

NINGLU IR361

Digital Gyro Repeater Operating & Installation Manual

Edition IR361EN 110101



Nanjing Ninglu Technology Co., Ltd.

105-2 Da Ming Road Nanjing City, China Phone: 86-25-52614640

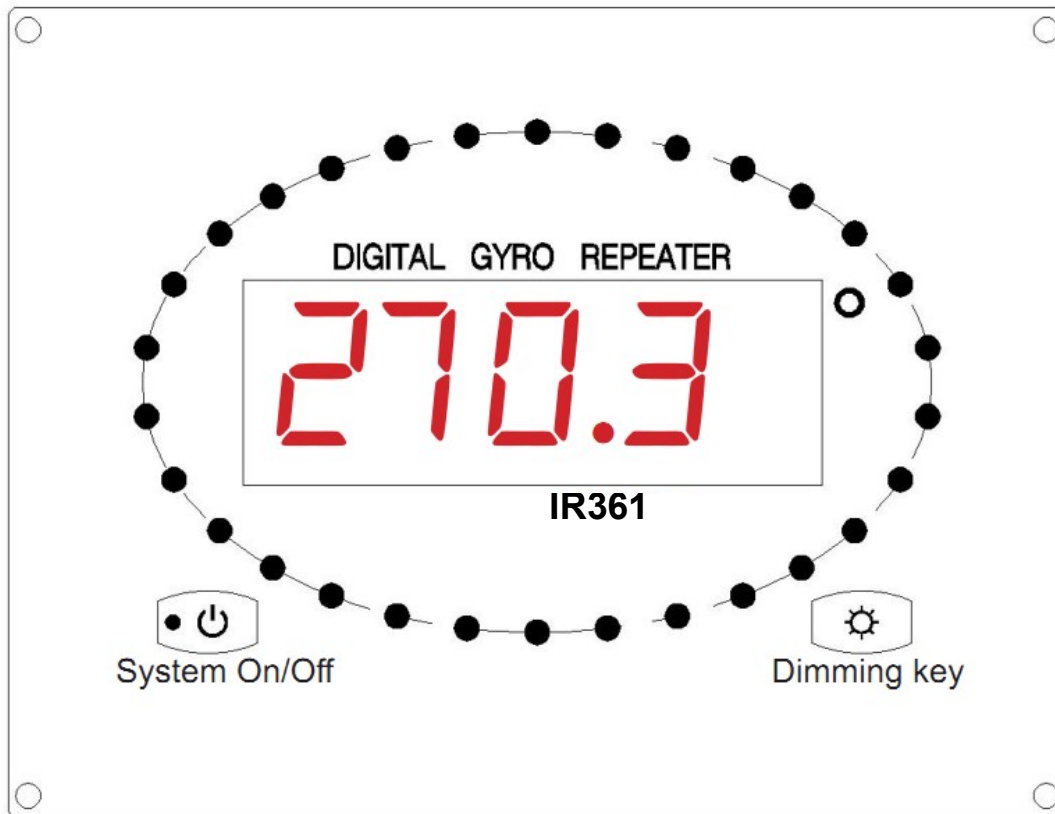
Fax: +86-25-52614640

URL: <http://www.ninglutech.com>

INTRODUCTION

IR361 is a digital gyro repeater that displays the heading angle in the LED segment display and indicates the rate of turn (ROT) with 30 dual-color surrounding LEDs. The IR361 will display heading angle given by the HDT message from a gyro or other equipment (NMEA 0183) and indicate ROT by calculating change in heading based on the HDT input and the time between each message.


The dimming may be controlled by pressing the dimming key.




Operation Panel

OPERATION

1 Power Switch

System On/Off: Push the  On/Off button to switch the repeater on and off.

2 Brightness

Dimming key: Push the  (Dimming key) button to adjust the brightness among 8 dimming levels.

1. The high-light LED segment displays the heading angle between 0.0° and 359.9° .
2. When the heading angle increases (turn starboard), the turning indicators are green. When the heading angle decreases (turn port), the turning indicators are red.
3. When the heading angle rate is $1^{\circ}/s$, the rotate speed of the surrounding LEDs is 6 steps/ s.

NMEA0183 INPUT

\$--HDT,x.x,T*hh<CR><LF>

x.x-Heading,T-degrees True

SPECIFICATION

Measurement:	L:220mm, W: 170mm, H: 63mm.
Weight:	About 2kg
Voltage:	24VDC (20-32VDC)
Power consumption:	2W (24VDC)
Compass safe distance:	85cm

DIAGNOSTIC INFORMATION

1. The LED segment will show “- - -”, ROT lights go out, when IR361 has been with no signal for more than 15 seconds.

INSTALLATION

The unit can be mounted in panel, table, wall or ceiling.

1. For table, wall or ceiling mounting, use the supplied bracket.
2. If panel (flush) mounting, take off the bracket and take off the front frame. Cut a square window in the panel according to cut out drawing. Fix the inside 4 holes with screws, and put on the front frame again

Note: When mounted in a panel, we advise the size of the hole to be 160 mm x 192 mm.

