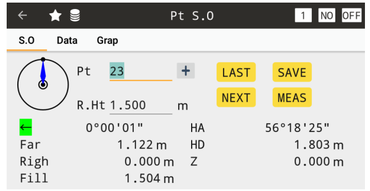
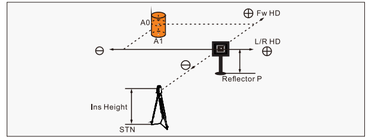
3.Rotate the EDM until angle becomes 0 dms.

4. Click [MEAS] and adjust the position of reflector based on the guidance. If all the value becomes 0, the stake-outpoint is founded.



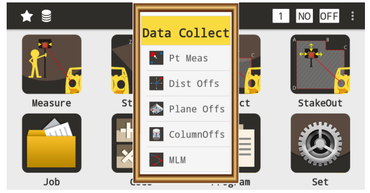

## Distance Offset

The distance offset calculates from the coordinate longitudinal, parallel offsets and height differences of the target point relative to the measured point.

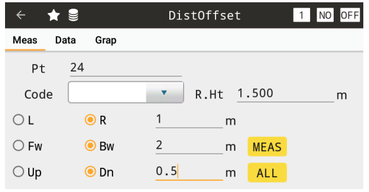



**Steps:**

1.Click [Collect] menu and select [Dist Offs].

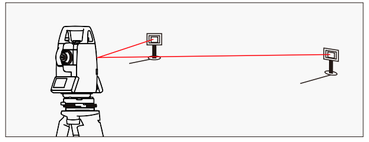



2. Aim at the reflector, input the offset value and press [MEAS]/[ALL] to calculate the coordinate of target.



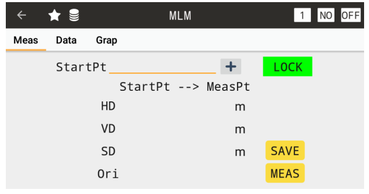

## MLM

The MLM is used to measure the SD/HD/VD and azimuth of two target points. For example, the measure between high-voltage towers.



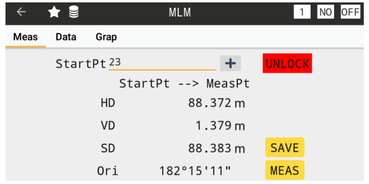
**Steps:**

1.Click [Collect] and select [MLM]. Select the start point from memory or entered by manual.
Press [LOCK] or [UNLOCK] to calculateby Radial (A-B, A-C) or Polygonal (A-B, B-C)



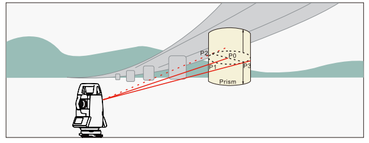

2.Aim at the second point, click [MEAS] to check the HD/VD /SD and aizmuth between those two points.

3.Aim at the third point, repeat the steps to measure and save the data.




## Column Offset

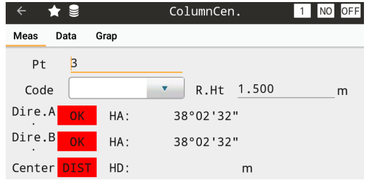
The column offset, is used to measure the coordinate of column center.




**Steps:**

1.Click [Collect] and select [Columnoffs].

2.Aim at one side edge of the column as Direction A, click [OK]

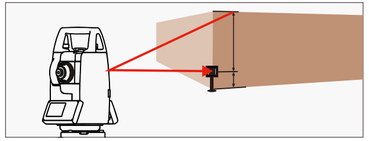



3. Rotate the EDM to the other side edge as Direction B, click [OK]

4. At last, aim at the center of column, click [DIST] to get the coordinate of column center.

## REM

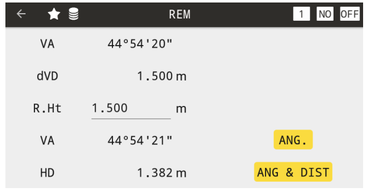
Points directly above the prism can be determined without a prism at the target point. In the power industry, REM is used to measure the height of transmission cable.



