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 Omni 8dBi antenna>

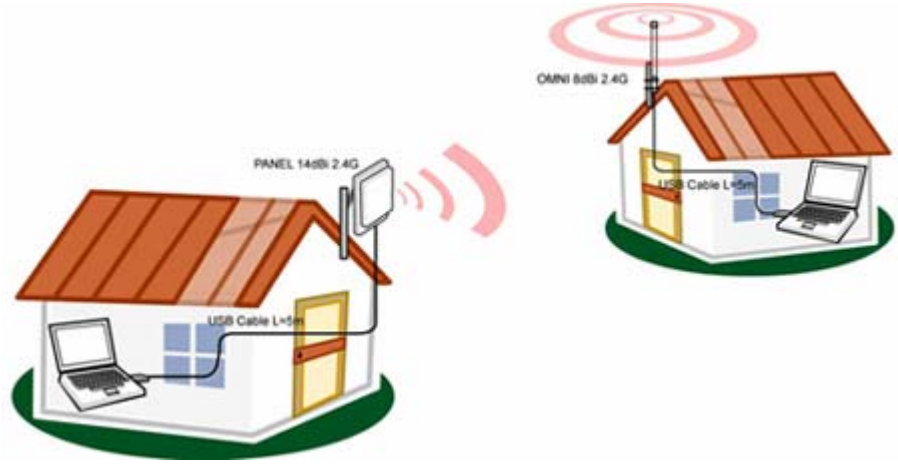
- Designed for wireless LAN communications
- Mounted easily for the outdoor application
- Designed to obtain maximum gain
- Made with weatherproof and corrosion resistant
- Operate at 2.4GHz with data transmission rate up to54Mbps
- IEEE Standards support: IEEE 802.11b/g
- Advanced security features 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

Features

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-TennaTM OMNI Type			
OMNI Antenna SPEC		**USB SPEC**	
Frequency	2400 - 2483MHz	Standard	IEEE 802.11b/g
Gain	8dBi	Frequency	2400 - 2483MHz
Polarization	Vertical	Date Rate	54/48/36/18/12/11/9/6/5.5/2/1Mbps
Beamwidth deg: vertical & horizontal	Horz.360°Vert.15°	Transmitter Output Power	<16dBm
VSWR	1.5：1	Receive Sensitivity	Operating at 11Mbps: @ -80dBm
Impedance:	50ohm		Operating at 54Mbps: @ -70dBm
Size	H390 ㎜/15.5inch	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 OMNI Antenna 8dBi

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 OMNI Antenna 8dBi

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

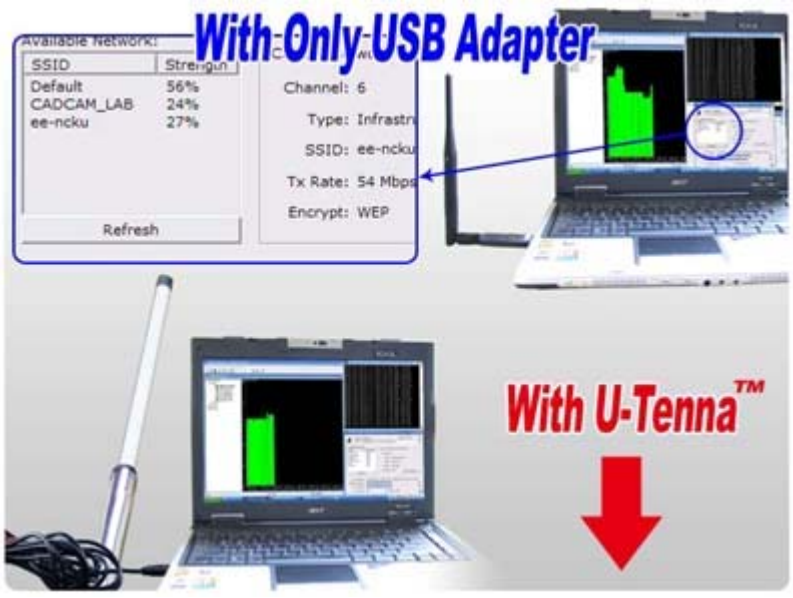


Photo 1

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

Photo 2

Photo 2: Connect the U-Tenna WL-UTO-2450-08 to the laptop.

Photo 3

Photo 3: Take the antenna to the most remote end of the floor as to receive more WIFI signals.

