

碘酸锂单晶体是一种工业应用较早的非线性晶体，具有非线性系数大、抗辐射损伤、透光范围宽等特点，可在激光技术中用作产生二次谐波和参量振荡的介质，可用作中低功率激光的二、三倍频和混频使用，也可用来制造在航空、化工、冶金和石油工业中有广阔使用前景的窄脉冲、宽频带超声换能器。

Lithium iodate single crystal is a kind of nonlinear crystal with early industrial application. It has large nonlinear coefficient, radiation damage resistance and wide light transmission range. It can be used as a medium for generating second harmonic and parametric oscillation in laser technology. It can be used as a second, triple frequency and mixing frequency for medium and low power lasers. It can also be used to manufacture narrow pulse and wideband ultrasonic transducers with broad application prospects in the aerospace, chemical, metallurgical and petroleum industries.

## 主要特点 Features

- LiIO<sub>3</sub> 晶体产量大

The mass production of LiIO<sub>3</sub> crystal

- 对设备制造行业客户有吸引力的折扣

Attractive discounts for OEM customers

- 可以制作不同形状（切片，圆形，布鲁斯特端面） Different shapes (slabs, cylinders, Brewster ends) are available

- 标准开口环架

Standard open ring holders

- 重新镀膜和抛光服务

Re-coating and re-polishing service

- 可根据客户选择 AR, BBAR and P 镀膜

AR, BBAR and P-coatings according to customer's choice

- 泵浦优化的 P 膜

P-coatings optimized at pump wavelengths

- 波长调谐掺钛蓝宝石激光的 BBAR 镀膜

BBAR coatings for wavelength tuned Ti: Sapphire and other lasers



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性能参数:

Flatness	$\lambda/8$ @633nm
Parallelism	$\leq 20$ arcsec
Wavefront Distortion	$\lambda/8$ @633nm
Surface Quality	10-5
Perpendicularity	$\leq 5$ arcmin
Angle tolerance	$\leq \pm 0.25^\circ$
Dimension tolerance	$\pm 0.1$ mm
ClearAperture	90% of central area
Chamfer	$\leq 0.2$ mmx45°