**Steps:**

1.Click [Collect] and select [REM]

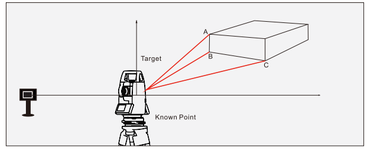
2.Input the prism height. Aim at the prism and press [ANG& DIST] to calculate the VD, VA and HD.




3. Rotate the EDM vertically to the target point, dVD shows the height directly.

## Volume

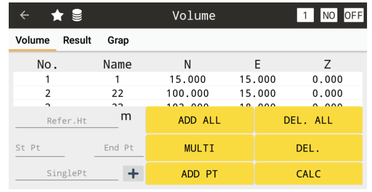
The calculated area is projected onto a reference plane defined by 3 points.



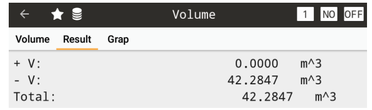

**Steps:**

1.Click [COGO] and select [Volume]

2.Add points into the list, selected from the memory or entered by manual, max 200 points

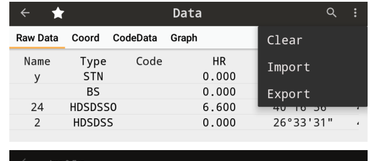


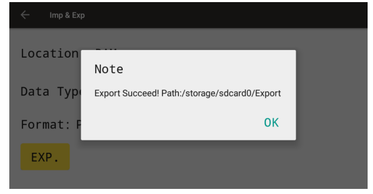

3. Click [CALC] to calculate, [Grap] for graphic data.




## Import & Export

In data manage, click the buttom on the right corner to clear, import or export the data.

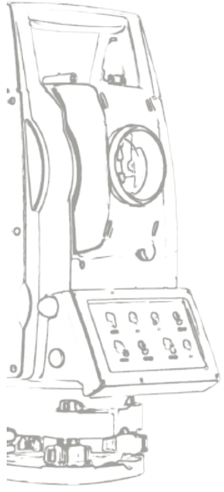



SOUTH
Target your success

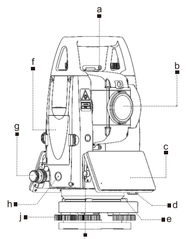
# Quick Guide

## A1 Android Total Station

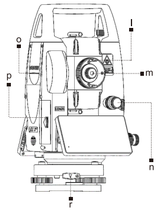


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## Structure



a Collimator
b Objective Lens
c Display Unit
d T/P Sensor
e Circle Bubble
f Battery
g Horizontal Tangent
h Trigger Key
j Leveling Screw
k RS232 Port



l Focusing Ring
m Eyepiece
n Vertical Tangent
o Central Mark
p Comm Port
r Tribrach Lock

*Available for A1 Android Total Station Only

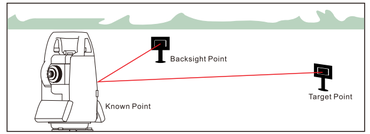
## Main Menu




- Quick-Set: including the setting of laser pointer, PPM, target, tilt sensor, measure mode and laser plummet.
- Data: including raw data, coordinate data, code and graphic data.
- Measure Mode: N times, continuous or tracking
- Target: Sheet, prism or non-prism mode.
- Electric tilt-sensor: X-axis, XY-Axis or close the tilt-sensor.
- Other information

## Station

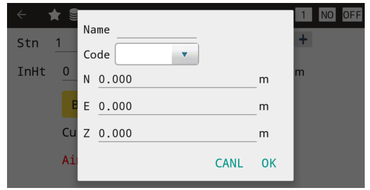
Set station to confirm the coordinate system.



