Brickcom

Wireless Outdoor N Access Point

WAP-350N

- **Easy Setup with Brickcom Network Cameras**
- **802.11 a/b/g/n Wireless Connectivity**
- **Supports WPS, WEP and WPA Wireless Security**
- **Pole-Mountable**

The WAP-350N is a wireless outdoor access point which is designed specifically for use with IP surveillance systems. This access point can work with wireless (802.11a/b/g/n) network cameras, and bridge separate local network wirelessly as well.

WAP-350N even offers the convenience of Power over Ethernet (PoE) capability, so it can receive data and power over a single Ethernet network cable. By equipping 2.4GHz and 5GHz wireless connectivity, user can choose 5GHz for transmit video streaming if there is too much signal interference in 2.4GHz frequency. The 802.11n technology provides faster data transmission than the earlier 802.11b/g. The Wi-Fi Protected Setup (WPS) feature is also supported to help you simplify the setting up and configure security on a wireless network.

This wireless access point is designed to simplify the setup between Brickcom network cameras. Upon powering on the access point and Brickcom network camera, the connection will be made automatically, requiring no configuration.

Brickcom | General Specification

WAP-350N

Product Name
WAP-350N

Wireless Channel
2.4GHz:
1-11 (2401-2473GHz)

5GHz:
UNII-1 34-48 (5150-5250GHz)
For FCC/US & Canada & ETSI/Europe:
36, 40, 44, 48
For MIC/Japan: 34, 38, 42, 46, 48

UNII-3 149-161 (5725-5850GHz). For FCC/US & Canada only

Standard
802.11n
802.11g
802.11b
802.11a
802.11e WMM
802.11i WPA2
802.3
802.3u
802.3af (Power over Ethernet)
802.1x (security authentication)

Security
WEP
WPA
WPA2
MAC-Bases Access control
SSID broadcast enable/disable
Client isolation
802.1X
Rogue AP detection

Management
Web user interface
SNMP version 1, 2c
Event logging
Email logging
Remote syslog
Web firmware upgrade
DHCP client
HTTP Redirect

Quality of Service
802.1p VLAN priority
WMM wireless priority
Mapping of 802.1p VLAN priority to WMM wireless priority

Network Capabilities
IPv4
4 SSID
802.1q VLAN
SSID to VLAN mapping
802.1d Spanning
Auto-channel selection

Mode
Access Point Mode
Point-to-point Bridge Mode
Point-to-multipoint Bridge Mode
Repeater Mode
Wireless Client Mode

Antenna
Internal: 2x2 panel antenna for 2.4GHz and 5GHz
Internal antenna Gain @ 2.4 GHz and 5GHz: 6dBi
Antenna connector is provided to support external antenna
Transmission power @ 2.4 GHz: 12dBm
Transmission power @ 5 GHz: 13dBm
Reception Sensitivity @ 2.4 GHz: -65dBm
Reception Sensitivity @ 5 GHz: -63dBm

Port
LAN:
10/100/1000 Mbps port
Antenna Connector:
Reverse-Polarity N Female type

Enclosure
IP66 Compliant

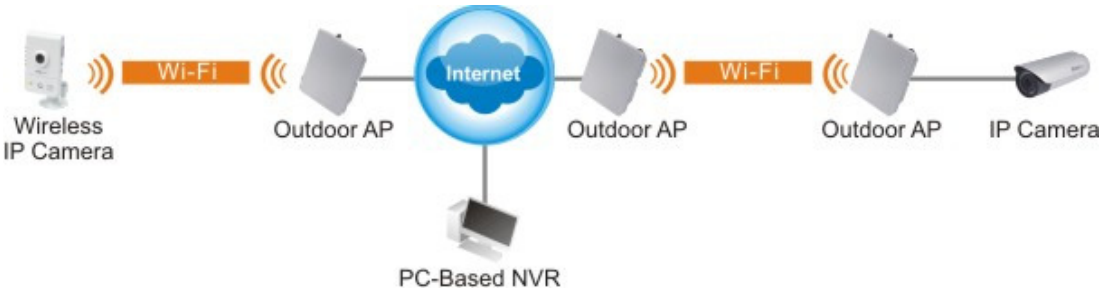
Power
802.3af compliant PoE
Power Consumption: 7 Watts

