# DIRECTIONAL/BI-DIRECTIONAL ANTENNAS

## *Reliability Without the Expense…*

Reliable coverage is always a priority in streamlining the effectiveness of wireless devices. This is especially crucial in commercial, office, campus and residential environments that strive to cover a multitude of users in an open space or long corridor.

Centurion's Whisper directional and Terrace bi-directional antennas offer an affordable option for in-building antenna systems. Our innovative designs blend into any atmosphere and provide excellent coverage in high traffic areas.

**FEATURES & OPTIONS:**

**WHISPER - Directional Antenna**

- Self contained in a durable sleek radome, the Whisper is designed to blend in anywhere - residential, campus or commercial
- Inexpensive yet reliable, the Whisper utilizes Centurion's patented technology to achieve maximum efficiency.
- Typical applications include wireless local loop, in-building wireless (voice and data), WLAN, DECT, WPBX, and broadband Internet access.

**TERRACE - Bi-directional Antenna**

- Utilizes a patented low-profile design to provide coverage in corridors or long hallways
- Provides outstanding performance in healthcare and office environments, where a long hallway presents a design or coverage challenge

Antennas

# In-Building

## DIRECTIONAL/BI-DIRECTIONAL ANTENNAS

## SPECIFICATIONS:

General specifications for In-Building Directional and Bi-Directional Antennas:

| | |
|---|---|
| **ELEMENT TYPE** | Air-Loaded Patch |
| **FREQUENCY RANGE** | 806-2500 MHz |
| **PEAK GAIN** | 5.0-9.0 dBi |
| **POLARIZATION[1]** | Linear |
| **IMPEDANCE** | 50 ohms |
| **MAXIMUM INPUT POWER** | 50 watts |
| **FRONT/BACK RATIO** | 18-20 dBi |
| **VSWR (MIN. PERFORMANCE)** | 1.5:1-2.0:1 |
| **RADOME MATERIAL (INDOOR)** | ABS or Luran |
| **RADOME MATERIAL (OUTDOOR)** | Kydex[2] or Luran[2] |

All centurion products are designed for maximum efficiency and are customizable and scalable to meet your frequency and application requirements.

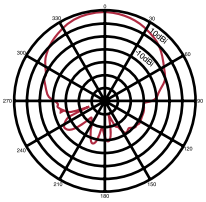
**[1] Polarization axis is parallel to the cable axis, or along the long axis of the antenna for models without cable pigtails.**

**[2] UV tolerance rated to 7 years of outdoor exposure.**

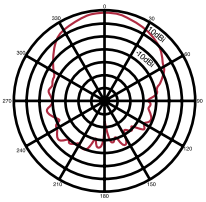
## PATTERNS:

As displayed in these typical patterns, In-Building Directional and Bi-Directional antennas offer superior high-gain reception over a broad area.

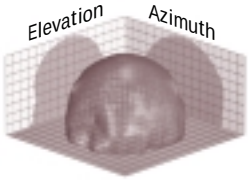
### TYPICAL WHISPER ANTENNA PATTERNS



**AZIMUTH PLANE**
**cut perpendicular to the antenna and perpendicular to the cable**

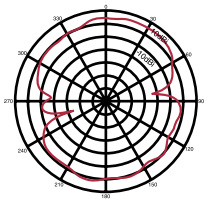


**ELEVATION PLANE**
**cut perpendicular to the antenna along the cable axis**

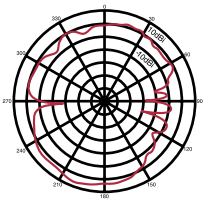



**OMNI PLANE**
**Spherical Projection**

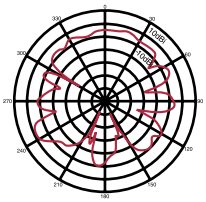
### TYPICAL TERRACE ANTENNA PATTERNS



**AZIMUTH PLANE**
**cut perpendicular to the antenna and perpendicular to the cable**



**ELEVATION PLANE**
**cut perpendicular to the antenna along the cable axis**



**OMNI PLANE**
**cut perpendicular to the antenna along the cable axis**

Specifications subject to change without notice

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