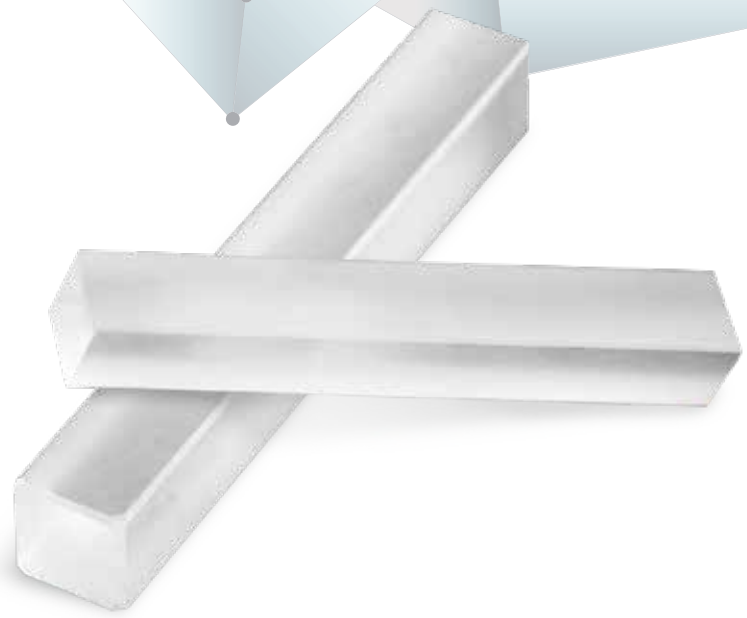
RAICOL CRYSTALS
An OXIDE company



KTP OPO
Crystals

KTP OPO (Optical Parametric Oscillator) is the most efficient material for converting 1064 nm wavelength laser to 1572 nm ("eye safe") and other wavelengths.

Advantages

- Aperture - up to 40x40 mm^2
- Length - up to 40 mm
- Available in Regular, Monolithic (Single and Double pass with Mirror coating), Plano-Plano and Confocal OPO configurations
- NCPM for eye-safe signal (1572 nm) No Walk-Off
- Efficiency of Monolithic OPO is 20-30% higher than a typical OPO
- Divergence of Laser with Confocal OPO is lower than Plano-Plano OPO
- Walk-Off Compensating design (WOC) available at 2.1µm

Common Applications

- Laser Range Finders (LRF)
- Laser designators
- LIDAR, space and other civil applications

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Typical Specifications for OPO 1064 to 1570 nm

Aperture	Up to 40x40 mm^2
Orientation	$\Theta = 90^o$ $\Phi = 0^o$
Absorption coefficient	$\alpha < 50$ ppm cm^{-1} at 1064 nm
Length	Up to 40 mm along X axis
Flatness	λ/10 @633nm
Optical wedge (polarization along Y axis)	10 arc sec.
Perpendicularity	10 arc min.
scratch/dig	10/5
AR coatings	dual band R < 0.2 %
Wave front distortion control	λ/4@633 nm
Guaranteed damage threshold	600 MW/cm^2 (with coating) at 1064 nm, for 10 ns pulses

Raicol Crystals, founded in 1995, is a global leader in nonlinear and EO crystal growth, fabrication, and assembly. Raicol offers a unique set of benefits to its customers:

- 50 years of experience in crystal growth
- Global pioneers of RTP, HGTR KTP, and PPKTP crystal growth and assembly
- A one-stop-shop, from crystal growth through to coating and EO cell assembly
- Mass production and small R&D volume capabilities
- Fast delivery times
- Unmatched crystal quality

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