



electronic distance measurement



LaserLynx is a powerful laser-based measuring device linked by state-of-the-art Lynx software to a Palm hand-held computer. The resulting product is in a class by itself. Never has distance measurement in a track and field environment been so accurate, or so easy, or so affordable.



In addition, because all the measurements are computer generated, information can be converted between metric and US units and shared effortlessly with scoreboards, infield displays, databases and even with announcers. With the addition of SerialLynx to the system the LaserLynx equipment can also share information with all these components wirelessly.

- **Fast** 10 minute equipment setup.
- **Accurate** Exceeds all required standards (Pro).
- **Simple to Use** One touch measurement.
- **Powerful** Links to scoreboards and databases.
- **Portable** Runs on rechargeable batteries.

operational simplicity ~ measures at the touch of a button...

To measure a throw all the LaserLynx operator needs to do is sight on the LaserLynx prism, held at the point of impact by the Measurement Official, and tap the ACQUIRE button on the FieldLynx unit. Instantly the athlete's Performance is computed and displayed on the screen.



1. Prior to the event, the LaserLynx unit is setup adjacent to the throwing area and leveled.

The position of the LaserLynx unit relative to the center of the throwing circle/arc is established.



2. After each throw, the Official marking the throw places the LaserLynx prism at the *point of impact* closest to the throwing circle/arc.



3. Using the built in telescopic sight, the LaserLynx operator aligns the unit on the prism held by the marking official.



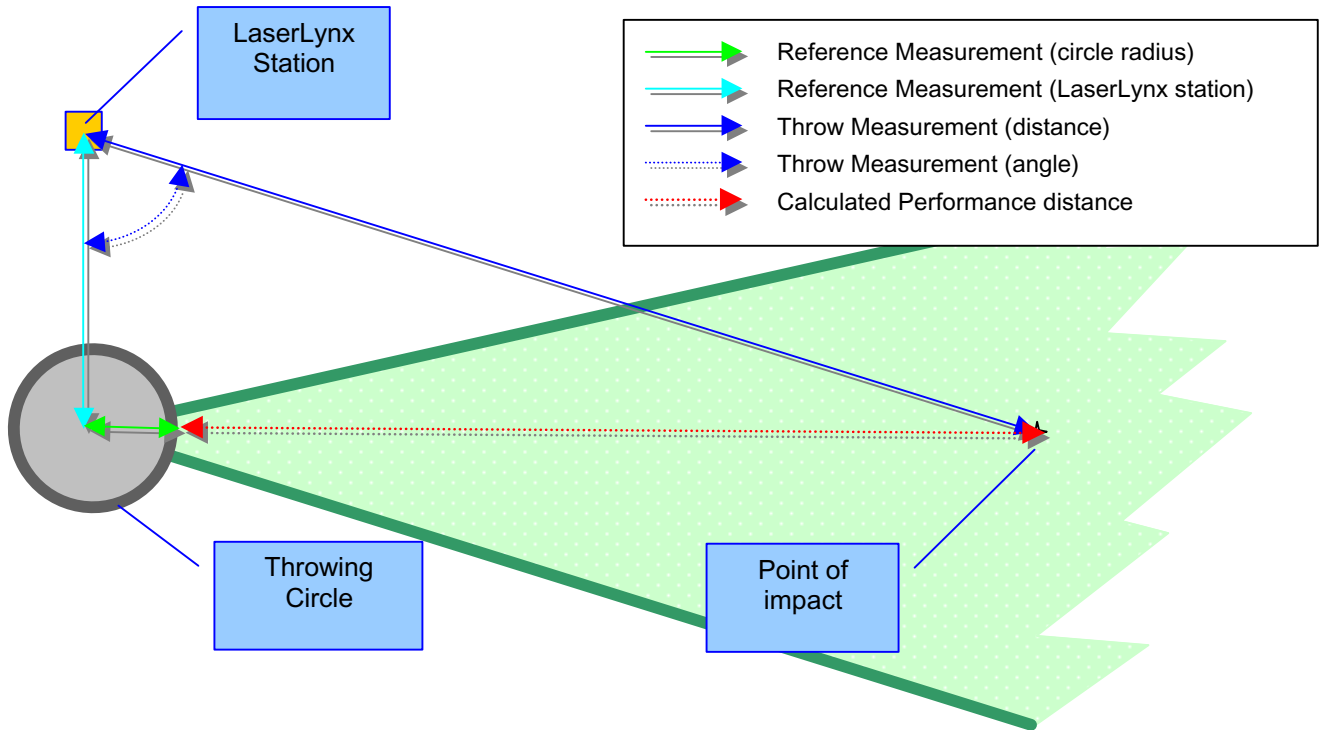
4. When the LaserLynx prism is at the center of the crosshairs, the operator taps the acquire button on the FieldLynx unit and the athlete's performance is calculated.

How it works.

Geometry has established that given an accurate measurement of two sides of a triangle, and an accurate measurement of the angle between these two known sides, it is possible to compute the length of the third side.

By incorporating the radius of the throwing arc or throwing circle into the calculations that it does, LaserLynx is able to accurately measure an athlete's performance without venturing into the throwing area to make the measurement.

An athlete's performance is computed as shown below in the diagram by using data that was entered prior to the start of the competition – the LaserLynx Station Reference Measurement (shown below), and the radius of the throwing circle.



| Specifications: | LaserLynx | LaserLynx Pro |
|------------------------------------|------------------------|-----------------------|
| Set up time | 10 Minutes | 10 Minutes |
| Distance Accuracy | 5.5mm @ 100 meters | 3.3mm @ 100 meters |
| Angular Accuracy | 20" standard deviation | 5" standard deviation |
| Calculation Accuracy | ±1 ppm | ±1 ppm |
| Distance Range | 300 meters | 800 meters |
| Minimum angular count | 20" | 5" |
| Ambient temperature working range: | -10~+50 celsius | -20~+50 celsius |
| Eyepiece magnification: | 24 x | 30 x |
| Dimensions | 142mm x 303mm x 148mm | 162mm x 338mm x 154mm |
| Weight | 3.5 kg | 4.8 kg |