

How to build a Digital Inclinometer

Sighting Scope; Bunnings:

https://www.bunnings.com.au/garden-rain-15mm-female-to-female-rural-poly-irrigation-coupling_p3111779

https://www.bunnings.com.au/garden-rain-15-x-150mm-poly-rural-irrigation-riser_p3111347

https://www.bunnings.com.au/garden-rain-15mm-rural-poly-irrigation-male-to-female-adaptor_p3111452

https://www.bunnings.com.au/paslode-20-x-1-25mm-100g-bright-bullet-head-nails-460-pack_p2360358



160mm Digital Level; eBay (~\$40) item no 191374983788 or 231996631914:

<https://www.ebay.com.au/itm/Digital-Box-Gauge-Angle-Protractor-Level-Inclinometer-With-Light-0-360/191374983788>

<https://www.ebay.com.au/itm/Digital-Box-Gauge-0-360-Angle-Protractor-Level-Inclinometer-With-Light/231996631914>



Assembly Instructions:

Hammer [20mm x 1.25mm nail](#) through [Poly Riser](#) just near the end of the thread at one end taking care to keep the nail in the centre of the tube to form a “*cross hair*” for sighting.

Screw the four poly components together in the above order with [Male to Female adaptor](#) at opposite end to nail “*cross hair*”

Align the ridges on the two [Female to Female poly fittings](#) so the ridges are equidistant either side of the vertical centreline of the tube when the nail “*cross hair*” is horizontal so it will seat appropriately on the digital level

Insert good quality Lithium 9v battery (~\$16) in digital level:

https://www.bunnings.com.au/energizer-9v-ultimate-lithium-battery_p4410353

Using [Black Electrical Tape](#), tape poly “*sighting scope*” on top edge of digital level ensuring “*cross hair*” nail is horizontal. Finish with [48mm Black Duct Tape](#) front and back (optional).