



GNSS Antennas
TCA930
3D Choke Ring Antenna

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TOKNAV TCA930 Choke Ring Antenna is a high performance GNSS antenna for base station that covers full frequency satellite signal tracking of GPS, GLONASS, GALILEO, BDS, QZSS, IRNSS and SBAS correction service. The 3D Choke Ring Antenna with strong multipath suppression performance that specifically designed for applications as land and marine surveying, channel surveying, earthquake and landslide monitoring, deformation monitoring, and wharf container operations that require absolute positioning accuracy and multi-constellation support.

SPECIFICATION

SIGNAL TRACKING

| | |
|---------------|-----------------|
| GPS | L1/L2/L5/L-Band |
| GLONASS | L1/L2/L3 |
| GALILEO | E1/E5a/E5b/E6 |
| BDS | B1/B2/B3 |
| QZSS | L1/L2/L5/L6 |
| SBAS | L1/L5 |
| NavIC (IRNSS) | L5 |

LNA

| | |
|----------------------|--|
| Nominal Impedance | 50Ω |
| Polarization | RHCP |
| Axial Ratio | ≤2dB |
| Gain at Zenith (90°) | 1164-1300MHz 7.0dBi(maximum) 1525-1615MHz 6.5dBi(maximum) |
| LNA Gain | 50dB(typical) |
| Noise Figure | ≤2dB |
| Output/Input VSWR | ≤2.0 |

Operation Voltage +3.3VDC to +12VDC

Operation Current 60mA(maximum)

Group Delay Ripple < 5ns

PHYSICAL

Dimensions φ379mm*312mm

Connector TNC female

Weight ≤10.5kg

Mounting BSW5/8"-11 screw, depth ≥22mm

ENVIRONMENTAL

Temperature Operating -40°C to +85°C
Storage -55°C to +85°C

Humidity 95% non-condensing

Protection IP67

Regulatory Compliance NGS, CE, FCC, RoHS

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Manufacturers may update parameters at any time, please refer to the latest product information.



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