Operating Temperature:
10ºC to 50ºC (50ºF to 144ºF)
Humidity:
5%~95% non-condensing

Dimensions
205x205x73 mm

Net Weight
.66 lbs. (0.3 kg)

Gross Weight
1.1 lbs. (0.5 kg)



WAP-350N

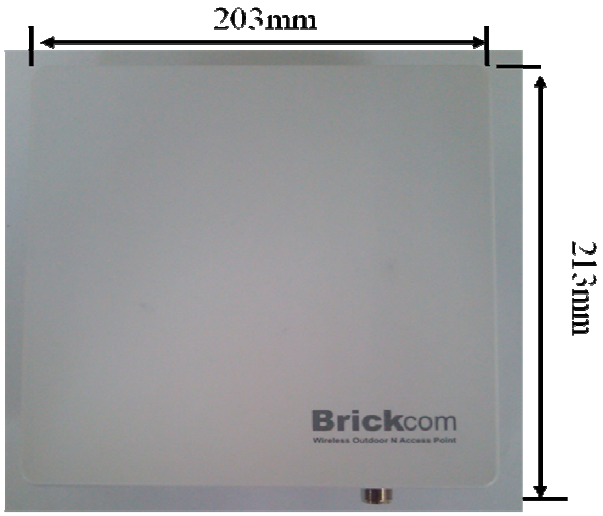
Electrical Properties

Frequency range	2.4GHz~2.5GHz	5.1GHz~6GHz
Polarization	Dual Linear	Dual Linear
Gain	8dBi	11dBi
HPBW / horizontal	50°	35°
HPBW / vertical	75°	35°
Power handling	10W (cw)	
Front to back ratio	20dB	
Impedance	50ohm	
V.S.W.R	2.0 : 1 (Max.)	
Connector	IPEX PLUG * 2	

Mechanical Properties

Connector Type	IPEX PLUG * 2
Dimensions	205x 205 x 73 mm
Weight	300 kg
Radome color	Panton Cool Gray 1C
Radome material	ASA PW-978B

