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## AUTOCOLLIMATING ALIGNMENT TELESCOPE -- D-271

The compact precision **Model D-271 Alignment Telescope** is rugged, versatile and easy to use. It aligns points along its optical axis to better than  $\pm 0.010$  up to 35 feet. Mechanical fixturing is made easily because the barrel is parallel to the optical axis. With the added feature of an autocollimator, reflective surfaces can be aligned perpendicular to the **Model D-271**. It focuses from 6 inches to infinity. In addition, the **Model D-271** has an autocollimating feature that permits it to be used as an autocollimator.



### Introduction:

The **Model D-271** is primarily an alignment telescope, which means that the optical line of sight of the telescope at any distance is an accurate extension of the axis of the outside cylindrical barrel or tube of the telescope. The telescope focuses from 6 inches to infinity. In addition, the **Model D-271** has an autocollimating feature that permits it to be used as an autocollimator. The light source sends a beam of light out of the objective in the form of parallel or infinite rays of light. When these light rays are reflected by a tilted mirror the angle through which the reflected beam is turned equals to twice the tilted mirror angle. However, the **Model D-271** has a built-in compensating factor that permits reading the exact angle of the mirror tilt. Specifically, if the mirror is tilted 1 arc minute, what the telescope reads is 1 arc minute instead of 2 arc minutes. The **Model D-271** comes complete with power pack and carrying case.

### Detailed Specifications:

<b>Eyepiece Magnification</b>		24X
<b>Focusing Range</b>		6" to infinity (focusing knob)
<b>Field</b>		3/4" at 1 foot, 3.5" at 5 feet, 12.0" at 15 feet
<b>Measuring Range</b>		1° at 1 ft and $\pm 10$ arc minutes at 5 ft.
<b>Reticles</b>	<b>Autocollimating</b>	Projects center dot with 1 arc minute ring graduations ( $\pm 30$ arc minutes)
	<b>Alignment</b>	Cross hairs with 0.0005" wide lines
<b>Light Source</b>		GE #328 lamp (2 spares included)
<b>115V Power Supply</b>		<a href="#">Model D-416</a> Power Pack, variable from 0 though 6 volts DC
<b>Barrel Material</b>		Hardened and polished Stainless Steel
<b>Dimensions</b>	<b>Length</b>	8.2"
	<b>Barrel Diameter</b>	1.500" (+.000/-0.002) concentric to optical axis
	<b>Aperture</b>	0.9"
<b>Carrying Case</b>		Finished Hardwood, Ethafoam fitted for instrument and light source
<b>Instrument Weight</b>		2 pounds
<b>Shipping Weight</b>		10 pounds

### Optional Accessories:

- [Model D-165](#) High Intensity Light Source. This option may be required when autocollimating off of low reflectivity surfaces or small mirrors.
- [Model D-212](#) Adjustable Stand
- [Model D-416B](#) 220V 50Hz Power Supply
- P/N

Video Camera & Monitor with integral camera power supply. With this option readings become very easy even for unskilled personnel. Repeat readings are more accurate and faster. The camera eliminates any errors from parallax and greatly reduces eye fatigue. This option is easily added to existing **Model D-271**'s. [105-2761-271](#)

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