Standard Configuration

1pc

1pc

1pc

1pc

1pc

1pc

Equipment list

- Choke-ring antenna
- Fixing parts for choke ring antenna ♦ Transfer cable for choke-ring antenna (30m)
- ♦ A200 Server
- Surge-protected socket
- UPS battery (Supply by local market) 1pc
- ◆ Controller for UPS battery (1KVA, 1pc Supply by local market)
- Lightning protection equipment (Supply by local market) 1pc
- Server software









Server

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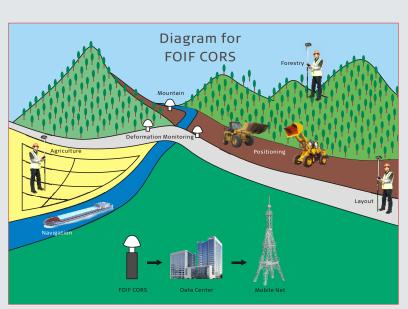
UPS battery (Supply by local market)

Specifications for A200 CORS

Specificati		
Trimble		
220 channels, GPS/G		
GPS: L1 C/A $\scriptstyle{\searrow}$ L2E $\scriptstyle{\searrow}$ L		
GLONASS: L1 C/A $_{\rm L}$ L		
SBAS: L1 C/A、L5		
GIOVE-A: L1BOC,E5A		
GIOVE-B: L1CBOC,E5		
GALILEO: reserved for		
Format: CMR、CMR+		
<10 sec		
>99 .9		

Application field

- Big construction project which need high precision position.
- Advanced RTK distribution method for offering efficient and quick real-time data at the range of 50km.
- Real time deformation monitoring for the bridges, highdams etc.
- Real time disaster monitoring for earthquake, landslide, etc.
- Education in the colleges which have survey subjects.
- Other industry which depend on the high precision positioning GNSS.
- Land management and city planning.





	Contents		Specifications
A DE LI D D D A RTK		within 20km	H: ±10mm+1×10 ⁻⁶ ⋅ D
	WILIIII ZOKIII	V: ±20mm+1×10 ⁻⁶ • D	
	20km-45km	H: ±30mm+1×10 ⁻⁶ • D	
		V: ±50mm+1×10 ⁻⁶ ⋅ D	
	45km-90km	≤1m 3D	
	Static collection	H: ±3mm+1×10 ⁻⁶ ⋅ D	
		V: ±6mm+1×10 ⁻⁶ ⋅ D	
		Navigation (RTD)	≤1m 3D

Illustrations, descriptions and technical specifications are not binding and may change



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A200 GNSS CORS

To create Value for customers



ons for A200 CORS BD970 Novatel OEMV-2 GLONASS 54 channels, GPS/GLONASS $L2C_{1}L5$ GPS: 14L1、14L2 L1P、L2 C/A、L2P GLONASS: 12L1、12L2 2SBAS A,E5B,E5AltBOC1 5A,E5B,E5AltBOC1 for upgrading RTCM2.x、3.x CMR、CMR+、RTCM2.x、3.x econds <10 seconds 9% >99.9%







CORS

Summary

With the develop of computer information technology and related technology, Based on GNSS reference net and data center, CORS (Continuously Operating Reference Station) with its high precision positioning service and other related integrated service, becomes the continuously operating satellite positioning integrated system.

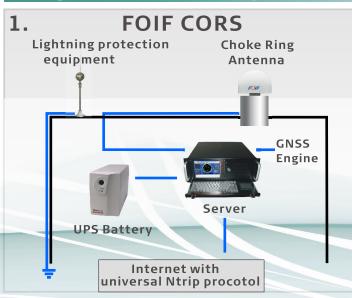
Equipped with industry standard GNSS engine (Trimble, Novatel, Javad...) supports improved performance on the high precision position jobs and related infrastructure constructions. At beginning, CORS definated as permanent

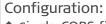
satellite reference station. But now, it is not only a reference station, but also a system integrated by many reference station.

