

# Antenna

## GNSS Infrastructure

- High-performance geodetic GNSS antenna
- Cost-effective and reliable performance
- 5"/8" threading for mounting on pole, pillars or tribrach
- Sub-centimeter phase center repeatability
- Compatible with CHC and third-party GIS/GNSS receivers



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

### **A220GR** GPS + GLONASS + BDS + Galileo

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



### **C220GR2** GPS + GLONASS + BDS + Galileo

The C220GR2 is a high performance GNSS choke ring antenna optimized for reference station applications.



# ■ Technical Specifications

Feature	A220GR	C220GR2
Antenna Type	Geodetic	Choke Ring (Radome)
Frequency	GPS L1, L2	GPS L1, L2, L5
	GLONASS L1, L2	GLONASS L1, L2, L3
	BDS B1, B2	BDS B1, B2, B3
	Galileo E1, E5	Galileo E1, E5AltBOC, E5A, E5B, E6
	SBAS WAAS, EGNOS, QZSS, GAGAN, MSAS	SBAS WAAS, EGNOS, QZSS, GAGAN, MSAS
LNA Gain	40 dB	50 dB
LNA Voltage	3 V DC to 18 V DC	3 V DC to 18 V DC
LNA Current	≤ 45 mA	≤ 50 mA
Polarization	Right Hand Circular	Right Hand Circular
Axial Ratio	≤ 3 dB	≤ 3 dB
Phase Center Accuracy	± 2 mm	± 1 mm
Impedance	50 Ohms	50 Ohms
VSWR	≤ 2.0	≤ 2.0
Noise	≤ 2 dB	≤ 2 dB
Dimension (D x H)	147 mm x 62 mm (5.8 in x 2.4 in)	322 mm x 261 mm (12.7 in x 10.3 in)
Weight	400 g (14.1 oz)	4.9 kg (173 oz)
RF Connector	TNC	TNC
Operating temperature	-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"
Construction	None	Copper alloy
Antenna Calibration	None	IGS
Vibration	MIL-STD-810G, Method 514.7	MIL-STD-810G, Method 514.7

Specifications are subject to change without notice.

**AUTHORIZED DISTRIBUTOR :**



HEAD OFFICE & SHOWROOM :  
 Jl.Selaparang Blok B-15 Kav.9 Kompleks Kemayoran Jakarta Pusat 10610  
 • Telp.(021) 6544515 • Fax.(021) 6544811-13 • SMS : 0812 118 1008  
 • Email : info@datascrip.co.id • Website : www.datascrip.com

© 2018 Shanghai Huace Navigation Technology Ltd. All rights reserved. The Bluetooth® world mark and logos are owned by Bluetooth SIG, Inc. The CHC and CHC logo are trademarks of Shanghai Huace Navigation Technology Limited. All other trademarks are the property of their respective owners – Rev. Apr 2018

CHC - Shanghai Huace Navigation Technology Ltd.  
 599 Gaojing Road, Building D  
 Shanghai, 201702, China  
 Tel : +86 21 542 60 273