

### . Safety Information

1. This is a Class 2 laser tool, laser radiation is emitted from this product and is manufactured to comply IEC 60825-1: 2007, EN 60825-1:2007, EN 61326-1:2013 and CRF21, parts 1040.10 and 1040.11. 2. Use of controls, adjustment procedures other than those specified herein may result in laser radiation exposure.

3 Never stare directly into beam or aim the laser beams at others

4. Product contains semiconductor laser diodes with wavelengths of 650 nanometers.

5. The total continuous output of the beams never exceeds 1.0 milli-watts.

6. Product complies with EMC Test according to EN61000-6-3:2001+A11:2004, EN61000-6-1:2001,

EN61326-1:2013, IEC 61326:2012 and FCC Test according to PART 15. 7. For devices support Bluetooth are complied with part 15 of the FCC Rules. 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. NOTE: 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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement

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### . Error Code

. Service Support

[ reps@precaster.com.tw ] for further assistance

Please contact your local dealer or contact us through servise email :

Code	Description	Solution
Err01	Out of measuring range	Measuring in a proper range
Err02	Reflected signal is too weak	Select a better surface
Err03	Out of display range (Max Value: 99999), e.g: result of area or dimension is out of display range.	Divide caculation into intermediate steps
Err04	Pythagorean calculation error	Check and verify values and steps are correct
Err05	Low Battery	Install a new battery
Err06	Out of working temperature	Measure in an environment within specified working temperature
Err07	Ambient light is too strong	Measure in a darker place (shadow target)

## LASER DISTANCE METER **CX100**

**Operation Manual** 



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C ID: YWSLB113100000001 ID: 20299-LB113100001			CX100 Operation Manual		www.precaster.com.tw				Batteries
			Precaster Enterprises CO., LTD.		Made in Taiwan	CX100 Operat	tion Manual	www.	precaster.com.tw
PRECAST	ER NEW	BENCHMARK OF MEASURING	CX100 OPERATION MAN	IUAL	WWW.PRECASTER.COM.TW	PR	ECASTER	NEW BENCHMARI	K OF MEASURING
Contents nside The Box Specification Dverview for CX100 Dverview for CX100 Dverview for Screen Battery Installation & Power Statu Suitch On and Off Distance Measurement Measurement Reference Measurement Addition & Subtract Inside The Box CX100 Laser Distance Meter x1 Carrying Case x1 Specification Measuring Range 0.05 Resolution 0.00 Accuracy 11.5 Measuring Speed 0.55 Laser Type 650 Battery AAA Dimension 116 Diperation Temperature 20% Automatic Power-Off Lase	<ul> <li>Measuring Area Meas</li> <li>Area Meas</li> <li>Indirect M Indirect M</li> <li>Stake-Out I</li> <li>Setup Stal</li> <li>Store Meas</li> <li>Countdowr</li> <li>M<sup>2</sup> app &amp;B</li> <li>Calibration</li> <li>AAA Battery x2</li> <li>Operation p x1</li> <li>Mine 100m</li> <li>Mine</li> <li>mm, Class II, &lt;1mW</li> <li>m@15m</li> <li>Battery x2, Up to 10,000 measure</li> <li>x48 x31mm</li> <li>-40°C</li> <li>C-60°C</li> <li>er 30 Seconds</li> <li>-Device 180 Seconds</li> </ul>	Functions 6 urement easurement easure (Angle Sensor) I, II, III easure (Angle Sensor) IV, V, VI Aeasurement 7 ee-Out Distance kee-Out with preset Distance urement to Memory and Lookup 8 Measure uetooth Setup 9 of Angle Sensor 10 Manual x1	Overview for CX100          Image: Constraint of the state of the s	<ul> <li>Subtractio</li> <li>Measurem</li> <li>Clear / Pov</li> <li>Reference</li> <li>Pintail</li> <li>Measuring Reference</li> <li>Measuring Reference</li> <li>Measuring Function</li> <li>Memories</li> <li>Laser Indicator</li> <li>Add and Subtract</li> <li>Maxmum Display</li> <li>Indirect Measuring</li> </ul>	<ul> <li>Laser Receiving Window</li> <li>Laser Emitted Window</li> <li>Laser Emitted Window</li> <li>A Laser Emitted Window</li> <li>M Backlight</li> <li>ent Records</li> <li>ver</li> <li>Laser Point</li> <li>Stakes Direction Indicator</li> <li>Main Screen and Units</li> <li>Countdown Measuring</li> <li>Bluetooth Indicator</li> <li>Battery Status</li> <li>Sub-Screen and Units</li> </ul>	Battery I     This unit is pow     Remove battery     Battery level is s     When the icon     Seplace batterie     To change new     Switch O     Be sure to checl     Click the     Switch O     Be sure to checl     Click the     To     Switch O     She device will     turn on the laser     Single Measure     A Move the laser     Click the     Single Measure     Click the     Incortinuous Mea     distance     Sheep your posit     Continuous Mea     distance     Sheep your posit     neasurement mo     A Move the laser     Click the     Single Measure     Sheep your posit     measurement mo     A Move the laser     Sheep your posit     measurement mo     A Move the laser     Click     Signameasurement     Move the laser     Sheep your posit     measurement mo     A Mov	<b>Installation &amp; Power Si</b> rered by 2 x AAA Batteries.         y lid and observing correct polarity befo         showed on screen with batty icon on sci         appears, there are approximately         es when low battery icon in flash on         batteries, when install new batteries, the <b>On and Off</b> kattery status before start.         or (1) to turn on the device.         process the initial procedure and get restort.         for 2 seconds to turn off.         turn off automatically after 180 seconds <b>Measurement</b> dot onto the target.         tion stable and click         measurement solated tracking measurement is also called tracking measured         dot onto the target.         tion stable and tap and hold         table.         aback and forward to proper distance.         to pause the measurement.         no leave the continuously measurement	tatus ree install batteries. reen 222). 1000 times to measure. i screen. ien close back lid. ady to measure by s. d laser will be turn off. measurement. urement and is recommend to b, the laser distance meter wi nt mode.	Image: standby screen   Standby screen Image: standby screen
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NEW BENCHMARK OF MEASURING