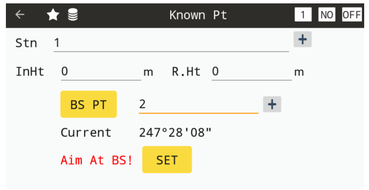

**Steps:**

1.Click [Station] and select [Known Pt].

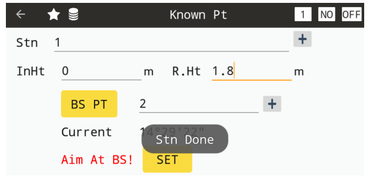
2.Input the point nameof STN, click + selected from memory or entered by manual.




3.Input the point name of backsight, click + to select.

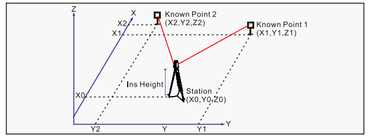



4.Input the instrument height and reflector height, click [SET] to finish the station settle.



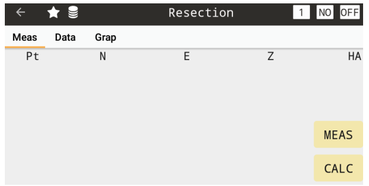

## Resection

The "Resection" function, also known as Free Station, is used to determine the instrument position from measeument to a minimum of two known points.

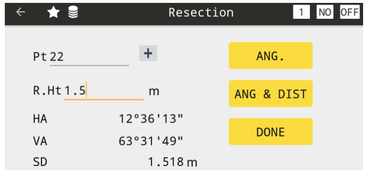



**Steps:**

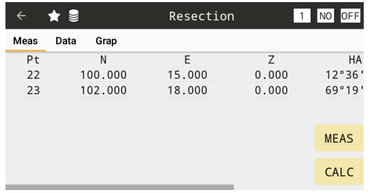
1.Click [Station] and select [Resection].



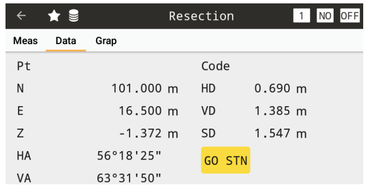

2.Click [MEAS] to input and measure the known point. Aiming at the target, and click [ANG&DIST] to measure the first known point. Then click[DONE] to the next point.



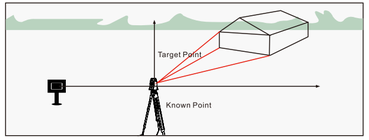

3. Repeat the steps for the further points. Click [CALC] to calculate.




4. Click [GO STN], input the station name. Aiming at the last point and click [SET].

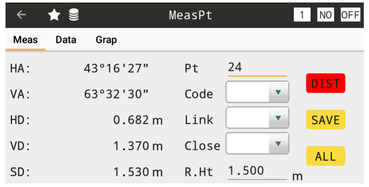



## Data Collect

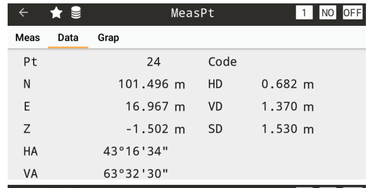


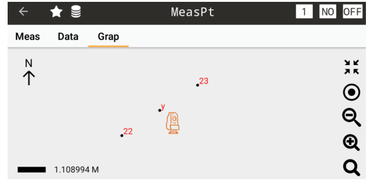

**Steps:**

1.Click [Collect] menu and select [Pt Meas].Aiming at the target and click [DIST] to measure the HA/ VA/ HD/ VD/ SD of the target.

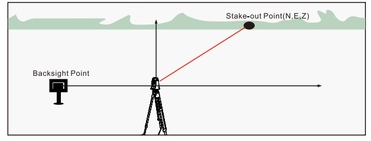



2. [Data]/ [Grap] to check the detail information.




## Stake Out




**Steps:**

1.Click [StakeOut] menu and select [Pt S.O].

2.Click + to selected the coordinate from memory or entered by manual.

