

Laser & Nonlinear Crystals

Laser crystals with high-damage-threshold coatings, supplied in quantity to OEM and R&D customers, and nonlinear crystals for frequency doubling. Second-harmonic generation is a special case of sum-frequency generation with two identical input wavelengths; the simplest scheme is extracavity doubling, where the laser passes through the crystal once, while focused beams, intracavity doubling or an external resonant cavity are used to raise the power density on the crystal when the laser power density is low.

Coated laser crystals · standard product

Crystal	Doping	Size (mm³)	Coating
Nd:YVO4	1%	3x3x2	Coated for 1064 nm, 532 nm, 1342 nm, 671 nm laser as required.
Nd:YVO4	0.5%	3x3x5	Coated for 1064 nm, 532 nm, 1342 nm, 671 nm laser as required.
Nd:YAG	1%	3x3x2	Coated for 1064 nm, 532 nm, 946 nm, 473 nm laser as required.
Nd:YAG	1%	3x3x3	Coated for 1064 nm, 532 nm, 946 nm, 473 nm laser as required.

Frequency doubling crystals · standard product

Crystal	Size (mm³)	Coating
LBO	2x2x5	AR@1064nm&532nm/946nm&473nm/1342nm&671nm
LBO	2x2x10	AR@1064nm&532nm/946nm&473nm/1342nm&671nm
KTP	2x2x5	AR@1064nm&532nm
KTP	2x2x9	AR@1064nm&532nm
BBO	2x2x5	AR@1064nm/532nm/266nm
BBO	2x2x10	AR@1064nm/532nm/266nm