

## Instructions for KIT 1

### SET-UP AND OPERATION OF EDM

(Electromagnetic Distance Measurement)

#### Vertical Jumps

- i. **Preliminaries:** Ensure all batteries are put on charge well before the meeting.

#### 1. For High Jump and Pole Vault

- a) **Location:** Must give a clear and complete view of the bar. For Pole Vault centre of runway is best, and high jump centre behind fan.

- b) **Assembly and Levelling:**

- i. Ensure tripod is set firmly into the ground at a convenient working height for all users with top plate as level as possible (use spirit level).
- ii. Fit tribrach, making sure securing screw is tight and base cannot move.
- iii. Level Tribrach, use two foot screws to centre bubble between them then adjust remaining screw to centre bubble in bubble-level.
- iv. Fit geodimeter on tribrach (power socket goes in recess), lock tribrach in place.
- v. Adjust for parallax - hand in front of telescope and check hairlines are sharp, adjust lens as necessary.
- vi. Connect external batteries or mains power source (if used).

**TO POWER SOCKET ON TRIBRACH, NOT KEYPAD.**

- c) **Setting up the Instrument:**

- i. Turn power on.
- ii. Either press **YES (enter)** to continue if already set up or **NO (←)** for machine to go to set up.
- iii. Check level on display - if necessary carefully adjust on tribrach foot screws to centre both index marks [*Prolonged adjustment will force return to c) i.*], and press **ENTER (Yes)**.
- iv. Machine will perform self checks and rotate around then rotate back again.

**Note:**

- v. Enter approx. temperature, press **ENTER (Yes)** (*it may be necessary to press 'ENTER' twice*).
- vi. Enter approx. atmospheric pressure, press **ENTER (Yes)** (*it may be necessary to press 'ENTER' twice*).
- vii. Enter prism constant (Zero for our prisms), press **ENTER (Yes)** (*it may be necessary to press 'ENTER' twice*).
- viii. Enter horizontal component (00.00.00), press **ENTER (Yes)**.

- ix. Press **PRG 0**, then enter.
- x. Enter approx. temperature, press **ENTER (Yes)**
- xi. Enter approx. atmospheric pressure, press **ENTER (Yes)**
- xii. Enter prism constant OFFSET = 0.000, press **ENTER (Yes)**
- xiii. Enter horizontal component (00.00.00), press **ENTER (Yes)**.
- xiv. Set prism at the back of the box for pole vault, or on the ground under the centre of the bar for high jump.
- xv. Sight on the prism, take the measurement by pressing **A/M**.
- xvi. **Leave the instrument locked in position and only vertical direction from now on.**
- xvii. Press Enter key until screen shows HA:,HD:,VD:.
- xviii. Sight on the ground, back of the box or under the middle of the high jump to set the zero height.
- xix. Press MNU key, Then Press 1 SET, Then Press 2 PRESET, Then Press 2 ROE.
- xx. Enter ROE of 0.000 and press ENTER.
- xxi. To check the height sight on the top of the bar vertically above the point on the ground. Do not attempt any adjustments of the instrument in a horizontal direction and do not attempt to take any measurements.
- xxii. Use the VD reading as height measurement.