

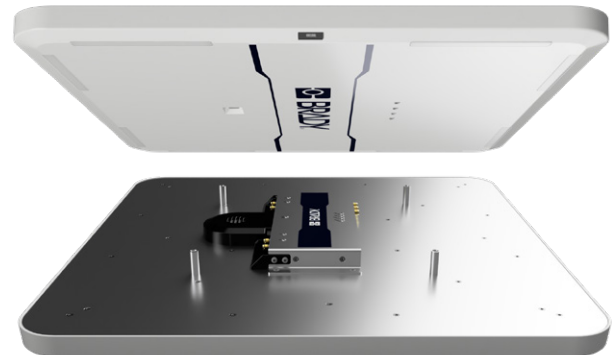
# BRADY BFA

## Advanced beam-forming overhead antenna



BRADY BFA is an advanced beam-forming overhead antenna with 28 software-controlled beams and an integrated movement and direction detection sensor. All the beams can be enabled for the highest RFID reading coverage and accuracy, or only specific beams can be enabled to define a limited area of detection and reduce unwanted readings. BRADY FR22 can be seamlessly connected and mounted on the back.

UHF RFID	
Frequency	ETSI 865.6-867.6 MHz or FCC/IC 902-928 MHz
Antenna Features	Max gain 8dBi
Beam Width	40° / 60°
Beam Forming Features	28 individual beams with dual polarisation
Beam Tilt Angles	0°, ±15°, ±30°, ±45°
Front-to-back Ratio	20 dB
Connector	Brady extension port
SENSORS AND INDICATORS	
Sensor	Time of flight sensor
Device Indicators	Buzzer for sound indications, 8 high visibility LED bars
SIZE AND WEIGHT	
Dimensions	431.00 mm (W) x 21 mm (H) x 431.00 mm (D)
Weight (kg)	0.860 kg
ENVIRONMENT	
Operating Temperature	-20°C - 55°C
Storage Temperature	-40°C - 85°C
Ingress Protection Rating	IP20



Order Ref.	Description
B-BFA-ANT-868	Brady BFA antenna 868
B-BFA-ANT-915	Brady BFA antenna 915
B-FR22-RDR-BFA-US	Brady FR22 + BFA 915 kit US
B-FR22-RDR-BFA-EU	Brady FR22 + BFA 868 kit EU
B-FR22-RDLTE-BFAEU	Brady FR22 LTE + BFA 868 kit EU



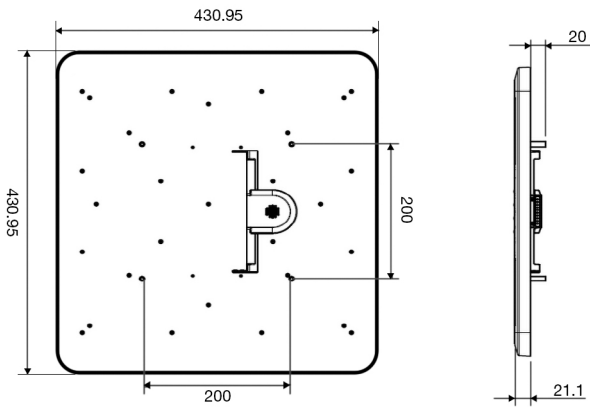
### Product highlights

- 28 software controlled antenna beams to provide multiple coverage shapes for different use cases or environments.
- High read accuracy due to multiple overlapping beams.
- Reliable object direction detection and environment mapping.
- Integrated loud buzzer and high visibility LEDs to provide user indications in track & trace and access control applications.
- VESA standard mounting.

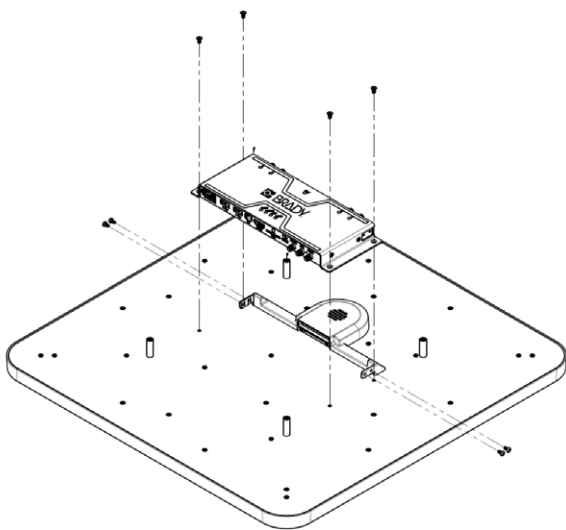
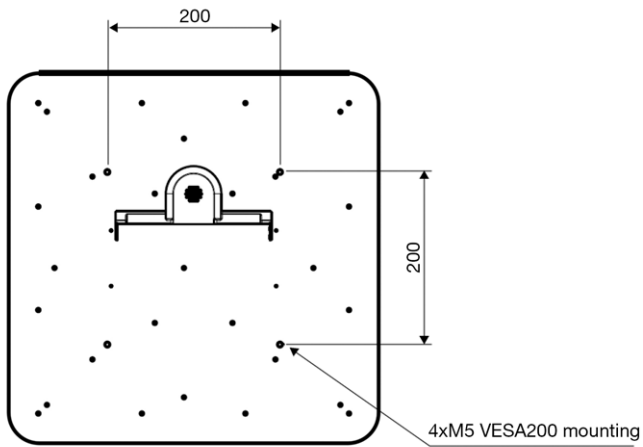
### Suitable application areas

