

Xbeam A

BARTEC PIXAVI

EX Certified Wireless LAN Antenna



802.11a bgn



II 2G EEx e II T6

ATEX approved RF antenna



The Xbeam EX is an ATEX approved rf antenna for creating wireless networks and wireless telemetry systems in hazardous area. The antenna is optimized for use in steel and concrete structure environments where multipath effects and reflections are present. The antenna can be utilized in wlan, wifi, bluetooth, zigbee and other 2.4ghz and 5 ghz applications.

The Xbeam EX is a preferred solution where the access point can be placed in safe zone or safe area and where cable length does not exceed 30 meters. For cable stretches above 30 meters, or for lossless coverage we recommend our EX-AP-A or Xpoint series of access points.

Antenna certification and special conditions:

- ATEX certificate No.: Presafe 14ATEX4900X
- IECEx certificate No.: PRE 14.0016X

The antenna must be mounted on the belonging bracket and the bracket has to be connected to earth. The antenna is constructed with permanently connected unterminated cable that must be properly protected and the connection must be carried out in an appropriate certified "Ex e" or "Ex d" enclosure or in safe area.

Additional clamping of cable shall be installed to ensure that pulling and twisting is not transmitted to the terminations inside the antenna.



Technical specifications

| | |
|------------------------------------|--------------------------------------|
| Compatibility..... | 802.11b+g+a+n and bluetooth |
| Frequency..... | 2.4 and 5 GHz |
| Gain..... | 2 dBi |
| Polarization..... | Vertical |
| Vertical beam width..... | 80° |
| Horizontal beam width..... | 360° |
| Impedance..... | 50 Ohm |
| Max input voltage (amplitude)..... | 15v (EX limitation) |
| Max input power:..... | 2 Watts (EX limitation) |
| VSWR..... | < 1.5:1 avg. |
| Weight..... | 0.21 lbs. (100g) |
| Length..... | 5 in. (125 mm) |
| Radome material..... | EX certified plastic material |
| Wind survival..... | >150 MPH |
| Operating temperature..... | -20° C to to 60° C (-4° F to 185° F) |
| Mounting method..... | Wall/mast adapter |

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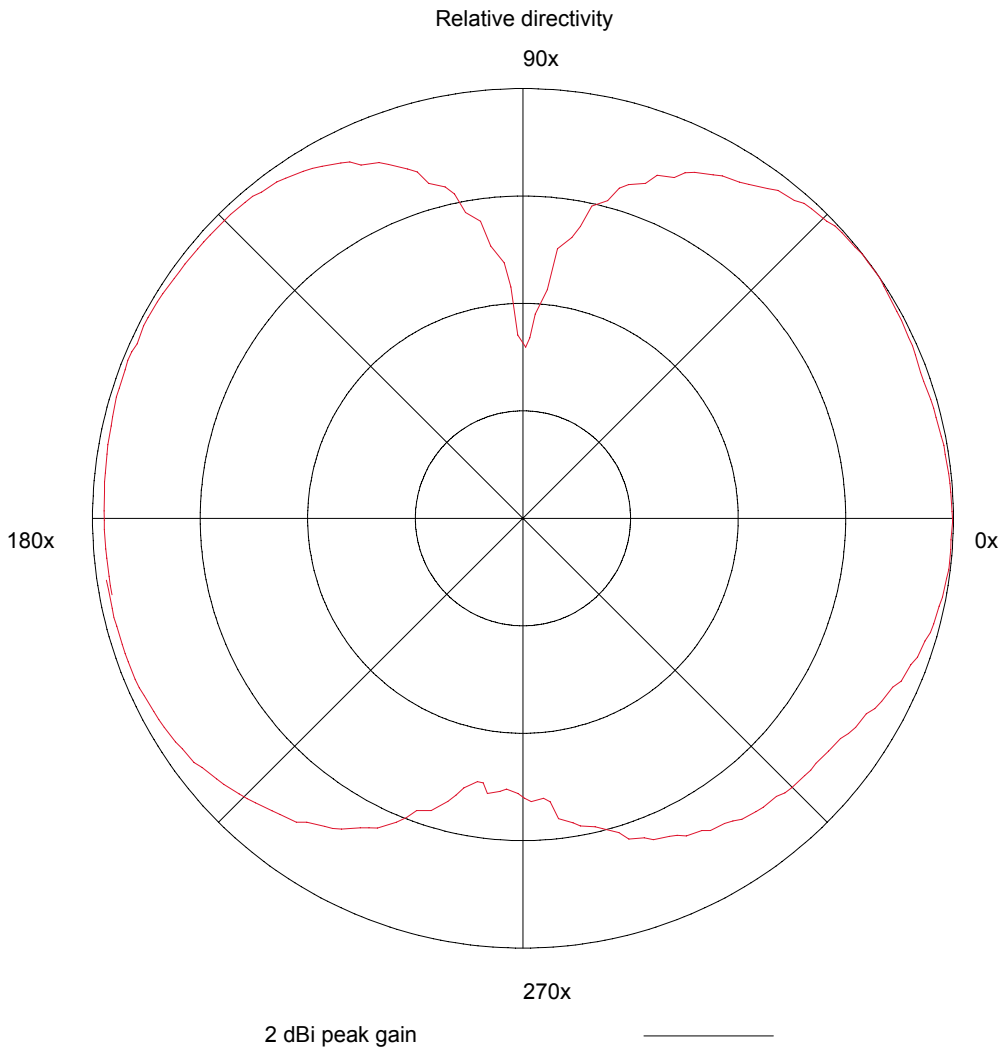
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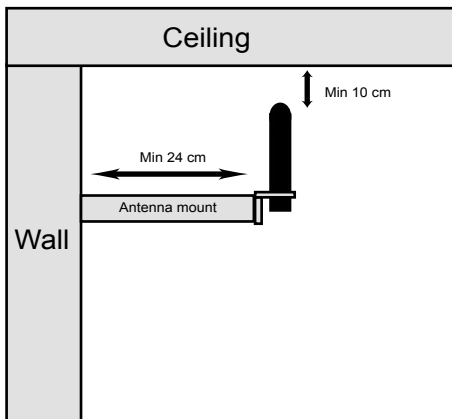
email: sales@pixavi.com

fax: +47 387 06 021

Radiation pattern



Installation Guide



Checklist for Antenna / Wi-Fi Network Installation

1. Choose the shortest cable length possible
2. Place antennas visible from several angles (corners etc)
3. Generally place the antenna as high on the wall as possible (10 cm clearance to ceiling)
4. Leave two wavelengths (24 cm) between wall and antenna.
5. Don't hide the antenna behind obstacles
6. Don't place the antenna horizontally
7. Angle the antenna slightly downward when placed above ceiling height (check pattern)
8. Use a site survey tool to determine coverage. (Netstumbler etc)
9. Check for Wi-Fi channel interference (using Netstumbler etc)
10. We recommend max 30 meters antenna cable for unamplified configuration and maximum 50 meters cable for amplified configurations.