

## ER-EC62B High Accuracy Digital Display 3D Compass

### Introduction

ER-EC62B High Accuracy Digital Display 3D Compass a new type 3D full-posture compass north finder which launched by our company to the satellite search industry, using USA fluxgate technology and advanced hard iron and soft iron calibration algorithm, to make it still can provide the high accurate heading information in tilt 360 ° status , still can accurately show the direction angle when tilt 360deg to identify the relative heading position. The products integrated design pitch, roll and heading alarm functions, such as setting the heading angle with 0 degrees alarm point, when products go to 0 degrees position will drive buzzer alarm, humane alert the operator to use. Can also set the magnetic declination and calibrate the magnetic field functions etc. through manual button.

ER-EC62B display unit using the industrial wide temperature digital blue tube, built-in high-capacity rechargeable battery, the battery life can up to over 10,000 times (when low power with the alarm function), can use 220V pluggable charging, convenient and quick.



### Features

Heading accuracy: 0.3°	Tilt angle compensation range:±85°
Heading measuring range:360°	Tilt angle accuracy : 0.1°
Wide temperature range: -20℃~+80℃	Size: L113×W67×H28mm
With hard magnetic ,soft magnetic and angle compensation	IP65 protection class
Handheld、dovetail groove installation integrated design calibration	With soft、 hard magnetic field
Relative 、 absolute Zero setting	18 hours work continuously endurance
Low power charging alarm function	RS232、 RS485 Serial data synchronization output ( optional )
Diversified combination mode(external connection 3D compass are optional )	
Industrial digital tube display ,wide temperature, night vision	

## Application

Satellite antenna search satellite	Marine navigation surveying and mapping
GPS integrated navigation	Antenna servo control
Pile Driver Angle real-time monitoring	Map for plotter
Geomancy surveying and mapping	Oceanography measurement instruments

## Specifications

ER-EC62Bperformance parameter indicator		
Compass heading parameter	H axis heading accuracy	0.3°~0.5°
	Resolution	0.1
	Repeatability	0.1
Compass inclination parameter	X axis	0.1°<15° (Measuring range)
		0.2°<30° (Measuring range)
		0.3°<60° (Measuring range)
		0.4°<360° (Measuring range)
	X-axis measurement range	±180°
	Resolution	0.1
	Y axis	0.1°<15° (Measuring range)
		0.2°<30° (Measuring range)
0.3°<60° (Measuring range)		
0.4°<85° (Measuring range)		
Y-axis measurement range	±85°	
calibration	Hard iron calibration	Have
	Soft iron calibration	Have
Physical characteristics	size	L125×W67mm×H28mm
	weight	120 g
	Optional RS-232 data	Industrial pluggable connector 5 pin

	output	
Interface characteristics	Start delay	<50 ms
	Maximum output rate	20Hz/s
	Communication rate	2400~ 19200baud
	Output format	Binary high performance protocol
power supply	Supply voltage	Built-in DC battery work 24 hours External DC 12V power supply (optional)
	Current (maximum)	40mA
	Ideal mode	20mA
	Sleep mode	TBD
surroundings	Operating range	-20°C~+80°C
	Storage temperature	-40°C~+100°C
	Anti-vibration performance	3000g