Advantages

- Integrated Terminal Sever
- The Terminal Server used automatic controlling platform with 4U industry standard.
- + High precision, stable choke ring antenna.
- Excellent GNSS signal applied by the special cable and high -strength protected shield.
- Setting up on fixed place , easy for your positioning.
- RTCM, CMR, CMR+ etc, are all available.
- UPS battery ensure the system working without any stop.
- Control the situation of system operation by real time checking reference and customers information.
- Compatible with other brands GNSS products.
- Multi-reference is possible by combining the existed CORS.
- Wireless signal transmitting is optional

Configuration and related specifications

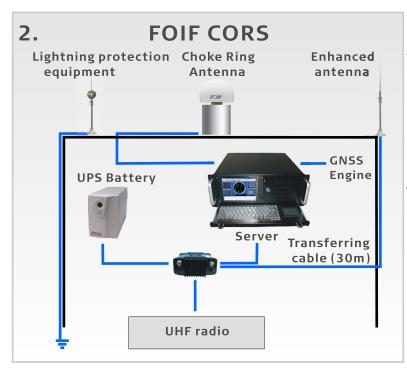




Single CORS fixed at special position with one professional choke ring antenna, one set Integrated Terminal Server, one set professional CORS data sever software. Operating:

Mobile Net

- ◆ FOIFNET: The difference data transfer to CORS server through GPRS or CDMA. The rover could get these difference data through CORS sever by GPRS or CDMA. Then you could start working by high precision fix solution.
- ◆ NETRTK:The CORS antenna transfer the satellites' signal to server. Then difference data would be calculated by the server. The rovers register the CORS server by mobile net and get the user names and passwords then start working by high precision fix solution.



High precision choke-ring antenna

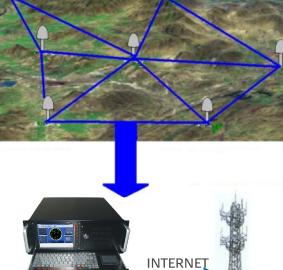


Specifications: Freq.: 1565-1620 MHz(L1) 1215-1265 MHz(L2) Resistance: 50 Ω VSWR: ≤1.5:1 Gain (LAN L1): 38±3dB Gain (LAN L2): 39 ± 3 dB Noise: ≤1.5dB Polarization: right-hand circular

Professional battery (Supply by local market)



Specifications: Output voltage: 220V Freq. in output voltage : $50\pm0.2\%$ Volumn:1KVA Converting time: 0ms



CORS Server

Configuration:

• Single CORS fixed at special position with one professional choke ring antenna, one set Integrated Terminal Server, one transfer cable and one set professional CORS data server software.

Operating:

◆ The satellites' signal is receiver by CORS server. The difference data will emitted through the radio. The rovers could start working by high precision fix solution.

- polarization
- Operating voltage: 3-12VDC Operating electric current: \leq 40mA Connector: TNC Weight: ≤5.2kg Hunidity: 100% Operating temperature: -45°C~+65°C Storage temperature: -55°C~+85°C

Integrated CORS server



Configuration:

Cabinet: stainless steel, high temprature proof Keyboard: matched with sever, comfortable for using Mouse: touchpad for mouse Front ports: 2USB Light: 1POWER, 1HDD Cooling system: lower noise, dirty proof, moistureproof Mainboard: universal ATX CPU: high speed Battery: UPS (ATX is optional) Size: 482.6 imes 354.8 imes 451.5 mm

Software: FOIF-Caster

1.Name: FOIF-Caster 2.System&Advantages System:Linux Advantages: Opening&Stable operating system Strong anti-virus function Unlimited amount of resource 3.Multi-base is supported, several rovers accessing this system together is possible; 4.Easy to use without any professional knowledge; 5.Ntrip for its protocol, RTK receivers of other brands are all compatible in this CORS system.

Environmental specifications:

Operating temperature: -10[°]C~+50[°]C Storage temperature: -20°C~+60°C Humidity: 10~95% Vibration: 50~500Hz, 1.5G

LCD:

Type: SVGA TFT LCD(8.4 inch) Resolution: 800×600 dpi Displayed area: 170.4 ×127.8mm Back light: LED Illumination: 350cd/m² Contrast: 350: 1 Max angle: (H) 120/ (V) 100



♦ Average source transfer: 1M

FOIF-Caster

Freg. in input voltage : 40-60 Size:400x145x220mm Weight: 7kg

Input voltage: 115-300V