- Real-time inventory
- Track and trace
- Access control
- RFID gates
- Doors and corridors

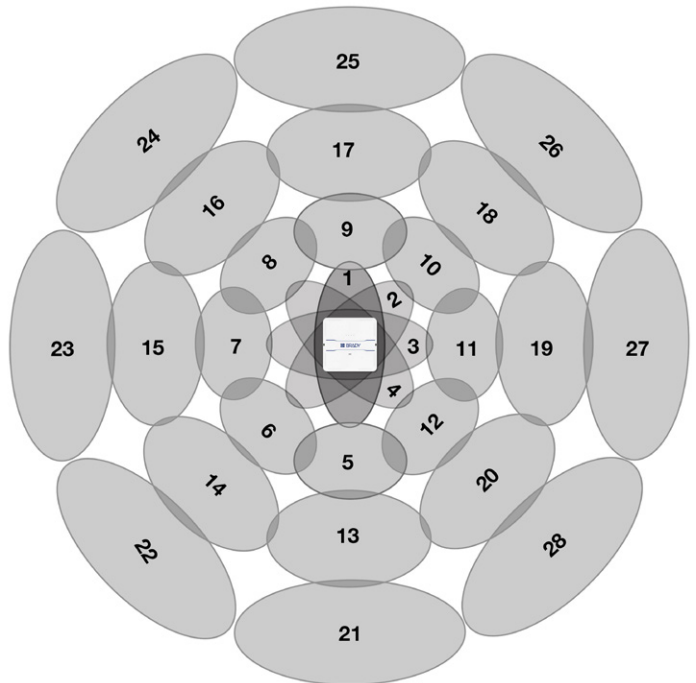
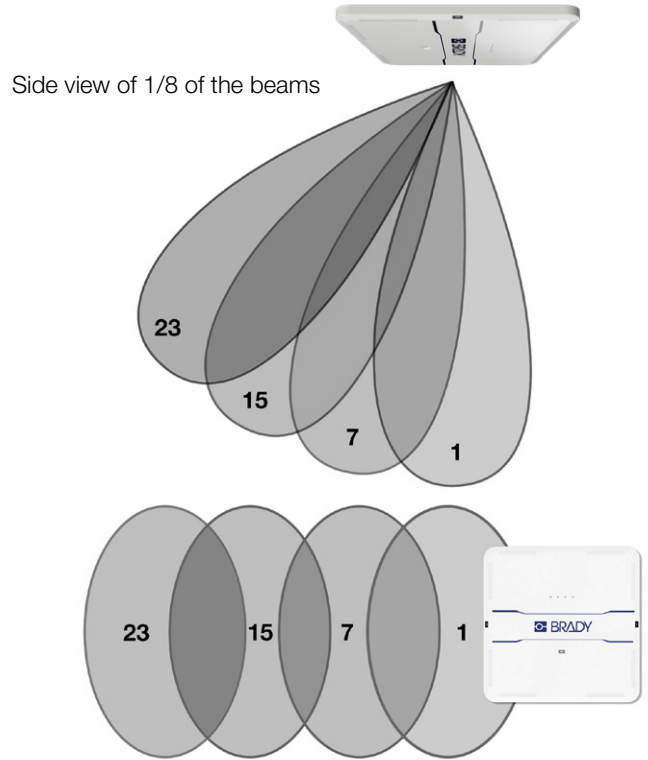
**Antenna dimensions (mm)**



**Mounting (FR22 + VESA fixing)**



**Antenna beams radiation patterns (beams not represented in scale)**



Top view position of the 28 beams (represented coverage is not real, as overlaps among beams is much higher than drawn here)