Photo 4

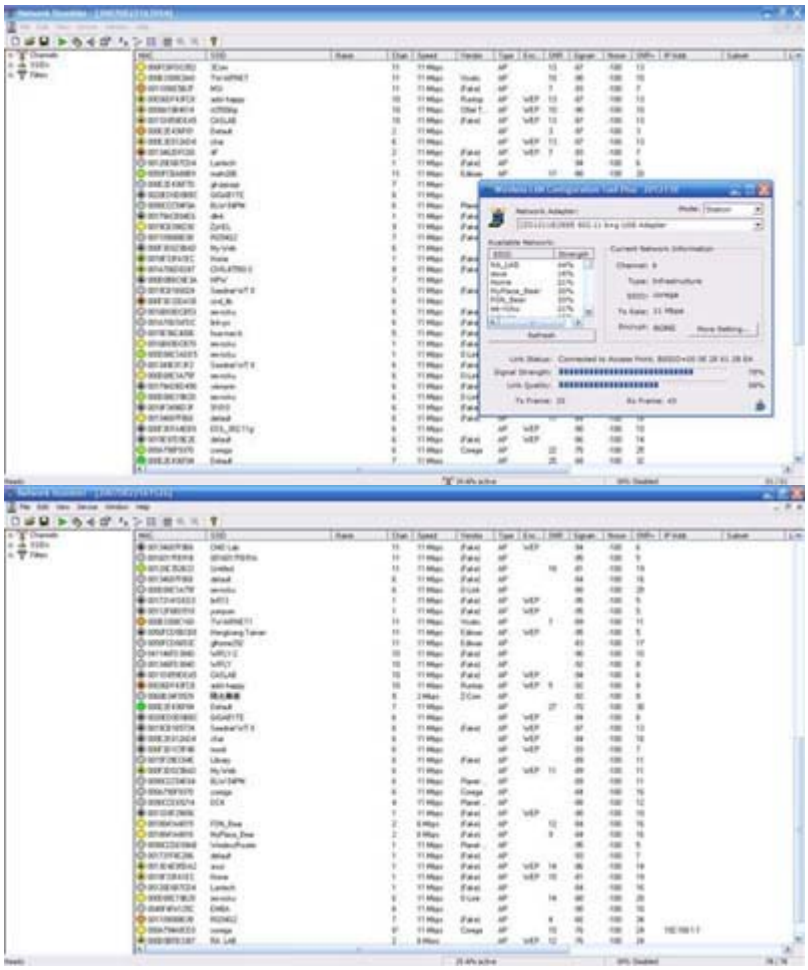


Photo 4: When searching for the possible signals with the software (Network Stumbler), we find 31 sources of signal. We have to check which signal is unable. After finding one, we will proceed with the test of traffic flow of packet.

Photo 5

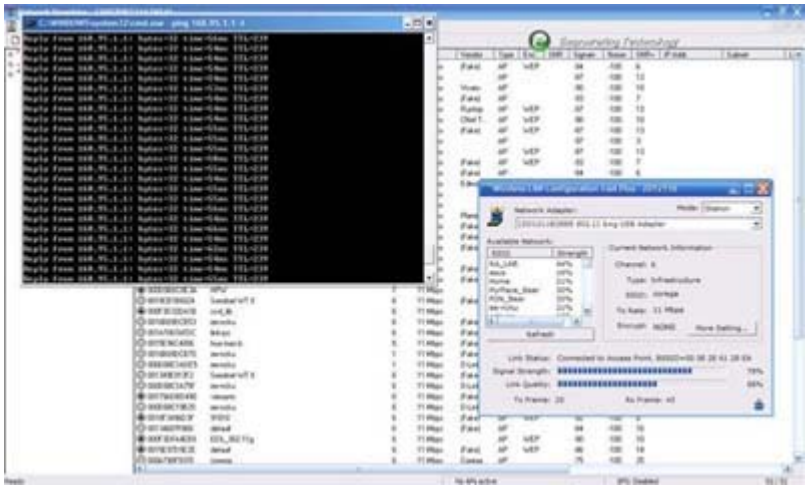


Photo 5: We are connecting to one of those 31 wireless receptions. We open the test packet in order to test the signal quality.

Photo 6

Photo 6: We click on the page of the transmission speed. As it shows, the current speed is 1066K bps, which is around 131 K bytes/sec.