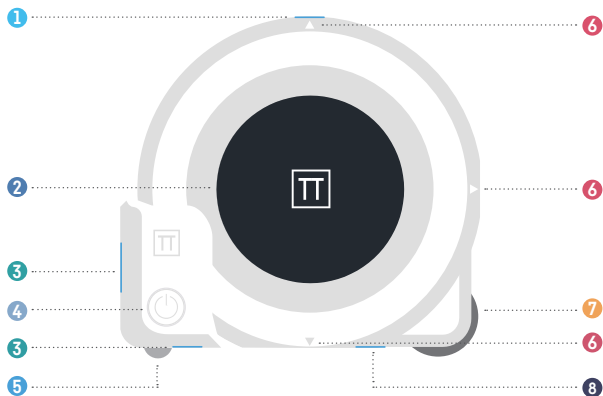


# CUBIT



# Welcome to CUBIT

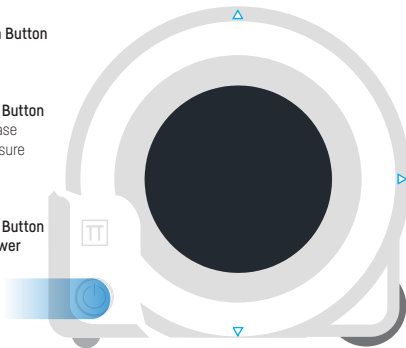


- 1 Mark Button
- 2 LCD Display
- 3 Laser Beam Window
- 4 Main Button
- 5 Ball
- 6 Reference Light
- 7 Wheel
- 8 USB Plug

Short Press **Main Button**  
to **Power On**.

Long Press **Main Button**  
for **1-3s** and release  
to **Clear** the Measure  
Result.

Long Press **Main Button**  
for over **3s** to **Power**  
**Down**.

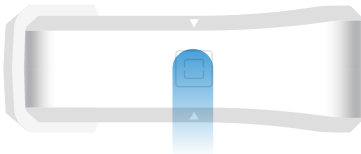


Short press **Main Button**  
to switch the reference.

**In GUIDE Mode**  
supports UP and DOWN  
2 references.



**In Non-GUIDE Mode**  
supports UP and DOWN  
and BACK 3 references



#### **In Non-GUIDE Mode**

Short press **Mark Button** to Turn On the laser and do single measurement.

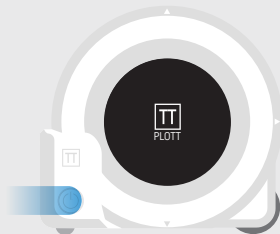
Long press **Mark Button** to Enter/ Exit the continuous measurement.

#### **In GUIDE Mode**

Press **Mark Button** to switch to next Guide Point.

## Startup View

CUBIT will show startup view and keep for 2seconds once the main button is pressed while the CUBIT is powered off.



## Laser Measurement View

CUBIT will enter laser measurement view once the laser measurement button is pressed.



Indicates the direction of the following values are for the LEFT LASER (X LASER currently).



Indicates the direction of the following values are for the DOWN LASER (Y LASER currently).



Indicates the CUBIT is using FEET as its unit.



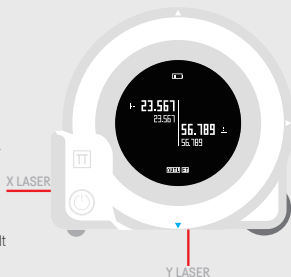
Larger size number is current measurement result. Smaller size number is previous measurement result.



Indicates the laser distance auto compensation mode is enabled. This function is disabled in default and can be turned on via Plott App.



Indicates the leveling status of the CUBIT.



## Wheel Measurement View

CUBIT will enter wheel measurement view once the wheel is rotated.



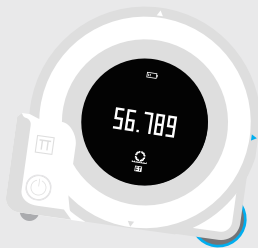
Indicates the CUBIT is working in wheel mode.



