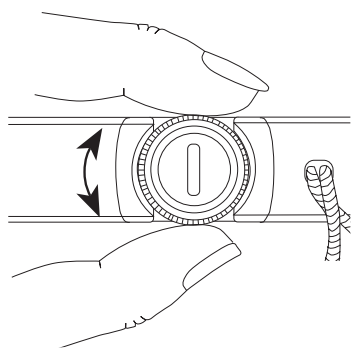


1. ADJUST FOCUS (1)

- 1. Close one eye and look through optics.
2. Turn optics knob until numbers are clear.



NOTE: For best viewing, the oval-shaped aperture should be aligned with the sighting line (vertical or horizontal, depending on device).

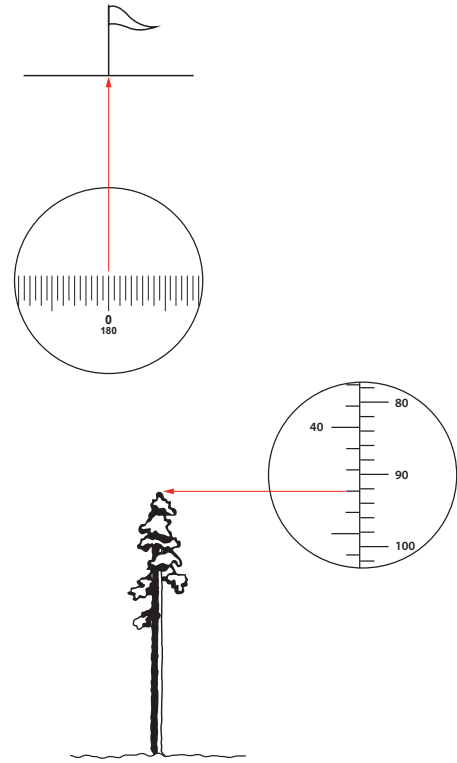
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KB-14 PM-5 TANDEM

2. OBTAIN READING (5)

- 1. Keep both eyes open and look through optics towards target object.
2. Read value from sighting line.



Compass (KB-14, Tandem): main scale is the bearing from you to the object. Depending on your model, the secondary scale is the bearing in a different graduation or the reverse bearing from the object to you.

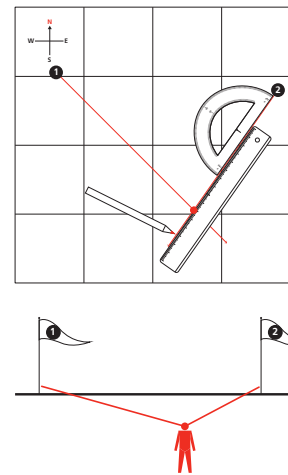
NOTE: If you have adjustable declination, sight from adjusted sighting line.

Clinometer (PM-5, Tandem): scale(s) shows vertical angle and/or height. If unsure of scale type, move instrument up or down to find indicator.

KB-14 PM-5 TANDEM

3. LOCATE OWN POSITION BY TRIANGULATION (11)

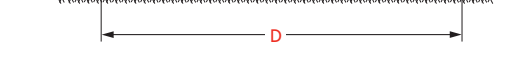
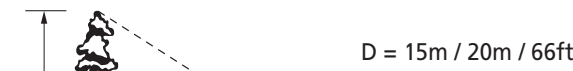
- 1. Take reverse bearing of at least two objects visible from your viewpoint and indicated on your map.
2. Using a protractor and straight line tool, draw lines on map from position of objects according to measured bearings.
3. Estimate your current position based on where the lines intersect.



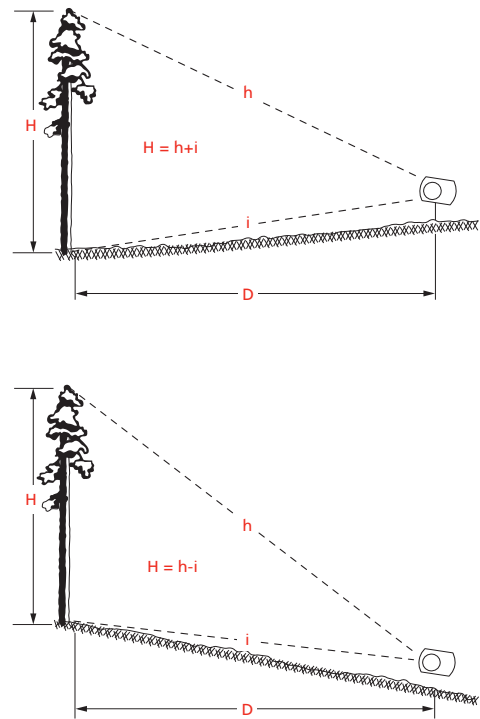
KB-14 TANDEM

4. MEASURE HEIGHT WITH FIXED DISTANCE SCALE (15m, 20m, 66') (15)

NOTE: Only applies to models with 15, 20 or 66 in the name.



NOTE: If horizontal distance (D) cannot be measured due to sloping ground, use a nomogram for calculating height.

