

PRODUCT / DRILL RIG ALIGNER

NovaCompass

Fast drill rig alignment. Drill more holes, every shift.

Drop-in gyrocompass alignment — no survey crew, no GPS, no recalibration. Cut setup by up to 70% and keep drills turning.

SUB-0.2° ACCURACY

UP TO 70% FASTER SETUP

NO GPS REQUIRED

DRIFT-FREE



ACCURACY · 1 MIN

<0.5° 1σ

rapid alignment

ACCURACY · 10 MIN

<0.2° 1σ

continued convergence

COLD START TO <1°

60 sec

rapid initialization

BATTERY LIFE

12 hrs

on 4 Ah pack · unlimited via faceplate

01 FEATURES & BENEFITS

- **Keeps drills drilling**
 Aligned in under a minute so crews stop waiting on survey and get back to production.
- **Up to 70% faster rig setup**
 Replaces total-station setups and survey call-outs — no tripods, no line-of-sight, no re-shoots.
- **Small, handheld device**
 Palm-sized and ~14 lb — one operator walks it to the rig and installs it in seconds.
- **Magnet-mount ready**
 Strong neodymium mount snaps to any ferrous surface with a quick-release for fast repositioning.
- **Accelerate mineral discovery**
 Fast, accurate headings mean less waiting, less rework, and more holes drilled per shift.

02 TECHNICAL SPECIFICATIONS

PERFORMANCE	
HEADING · 1 MIN	<0.5° 1σ
HEADING · 10 MIN	<0.2° 1σ
ROLL / PITCH	0.1° RMS
RESOLUTION	0.01°
RANGE H/R/P	0-360° / ±180° / ±90°
PHYSICAL	
DIMENSIONS	170 × 115 × 157 mm
WEIGHT	14 lb (6.35 kg) lighter options available
IP RATING	IP65
OPERATING TEMP	0 °C to +60 °C
BATTERY LIFE	12+ hrs continuous
INTERFACES	
COMMS	RS-422
PROTOCOLS	UDP · TCP · CAN · Web
DATA OUTPUT	0.1 – 200 Hz
POWER SUPPLY	24 VDC · <10 W max
RUNTIME	unlimited via faceplate

SERVICE · 01

Cloud Survey Platform

Remote data access · real-time reporting · project management

SERVICE · 02

Live Customer Support

Expert assistance on-call for every active project

SERVICE · 03

App-Based Interface

Intuitive mobile app for setup, monitoring, and data export