### . Measurement Reference

1. There are four reference positions for measurement They are back of the unit, front of the unit, tripod thread and the spike 2. Click // to select the proper position.

### . Measurement Addition & Subtraction

1. To make summary or difference between two measurements is easy

2. Finish your first measurement, than click +/U to save as Addend or -/ to save as Minuend. 3. Take the second measurement, than click +/U to add from addend or -/ to subtract minuend.

### . Unit Setting

1. There are 8 units inside the laser distance meter.

2. Click and hold +/U to select preferred unit. 3. Unit Switch Reference

	meter	feet	inch	0'0"1/32	inch	inch	inch	尺
Length	m	ft	in	0'0"1/32	1/32in	1/16in	1/8in	10/33
Area	m²	ft²	ft²	ft²	ft²	ft²	ft²	Ρ
Volume	m <sup>3</sup>	ft <sup>3</sup>	ft <sup>3</sup>	ft <sup>3</sup>	ft <sup>3</sup>	ft³	ft³	m <sup>3</sup>

### . Backlight & Laser Pointer Mode

1. Click and hold -/ 😸 to turn on or off the backlight. 2. To enable Laser Pointer Mode, click and hold The laser indicator will display continuously until the mode is turned off.



### **CX100 OPERATION MANUAL**

. Measuring Functions

1. Click to enable Area measurement.

2. Laser will be activated when entering area measurement mode

2. Laser will be activated when entering volume measurement mode

1. Click 📰 twice to enable Volume measurement.

3. Follow the instructions on main screen to measure WIDTH and LENGTH.

4. After finish all the instructions, the result [AREA] will be showed on screen

3. Follow the instructions on main screen to measure WIDTH, LENGTH and HEIGHT. 4. After finish all the instructions, the result [VOLUME] will be showed on screen

1. Click thrice, four and five times to enable Indirectly Measurement.

4. After finish all the instructions, the result [HEIGHT] will be showed on screen.

1. Click 📰 six, seven and eight times to enable Indirectly Measurement

2. Laser will be activated when entering indirectly measurement mode.

3. The angle degree will be displayed on top of screen.

2. Laser will be activated when entering indirectly measurement mode.

Indirect

Measure I

3. Indirectly Height I, II & III Measurement (base on Pythagorean)

3. Follow the instructions on main screen to measure the LENGTH OF HYPOTENUSE(S) and BASE.

4. Indirectly Height IV, V & VI Measurement (base on Angle Sensor)

4. Indirectly Height Measurement IV is design to get height by measuring Length Hypotenuse. Tilt the device to proper angle than press measure to measure the length of hypotenuse • The angel will be fixed and length and hight will be display on the screen also.

