

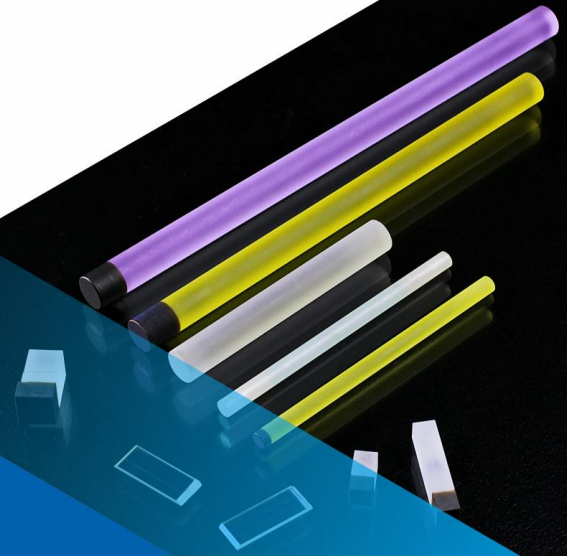


恒光光电
HGOPTRONICS

HG OPTRONICS INC.

www.hgoptronincs.com 

- Bonding Crystals
- Laser Crystals
- Nonlinear Optical (nlo) Crystals
- Passive Q-switch Crystals
- Magneto-optical Crystals
- Electro-optical Crystals
- Birefringent Crystals
- Windows



**SPECIALIZED IN CRYSTALS
FOR OVER 12 YEARS**

HG Optronics, INC. founded in 2008, is located in Fuzhou city of China. After untiring efforts over 12 years, HGO has been well recognized as a professional and reliable manufacturer of crystals and optical components.

PRODUCTS



BONDING CRYSTALS

1.SERIES OF PRODUCTS

- YAG+Nd:YAG+Cr⁴⁺:YAG, YAG+Nd:Ce:YAG+Cr⁴⁺:YAG, YAG+Yb:YAG+Cr⁴⁺:YAG
- YVO4+ Nd:YVO4+YVO4, GdVO4+Nd:GdVO4+GdVO4, YAG+Nd:YAG+YAG
- YLF+Nd:YLF+YLF, YLF+Pr:YLF+YLF
- YAG+Ho:YAG+YAG, YAG+Tm:YAG+:YAG
- Diffusion bonding for other crystals are also available.

2.SPECIFICATIONS

Flatness:	$\lambda/10@632.8\text{nm}$
Wavefront distortion:	$\lambda/10@632.8\text{nm}$
Surface Quality:	10/5 per MIL-O-13830A
Parallelism:	10"
Perpendicularity:	5'
Bevel/ Chamfer:	<0.1mm@45deg
Chips:	<0.1mm
Clear Aperture:	>95%
Quality Warranty Period:	One year under proper use

3.COATING: AR/HR/PR (IAD, EB, IBS)

4.DELIVERY TIME: 5-6 weeks

5.MAIN APPLICATIONS: Industrial laser; Biomedical laser; Beauty laser; High power laser system, etc

LASER CRYSTALS

1.SERIES OF PRODUCTS

- Nd:YVO4
- Nd:GdVO4
- Ti:sapphire
- Er:Yb:Glass,Er:Cr:Yb:Glass
- Nd/Pr/Ho/Tm/Yb YLF **new**
- Nd/Tm/Pr YAP
- Nd/Yb/Tm/Ho/Ce/CTH/ YAG

2.SPECIFICATIONS

Flatness:	$\lambda/10@632.8\text{nm}$
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Bevel/ Chamfer:	<0.1mm@45deg
Chips:	<0.1mm
Clear Aperture:	>95%
Quality Warranty Period:	One year under proper use

3.COATING: AR/HR (IAD, EB, IBS)

4.DELIVERY TIME: 3-4 weeks

5.MAIN APPLICATIONS: Industrial laser; Biomedical laser; Beauty laser; High power laser system, etc



NONLINEAR OPTICAL(NLO)CRYSTALS

1.SERIES OF PRODUCTS

- LBO
- BBO
- KTP
- KTA
- KDP&DKDP

2.SPECIFICATIONS

Flatness:	$\lambda/10@632.8\text{nm}$
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Surface Quality:	10/5 per MIL-O-13830A
Parallelism:	10"
Perpendicularity:	5'
Bevel/Chamfer:	<0.1mm@45deg
Chips:	<0.1mm
Clear Aperture:	>95%
Quality Warranty Period:	One year under proper use

