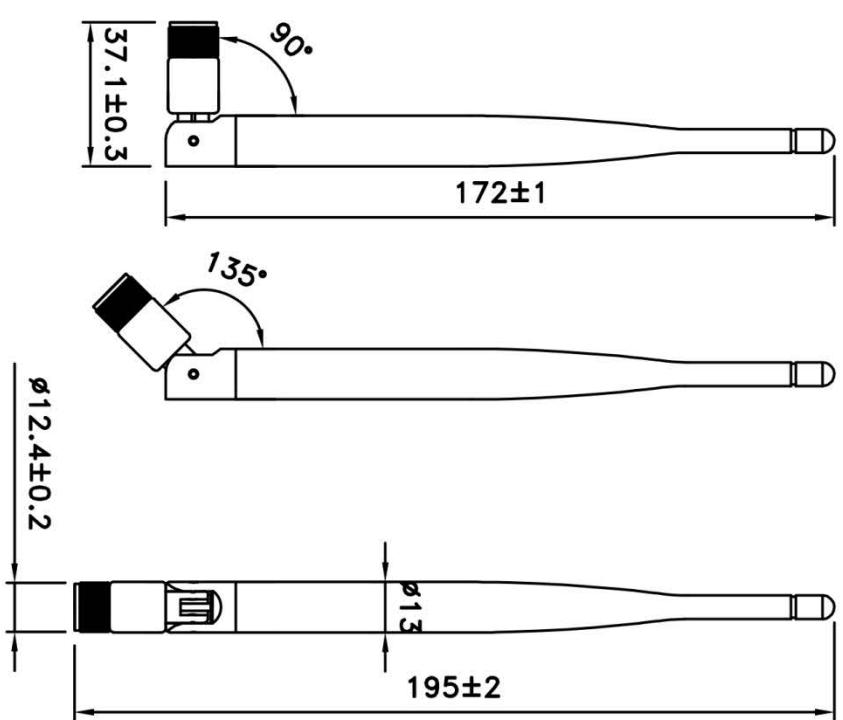


**ELECTRIC**  
 S.W.R.:  $2.4\text{GHz} \leq 2.0$   
 $5\text{GHz} \leq 2.0$   
 GAIN:  $2.4\text{GHz} \geq 5.0 \pm 0.5\text{ dBi}$   
 $5\text{GHz} \leq 5.0 \pm 0.5\text{ dBi}$   
 IMPEDANCE:  $50\ \Omega$

**MATERIAL**  
 MATERIAL OF RADIATOR: BRASS  
 CONNECTOR TYPE: RP SMA MALE

**ENVIRONMENTAL**  
 STORAGE TEMPERATURE:  $-20^\circ\text{C} \sim 70^\circ\text{C}$   
 OPERATING TEMPERATURE:  $-20^\circ\text{C} \sim 70^\circ\text{C}$

NO	DESCRIPTION	MATERIAL	FINISH	Q'ty
11	RG178U-1	ASSY	BROWN	1
10	Y0405	EVA	WHITE	1
9	D0326	PE	WHITE	1
8	N0572	BRASS	NONE	1
7	N0567	BRASS	NONE	1
6	N0562	BRASS	NONE	1
5	Y0408	TPEE	WHITE	1
4	Y0401	TPEE	WHITE	1
3	Y0407	TPEE	WHITE	1
2	Y0384	ABS	WHITE	1
1	SMA-1067-11-RP-DGB	ASSY	WHITE	1



**NOTE**

1. STRIP ALL BURRS.
2. ALL DIMENSIONS ARE AFTER PLATING.
3. DIAMETERS ON COMMON CENTERS.
4. CHAMFER 1ST & LAST WITHIN 0.1 T.I.R.
5. BREAK ALL CORNERS & EDGES CO.15 MAX.

**TOLERANCES**

UNLESS OTHERWISE NOTED TOLERANCES

X =  $\pm 0.3$   
 0.X =  $\pm 0.2$   
 0.XX =  $\pm 0.1$

 台灣威海尼可	
<b>TITLE</b> 5dBi 白色雙頻天線 (2.4/5GHz)	
<b>DRAWING NO.</b> WLD1-5024-05-03	<b>DRAWN DATE</b> 11/19/14
<b>APPROVED</b>	<b>SCALE</b> 1:2
<b>CHECKED</b>	<b>UNIT</b> mm
<b>DRAWN</b> ALICE	