



Choke Ring Antenna

DATASHEET

**Optimized for permanent
GNSS antenna installations,
such as CORS**

**Robust low-elevation
satellite tracking**

**Choke Ring for
minimized multipath**

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PRECISE AND DURABLE FOR PERMANENT INSTALLATIONS

The Choke Ring GNSS antenna design is proven around the world to be effective in reducing the strength of most multipath signals. It also provides outstanding low-elevation satellite tracking and excellent phase center stability. The Choke Ring antenna is ideal for permanent installations, such as Continuous Operating Reference Stations (CORS). Combined with rugged durability, the Choke Ring GNSS antenna is a long term investment.

COMPREHENSIVE GNSS SUPPORT

The Choke Ring GNSS antenna offers support for current and near-future GNSS signals including GPS, GLONASS, Galileo, BeiDou, Trimble RTX and SBAS.

- Comprehensive GNSS support, including GPS Modernization signals, GLONASS, BeiDou and Galileo
- Robust low-elevation satellite tracking
- Minimized multipath
- Excellent phase center repeatability
- Pair with the Spectra Geospatial SP90m GNSS receiver in permanent installations, such as CORS setups
- Signal gain (39 dB) for reliable tracking
- 5/8" - 11 mount point

- Broad GNSS Frequency Tracking Band, including:
 - GPS: L1, L2, L5
 - GLONASS: L1, L2, L3
 - Galileo: E1, E2, E5
 - BeiDou: B1, B2
 - SBAS: WAAS, EGNOS, QZSS, Gagan, MSAS, and Trimble RTX
- Quality signal tracking
- N type female signal connector
- 5/8" - 11 female threaded mount point
- Powered by GNSS receiver via coaxial cable
- LNA (low noise amplifier) with 39 dB signal gain for reliable tracking in challenging environments and long cable runs

ENVIRONMENTAL

- Operating Temperature: -55 °C to +85 °C (-67 °F to +185 °F)
- Humidity: 100% humidity proof, fully sealed
- Compliance: RoHS

PHYSICAL

- Choke Ring Dimensions: 37.5 cm diameter x 35.1 cm height (14.75 in diameter x 13.8 in height)
- Weight: 4.54 kg (10 lbs)
- Finish: UV resistant Polyurethane Enamel, white

ELECTRICAL

- Input Voltage: 4.2 V DC to 15 V DC
- Power Handling: 1 W
- Signal Gain: 39 dB



The Choke Ring Antenna can be paired with the Spectra Geospatial SP90m GNSS receiver in permanent installations, such as CORS setups.

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Please visit spectrageospatial.com for the latest product information and to locate your nearest distributor. Specifications and descriptions are subject to change without notice.