



Fibre-optic north seeking rig alignment system.

DeviAligner

Description

The DeviAligner is a state-of-the-art north seeking rig alignment system with the fastest settling time available on the market. Utilising advanced fibre-optic gyro technology, the ultra portable system records precise azimuth, inclination and roll angles in both surface and underground environments.

Designed specifically for automating the drill rig alignment process within the mining and civil sectors, the DeviAligner significantly increases accuracy and efficiency, whilst reducing rig downtime and associated costs. DeviAligner also delivers quick and precise quality assurance for any collar pick up, survey instrument reference and re-alignment requirements.

The system features an easy to operate Android application, wireless communication, and enables real time readings in True North or Mine Grid.

DeviAligner utilises proven, off-the-shelf, commercially available batteries, to simplify the user experience and make shipping by airfreight much easier. Batteries can be hot-swapped for continuous operation throughout a full shift to eliminate any unnecessary downtime.

Integration

Drill hole coordinates can be entered directly into the DeviAligner hand pad or pre-loaded from any location worldwide and sent directly to the rig using IMDEXHUB-IQ™.

Drill hole alignment data is transferred back into IMDEXHUB-IQ™, securely optimising the data transition and management process whilst minimising the risk of manual entry error.

Applications

- Surface & underground drilling
- Diamond drilling
- Reverse Circulation (RC) drilling
- Civil drilling applications
- Drill & blast

Advantages

- Fast settling time < 5min
- Wireless communication with Android app
- Ability to import drill plans
- Live data output in true north or mine grid
- Robust, lightweight design < 14kg
- User friendly multi-size mounting bracket
- Dependable, commercial grade batteries
- Simple onsite calibration check procedure

"The DeviAligner makes us feel way more comfortable with our drill rig set ups at Ada Tepe, having in mind all the underground infrastructure we must avoid. It is fast, portable and easy to use on site, an ideal solution for accurate rig alignment."

Nikolay Mihaylov

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DeviAligner

320 mm/12.6 in



Settling time:
5 minutes



Azimuth accuracy:
 $\pm 0.15^\circ$ sec lat



Inclination
accuracy: $\pm 0.1^\circ$



Battery capacity:
6-12 hours

Dimensions

Length	320 mm
Width	249 mm
Height	217 mm
Weight (inc. batteries)	14.5kg/31.9lbs

Specifications

Operational temperature	-20° to 55°C/-4° to 131°F
Storage temperature	° to 80°C/-40° to 176°F
Azimuth accuracy	0.15° sec lat-40
Inclination accuracy	0.1 degrees
Battery type	Rechargeable
Battery capacity, continuous use (each)	6 hours (two supplied)
Data communication	Android app or web interface
Settling time	5 minutes
Position	Latitude required
Charge time	3 hours
Charger	100-240 VAC

Handheld Device

Type	Android Smartphone
Software	DeviAligner App
Battery capacity, continuous use	15 hours
Battery type	Lithium
IP rating	IP68

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