

## Nd:YAG CRYSTAL

### WISOPTIC Capabilities of Nd:YAG

- Various options of Nd-doping ratio (0.1%~1.3at%)
- Various options of rods or slabs (flat, wedged, Brewster, grooved, etc)
- High optical homogeneity, high processing accuracy
- High quality coating, high damage threshold
- Very competitive price, quick delivery

### WISOPTIC Standard Specifications of Nd:YAG

Standard Doping Ratio	Nd%=0.1%~1.3at%
Orientation	<111> or <100> or <110>
Orientation Tolerance	+/-0.5°
Dimensions	Diameter: 2~15 mm, Length: 3~220 mm
Dimension Tolerance	Diameter ( $\pm 0.05$ ) $\times$ Length ( $\pm 0.5$ ) mm
Barrel Finish	Ground with 400# grit, or polished
Flatness	< $\lambda/10$ @ 632.8 nm
Surface Quality	< 10/5 [S/D]
Parallelism	< 10"
Perpendicularity	$\leq 5'$
Chamfer	0.15 $\pm$ 0.025mm @ 45°
Transmitted Wavefront Distortion	< $\lambda/10$ @ 632.8 nm
Clear Aperture	> 90% central area
Extinction Ratio	> 30 dB
Coating	AR-Coating: R<0.10% @1064nm
Laser Damage Threshold	> 800 MW/cm <sup>2</sup> for 1064nm, 10ns, 10Hz (AR-coated)

### WISOPTIC TECHNOLOGY