

Electronic Distance Measurement (EDM) using Leica Disto E7500/E7500i

Get familiar with the laser prior to use. The Disto manual is available at:

https://shop.leica-geosystems.com/sites/default/files/2019-03/leica-disto-e7500i-user-manual_792320_us.pdf

- 1) Setup tripod to appropriate height and ensure it's level.
- 2) Determine which tripod setup will be used.
Option 1 (often used to measure from a throws circle) uses center downrod. No offset required for a circle. 8.0m offset for javelin.
Option 2 uses two back legs of the tripod. Measure a known distance using a steel tape and mark it as a reference. Subtract the measured distance from the known distance to determine offset and enter into the Disto as a negative number.
- 3) Use Pythagorean function of the Disto to get true horizontal distance. Caution: red triangle in display means you are measuring the straight-line distance from the Disto to the reflector.
- 4) Rules for measuring are the same as when using tape measure. Always measure through center of circle or 8 meters behind javelin foul line. For horizontal jumps, measure perpendicular to the takeoff board.
- 5) For best accuracy, shoot down and use Pythagorean function. Avoid shooting chest high.
- 6) Use reference distance during competition before and after each flight and finals to verify accuracy.