

The logo for CHCNAV, featuring the company name in white uppercase letters with an orange location pin icon integrated into the letter 'A'.

CHCNAV

# i93

VERSATILE, EFFICIENT AND  
EASY-TO-USE VISUAL IMU-RTK



SURVEYING  
& ENGINEERING



The i93 GNSS receiver is an extremely versatile RTK that integrates the latest GNSS, IMU, and premium dual-camera technologies for a more compelling user experience. Its 3D visual stakeout feature provides unparalleled ease of use and comfort, boosting efficiency for any construction site layout project. Visual survey with video-photogrammetry technology enables accurate point measurements and access to previously hard-to-reach, signal obstructed, and hazardous points. The i93 GNSS can be used to complement aerial surveys generated from oblique imagery since its data is compatible with the most popular 3D modeling software. The i93 GNSS receiver is powered by the innovative CHCNAV iStar GNSS RTK algorithm, multi-band GNSS channels, and hybrid engine for reliable, high accuracy positioning in even the most challenging site conditions. The Auto-IMU of i93 features automatic initialization, eliminating the hassle of manual initialization and simplifying surveying operations in the field. The i93 is the ideal solution for completing tasks faster, more accurately, and more efficiently.

## 1. VISUAL NAVIGATION AND STAKEOUT



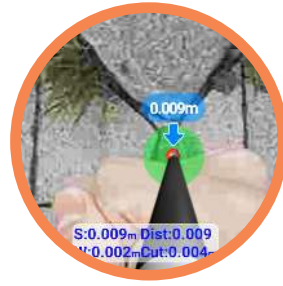
### Effortless stakeout

Quick, one-step stakeout on LandStar™ software's 3D view with 50% efficiency gain for less experienced operators.



### 3D visual navigation

Guided by a clear, eye-catching directional arrow and real-time distance.



### 3D visual stakeout

Immersive 3D stakeout experience with the stakeout point marked directly on the ground.



### Star-level cameras

The stakeout display is clear even at night.



# SPECIFICATIONS

## GNSS Performance <sup>(1)</sup>

## Hardware

Size (D x H)	Φ 152 x 81 mm (Φ 5.98 x 3.19 in)
Weight	1.15 kg (2.54 lb)
Front panel	1.1" OLED Color Display 2 LED, 2 physical buttons
Tilt sensor	Calibration-free IMU for pole-tilt compensation. Immune to magnetic disturbances. E-Bubble leveling.

## GNSS Accuracies <sup>(2)</sup>

Sensor pixels

Field of view

Video frame rate

Image group capture

Illumination

SIM card type

Network modem

Wireless connection

Wi-Fi

Bluetooth®

Ports

## Environments

Built-in UHF radio

Data formats

## Compliance with Laws and Regulations