

- Press and hold ION/OFFI button. Release [ON/OFF] butoon when he full character display appeas. The LCD displays:

|  |  | SET0 <br> 150 <br> $0^{\circ} \mathrm{C}$ |  |
| :---: | :---: | :---: | :---: |
| - Move the etescope up and down when the instrument is at the normal position. The beeper beeps and the LCD displays the vertical angle. The instrument enters into measuring mode. |  |  |  |
| - After the power is swithed on and the instrument has entered into measuring mode, the battery level is indicated by the battery symbol in the lower right corner of LCD. |  |  |  |
| - If all of the trre squares are diphayed, the baterey is fully charged. |  |  |  |
| - Decreasing squares indicates reduction of charge. <br> - If the battery symbol blinks, the battery is low and needs recharging or replacing. |  |  |  |
|  |  |  |  |
| $\begin{array}{\|lll\|} \hline V & 86^{\circ} 28^{\prime} 48^{\prime \prime} & \\ H^{\prime \prime} & 150^{\circ} 36^{\prime} 10^{\prime \prime} & \square \\ \hline \end{array}$ |  |  |  |

Insallation and Remoral of the Baxic

Base Remoral
Turn he screw on he Tribrach Locking Levere ouruard using a fat screw divier to ois stop. - Turu Tribrach Locking Lever $180^{\circ}$ " counterlockwise. Holding the base with one hand,
take the main body of the base. Base Insalataion
-Turn he Tribrach Locking Knob counterclockwis unili it reaches the position limit. Align the positioning block on hhe main body of the instrument to the nocth on the base.
Insall the main body onto the base.
Turn the Tibrach Locking Lever clockwise undil it reaches the position linit so that the


Knob
Nocth

Measurement of Angle
The norvin the Normal" and "Reverse" Positions of the Telescope
 her right. The mechanial eroros can be offser by y veraging the values measured in the
oorma and reverse p posio Normal


Measurement of Vertical Angle

- $0^{\circ}$ angle position can be seta s follows in the initial seteting:


NSPECTION
Tubular vial
Atach the instrument toa atripod and rough hevel. Position hhe tubular vial parallel to a line connecing any wwo of the three eleving
scervs so that he thuburar buble is entered.

- Turr the instrument $180^{\circ}$ and check if the bubble remains a t he center.

- If the bubble remins
adiustmens as follows:

Using the bubble adiustment screvss, move the bubble towards the whe ceneer for balf he error

- Turr the le
cencered.
- 


Gircle vial
 screws wifh a needle to co center the b bubble.


Opicial Plummet

- Atach the theodditie toa tripod (no leveling is required).
- Place a argec under the instrument.
- Focus the imgag of the target then adjust the eleveling screws so that the target is centered
- Turn the instrument $180^{\circ}$.

If the earget remains ac he cenere of the reciculle, no adjussment is required. Otherwise,
adiusta follows.

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## Collimaioon Error

Attach the instrument on a tripod and precisely level.

 Collimaion Error C $=$ (HR-Direct - HR-Reverse $\pm 180^{\circ} / 2$
If $C<10^{\circ}$, no adjusment is sequired. If $\subset>10^{",}$, he following djusumment is required: Adjust the horizonal fine motion in the reverse position of the celeccope so that the reverse
reading $H R-R e v=H R-R e v+C$.
 Repaat the steps nuili accepabale condition is seached.


Attach the instrument on a a tipod and precisely leve.

- Aim at any bject, point P , in the normal position and ake the reading of vericial angle-
V -Direct.
- Turn her elescope to the reverse position and aim it at point P Pagain. Take the reading of -If $\mathrm{V}\left(\mathrm{V}\right.$-Diect +V -Rever) $-360^{\circ}=\leq 15^{5}$, no adjussment is s required. Otherwise, perform adjusmenta as follows:
-20 -
- Unscrew the opicial plumnet protective cover ring $\qquad$ - Using the adjustment sceres for the
Note: use the nedede (as shown b blow).
-Repart he above seps unil the target coincides widh he center


Turring Off.
$\qquad$ "Off" will be displayed, feter beep;
relese ION/OFFJ buton, the instumen
$150^{\circ} 36^{\prime} 10^{\prime \prime} \quad$ release 1 ONON
is urned OFF.
Measuring Distance Using the Sadia Method
Read the leveling rod using the stadia hair on the reticule of the celescope. Multiply the


$-20$
Pependicularity of Verical Crosshai of Recicule of Telescope
- Atrach the instrument on a tiripd and precisely level
- Place a argect point, A, 50M anay foom instrument.
- Aim the e elescope a a poin $A$. Move hhe e elescope wing the vericial fine movement. If Perform the following adiusmentif fhe point A strays foom the vericicl croschair
 - Remove che protet.
Turn
adijutingseng scewss.

Repeat the above steps unil there is no erro

| Display | Meaning and remedy |
| :---: | :---: |
| E01 | Count eror, if displyyed repeatedy, repari is needed |
| TOO FAST | The telescope or collimation unit rotated too fast, press any key except [on/off] and [ ${ }^{*}$ ], the instrument recturns to normal state |
| E04 | Horionala sensor I eroo, epair is needed. |
| E05 | Horizonal sensor II error, repari is needed. |
| E06 | Verical sensor error, זepair is needed. |
| TILT | The tilt sensor is out of range. Level the instrument again. If this does not clear the error code, repair is needed. Note: For a mery solution the tilt sensor can be turned off |

[^0]
[^0]:    Due to our policy of coninuuus improvene.
    and specifiction without prior noification.