Antenna Set

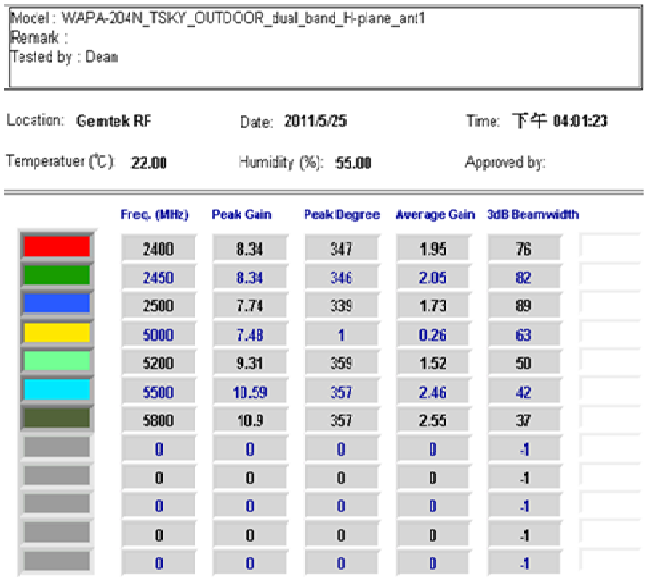


Antenna Return Loss

Antenna V.S.W.R

Antenna Isolation

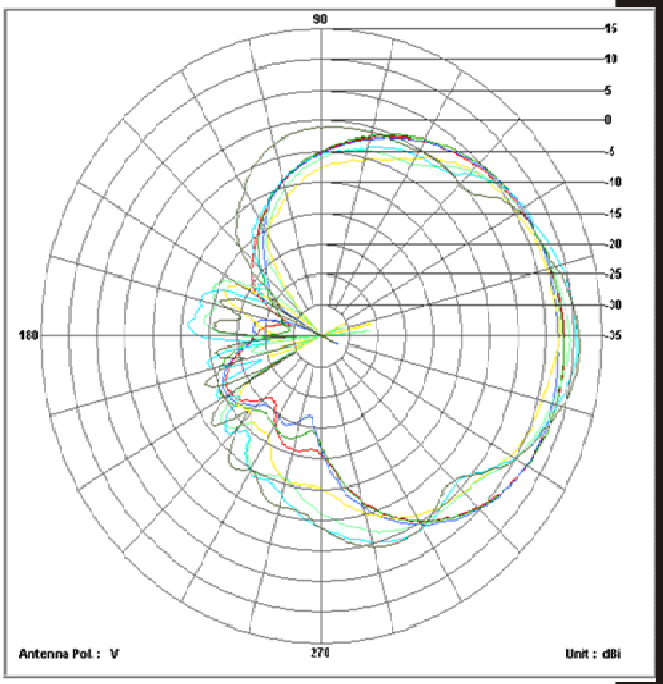
Ant-1 Vertical Gain at H-Plane


Model : WAPA-204N_TSKY_OUTDOOR_dual_band_H-plane_ant1
Remark :
Tested by : Deam

Location: Gemtek RF Date: 2011/5/25 Time: 下午 04:01:23

Temperatuer (℃): 22.00 Humidity (%): 55.00 Approved by:

Freq. (MHz)	Peak Gain	Peak Degree	Average Gain	3dB Beamwidth
2400	8.34	347	1.95	76
2450	8.34	346	2.05	82
2500	7.74	339	1.73	89
5000	7.48	1	0.26	63
5200	9.31	359	1.52	50
5500	10.59	357	2.46	42
5800	10.9	357	2.55	37
0	0	0	0	-1
0	0	0	0	-1
0	0	0	0	-1
0	0	0	0	-1
0	0	0	0	-1



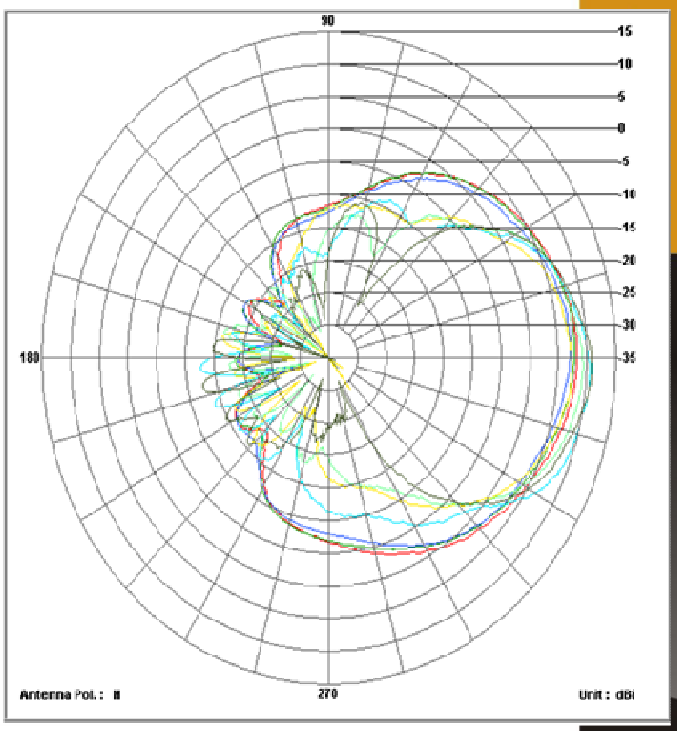
Ant-1 Horizontal Gain at E-Plane

Model : WAPA-204N_TSKY_OUTDOOR_dual_band_E-plane_ant1
Remark :
Tested by : Dean

Location: Gemtek RF Date: 2011/5/25 Time: 下午 04:01:23

Temperatuer (℃): 22.00 Humidity (%): 55.00 Approved by:

Freq. (MHz)	Peak Gain	Peak Degree	Average Gain	3dB Beamwidth
2400	8.26	1	0.89	54
2450	7.92	2	0.46	54
2500	7.1	3	-0.29	53
5000	7.45	357	-1.22	45
5200	9.33	358	0.38	44
5500	10.55	356	1.55	42
5800	10.83	357	1.32	36
0	0	0	0	-1
0	0	0	0	-1
0	0	0	0	-1
0	0	0	0	-1
0	0	0	0	-1



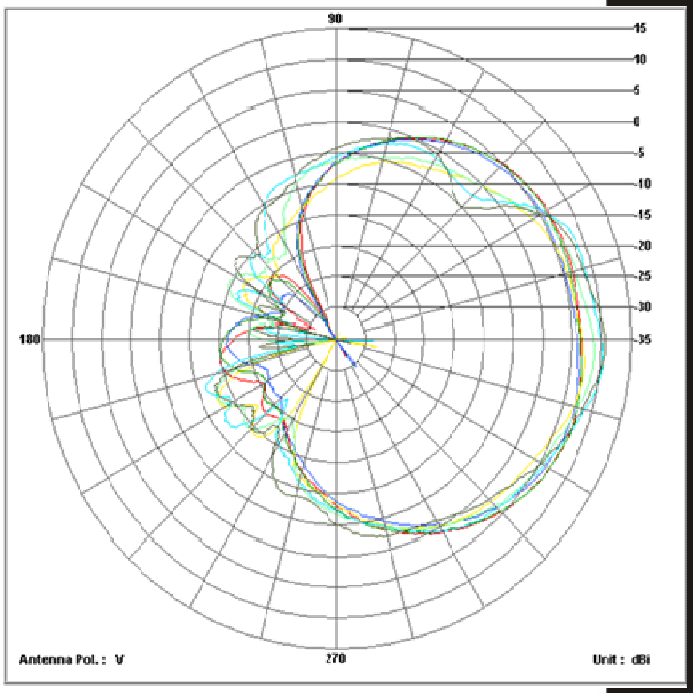
Ant-2 Vertical Gain at H-Plane

Model : WAPA-204N_TSKY_OUTDOOR_dual_band_H-plane_ant2
Remark :
Tested by : Dean

Location: Gemtek RF Date: 2011/5/25 Time: 下午 04:01:23

Temperatuer (℃): 22.00 Humidity (%): 55.00 Approved by:

Freq. (MHz)	Peak Gain	Peak Degree	Average Gain	3dB Beamwidth
2400	7.44	344	1.56	94
2450	7.53	340	1.45	91
2500	6.9	342	0.75	91
5000	7.41	353	-0.09	52
5200	8.88	356	1.1	49
5500	10.33	355	2.26	47
5800	10.61	359	2.02	41
0	0	0	0	-1
0	0	0	0	-1
0	0	0	0	-1
0	0	0	0	-1
0	0	0	0	-1



WAP-350N

Ant-2 Vertical Gain at H-Plane

Model : WAPA-204N_TSKY_OUTDOOR_dual_band_E-plane_ant2
Remark :
Tested by : Dean

Location: Gemtek RF Date: 2011/5/25 Time: 下午 04:01:23

Temperatuer (℃): 22.00 Humidity (%): 55.00 Approved by:

	freq. (MHz)	Peak Gain	Peak Degree	Average Gain	3dB Beamwidth
	2400	7.19	0	0.22	63
	2450	6.73	0	-0.18	64
	2500	5.76	0	-1.13	63
	5000	7.31	355	-1.35	43
	5200	8.91	358	0.08	42
	5500	10.35	355	1.45	44
	5800	11.09	1	1.72	39
	0	0	0	0	-1
	0	0	0	0	-1
	0	0	0	0	-1
	0	0	0	0	-1
	0	0	0	0	-1