



## CIRCULAR POLARIZED ANTENNA 8.5 dBic

The DLR-ANT-PR002 circularly polarized antenna is designed for use with the DLR-PR001 UHF RFID long range portal reader. Up to 16 of the DLR-ANT-PR002 antennas can be connected to a single portal reader to create a variety of antenna configurations and system capabilities. This flexibility makes the Datalogic portal reader system ideal for a variety of applications like portals, RFID tunnels, factory automation and access control systems. Circular polarization makes tag reading independent of the relative orientation of the tag to the reader, simplifying installation and improving throughput.

Its rugged enclosure and IP65 sealing make the DLR-ANT-PR002 antenna particularly suited for outdoor applications. The enclosed mounting bracket supports a variety of installation needs.

This antenna is available in two versions to match the radio frequency standards of the European Union and United States: DLR-ANT-PR002-EU and DLR-ANT-PR002-US respectively.



### FEATURES

- EPC Class 1 Gen 2 and ISO 18000-6C compliant
- Circular polarization
- Rugged enclosure
- IP65 sealing
- Easily deployable and scalable

### INDUSTRY-APPLICATIONS

- Portal applications
- In-store automation (smart shelves, smart displays)
- RFID tunnels
- Factory automation
- Access control systems

## CORDLESS COMMUNICATIONS

RADIO FREQUENCY EU: 865 - 868 MHz; DLR-ANT-PR002-EU  
US: 902 - 928 MHz; DLR-ANT-PR002-US

## RFID DECODING CAPABILITY

STANDARDS SUPPORTED EPC Global Class 1 Gen 2 and ISO 18000-6C compliant

## ELECTRICAL

POLARIZATION Right Hand Circularly Polarized (RHCP)  
GAIN 8.5 dBic  
HALF-POWER BEAMWIDTH (3DB) 65° (Elevation); 65° (Azimuth)  
FRONT-TO-BACK RATIO 17 dB  
VSWR 1.1:1  
NOMINAL IMPEDANCE 50 ohm  
POWER EU: 2 W e.i.r.p. (ETSI EN 302 208)  
US: 4 W e.i.r.p (FCC part 15.247)  
5 W (max)

## ENVIRONMENTAL

PARTICULATE AND WATER SEALING IP65  
TEMPERATURE Operating: -30 to 60 °C / -22 to 140 °F  
Storage: -30 to 60 °C / -22 to 140 °F

## PHYSICAL CHARACTERISTICS

DIMENSIONS 27.0 x 27.0 x 7.5 cm / 10.6 x 10.6 x 2.9 in (L x W x D)  
WEIGHT 1.2 kg / 42 oz  
CONNECTOR N-m with 30.0 cm / 11.8 in RG58 cable

## WARRANTY

WARRANTY 1-Year Factory Warranty

### US

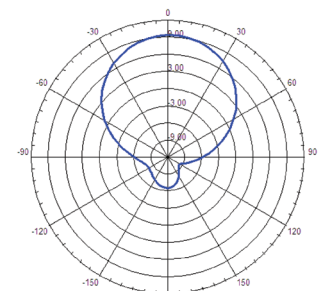
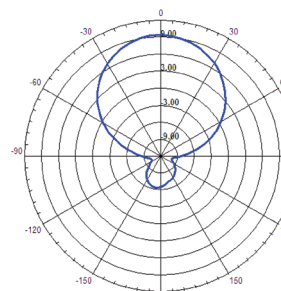
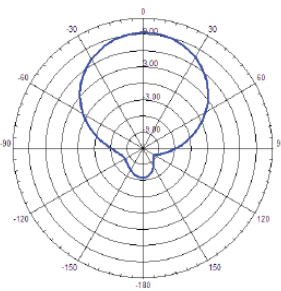
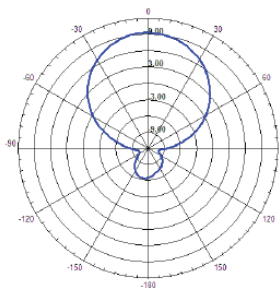
### EU

Total Gain - Azimuth

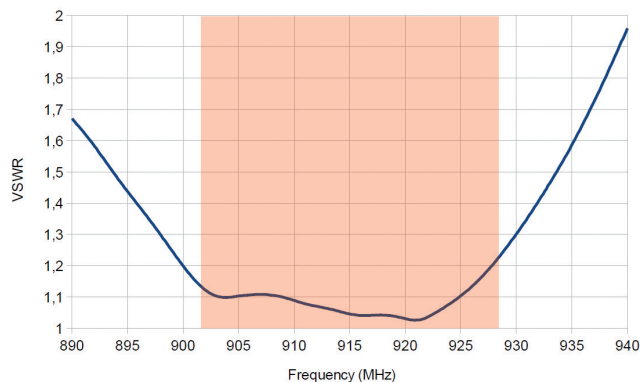
Total Gain - Elevation

Total Gain - Azimuth

Total Gain - Elevation



VSWR vs. Frequency



VSWR vs. Frequency

