

## WHP/WHB-1100

### 802.11b Wireless Outdoor 20dBm Access Point/Bridge

The AirLive Outdoor family is the most complete outdoor wireless solution in the industry. There are 6 models to meet the demand of all type of environment and applications. They allow transmission distance up to over 30 kilometer in open space. Every model is constructed of rock solid weather-proof cast aluminum to operate in the most extreme environment.



OvisLink Wireless High Power Outdoor Solutions

Model	Description	Model	Description
WHB-1100	20dBm Bridge	WHP-1100	20dBm AP
WHB-1120	20dBm Bridge w/18dBi Antenna	WHP-1120	20dBm AP w/18dBi Antenna
WHB-1130	30dBm Bridge	WHP-1130	30dBm AP

All model includes a complete Power over Ethernet package with a 25 meter water-proof cable and DC injector unit. Therefore you can use indoor power source and install the outdoor unit within close distance to antenna for minimum cable signal loss.

OvisLink AirLive Outdoor Specification Comparison

Model	Output	Antenna	Lighting Protector	Distance(Good Weather)	Distance(Poor Weather)
WHB-1100	20dBm	Optional	Optional	21 km(w/18dBi antenna)	7 km(w/18dBi antenna)
WHP-1100	20dBm	Optional	Optional	21 km(w/18dBi antenna)	7 km(w/18dBi antenna)
WHB-1120	20dBm	18dBi Patch	Yes	21 km	7 km
WHP-1120	20dBm	18dBi Patch	Yes	21 km	7 km
WHB-1130	30dBm	Optional	Optional	30+ km(w/18dBi antenna)	12+ km(w/18dBi antenna)
WHP-1130	30dBm	Optional	Optional	30+ km(w/18dBi antenna)	12+ km(w/18dBi antenna)

The easy-to-use SNMP management utility include a built-in file transfer function to make antenna alignment simple.

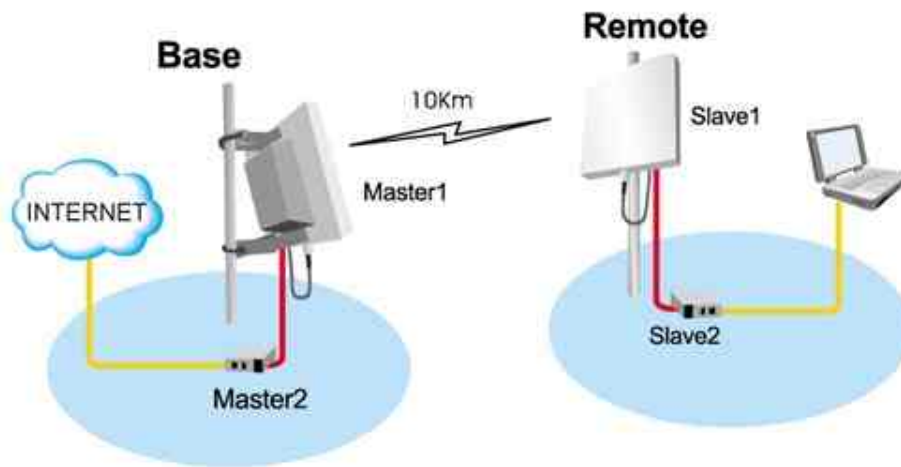
Data security is protected by the WEP, MAC access control and 802.1x functions.



### Point-to-point Mode

Bridges in point-to-point mode connect two networks in different locations through a single wireless link. This allows two widely separated sites to share resources, including a single high-speed connection to the Internet.

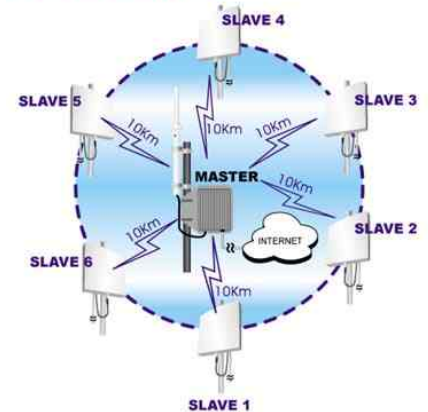
#### Point to Point



### Point-to-Multipoint Mode

Bridges in point-to-multipoint mode connect three or more networks in scattered buildings through wireless links. This allows numerous sites in a wide area to share resources, including a single high-speed connection to the Internet.

#### Point to Multi-Point



The AP model allows the WISP, Hotel, Resort, or Campus to provide internet access over wide area wirelessly. The bridge models are for wireless building-to-building network application. It delivers higher transmission rates than an E1 or T1 line, and eliminates the inconvenience of installing expensive leased line or fiber-optic cable. All models can change firmware to operate in AP, Bridge or Client mode.





## Specification

### Standard

- IEEE 802.11b Compliant

### Superior Coverage

- Advanced radio technology provides outstanding performance at distances over 30 km (18 miles). (Maximum distance depends on choice of antenna.)
- Superior receiver sensitivity enhances pickup of weak data signals over greater distances.
- Rugged design proven in outdoor installations in locations affected by wind, rain, and snow.

### Remote Configuration

- Allows administrators to manage the bridge from anywhere on the network.
- DHCP client support: automatically obtains a new IP address from a DHCP server.
- Bulk configuration: automatically propagates configuration settings to multiple bridges on the same subnet.

### Security

- WEP (Wired Equivalent Privacy): 64- and 128-bit
- SNMP access control: SNMP authentication prevents tampering with bridge settings.

### Antenna

- The Bridge/AP utility performs intelligent antenna alignment monitoring for quick, convenient, and accurate alignment.

### Management

- Full-featured Windows-based SNMP software included
- Auto IP address assignment - automatically assign itself a new IP address should the DHCP server fail.
- Bridge discovery - allows quick location of all OvisLink bridges for centralized management.
- Protocol filtering: saves bandwidth and increases security by preventing the bridge from transmitting specified protocols from the wired Ethernet LAN into the wireless zone.
- Trap server: with auto-notification, network administrators can easily monitor operating conditions and take preventive action to ensure maximum network uptime.

### Outdoor Protection

- The Outdoor Protection Package allows the bridge to be located outdoors, where it may be subjected to wind, rain, and snow.

### Power Over Ethernet

- PoE reduces power-cable installation expenses and increases location options by carrying both data and power to the bridge through a single Ethernet cable.

### Transmission Power

- WHB/WHP-1100 (20dBm)

### Transmission Rates

- 11, 5.5, 2, and 1 Mbps, with auto fallback
- Direct Sequence Spread Spectrum (DSSS) Frequency Band, 2.4 GHz

### Transmitter Characteristics

- Frequency stability: within 25 ppm

### Receiver Sensitivity

- WHB/WHP-1100: -83dBm

### Software Support

- SNMP-based network management tools for Microsoft Windows included
- MIB I and MIB II support, bridge discovery, protocol filtering, trap management, firmware upgrades.

### Environmental Requirements

- Operating Temperature: -20o to 70oC  
Storage Temperature: -30o to 80oC  
Humidity: 5% to 95%, non-condensing

### Dimensions & Weight

- WHB/WHP1100: 165 X135 X55 mm (1.13kg)

### Power

- Input voltage 12VDC; external power supply included (input voltage 100V to 240VAC)

### Regulatory Approval

- FCC, CE, Japan, Telec (1100 and 1120 series)

### Operating Environments

- Windows 98, Me, NT 4.0 (SP4 or above), 2000, XP

## Ordering Information

**AirLive WHB-1100**  
**AirLive WHP-1100**

20dBm Outdoor Bridge  
20dBm Outdoor AP