



RF CASTLE ELECTRONICS CO., LTD.

華城電子有限公司

NO.151, Sec 3, Haidian RD., Annan District, Tainan City 70966, Taiwan, R.O.C.

TEL: +886-6-2475285 FAX : +886-6-2475282 E-mail: ivy@rfcastle.com Website: www.rfcastle.com



U-Tenna <USB+2.4GHz Panel 14dBi antenna>

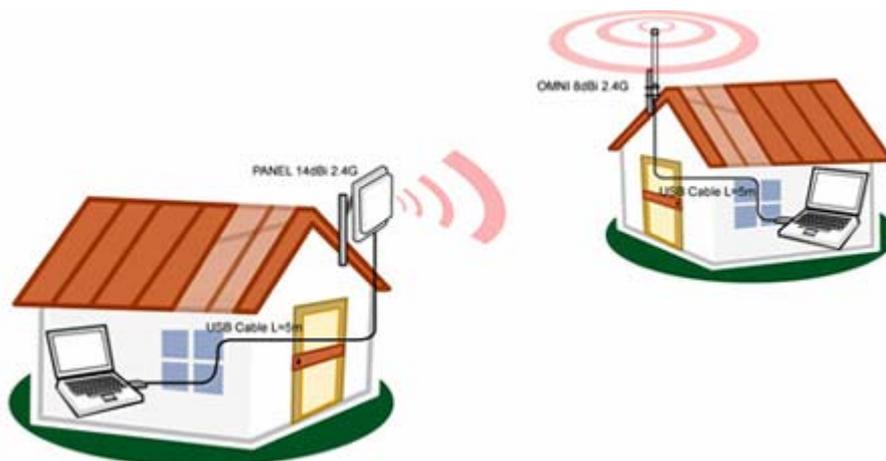
- Designed for wireless LAN communications
- Mounted easily for the outdoor application
- Designed to obtain maximum gain
- Made with weatherproof and corrosion resistant
- Operate at 2.4GHz with data transmission rate up to 54Mbps
- IEEE Standards support: IEEE 802.11b/g
- Advanced security features including WEP, WPA and WPA2
- USB 2.0 interface compliant with USB 1.1
- Advanced power saving technology
- Support WPA 802.1x authentication for Windows 98SE, ME, 2000 and XP
- Compatible with Windows 98SE, ME, 2000, XP, MAC, Linux

Feature

- 1. Wireless setup plan is not required.**
- 2. Easy and Convenience to install**
- 3. Just plug in your computer or notebook.**
- 4. Good reception and search result on all WiFi outdoor wireless signals.**
- 5. The transmission distance is around 2-3 km**
- 6. Easy to use, minimal or no technical knowledge required.**

Technical Information

<u>U-Tenna™ Panel Type</u>			
PANEL Antenna SPEC		USB SPEC	
Frequency	2400 - 2483MHz	Standard	IEEE 802.11b/g
Gain	14dBi	Frequency	2400 - 2483MHz
Polarization	Vertical	Date Rate	54/48/36/18/12/11/9/6/5.5/2/1Mbps
Beamwidth deg: vertical & horizontal	Horizontal±20° Vertical± 20°	Transmitter Output Power	<16dBm
VSWR	1.5 : 1	Receive Sensitivity	Operating at 11Mbps:@-80dBm
Impedance:	50ohm		Operating at 54Mbps:@-70dBm
Size	L 239×W 239×H 30 mm	Operating System Support	Windows 98se, Me,2000,XP and Vista
USB cable length	5 meters / 10 feet	Regulation	FCC/CE



Test Report and Test Procedures of U-Tenna? 2.4G PANEL Antenna 14dBi

Location: On the top floor of one 12-story building in a city, Taiwan.

- Equipment:**
1. Laptop - ACER Aspire 5051AWXMi
 2. U-Tenna - 2.4G PANEL Antenna 14dBi

Test Procedure: Please refer to the following photos and description.

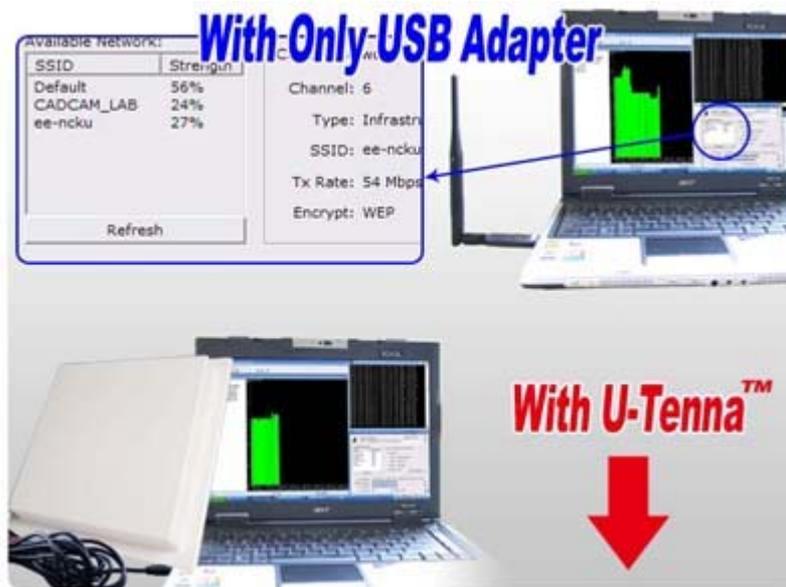


Photo 1



Photo 1: Test is conducted on the top floor of one 12-story building.

Photo 2



Photo 2: Connect the U-Tenna WL-UTP-2450-14 to the laptop.

Photo 4: 34 sources of wifi signals are detected with the software (Network Stumbler). Next, we have to check which signal is usable. After finding a usable signal, we will proceed with the test for traffic flow of the signal test packet.

Photo 5



Photo 5: There is a difference between how the point-point and omni-direction antenna receives signals. The point-point antenna can detect more wifi signals at this time. We also connect to the same 11 M sending station (corega) which uses omni antenna. Once it is connected, we open the signal test packet to test the signal quality

Photo 6



Photo 6: There is a difference between how the point-point and omni-direction antenna receives signals. The point-point antenna can detect more wifi signals at this time. We also connect to the same 11 M sending station (corega) which uses omni antenna. Once it is connected, we open the signal test packet to test the signal quality