

Process

From chemical synthesis to oven design to developing growth profiles specifically suited to each type of crystal. GAMDAN has focused on complete system and process in order to produce crystals of the highest quality.

- Chemicals of the purest quality
- Oven systems are custom designed to suit the growth profile of each type of crystal
- Ovens are constructed using the purest ceramic and aerospace material available in the industry to minimize ion contamination.
- Every compound used in our fabrication process is analyzed to avoid material contamination.
- Each product is individually inspected. Measurement is made upon request.



GAMDAN OPTICS

Products

- **LBO** (absorption < 1.5 ppm/cm), NCPM and/or cut with Brewster angles, dimensions up to 25 x 25 x 40mm, length up to 60mm
- **BBO**, for OPO, SHG, FHG, SFG. Large dimension for OPO, UV grade for deep UV with p- or AR coatings
- Z cut **BBO** Q-switch material >20mm in length
- **KTP** for OPO, GTR(Gray Track Resistant) KTP for SHG of 532nm.
- UV grade **KDP** and **DKDP**, KDP up to 300 x 300 x 60mm, DKDP up to 200 x 200 x 40mm, complete with AR coatings.
- Nd:YVO4 for intra-cavity applications.

Services

- X-ray orientation and cutting of LBO, BBO, KTP and other bulk crystal materials
- High quality polishing, rework services with quick turn around

LBO, BBO & KTP, fabricated in the USA.

Feature & Benefits

| Features | Benefits |
|---|---|
| Low absorption, tested to ppm resolution | High conversion efficiency, reliability in long operations |
| Homogeneity, $\lambda/10$ | Excellent beam quality, minimal distortion |
| Excellent surface finish | minimal laser damage, reliability |
| 100% QA | consistency |
| US fabrication | ITAR compliant, consistency, quality, on-time delivery |
| Drawings/specs kept strictly confidential | Confidentiality throughout the product development and production cycle |

2380 Qume Drive
Suite F.
San Jose, CA 95131
Phone: 408-318-9253
Fax: 408-519-3760
www.gamdan.com
Email: sales@gamdan.com

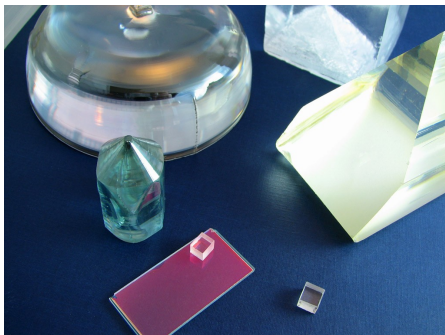
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Fabrication Specs

- clear aperture of 90% central area
- Orientation: $\leq 5^\circ$
- Transmitted wavefront $\lambda/10$ at 633nm.
- Flatness: $1/10$ at 633nm
- size tolerances: +/- 0.02mm.
- wedge angle: +/- $10'$
- parallelism: $< 10'$
- Perpendicularity: $< 5'$
- scratch/dig: 10/5, up to 5x5mm cross section of LBO, 0/0.
- Wedge: +/- 0.3°



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About Us

Since 2006, GAMDAN has been growing LBO, BBO of the highest quality in our facility in San Jose, California. Paired with full fabrication capability from X-ray orientation, cutting and polishing to final inspection and packaging, we offer exceptional LBO, BBO and KTP.

Our crystal technologist was a key member of the team that grew the first β -BBO crystal. Since coming to the US in the late 80s, she was responsible for building up successful growth operations in various well-known companies. The expertise of the GAMDAN technology team has resulted in highly efficient fabrication process, leading to high quality products.

With our streamlined production line and low overhead, we offer most competitive pricing for US-made, quality LBO, BBO and KTP.

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