Indicates the CUBIT is using FEET as its unit.

\* FEET is the default unit.

\* Working with Plott App and it can help to change to other units.



## GUIDE View

CUBIT will enter laser measurement view once the laser measurement button is pressed.



Indicates the direction of the following values are for the LEFT LASER(X LASER currently) .



Indicates the direction of the following values are for the DOWN LASER(Y LASER currently) .



Indicates the CUBIT is using FEET as its unit.



Indicates the CUBIT is guiding you to move to top- left corner.

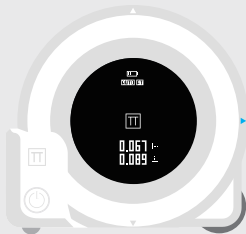
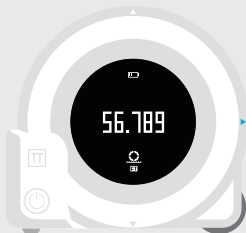


Indicates the CUBIT is showing you current guidance point is matched.



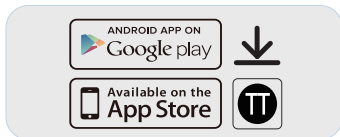
Indicates the laser distance auto compensation mode is enabled.

This function is disabled in default and can be turned on via Plott App.



# Bluetooth Operation: CUBIT

## **STEP 1** Download PIOTT App to your smartphone



## **STEP 2** Turn ON the CUBIT



## **STEP 3** Connect your CUBIT in the Device Management Page of the App.



"THE BLUETOOTH® WORD MARK AND LOGOS ARE REGISTERED TRADEMARKS OWNED BY BLUETOOTH SIG, INC. AND ANY USE OF SUCH MARKS BY STANLEY TOOLS IS UNDER LICENSE. OTHER TRADEMARKS AND TRADE NAMES ARE THOSE OF THEIR RESPECTIVE OWNERS."

## Specifications

Range	0.3 m to 20 m [0.99ft to 65 ft.] [Two-directions]
Measure direction	X/Y[Two-directions] 0.5<1 mW
Measuring accuracy ( $\pm 3.0 \text{ mm} \leq 10\text{m}$ )	Typ.: $\pm 3.0 \text{ mm}^*$
Smallest unit displayed	1 mm [5/128"] [Two-directions]
Laser class	2
Laser type	620-690 nm, Power<1 mW
Laser / Backlight automatic switch-off	After 30 s After 90 s
Battery life (built-in)	300 - Cycle capacity of the remaining 80%, Li-ion 1500 mAh
Dimension (h x d x w)	100.84 x 36 x 91.78 mm
Weight	175.6 g
Storage temperature range	-4-158F [-20~70°]
Operating temperature	32-104F [-0~40°]

\* Under favorable conditions (good target surface, room temperature) up to 10 m [33 ft.]. under unfavorable conditions such as bright sunlight, a very weakly reflecting target surface or large temperature fluctuations, the error can increase by  $\pm 0.25 \text{ mm/m}$  [ $\pm 0.003 \text{ in./ft.}$ ] for distances over 10 m [33 ft.].

## Error Codes

	Description	Corrective Action
101	Received Signal Too Weak / Measuring Time Too Long	Use target plate or change target surface.
102	Received Signal Too High	Target too reflective, use target plate or change target surface.
201	Too Much Background Light	Reduce background light on target area.
202	Laser Beam Interrupted	Remove obstacle and repeat measurement.
301	Temperature Too High	Allow device to cool to operating.
302	Temperature Too Low	Allow device to warm up to operating temperature.
401	Hardware Error	Switch on/off device several times. If error cannot be cleared return defective instrument to Service Center or distributor. See warranty information.
402	Unknown Error	Contact Service Center or distributor. See warranty information.

