

Nd: YVO4 CRYSTALS

Nd:YVO4 is the most efficient laser host crystal for diode pumping among the current commercial laser crystals, especially, for low to middle power density. This is mainly for its absorption and emission features surpassing Nd:YAG. Pumped by laser diodes, Nd:YVO4 crystal has been incorporated with high NLO coefficient crystals (LBO,BBO,or KTP) to frequency-shift the output from the near infrared to green, blue, or even UV.



Specification	
Transmitting Wavefront Distortion	Less than λ/4 @ 633nm
Dimension Tolerance	[W ±0.1mm] × [H ±0.1mm] × [L +0.2mm/-0.1]
Clear Aperture	>90% central area
Flatness	$\lambda/8$ @ 633 nm, and $\lambda/4$ @ 633nm for thickness less than 2mm
Scratch/Dig	10 / 5
Parallelism	Better than 20 arc seconds
Perpendicularity	5 arc minutes
Angle Tolerance	±0.5°
AR Coating	R<0.2% at 1064nm,HR coating: R>99.8% at 1064nm,T>95% at 808nm