

400-8403 Pilot Balloon Theodolite

The **Model 400-8403 Double-Center Precision Theodolite** meets the requirements of Military Specification ML-474 and are designed to observe and measure angles of elevation and azimuth of pilot balloons and aircraft at any distance up to 20,000 meters under conditions of reasonable visibility.

The dual (or bent) axis type telescope combines a 21 power main telescope with a wide-angle 4 power main telescope which is viewed through one horizontal eyepiece for the observer's convenience. The detachable battery case, easily mounted on the instrument, holds two flashlight batteries (D cells) for the 3 volt illumination system.

Movement of both the elevation and azimuth scales is by positive micrometer worm drive. Tenths of degrees can be read directly from the graduation on the tangent screw drums. Movement of both elevation and azimuth scales is by positive worm drive, assuring that results are always accurate. This feature has proven successful through many years of service at thousands of installations throughout the world.

Specifications

Main telescope: Bent axis-type 21 power, 2° field of view
 42 mm dia achromatic doublet objective
 100' minimum focus
 40 mm effective aperture
 Resolves to 4 seconds
 Finder telescope: 4 power, 10° field of view
 17 mm dia achromatic doublet objective
 15 mm effective aperture
 Lens coating: Low reflective
 Length: 13.1"
 Reticule: Spider-web cross hair assembly
 Eyepiece: Four element achromatic
 0.074" dia exit pupil
 15/32" eye relief
 Soft, molded eye guard
 Sights: Fixed and folded

Ordering Information

400-8403	Pilot Balloon Theodolite
400-6950AS	Wide Frame Extension Leg Tripod
400-280-H	Haze Filter
400-284-S	Solar Shade