

Standard Configuration

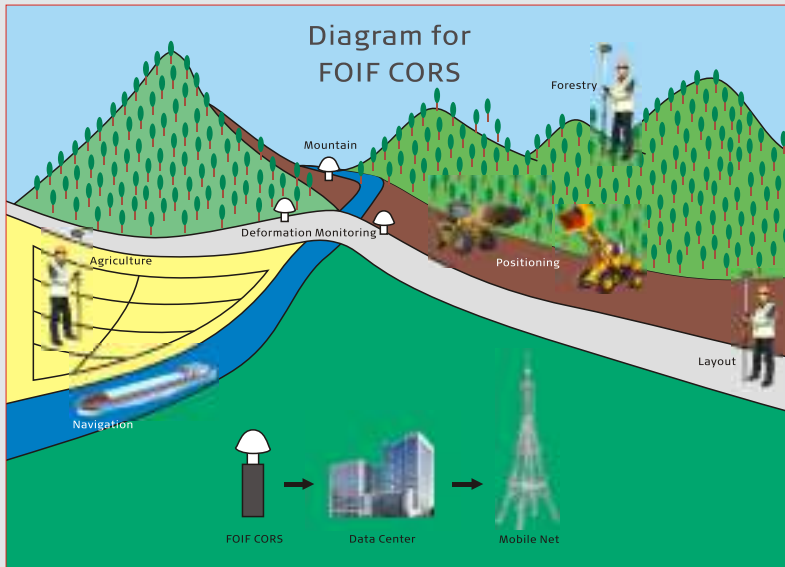
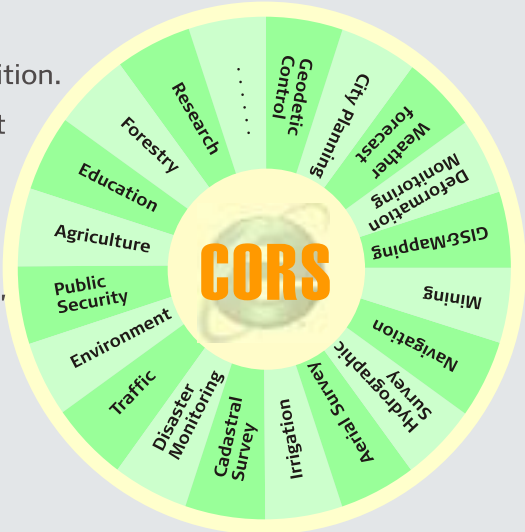
Equipment list

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



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.



Specifications for A200 CORS

Specifications for A200 CORS		
GNSS Engine	Trimble BD970	Novatel OEMV-2
	220 channels, GPS/GLONASS	54 channels, GPS/GLONASS
	GPS: L1 C/A, L2E, L2C, L5	GPS: 14L1, 14L2
	GLONASS: L1 C/A, L1P, L2 C/A, L2P	GLONASS: 12L1, 12L2
	SBAS: L1 C/A, L5	2SBAS
	GIOVE-A: L1BOC,E5A,E5B,E5AltBOC1	
	GIOVE-B: L1CBOC,E5A,E5B,E5AltBOC1	
Time of initialization	Format: CMR, CMR+, RTCM2.x, 3.x	
	CMR, CMR+, RTCM2.x, 3.x	
Reliability of initialization	>99 .9%	>99 .9%

Contents		Specifications
Accuracy	RTK	within 20km
		20km-45km
		45km-90km
	Static collection	
	Navigation (RTD)	

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

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It's professional

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Local Dealer:



A200 GNSS CORS

To create **Value** for customers



A200(E) 2010.09

CORS

Summary

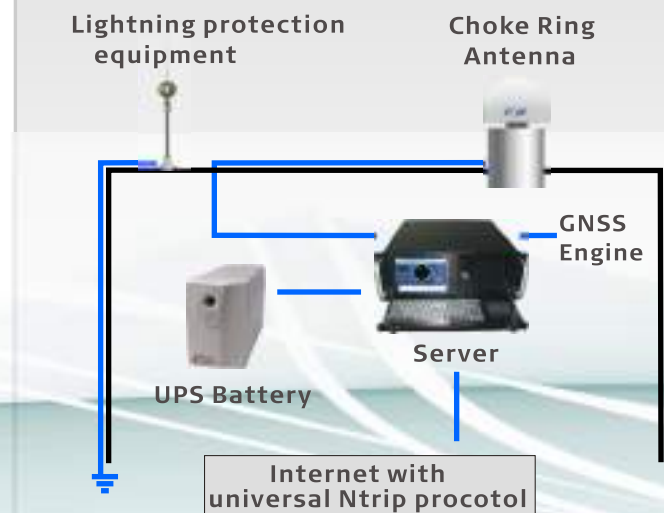
With the develop of computer information technology and related technology, Based on GNSS reference net and data center, CORS (Continuously Operating Reference Station) with its high precision positioning service and other related integrated service, becomes the continuously operating satellite positioning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

