WHAT IS CLAIMED IS:

1. A method for determining a distance to a point using a measurement device, the method comprising:

aiming the measurement device at the point;

determining a tilt of the measurement device using one or more tilt sensors; and

computing the distance to the point using the tilt of the measurement device and a height of the measurement device.

2. The method of claim 1 wherein the distance is computed using the equation $d = \frac{h}{\tan\theta}$.

3. The method of claim 1 wherein aiming the measurement device comprises locating the point in an image on a screen of the measurement device.

4. The method of claim 1 wherein aiming the measurement device comprises aligning a portion of a real-time video display of the measurement device with the point.

5. The method of claim 1 further comprising inputting the height of the measurement device.

6. A method for determining a position of a point using a measurement device, the method comprising:

aiming the measurement device at the point;

determining a tilt of the measurement device using one or more tilt sensors;

determining a position of the measurement device;

determining a bearing of the measurement device;

computing a distance to the point using the tilt of the measurement device and a height of the measurement device; and

determining the position of the point using the position of the measurement device, the bearing of the measurement device, and the distance to the point.

7. The method of claim 6 wherein the distance is computed using the equation $d = \frac{h}{\tan\theta}$.

8. The method of claim 6 wherein the position is determined using a global positioning system (GPS).

9. The method of claim 6 wherein determining the position of the measurement device comprises using a global navigation satellite system (GNSS).

10. The method of claim 6 wherein the bearing is determined using an electronic compass.

11. An apparatus for determining a position of a point, comprising:

an aiming device configured to align the apparatus with the point;

one or more tilt sensors configured to determine a tilt of the apparatus while aligned with the point;

a position measurement device configured to determine a position of the apparatus;

a bearing measurement device configured to determine a bearing of the apparatus;

a first computing module configured to compute a distance to the point using the tilt of the apparatus and a height of the apparatus; and

a second computing module configured to determine the position of the point using the position of the apparatus, the bearing of the apparatus, and the distance to the point.

12. The apparatus of claim 11 wherein the aiming module comprises a camera.

13. The apparatus of claim 11 wherein the position measurement device comprises a global navigation satellite system.

14. The apparatus of claim 11 wherein the bearing measurement device comprises an electronic compass.

15. The apparatus of claim 11 wherein first computing device uses the equation $d = \frac{h}{\tan\theta}$ to compute the distance to the point.