



## Key Features & Benefits

- IP configuration software designed with user friendly GUI for easy configuration of the wireless system, such as factory default setting, IP address setting, and wireless setting
- Allow either vertical or horizontal antenna polarity alignment
- The AirEther AB54E Pro offers 28 dBm transmit power when operating under the 802.11b mode, and offers 22 dBm transmit power when operating under the 802.11g mode (FCC only)
- The AirEther AB54E and AB54E Pro offer an external N-Female antenna for using with more flexible antennas, such as high gain omni directional or a more narrow beamwidth sector antenna
- Supports WPA and WPA-PSK with AES and TKIP, 152-bit encryption for the highest data security
- Easy to install with cost effective Power over Ethernet (PoE)
- Swivel mounting accessories provide an out-of-the-box solution for quick and easy installation
- Compliant to the IEEE 802.11 b/g standards, DSSS for 802.11b mode radio operations and OFDM technology for 802.11g mode radio operations, and support Super G mode for up to 108 Mbps of data rate
- The AirEther AB54 is designed with a built in 12 dBi directional panel antenna and AB54E/Pro with type N female antenna connector
- Built in site survey and management tools for simplified installations and operations of wireless system
- Low profile enclosure designed for minimum wind resistance
- Transmit power control for optimal long range radio performance
- IP67 certified all weather housing for outdoor environments; protected by a heavy-duty UV stable glass filled Polycarbonate plastic housing
- Fully weatherized outdoor unit operates in temperatures ranging from -22°F to +180°F (-30°C to +70°C)

## AirEther™ AB54E Pro Multimode Wireless Base Station

Inscape Data's AirEther™ AB54E Pro Multimode Wireless Base Station products are designed for outdoor long-range wireless communications, based on IEEE802.11 b/g standards using 2.4GHz frequency. The AB54E Pro is designed for carrier class wireless applications, i.e. municipal hot spots. These reliable outdoor wireless products are capable of operating at one of the four modes: Access Point, Wireless Bridge, Repeater, or Client Bridge. AB54E Pro is manufactured with an IP68 weather-proof housing. Our AirEther base stations are designed for near line-of-sight wireless applications. The radio performance of these wireless products is designed and optimized for long-range and high throughput wireless communications based on the IEEE 802.11 b/g standards.

Our AirEther AB54E Pro products are designed with the Power over Ethernet (PoE) feature, which allows power and data transmitted over a single network cable. This capability provides for simple, convenient installation. When you use the LPS1000 Outdoor PoE Switch and networking with any of the NVC Series Cameras, all the wireless devices and the cameras are networked within a single outdoor LAN (local Area Network). It becomes much easier to manage, integrate, install, maintain, and troubleshoot. Based on Inscape Data's patent-protected technology, our new Outdoor PoE Switch greatly lessens challenges for outdoor LAN design, integration, and deployment.

## Applications



### AIRPORTS

Regardless if it is inside or outside of an airport, Inscape Data offers total wired or wireless IP based video security solutions that will save on your installation cost and make your monitoring more efficient



### METROPOLITAN STREETS

Inscape Data's wired and wireless IP based video security solutions will save on your installation cost and make the streets and metropolitan safer



### BUILDINGS

Inscape Data's wired and wireless IP based video security solutions will save on your installation cost and make your buildings more secure