1. FOIF CORS

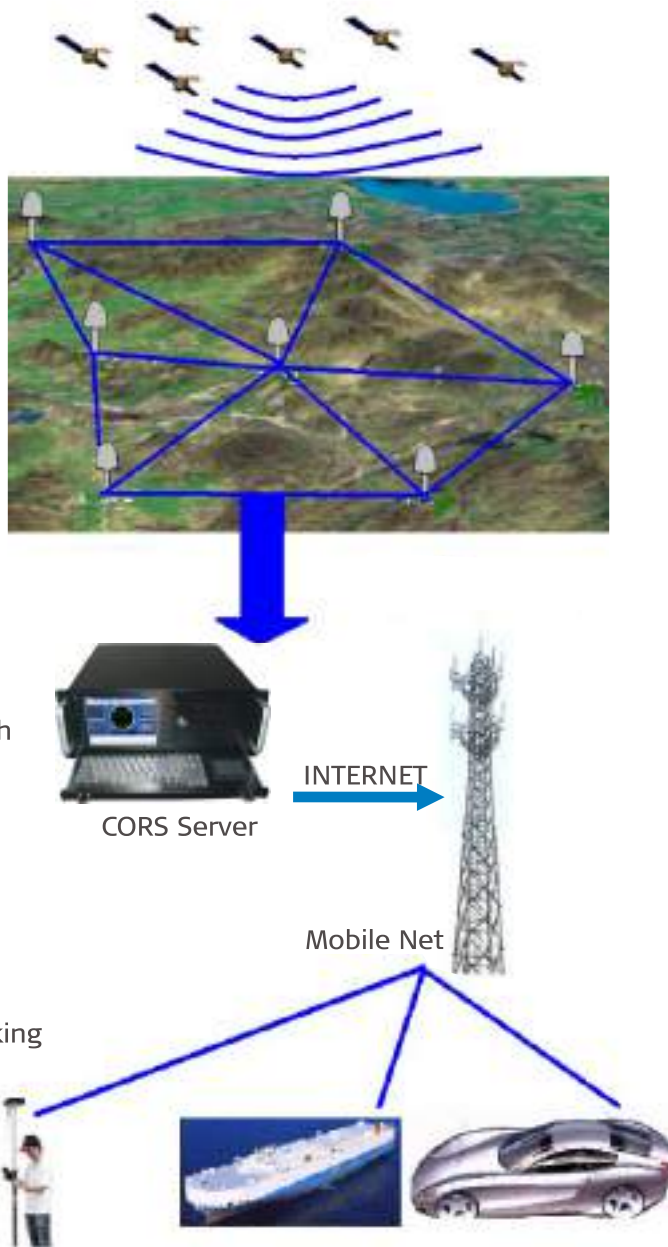


Configuration:

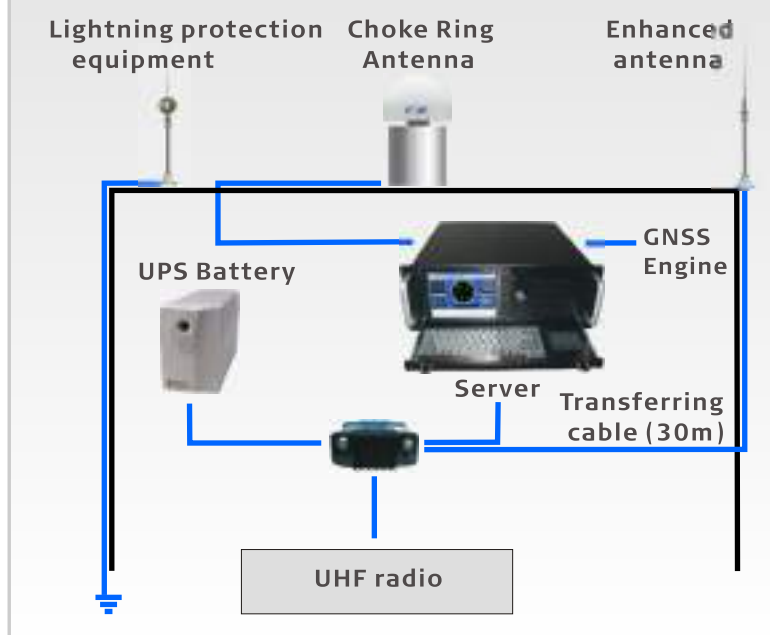
- ◆ Single CORS fixed at special position with one professional choke ring antenna, one set Integrated Terminal Server, one set professional CORS data sever software.

Operating:

- ◆ 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.



2. FOIF CORS



High precision choke-ring antenna

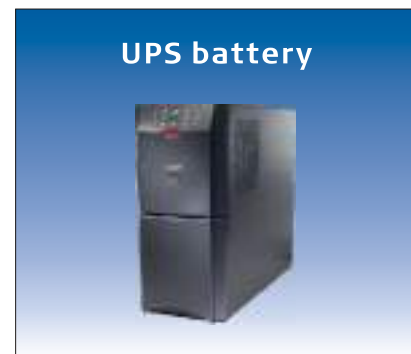


Specifications:

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

Operating voltage: 3-12VDC
Operating electric current: ≤ 40 mA
Connector: TNC
Weight: ≤ 5.2 kg
Humidity: 100%
Operating temperature: -45 $^{\circ}$ C~+65 $^{\circ}$ C
Storage temperature: -55 $^{\circ}$ C~+85 $^{\circ}$ C

Professional battery (Supply by local market)



Specifications:

Output voltage: 220V
Freq. in
output voltage : 50 $\pm$ 0.2%
Volumn: 1KVA
Converting time: 0ms

Input voltage: 115-300V
Freq. in
input voltage : 40-60
Size: 400x145x220mm
Weight: 7kg

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 $\times$ 354.8 $\times$ 451.5 mm

Environmental specifications:

Operating temperature: -10 $^{\circ}$ C~+50 $^{\circ}$ C
Storage temperature: -20 $^{\circ}$ C~+60 $^{\circ}$ C
Humidity: 10~95%
Vibration: 50~500Hz, 1.5G

LCD:

Type: SVGA TFT LCD(8.4 inch)
Resolution: 800 $\times$ 600dpi
Displayed area: 170.4 $\times$ 127.8mm
Back light: LED
Illumination: 350cd/m 2
Contrast: 350: 1
Max angle: (H) 120/ (V) 100

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.



FOIF-Caster