

SAFETY PRECAUTIONS

Please read the safety precaution of the user manual carefully before operating the product to avoid potential personal injuries. Please keep this manual in a safe and accessible place for future reference. The product package and discarded products should be recycled or disposed properly in accordance with local laws.

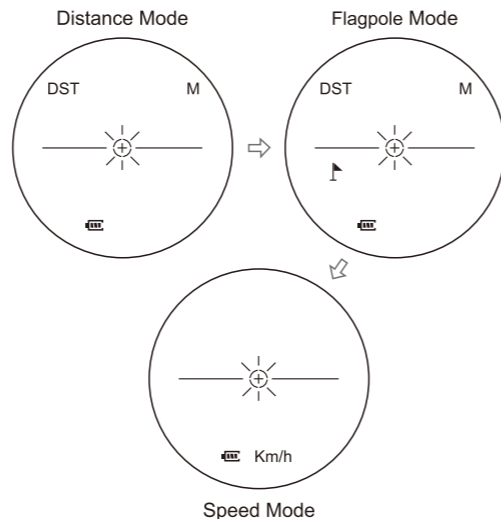
- ◆ Don't look at laser beam while using the product.
- ◆ Don't press \odot when looking at objective lens.
- ◆ Don't use a lens cone or other additional optical units to operate the product as it may lead to eye injury.
- ◆ Don't disassemble the product or place the product in a location where the child can access it.
- ◆ Don't place the product at an uneven height to avoid damage.
- ◆ Don't place this product for prolonged periods of time in direct sun exposure of the car or other strong ultraviolet environments with high heat as it will cause adverse effects.
- ◆ In a low temperature environment, the lens surface may have a condensed fog, do not use the product before this disappears.
- ◆ If the exposed lens is dirty, please use lens cloth provided to wipe clean. Do not touch the lens surface with your fingers.

OPERATION AND DISPLAY

- 1.Insert the battery into the battery compartment (make sure + & - are in proper direction). "+" should be facing up and contact battery door.
- 2.Adjust the eyepiece to get a clear image.
- 3.Scan for desired object and press \odot for measurement.

Press "MODE" key less than two seconds and release, it will cycle through the measurement modes, as shown below.

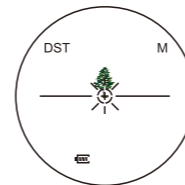
While in Distance Mode press "MODE" key for more than two seconds to switch unit from meters to yards, the default unit is meters.



OPERATION

For example: Distance measurement

Single Measurement



Press " \odot " and aim at the target, ready to measure,



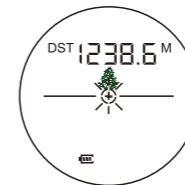
Release " \odot " to display measurement value.

Continuous Measurement

Press \odot for more than two seconds to activate Scan Mode. Continue to press \odot and scan from object to object.

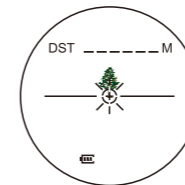
Measurements will be displayed alternately on the screen. The continuous measurement will stop when \odot is released.

*This mode will consume more battery power.



Measurement Failed

Measurement failure will be displayed as shown in figure and last for 8 seconds before unit powers off. Pressing \odot within the 8 seconds the measurement failure is being displayed will start measurement over gain.



MUD

Rangefinder Models LR450 & LR650

Operation Manual

LASER RADIATION
Do Not stare at Laser Beam

Power<75W / 905~915nm
Class 1 Laser Product
Complied with FDA performance For Laser Product

FC CE

LIMITED WARRANTY

Muddy Rangefinders are covered by a One Year Limited Warranty. This Warranty covers rangefinders with manufacturer defects. Normal wear & tear as well as product abuse are not covered by the warranty.

The warranty is valid only for the original owner of the rangefinder purchased from an authorized retailer.

Tampering with or altering the unit will void the warranty.

Any unauthorized service will void the warranty. Original sales receipt must be produced for any warranty service and a Return Authorization (RA) number must be obtained from customer service at **877-269-8490** prior to returning the product.

