



# AccuScale® -DP SCALE BAR KIT

Use with DotProducts' DPI-8 for rapid, high-accuracy results

Our AccuScale-DP scale bar kit greatly improves scanning accuracy and convenience when paired with DotProduct's DPI-8 handheld 3D scanner. By integrating this artifact with the DPI-8's intelligent software (Phi.3D v2.1 or later), users can fully automate workflows that simplify data acquisition, improve frame registration and achieve better global accuracy.



Reference artifacts commonly help qualify 3D point clouds to assure scanners measure correctly. AccuScale-DP goes a step further to scale the point cloud more accurately than a scanner is capable by itself. Three 2-meter bars may be assembled to establish scale for x, y, and z. A positionable April tag on each end of each bar allows the DPI-8 scanner to automatically detect and assign the correct scale bar length. The April tags also double as "registration" targets to automatically stitch scan frames together.

When scanning in extreme environments, the bars' expansion or contraction is managed with input from a certified thermometer included in the kit. A watertight plastic case with foam insert protects the components.

The kit contains components to assemble two 2-meter horizontal bars (with removable plastic feet), and one 2-meter vertical bar with a repositionable rod which keeps the April tag off the ground. Additionally, scale bars may be assembled in different configurations to meet specific project needs.

## SPECIFICATIONS

**DotProduct System Requirements:**  
Phi.3D v2.1 or later

**Aluminum Tubing:** 1.25" diameter with stainless steel threaded end caps

**Length Uncertainty** with 95% confidence = 0.85mm for a 1.2 meter bar assembly + 0.13mm for each additional meter

**Finish:** Oil and stain resistant PVC jacket, black

**Plastic case with custom foam insert:**  
52" L x 13" W x 7" H  
(1321mm L x 330mm W x 178mm H)

**Approx Weight:**

Kit and Case: 37 lbs (17 kg)

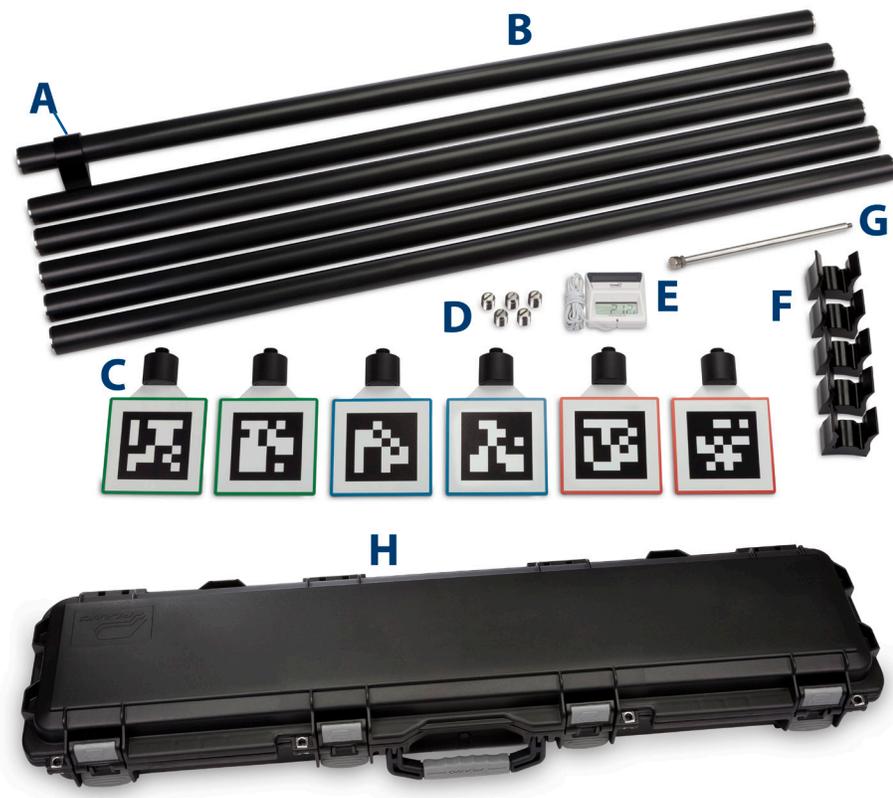
Shipping: 40 lbs (18.2 kg)



*Above:* A special "foot" on the vertical scale bar keeps the April tag off the ground, allowing the bar to lean against any vertical surface.

*Left:* Color coded April tags assure proper target pairings for each scale bar.





## ON THE INSIDE

The AccuScale-DP includes the following items, shown in the image left.

- A** Rod mount on vertical scale bar
- B** 1-meter aluminum tube with protective sleeve (6)
- C** April tags (6)
- D** Stainless steel connecting screw (5)
- E** Certified thermometer
- F** Removable foot (5)
- G** Vertical extension rod with swivel foot
- H** Case with custom foam insert



Scale bars may be assembled to establish scale for x, y, and z, as shown left, or in different configurations to meet specific project needs.

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