Angle Meter LM320D/LM320E/LM320F



User Manual

PREFACE

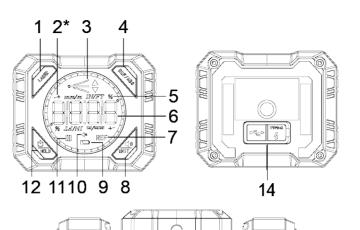
Thank you for purchasing the new Angle Meter. In order to use this product safely and correctly, please read this manual thoroughly.

After reading this manual, it is recommended to keep the manual at an easily accessible place, preferably close to the device, for future reference.

LIMITED WARRANTY AND LIABILITY

Uni-Trend guarantees that the product is free from any defect in material and workmanship within one year from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination and improper handling. The dealer shall not be entitled to give any other warranty on behalf of Uni-Trend. If you need warranty service within the warranty period, please contact authorized service center or send the product back with problem description. This warranty is the only compensation you can obtain. Uni-Trend will not be responsible for any special, indirect, incidental or subsequent damage or loss caused by any reason or speculation. As some areas or countries do not allow limitations on implied warranties and incidental or subsequent damage, the above limitation of liability and stipulation may not apply to you.

Product Structure



base of	
1	Laser ON/OFF Button (only LM320E, LM320F)
2	-/+ Display Icon
3	Angle Direction Icon
4	Absolute/Relative Value Switch
5	(in/ft, mm/m, %, °,) Unit Switch
6	Angle Display
7	Absolute / Relative Value Display
8	Unit Switch / Sound ON/OFF
9	Battery Display
10	Mute Icon

POWER/Data Lock Button Laser Emission Hole (only LM320E, LM320F) Type-C Charging Port

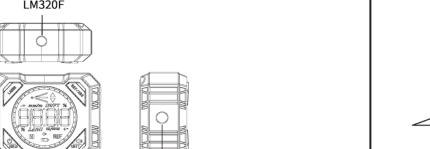
Operations:

Power On: In power-off state, long press button to power on.

Power Off: In power-on state, long press button to power off. Laser ON/OFF (LM320E)

In power-on state, short press button to make all lasers on, and short press button again to make the laser off on the right side. Short press button again, the Laser ON/OFF (LM320F)

In power-on state, short press button to make all lasers on, and short press button again to make the laser off on the top side. Short press igotimes button again, the laser on the left side is off, and then short press button again to make the laser off on the right side; Short press button again to make all lasers off.



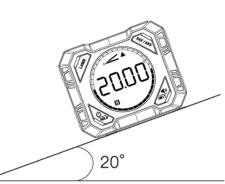
Right-sided laser of LM320E/LM320F

Angle Measurement

Left-sided laser of

LM320E/LM320F

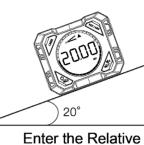
In power-on state, place the device on the inclined plane, the show value on the screen is the angle value between the inclined plane and the horizontal plane.



Top-sided laser of

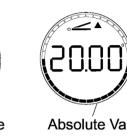
REF (Relative Value Mode):

In the measurement mode, short press button to enter the Relative Value mode (Set the current value to 0), and short press it again to exit the mode.



Value mode





Calibration Mode

Place the device on the absolute horizon, continuously long press button for three times to enter the self-calibration mode (see figure 1); CAL0 flashes on the screen, short press button to confirm to enter the auto zero calibration (see

figure 2). Rotate the device 90 degrees, press button and CAL1 flashes on the screen; short press button to confirm to enter the auto zero calibration (see figure 3). Rotate the device 90 degrees, press button and CAL2 flashes on the screen; short press button to confirm to enter the auto zero calibration (see figure 4). Rotate the device 90 degrees, press button and CAL3 flashes on the screen; short press button to confirm to enter the auto zero calibration (see figure 5).

The device will be auto power off after the calibration, and recover the use of is after

power-on.

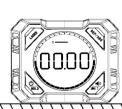
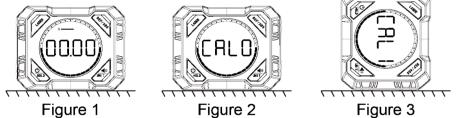


Figure 1





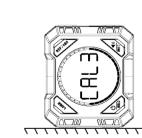
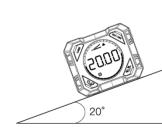


Figure 4

In the measurement mode, short press button to lock the current measured data; short press again to unlock the data.

Figure 5



Data Lock



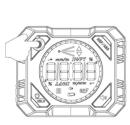
Charge

When the low battery icon is showed on the lower side of the screen, charge

Unit Switch & Sound ON/OFF

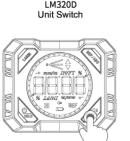
For LM320E/LM320F, long press button to switch the unit (in ounit by default), mm/m,%, or in/ft.In in/ft unit display, when '-'icon shows on the screen, the range of measured value is within 'measured value -1/8 ~ measured value'; when '+' icon shows, the range of measured value is within 'measured value ~ measured value +1/8'. For example, 11.7/8 display means 11 and 7/8; 9-3/8 display means 9 and

For LM320D, short press UNIT button to switch the unit. For LM320E/LM320F, short press button to make the sound indication on/off; For



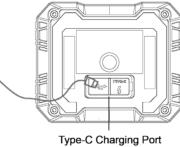


LM320D, short press button to make the sound indication on/off.



Sound Indication ON/OFF

the device at once. When the battery icon stops flashing, the battery is fully charged.



Data-Hold Display

Technical Parameters

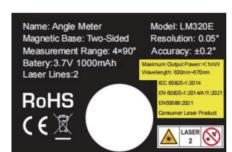
Models	LM320D	LM320E	LM320F	
Measurement	4*90°	4*90°	4*90°	
Range				
Resolution	±0.05°	±0.05°	±0.05°	
Angle Accuracy	±0.2°	±0.2°	±0.2°	
Repeatability	±0.2°	±0.2°	±0.2°	
Unit	Angle; Percentage; Metric system of mm/m; British system of in/ft.			
Laser Lines	N	2 lines	3 lines	
Laser Accuracy	N	±3mm/5m		
Magnetic Base	Two-sided magnetic	Two-sided magnetic	Four-sided magnetic	
Relative/Absolute		✓		
Angle				
Measurement				
Angle Hold		✓		
Screen Rotation	✓			
Auto Power Off	No operations in 5 minutes.			
Materials	Al-alloy frame +ABS			
Power Supply	1000mAh lithium battery			

0°C~ + 50°C Working Temperature Laser Class Class 2 Laser Type 630-670nm, <1mW Battery Life 83.5*70*35.5mm Angle Meter*1, Type-C Cable*1, Gift Box*1, User Manual*1

Cautions:

- 1. Do not use organic solvents to wash the precision equipment. Take it far away from water and corrosives.
- 2. Do not damage the surface of device; use soft cloth to wipe the dust for its
- 3. For power saving, the device will be auto power off if no operations in 5 minutes.

LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 CONSUMER LASER PRODUCT



LM320E



LM320F

The manual is subject to change without prior notice!

Due to different batches, the materials and details of actual products may be slightly different from the graphic information, please refer to the actual product received. Experimental data provided in the page is from internal laboratory of UNI-T, but it should not be a reference for customer to place orders. Any questions, please contact the customer service, thanks!



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UNI-TREND TECHNOLOGY (CHINA) CO., LTD.

No.6, Gong Ye Bei 1st Road, Songshan Lake National High-Tech Industrial Development Zone, Dongguan City, Guangdong Province, China Tel: (86-769) 8572 3888 www.uni-trend.com P/N:110401113327X