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# Warranty

## Standard Warranty Terms

The warranty period for the CUBIT is 12 months from the date of purchase. Northwest Instrument, Inc. [Seller] warrants this instrument made by Northwest Instrument to be free from manufacturing defects in materials and workmanship. For claims to be made under this warranty the instrument must be inspected by Northwest and the defect must be proven to Seller's satisfaction. At the time that it is proven to the Seller's satisfaction that the instrument is defective, it shall be repaired or replaced, at the Seller's option and returned to the original purchaser at no cost to them, including transportation charges. Seller's sole obligation and the Buyer's sole remedy are limited strictly to repair or replacement with these provisions below:

- A. The instrument is returned to Northwest, properly packaged with the transportation charges prepaid and insured and accompanied by proof of ownership. Receipt and previous registration is required.
- B. Except for ordinary wear and tear resulting from normal usage, the instrument, upon inspection by the Seller is determined to be defective in material and/or workmanship.

Under no circumstances shall the Seller be liable for any consequential, incidental or contingent damages whatsoever.

## Limitations and Exclusions

- A. This warranty does not apply to instruments subject to negligence, abuse, accident, improper operation, instruments damaged in transit or damage due to unauthorized service repairs made by someone other than Northwest or any other Northwest authorized service personnel. Circumstances beyond Northwest Instrument's control cannot be warranted.
- B. This warranty does not apply to regular required maintenance such as cleaning, adjusting, lubricating or calibrating unless required as a result of a defect in workmanship or materials.

If, upon examination of the instrument, the Seller determines that additional repair services are required and not covered under this warranty, the Seller shall notify the Buyer of such repair charges and proceed only after authorization has been received.

- C. This warranty does not apply to instruments damaged in transit to or from Northwest Instrument or any authorized repair center. Other remedies may or may not be available for transportation damages.

## USER SAFETY

### **WARNING:**

Carefully read the Safety Instructions and Product Manual before using this product. The person responsible for the instrument must ensure that all users understand and adhere to these instructions.

### **WARNING:**

The following label information is placed on your laser tool to inform you of the laser class for your convenience and safety.



The CUBIT Products emit a visible laser beam as shown in Figure A. The laser beam emitted is Laser Class 2 per IEC 60825-1 and complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

### **WARNING:**

While the laser tool is in operation, be careful not to expose your eyes to the emitting laser beam (red light source). Exposure to a laser beam for an extended time may be hazardous to your eyes. Do not look into the beam with optical aids.

## Caution

This device complies with Part 15 of the FCC Rules / Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: [1] this device may not cause harmful interference, and [2] this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : [1] l'appareil ne doit pas produire de brouillage, et [2] l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **ARNING**

Indicates a potentially hazardous situation or an unintended use which, if not avoided, will result in death or serious injury.

Indicates a potentially hazardous situation or an unintended use which, if not avoided, may result in minor injury and/or appreciable material, financial and environmental damage. Important paragraphs which must be adhered to in practice as they enable the product to be used in a technically correct and efficient manner.

## **BATTERY SAFETY**

The battery is a rechargeable lithium battery.

The battery plug should be installed near the equipment or easy to reach when charging.

**DO NOT** put the battery under high temperature. Batteries may explode when overheated.

**DO NOT** expose the equipment or battery under high temperature or near heating device, such as sunlight, microwave oven, stoves, water heater etc. Batteries may explode when overheated.

**DO NOT** replace the internal battery.

**DO NOT** dispose the equipment and battery or any accessory as household garbage. Batteries may explode when mishandled.

## **RECYCLING**

**DO NOT** dispose of this product with household waste.

**ALWAYS** dispose of batteries per local code.

**PLEASE RECYCLE** in line with local provisions for the collection and disposal of electrical and electronic waste under the WEEE Directive.



## **DECLARATION OF CONFORMITY**

CUBIT declares that the CE Mark has been applied to this product in accordance with the CE Marking Directive 93/68/EEC.



This product conforms to IEC 60825-1:2014.





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