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Find the *Newport 10GT04AR.14* at our website: *Click HERE*



Glan-Thompson Calcite Polarizer, 25.4 mm Diameter, 430 to 700 nm

MODEL: 10GT04AR.14

$958

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Overview

The 10GT04AR.14 Glan-Thompson Calcite Polarizer provides high purity linear polarization for broadband sources or multiple laser wavelengths. The large acceptance angle of this polarizer allows it to be used in highly converging or diverging beams. S-polarization is transmitted with Ts >90%, while p-polarization is reflected and absorbed into the housing. Our Glan-Thompson polarizers are fabricated from select-grade calcite prism pairs, cemented together and assembled into a black anodized aluminum housing. The cemented surface limits their use to lower power applications. The output polarization axis is clearly marked on the housing. The housing has been designed to mount into our standard 25.4 mm optic holders, rotary stages, and precision positioning components. This polarizer has Newport's AR.14 visible broadband antireflection coating with a 430 to 700 nm wavelength range.

**Calcite polarizers are made with natural crystals, and even in the best grade of calcite, there are embedded flaws which can not be corrected. The laser damage threshold value below was given for reference only and can not be guaranteed. **



(/f/glan-thompson-calcite-polarizers)

Product Series Overview

Glan-Thompson Calcite Polarizers (/f/glan-thompson-calcite-polarizers)

Technical Specs

Diameter	25.4 mm	**Diameter Tolerance**	±0.25 mm
Wavelength Range	430-700 nm	**Transmitted Beam Deviation**	<3 arc min
Material	Optical Grade Calcite	**Transmission**	T_s > 90%, polarized input, with AR coating for 430–700 nm
Extinction Ratio	100,000:1	**Acceptance Angle**	14°–16°, full angle
Damage Threshold	1 W/cm² CW, 0.1 µJ/cm² with 10 nsec pulses, typical	**Wavefront Distortion**	≤λ/4 at 632.8 nm over the full aperture
Surface Quality	20-10 scratch-dig	**Maximum Temperature**	90°C
Clear Aperture	10.0 mm		

Resources & Downloads

2D / 3D CAD Software

Download CAD Files

Drawings And Cad

GLANTHOM-S (/medias/sys_master/images/images/ha5/h41/8933932695582/GLANTHOM-S.pdf) (69.4 kB, PDF)

Related Products

Similar

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Compare	Description	Drawings, CAD & Specs	Avail.	Price
 (/p/10GT04)	**10GT04 (/p/10GT04)** Glan-Thompson Calcite Polarizer, 25.4 mm Diameter, Uncoated		In Stock	$897
 (/p/10GT04AR.18)	**10GT04AR.18 (/p/10GT04AR.18)** Glan-Thompson Calcite Polarizer, 25.4 mm Diameter, 1000 to 1550nm		In Stock	$958
 (/p/10GT04AR.16)	**10GT04AR.16 (/p/10GT04AR.16)** Glan-Thompson Calcite Polarizer, 25.4 mm Diameter, 650 to 1000 nm		In Stock	$958

Compatible

Compare	Description	Drawings, CAD & Specs	Avail.	Price
 (/p/GM-1RA)	**GM-1RA (/p/GM-1RA)** Gimbal Tip/Tilt Rotation Mount, Ø1 in., 100 TPI		In Stock	$432
 (/p/RSP-1T)	**RSP-1T (/p/RSP-1T)** 360° Continuous Rotation Stage, 1 in Aperture, Fine Adjust Knob, 8-32 and M4		In Stock	$217
 (/p/RM25B)	**RM25B (/p/RM25B)** Polarizer Rotation Mount, 25.4 mm, 2° Grads, 1° Sensitivity		In Stock	$85
 (/p/481-A)	**481-A (/p/481-A)** Rotation Stage, 360° Coarse, 5° Fine, Includes Micrometer, 8-32 and 1/4-20		In Stock	$337
 (/p/AG-PR100)	**AG-PR100 (/p/AG-PR100)** Agilis Piezo Driven Rotation Stage, 1 inch		In Stock	$792

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