ANTENNA SERIES

KEY FEATURES

- ***Hi-performance geodetic GPS/GNSS antenna***
- ***Cost-effective and reliable performances***
- ***5/8" threading for mounting on pole, pillars or tribrach***
- ***Sub-centimeter phase center repeatability***
- ***Compatible with CHC and 3rd party GIS and survey GPS/GNSS receivers***

The CHC GNSS antenna series provides a cost-effective solution to demanding positioning applications such as geodetic reference station, marine survey, dredging or GIS and mapping when high performances and reliability are required.

A110G
L1 GPS

The A110G is designed to complement the CHC LT series for precision GIS and mapping applications.

A220GR
L1/L2 GPS + GLONASS

The A220GR is a rugged GNSS antenna available for CHC N GNSS Sensors series.

C220GR
L1/L2 GPS + GLONASS

The C220GR is a high performance GNSS choke ring antenna optimized for reference station applications.

Technical Specifications

Feature	A110G	A220GR	C220GR
Antenna type	Geodetic	Geodetic	Choke Ring
Frequency	GPS L1 SBAS	GPS L1 + L2 GLONASS L1 + L2 SBAS	GPS L1 + L2 GLONASS L1 + L2 SBAS
LNA Gain	27 dB ± 2 dB	40 dB	50 dB
LNA Voltage	3 - 15 VDC	3 - 18 VDC	3 - 18 VDC
LNA Current	≤ 25 mA	≤ 45 mA	≤ 50 mA
Polarization	Right Hand Circular	Right Hand Circular	Right Hand Circular
Axial Ratio	≤ 5dB	≤ 3 dB	≤ 3 dB
Phase center accuracy	± 2 mm	± 2 mm	± 1 mm
Impedance	50 Ohms	50 Ohms	50 Ohms
VSWR	≤ 1.5	≤ 2.0	≤ 2.0
Noise	≤ 2 dB	≤ 2 dB	≤ 2 dB
Dimension (DxH)	140 x 58 mm (5.5 x 2.3 in)	147 x 62 mm (5.8 x 2.4 in)	322 x 261 mm (12.7 x 10.3 in)
Weight	280 g (9.9 oz)	400 g (14.1 oz)	4.9 kg (173 oz)
RF Connector	TNC	TNC	TNC
Operating temperature	-40°C to +85°C (-40°F to 185°F)	--40°C to +85°C (-40°F to 185°F)	-40°C to +85°C (-40°F to 185°F)
Threading	5/8”	5/8”	5/8”
Construction			Copper alloy

iGage Mapping Corporation
1545 South 1100 East STE 1
Salt Lake City UT 84105
801-412-0011
www.x9gps.com