5. Indirectly Height Measurement V is design to get full height by measuring two length of hypotenuse.

Indirect

Measure II

**Area Measurement** 

2. Volume Measurement

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- Tilt the device to proper angle than press measure to measure the first and second length of hypotenuse • The angel will be fixed and length and hight will be display on the screen also.
- 6. Indirectly Height Measurement VI is design to get difference between heights by measuring two length of hypotenuse
- Tilt the device to proper angle than press measure to measure the first and second length of hypotenuse
- The angel will be fixed and length and hight difference will be display on the screen also.



#### 4. Stake-Out Measurement

Stack out measurement help users to split a long distance into several piece equally. The function need to be used in Continuous Measurement Mode with preset distance.

#### Setup Stake-out distance:

1. Click F six time to enter setup of stak-out distance. 2. Click +/U to increase the value. 3. Click ito decrease your value. 4. Click to shift between numbers. 5. Click 📑 to save the value and exit the setup mode. 6. Click 🛈 to restore zero.



### **Use of Stake-Out with Preset Distance**

- 1. Enable "Continuous Mode" by tap and hold MEAS
- 2. Forward and backward arrow will be showed next to the measurements.

3. Follow the arrow to desired distance, Device beeps to notify you when reach the preset distance and its multiplies

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NEW BENCHMARK OF MEASURING

### . Store Measurement to Memory and Lookup

1. When you want to add the measurements on the screen, press 🚯 to add to memory.

- You could find the location in memory on the top of screen. 2. To lookup stored measurements, press and hold 📧 to enter the lookup mode. 3. Press +/U to move the index up and Press -/ to move index down.
- 4. To clear all stored measurements, press and hold ( again in lookup mode to clear all memory.

### . Countdown Measure

1. For a more stable measurement or you could use countdown measure function to trigger measuring in setting time:

2. Click 8/8 to set your preferred self-trigger time. 3. Timer could set from 3 seconds to 15 seconds. 4. After the time is set, press MEAS to activate measuring.

5. After a beep, the measured result appears on main screen.



### **CX100 OPERATION MANUAL**

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Indirect

Measure III

### . iM<sup>2</sup> app & Bluetooth Setup

For the model supported Bluetooth could connected with phones support BLE4.0. For Bluetooth version on your phone, please contact with your phone manufacturer We currently offer Measurement Kit on iTune and Play Store.







CONNECT

1. To turn on Bluetooth in pairing mode, press and hold  $\mathfrak{S}/\$$ 2. The Bluetooth icon will keep flashing during paring. 3. Select proper device in the Connection Manager of APP

4. After connected with a beep sound the icon will stop flashing











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NEW BENCHMARK OF MEASURING

### . Calibration of angle sensor

1. Find a leveled and flat surface, such as table before start calibration.

2. Turn the device off.

3. Tap and hold function key and turn the device on to enter calibration mode [CAL0]

- 4. You could press Clear button to restore to default
- 5. Or put the device straightly and make the LCD face to you to start calibration.
- 6. Press measure key to start self-calibration (1st step) [CAL1]
- 7. The short beep is notification for getting ready to start.
- 8. The long beep is notification for calibration finished, than turn the device 180 degree straightly
- 9. Press measure key to continue calibration procedure (2nd step) [CAL2].
- 10. When the step 2 is done, lay the device down on the table.

11. Press measure key to continue calibration procedure (3rd step) [CAL3].

- 12. When the step 3 is done, turn the device 180 degree
- 13. Press measure key to continue calibration procedure (4th step) [CAL4].
- 14. After calibration, the device will be turned off automatically.







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