3.COATING: AR/HR/P-coating (IAD, EB, IBS)

4.DELIVERY TIME: 3-4 weeks

5.MAIN APPLICATIONS: SHG, THG, FHG of lasers;
Ultrafast laser; Electro-optical Q-switch, etc



PASSIVE Q-SWITCH

1.SERIES OF PRODUCTS

- Cr⁴⁺:YAG Q-switch
- Co²⁺:MgAl₂O₄ Q-switch
- V³⁺:YAG Q-switch

2.SPECIFICATIONS

Flatness:	$\lambda/10@632.8\text{nm}$
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Surface Quality:	10/5 per MIL-O-13830A
Parallelism:	10"
Perpendicularity:	5'
Bevel/Chamfer:	<0.1mm@45deg
Chips:	<0.1mm
Clear Aperture:	>95%
Quality Warranty Period:	One year under proper use

3.COATING: AR/HR/PR (IAD, EB, IBS)

4.DELIVERY TIME: 3-4 weeks

5.MAIN APPLICATIONS: Passive Q-Switch



MAGNETO-OPTICAL CRYSTALS

1.SERIES OF PRODUCTS

- TGG Crystal
- TSAG crystal

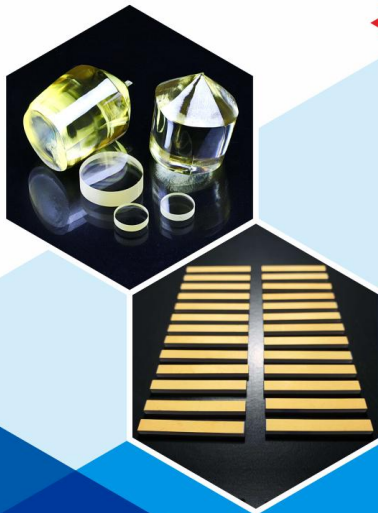
2.SPECIFICATIONS

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Wavefront distortion:	$\lambda/10@632.8\text{nm}$
Surface Quality:	10/5 per MIL-O-13830A
Parallelism:	10"
Perpendicularity:	5'
Bevel/Chamfer:	<0.1mm@45deg
Chips:	<0.1mm
Clear Aperture:	>95%
Quality Warranty Period:	One year under proper use

3.COATING: AR(IAD, EB, IBS)

4.DELIVERY TIME: 3-4 weeks

5.MAIN APPLICATIONS: Isolators.



BIREFRINGENT CRYSTALS

1.SERIES OF PRODUCTS

- YVO4
- LiNbO3, MgO: LiNbO3
- Calcite
- a-BBO

2.SPECIFICATIONS

Flatness:	$\lambda/10@632.8\text{nm}$
Wavefront distortion:	$\lambda/10@632.8\text{nm}$
Surface Quality:	10/5 per MIL-O-13830A
Parallelism:	10"
Perpendicularity:	5'
Bevel/Chamfer:	<0.1mm@45deg.
Chips:	<0.1mm
Clear Aperture:	>95%
Quality Warranty Period:	One year under proper use

3.COATING: AR/HR (IAD, EB, IBS)

4.DELIVERY TIME: 3-4 weeks

5.MAIN APPLICATIONS: Telecom industries; Isolator; Polarization devices, etc.



WINDOWS

SERIES OF PRODUCTS

- YAG, Sapphire, CaF₂, MgF₂ Windows



SPECIAL CRYSTALS

- **YVO4 Series:** Tm/Tm: Ho/Ho/Yb/Er YVO₄, etc
- **KGW Series:** KGW/Yb: KGW/Nd: KGW
- **KYW Series:** KYW/Yb: KYW/Nd: KYW
- GGG, GSGG, Nd:GSGG, Er:YSGG, Er:Cr:YSGG, Yb:Ho:YAG, LGS, LiTaO₃, etc



OTHER SERVICES

HGO also provides processing and coating service.

HG Optronics INC.

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COMPANY CAPABILITY

Crystal
growth



Cutting



Grinding



Mechanical
polishing



Manual
polishing



Coating



01 PRODUCTION

Extinction ratio
measurement system



Spectrophotometer



Vedio measurement system



Zygo



Double-tube
goniometer



02 INSPECTION

Outstanding quality control
and inspection abilities
combined with advanced
metrology equipments.