

UNIVERSE Series of GNSS Receiver

Presenter: Prudence Xu



1 Innovation on Laser RTK receiver











Innovation on Laser RTK



Tired to use range pole for RTK receiver in some situations?

Annoyed when you cannot get fixed under trees?

Impossible to pick up points using RTK receiver indoors?









Then it is Show Time of laser GNSS receiver !



Poleless: GNSS+ Laser Survey

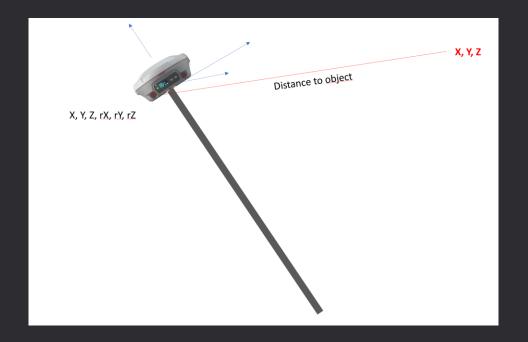






What is the function of laser?

- ✓ You can get distance from the laser point to the receiver to replace the function of the pole!
- You can pick up the laser points coordinates in real time directly, no need to post process like visual RTK receiver with camera!
- ✓ Your second "Total Station"!



SinoGNSS RTK Receiver portfolio





We insist on innovation!





380g Weight

Portable and handheld

Bottom Green Laser









Side Green Laser

Two hotswap batteries

15km unique internal radio







Mars Pro



Colorful OLED display

Side Green Laser

Two hotswap batteries

Compatible radio modem









SinoGNSS Mars Laser Receiver Video







From Quantum I to Quantum III Chipset Powerful Self-developed K8 GNSS Engine



1590 channels; Full constellations; 60+ satellites tracking





Once charged, All day work!

1.7w power consumption for Mars/Mars Pro;1.45w power consumption for Venus

20h working time!





Improved IMU&Laser

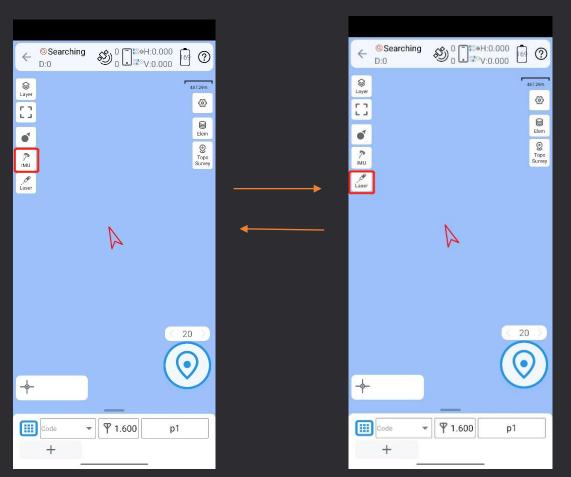
2cm accuracy in tilt surveying within 60°

5cm accuracy in laser surveying within 60° (Laser distance within 10m)

2cm accuracy within 2 m laser distance

IMU initialization time less than 10s

Switch between IMU and laser easily.

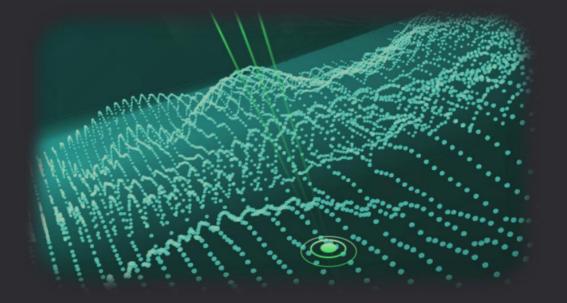


Switch surveying mode by clicking the button.



Unique laser survey





- ✓ Innovation laser technology-the first company which integrates Laser with RTK.
- \checkmark Sunlight visible green laser.
- $\checkmark\,$ Focus ability, no divergence within 10M.
- \checkmark Survey the points that pole can not reach.





Handheld laser

Pole laser

The laser is irradiated vertically

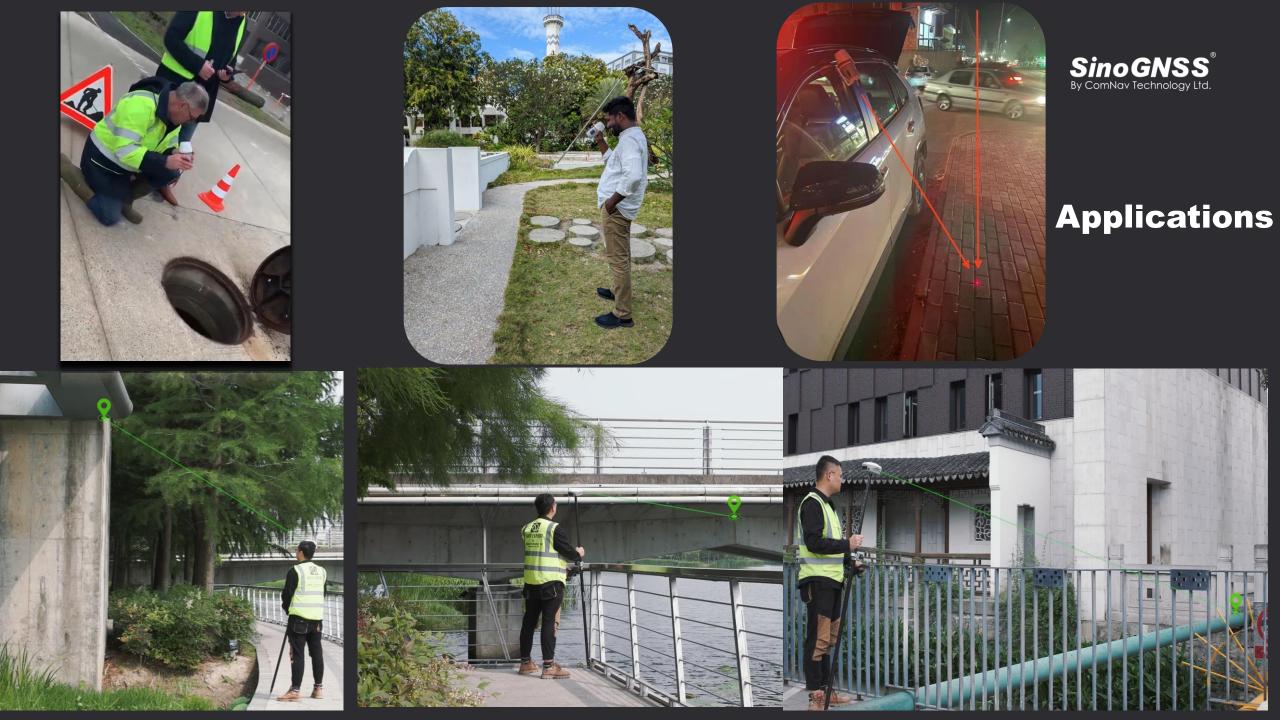
The laser is irradiated horizontally













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