

CHCNAV

EasyNAV

3D SYSTEM FOR EXCAVATORS



MACHINE CONTROL  
& CONSTRUCTION

# INTEGRATED DESIGN

# WIDE COMPATIBILITY

# SIMPLE SETUP

# EASY TO USE

The EasyNav eMG100 3D System for Excavators is the world's simplest high-precision 3D excavator system, designed for seamless integration and ease of use. It features a 10.1-inch tablet with a built-in GNSS receiver, two IS300 IMU sensors, and two GNSS antennas. This system can be installed and calibrated quickly to provide centimeter-level precision guidance. With just one click, operators can set up the system. Important real-time data is shown clearly to help operators dig accurately in one go, ensuring high quality, efficiency, and less downtime on the job site.

## EASY AND SIMPLE SETUP

### The best suited system for small excavators:

- Installation can be completed within one hour.
- Calibration can be completed within 15 minutes.
- Learn how to use it in 30 minutes.



Elevation Measuring

## PRACTICAL FUNCTIONS

### Making excavation simpler than ever:

- High accuracy up to  $\pm 3$  cm.
- Set up the AB baseline quickly and easily.
- Provides precise real-time offset guidance.
- Effectively measures elevation and slope for complex work.
- Indicates excavator orientation, bucket angle, and real-time cut-and-fill volume.



AB line Establishing

## WIDE ADAPTABILITY

### Adaptable to different machines and settings:

- Supports swing boom and triple boom configurations.
- Supports tilt bucket with an additional IMU sensor\*.
- Supports creating multiple bucket profiles for quick switching.
- Supports CORS.
- Supports multi-brand radio base stations\*.

\*Optional

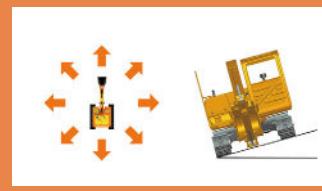


Slope Designing

## SIMPLIFIED OPERATION SYSTEM

### Easier to use for everyone:

- Connect to CORS and the base station with a single click.
- Surface design is possible on the job site with minimal experience required.
- No need to input complicated CAD files or set up coordinate systems.
- Easy-to-understand indicators with large numbers and graphics.



High Accuracy in any posture



## 3D SYSTEM FOR EXCAVATORS



Ground Leveling



Road Construction



River Dredging



Leveling in Farmland



Ridging in Farmland



Foundation Building



Trenching

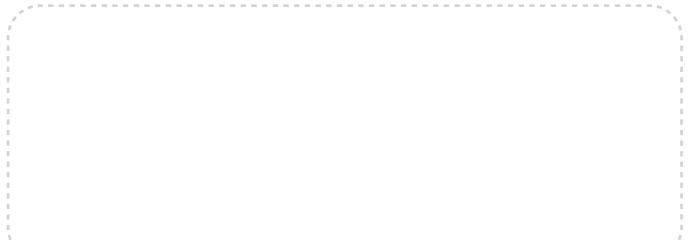


Slope Building in Pond

# SPECIFICATIONS

Tablet		Antenna	
Size (W*L*H)	281*181*42 mm	Dimensions	φ150*61mm
Weight	1.5 kg	Weight	≤450 g
Screen	10.1" 1024*600 pixel 750 cd/m <sup>2</sup>	External power input	3.3~12V DC
System	4 Cores 1.2 GHz RAM: 2 G ROM: 16 G Android: V6.0.1	Gain	40 ±2 dB
Operation temperature	-30°C ~ +70°C	Noise coefficient	±2 dB
Storage temperature	-40°C ~ +85°C	Shock	30 g / 11 ms
Ingress protection	IP65	Vibration	<std-mil-810H> 7.7G
GNSS Constellation	GPS, GLONASS, BeiDou, Galileo, QZSS, L-Band	Operation temperature	-40°C ~ +85°C
IMU Sensor		Storage temperature	-55°C ~ +85°C
Size (W*L*H)	48.9*109*27.3mm	Ingress protection	IP68
Weight	115 g		
External power input	7 ~ 36 V DC		
Static accuracy (RMS)	±0.05°		
Dynamic accuracy (RMS)	±0.1°		
Shock	50 g/11 ms		
Vibration	7.7 grms, 10 ~ 1000 Hz, 4 H/axis		
Operation temperature	-40°C ~ +75°C		
Storage temperature	-50°C ~ +85°C		
Ingress protection	IP69 K		

\* Specifications are subject to change without notice.



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