

MEASUREMENT

Measuring Horizontal Angle Right and Vertical Angle

1 Collimate the first target "A".

V	90°10'20"
HR	120°30'40"

2 Press the [0 SET] key twice to set the horizontal angle of target "A" at 0° 00' 00".

V	90°10'20"
HR	0°00'00"

- One time pressing [0 SET] function is available. Refer to "6 SELECTING MODE".

3 Collimate the second target "B".
The required H/V angle to target B will be displayed.

V	92°10'20"
HR	160°40'20"

Switching Horizontal Angle Right / Left

1 Collimate the first target "A".

V	90°10'20"
HR	120°30'40"

2 Press the [R/L] key.

The mode Horizontal angle right (HR) switches to Horizontal angle left (HL)

V	90°10'20"
H L	239°29'20"

- Every time pressing the [R/L] key, HR/HL mode switches.

3 Measure as HR mode.

Measuring from the Required Horizontal Angle

- 1 Display the required horizontal angle using the horizontal motion clamp and horizontal tangent screw.

V	90°10'20"
HR	130°40'20"

- 2 Press the [HOLD] key.

The display of horizontal angle blinks and the horizontal angle will be held.

V	90°10'20"
HR	130°40'20"

blinks

- To return to the angle status before the data is held, press any key except the [HOLD] key.
- 3 Collimate the target to set.
 - 4 Press the [HOLD] key. The angle measurement will start from the held angle.

V	90°10'20"
HR	130°40'20"

Vertical Angle % display

V	66°23'10"
HR	120°30'40"

- 1 Press the [V/%] key.

V	43.719%
HR	120°30'40"

- Every time pressing the [V/%] key, the mode switches. When the measurement is carried out over than 45° from the horizontal, the display shows [-----].

Repetition Angle Measurement

1 Press the [FUNC] key.

V	90°10'20" ^F
HR	120°30'40"

2 Press the [REP] key.

Ht	0°00'00"
0	
H	

3 Collimate the target "A", and press the [0SET] key twice.

Ht	0°00'00"
0	
H	

4 Collimate the target "B", and press the [HOLD] key.

Ht	45°10'00"
1AVG	
H	45°10'00"

5 Recollimate the target "A" and press the [R/L] key.

6 Recollimate the target "B", and press the [HOLD] key.

Ht	90°20'00"
2AVG	
H	45°10'00"

The number of measurements Average of angle

2 measurements

- 7** Repeat the procedure **5** and **6** to measure the desired number of repetition.

Ht	180°40'00"
	4AVG
H	45°10'00"

Example: 4 measurements

- 8** To finish the repetition measurement, press the [FUNC] key and press the [HOLD] key.

- When the discrepancy value of each measuring is more than $\pm 30''$, the error code "E04" is displayed. Press the [0SET] key, and measure from the beginning.

VIDEO LINK:

<https://youtu.be/mSNpCPrp2UI>

Note: When the telescope is pointed upward, vertical angle is 0° and when the telescope is horizontal, the vertical angle is 90°