

SOUTH MR1

Profesional GNSS deformation instrument

Mr1 instroduction ▶▶▶

This is SOUTH monitoring GNSS instrument. With substantial monitoring project experiences, SOUTH design and manufacture this MR1 receiver for GNSS monitoring project. MR1 combines GNSS antenna, mainboard, network unit, WIFI and bluetooth unit, etc., all these together in one receiver. MR1 is IP68 and 24*7*365 non-stop working design, and its convenient and anti-steal installation accessories can let our client more comfortable at field.



All in one design



Monitoring cloud service



Anti-steal design



IP68



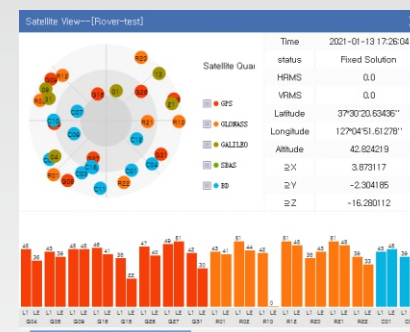
Support multiple communication



Remote control

SOUTH monitoring cloud service ▶▶▶

- Stable and high accuracy GNSS monitoring engine - dual and independent GNSS process algorithms
- Realtime and history data and graphic view, report data export.



- Multiple alarm method settings - email, SMS or other sensors

- SOUTH own software system, support customized requirment



Application ▶▶▶

Mr1 can apply to the deformation monitoring project, with SOUTH MOnitoring System, it can reach millimeter accuracy, all in one design is very suitable for geologic hazard monitoring, dam monitoring, bridge monitoring, building monitoring, slope monitoring etc.



SPECIFICATIONS ▶▶▶

GNSS specification	Channel	1598 channels
	GPS	L1C/A, L2C, L2E, L5
	GLONASS	L1, L2, L3
	GALILEO	E1, E5a, E5b
	BDS	B1I, B3I, B3I, B1C, B2
	Initialise time	Less than 60s
	Reliability	>99.99%
Position accuracy	Static	H: ±2.5mm + 0.5ppm V: ±5mm+0.5mm
	Dynamic	H: ±8mm + 0.5ppm V: ±15mm+0.5mm
Data storage and outpot	RAM	16GB
	Output frequency	20Hz maximum
	Differential data	RTCM2.X, RTCM3.X
	Navigation data	NMEA-0813 GSV, AVR, RMC, HDT, VGK, VHD, ROT, GKG, GGA, GSA, ZDA,VTG, GST, PJT, PJK, BPQ, GLL
	Customization	Support customized output data
Data transmission	Storage format	Support STH, RINEX 2.x, RINEX 3.x
	Serial port	Support output navigation data, static data and differential data
	Bluetooth	Support bluetooth connection out NMEA data
	WIFI	Support WIFI 2.4GHz IEEE 802.11b/g/n connection
	Network	Support 3G and 4G
Power	Interface	Sim card slot, 1×RS232 interface, 1×USB interface
	Indicated lights	4 indicated lights
	External power supply	9V-36V DC power
	Internal battery	3400mAh, automately charge when connecting with external power
Physical parameters	Size	Diameter: 199mm, High: 152mm
	Weight	2.25 Kg
	IP grade	IP 68 and withstand 1.5 meters drop onto the cement
		ground naturally
	Working temperature	-40°C to +85°C
	Working humidity	100% Non-condensing

* Note: all information above is subject to change without any prior notice.