

# Xbeam A

EX Certified Wireless LAN Antenna

# PIXAVI

**WiFi**® 802.11abg



II 2G EEx e II T6



## ATEX approved rf antenna

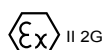
The Xbeam EX is an ATEX approved rf antenna for creating wireless networks and wireless telemetry systems in hazardous area. The antenna is optimized for use in steel and concrete structure environments where multipath effects and reflections are present. The antenna can be utilized in wlan, wifi, bluetooth,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

The antenna features increased safety (EX-e) protection technology which means that it does not put specific requirements on protection circuitry on the radio side.

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.



## Technical specifications



II 2G

EEx e II T6  
DNV-2004-OSL-ATEX-0365X

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Compatibility.....                 | 802.11b+g+a 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.....         | -40° C to to 60° C (-40° F to 185° F) |
| Mounting method.....               | Wall/mast adapter                     |

**WWW.PIXAVI.COM**

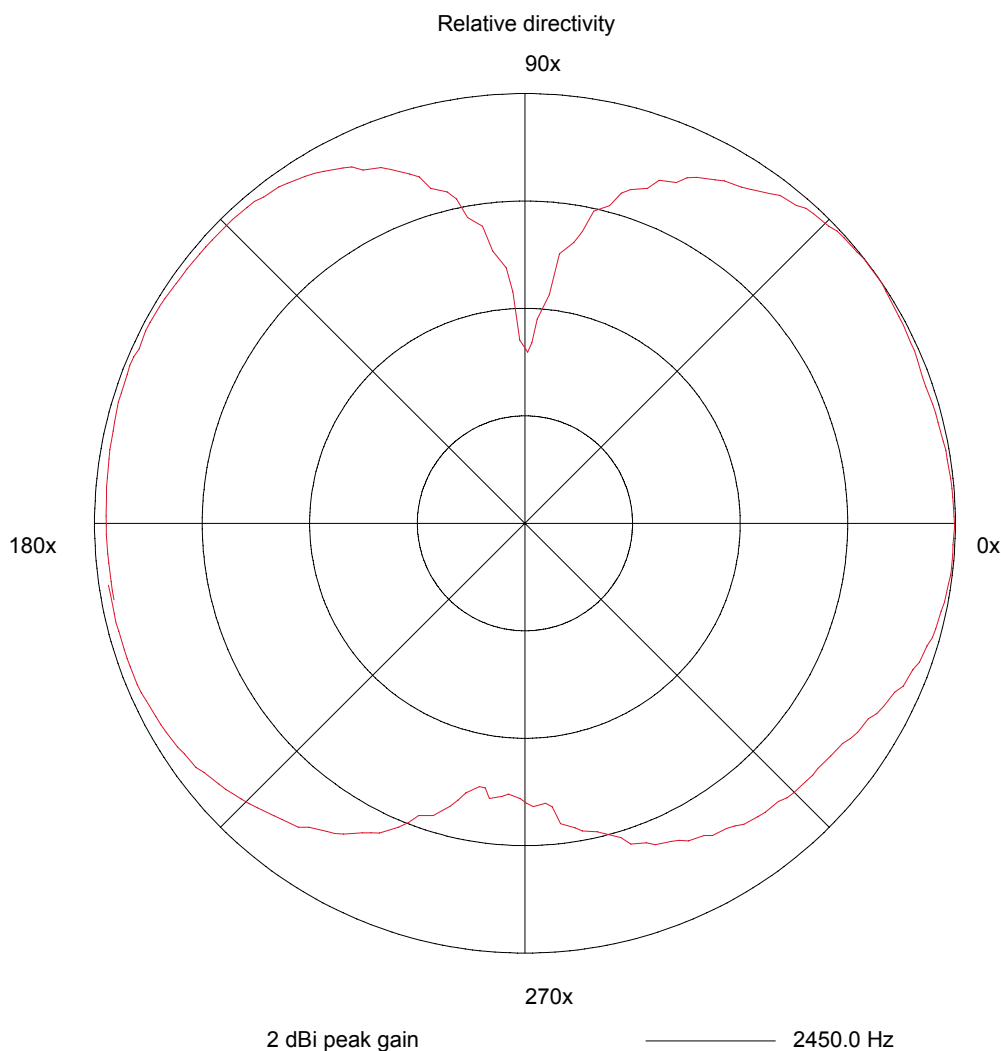
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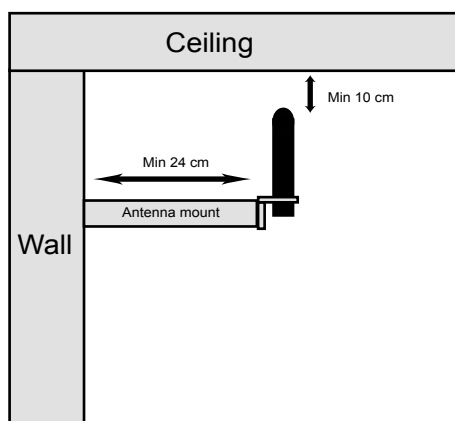
email: [sales@pixavi.com](mailto:sales@pixavi.com)

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## EX-ANT-B 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.

## Ordering information

Included in the standard EX-ANT-B  
EX Antenna  
Mounting bracket  
10 meters low loss EX cable (Xcable E)

Order code: EX-ANT-B-X-Y-Z  
X = Antenna cable length (1-50 meters)  
Y = Connector: 1=RP TNC, 2=N-Type, 3=RP SMA, 4= RP BNC  
Z= Cable type: 1=Xcable D, 2=Xcable E