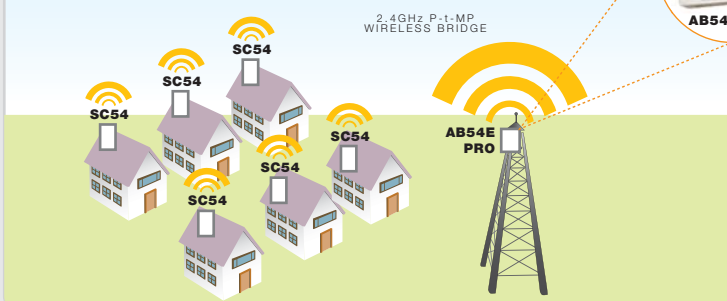


### SCHOOL CAMPUS

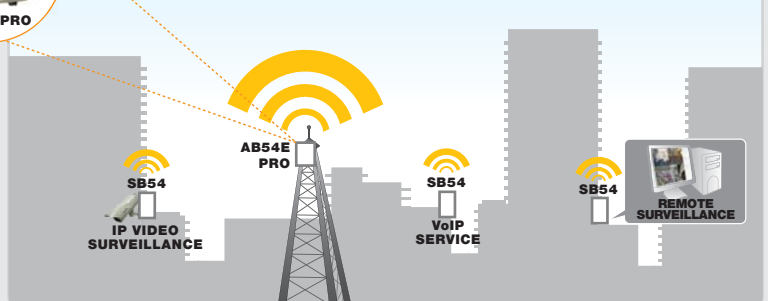
Regardless if it is inside classrooms or on a campus, Inscape Data's wired and wireless IP based video security solutions will save on your installation cost and make monitoring easier

## System Configurations

### RURAL WIRELESS BROADBAND



### METROPOLITAN WIRELESS BROADBAND



## Technical Specifications

### AB54E Pro

Hardware Revision

R3

Standards Compliance

IEEE 802.11b/g

IEEE 802.3, IEEE 802.3u

Modulation

IEEE802.11b: CCK,DQPSK,DBPSK

IEEE802.11g: OFDM

Frequency Band

America/FCC : 2.412~2.462 GHz (11 channels)

Europe CE/ETSI : 2.412~2.472 GHz (13 channels)

Japan : 2.412~2.484 GHz (14 channels)

Transmission Power (FCC)

28 dBm max

Transmission Rate

IEEE802.11b: 1/2/5.5/11Mbps

IEEE802.11g: 6/9/12/18/24/36/48/54Mbps

Super g: up to 108 Mbps

Access Point Interfaces

Auto MDI/MDI-X Ethernet 10/100Base-TX: RJ-45

Receiver Sensitivity

802.11b -85dBm@ 11mbps, -88 dBm@ 5.5 mbps,

-90 dBm@ 2 mbps, -94 dBm@ 1 mbps

802.11g -91dBm@ 6mbps, -88 dBm@ 12 mbps,-82 dBm

@36mbps, -76 dBm@ 54 mbps, -70 dBm@ 108mbps

Antenna Connector

N-Female

Security Systems

64-bit/128-bit/152-bit WEP encryption; Wi-Fi Protected

Access WPA with AES or TKIP, WPA-PSK

WPA2

Wireless Setting

Access Point, Wireless Bridge, Repeater, Client Bridge

Multiple BSSID with 802.1g VLAN Tagging

Software/Firmware

Site Survey

Wireless Client List

DHCP Client

Wireless access control by MAC address (deny or accept)

WPA Support (WPA personal and enterprise)

Web-based configuration via popular browser (IE, Netscape)

Firmware upgrade and configuration backup via Web

Reset to default by WebUI or software

SNMP

Spanning Tree Protocol

VPN pass-through (PPTP, L2TP, IPSEC)

QOS

Network Time

Syslog Server

Environment Temperature

-22°F to +158°F (-30°C to +70°C)

Power

48VDC 400mA (48VDC 1A AC/DC adapter included)

Network Management

System OS Support Windows 95/98/Me/NT4.0/2000/XP

Warranty

One year limited

## System Dimensions

a. 9.6" (244mm)

b. 7.9" (201mm)

c. 3.25" (83mm)



## Antenna Options



**OA09**

2.4GHz Omni Antenna



**SA1821**

2.4GHz Sector Antenna



**PA21**

2.4GHz Panel Antenna

## Accessories



**AC100**

1M Low Loss Antenna Cable  
N-Male to N-Male



**WC001**

Waterproof Connector Set



**WC25, WC75, WC100**

25Ft, 75Ft, and 100Ft CAT5  
Outdoor Grade Ethernet Cables

## Package Contents

1. AB54E Pro Unit
2. Ethernet Inline Power Injector (PoE)
3. AC-DC, Adapter with Wall-Plug Power Cord
4. Product CDROM
5. Mass Mounting (U Bolt) Kit and Wall Mount
6. Waterproof Connector
7. Warranty Information Sheet

Product Information Online: [www.inscapedata.com/ab54.htm](http://www.inscapedata.com/ab54.htm)



THE LEADING  
OUTDOOR NETWORK  
APPLIANCE COMPANY

Total Turnkey Solutions for Outdoor PoE, Wired/Wireless, and IP Video Applications

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