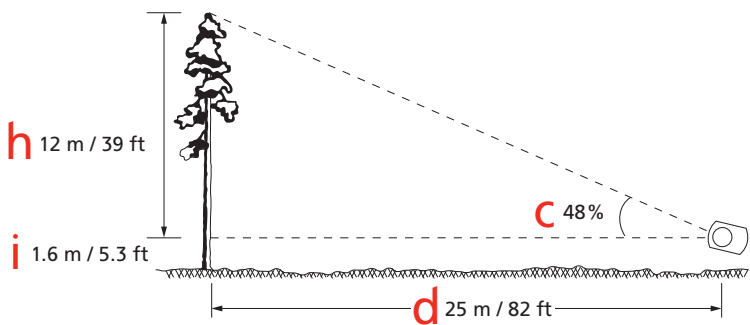


5. MEASURE HEIGHT FROM VARIABLE DISTANCE USING PERCENTAGE SCALE (21)

PM-5 TANDEM

NOTE: Only applies to models with PC in the name.

- 1. Measure distance to object.
2. Take angle reading (c) to top of object.
3. Calculate measured height (h).
4. Add your height at eye level (i) to get total height (H) of object.



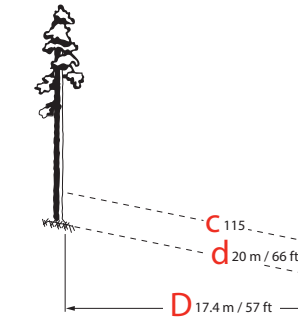
6. MEASURE HORIZONTAL DISTANCE WITH SECANT SCALE (27)

PM-5 TANDEM

NOTE: Only applies to models with S in the name.

- 1. Measure slope distance (d).
2. Take secant reading (c) to top of object.
3. Calculate horizontal distance (D).

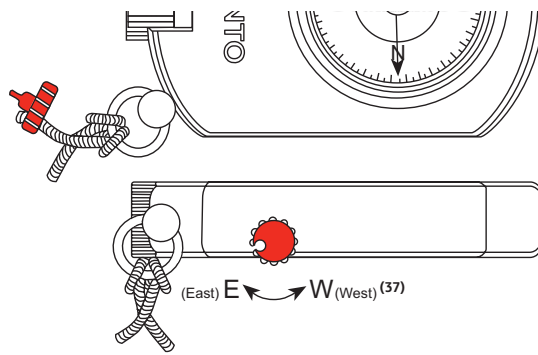
NOTE: Suunto secant scale is x100, so secant in this example is 1.15.



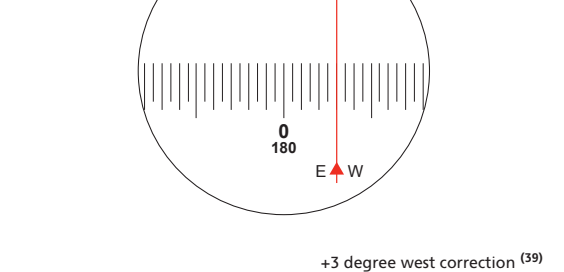
7. SET DECLINATION CORRECTION (33)

NOTE: Applies to D-models only.

- 1. Check local declination from your map or trusted website.
2. Insert declination adjustment tool into opening on the side of your instrument.



NOTE: If horizontal distance (D) cannot be measured due to sloping ground, use a nomogram for calculating height.



8. DETERMINE A SPACE-ANGLE (41)

TANDEM

- 1. Sight known bearing of satellite with compass and check desired clearance east and west of bearing.
2. While maintaining bearing, sight known angle (inclination) of satellite with clinometer and check desired clearance on both sides of angle.

TIP: The same procedure can be used for solar panel alignment, mobile network equipment installation, outdoor lighting arrangement for filming and photography, cave mapping, etc.

9. CARE AND MAINTENANCE (45)

Use only water and mild soap for cleaning.

To clean optics, unscrew optics knob until it comes completely out. Rinse interior cavity with water. Remove dust and excess water with cotton swab.

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zh 简体中文

1 调整焦距
2 将另一只眼睛并透过光学器件观察。
3 旋转光学器件旋钮。直到数字变得清晰。
4 注意：为了达到最佳观察效果，椭圆形小孔应对准视线（取之于设备或，为垂直或水平线）。

zhtw 繁體中文

1 調整焦距
2 將另一隻眼睛並透過光學器件觀察。
3 旋轉光學器件旋鈕。直到數字變得清晰。
4 注意：為了達到最佳觀察效果，橢圓形小孔應對準視線（取之于設備或，為垂直或水平線）。

ko 한국어

1 초점 조정
2 한쪽 눈을 감고 광학 장치를 바라보고 관찰하십시오.
3 숫자가 선명해 보일 때까지 렌즈를 돌리십시오.

th ไทย

1 ปรับโฟกัส
2 ปิดตาข้างหนึ่งแล้วมองผ่านเลนส์และสังเกตตัวเลขที่ชัดเจน
3 หมุนปุ่มปรับโฟกัสจนกว่าตัวเลขจะชัดเจน

id BAHASA INDONESIA

1 MENYESUKAKAN FOKUS
2 Tutup satu mata dan lihat melalui optik.
3 Putar knob optik sampai angka terlihat jelas.

tl TAGALOG

1 ISAWY ANG FOKUS
2 Ibigat ang isang mata at tumingin sa optics.
3 Ibigat ang pagtatama sa declination mula sa iyong mapa o ginagamit na website.

ja 日本語

1 焦点を合わせる
2 片方の目を閉じて、レンズを通して観察します。
3 数字がはっきりと見えるまでレンズを回します。