For more information go to www.gomuddy.com

USING CONDITIONS

Objects with different reflectivity have a big influence on the measuring result, please check the following measuring guidance:

1. Objects like building walls are moderately reflective.
2. Direction of laser emission should be vertical with the reflective objects'surface.
3. Use on sunny days but avoid using under direct sunlight.
4. The area of the reflector should not be less than 2mx2m.

Different conditions above may cause different measuring results. We cannot guarantee the rangefinder will work normally under the following conditions:

1. Pointed up at the sky or pointed directly into the sunlight.
2. Use on rainy, foggy, snowy, or hazy days.
3. Targeted at objects which create poor reflection, such as; electric wire, water surface, etc.

TECHNICAL DATA

Distance/Speed measurement function	Yes
Height/Angle measurement function	No
Golf flagpole model	Yes
Distance measurement method	Laser pulse(eye-safe)
Distance measurement accuracy	±0.3m
Speed measurement accuracy	±5km/h
Laser safety level	IEC60825-1
Telescope Magnification	7X
Eve lens Size	16mm
Object Lens Size	24mm
Battery type	CR2-3V 800mAh
Weight	About 215g(including battery)
Water proof	Grade three
Working Temperature	0°C-40°C

OTHER ATTENTIONS

1. Under the previous conditions, the ranging ability would be better if the measured objects are vertical with laser emission's direction. In some extreme conditions, it is possible that the measuring range cannot reach the ranging ability specified.
2. Under the previous conditions, the object's area and shape may influence the ranging ability. Large plane surfaces are best for accurate measurement results. If the objects surface is small and has other objects right behind it, the L series laser ranger finder will only measure the first object detected.
3. When in speed mode, the moving object should be vertical with laser emission's direction for accurate results. The faster the object moves, the more accurate measurement will be.

APPLICATION AND KEY FEATURES OF OUR PRODUCT

1. Our laser range finder is of 7X optical viewing system with distance and speed measurement function.
2. The smooth and fashionable design makes it very comfortable to be held in hands.
3. Distance can be measured in either in meters or yards. This can be easily switched by long pressing the mode button.

BATTERY INSTRUCTIONS

Battery should be two pieces CR2-3V 800mAh(included).

Lithium battery status description:

Full power: 

Low power, exchange new battery soon: 

No power, exchange new battery immediately: 





Battery's life span

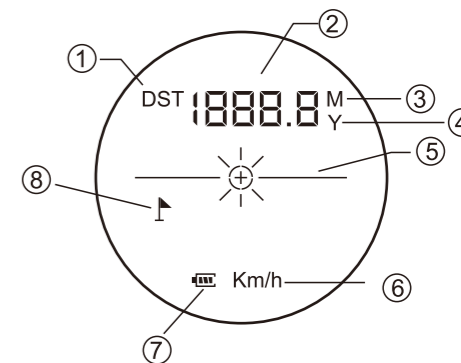
Full battery should last for continuous use of approximate 5000 reads (at about 20°C). This estimate may change under different conditions, such as; different reflectivity of the measuring objects, or in different temperatures.

Battery attentions

1. If handled improperly the battery may break or leak causing possible corrosion of the device or clothes.
2. Install the "+", "-" pole correctly. If it is not installed properly the device will not work.
3. It is recommended that the same model battery is used for battery replacement.
4. Battery should not come into contact with other metal objects, such as; keys, coins, etc. as this may cause the battery to overheat or short circuit.

LCD DISPLAY DESCRIPTION

1. Laser emission system/ objects targeting indication 
2. Symbol of aiming at the target  (align the center of the target with the cross line; the sign will show only when pressing the  button and disappear when the  button is released).
3. Warning: When the sign shows, do not point at people's eyes or look into the object lens. Laser may cause eye damage.



- ① Distance measuring
- ② Distance Value
- ③ Measurement in meters
- ④ Measurement in yards
- ⑤ Laser emission and target indication
- ⑥ Speed unit indication
- ⑦ Battery status indication
- ⑧ Flagpole mode indication