



Scientific diffraction gratings / Custom gratings

Blazed holographic plane gratings

Commitment to quality



HORIBA Jobin Yvon offers complete customer service, including expert technical advice for optimizing system configurations to meet customers' needs.

HORIBA Jobin Yvon is ISO 9001:2000 certified, and our well-staffed departments are committed to customer satisfaction and product quality.

Blazed holographic plane gratings

Blazed holographic plane gratings

HORIBA Jobin Yvon has produced a wide range of blazed holographic master gratings from which we manufacture high precision replicas.

Our replica gratings retain the advantages of our master holographic gratings:

- Perfect periodicity, plus excellent micro-roughness of the surface eliminates ghosts and enhances stray light rejection
- Minimal groove errors provide very high resolution

In addition, owing to their ion-etched, sawtooth groove profiles, these gratings offer higher peak efficiency than standard holographic gratings.

List of blazed holographic plane gratings

Ruled area: extends to within a 2-4 mm border around the grating edge

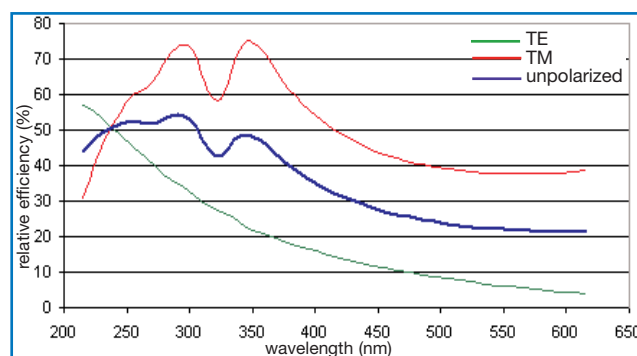
Standard substrate material is Pyrex; on request, substrates including fused silica, Zerodur, ULE, metals, or other materials can be considered.

Standard coating is aluminium. On request, AlMgF2, gold or platinum are also available for an additional cost.

groove density (l/mm)	spectral range (nm)	blaze (nm)	max replica dimension (mm)	reference
2400	190-700	250	120X140X20	530 13
2400	240-750	330	120X140X20	530 11
2400	300-800	400	110X135X25	530 15
1800	190-700	250	110X110X16	530 20
1800	250-900	400	110X110X16	530 18
1800	450-900	500	110X110X16	530 19
1200	190-1200	250	110X110X16	530 25
1200	240-1200	330	110X110X16	530 22
1200	360-1250	500	110X110X16	530 24
1200	400-1300	630	110X110X16	530 27
1200	500-1500	750	110X110X16	530 28
1200	600-1600	900	90X90X16	530 50
950	700-1700	900	110X110X16	530 60
900	700-1700	850	110X110X16	530 66
600	360-1250	500	90X90X16	530 29
600	700-1750	1000	110X110X16	530 34

Typical blazed holographic plane grating efficiencies

Efficiency curves



530 13, 2400 l/mm, 190-700 nm

NOTE:

These efficiency curves are absolute theoretical efficiencies, calculated using rigorous electromagnetic theory, taking into account the true groove profiles of manufactured gratings measured with an atomic force microscope (AFM).

These curves are for reference only and do not indicate grating specifications.

Grating size table

size code	blank size
020	25x25x8
050	34x34x10
070	30x40x10
080	44x44x10
090	40x60x10
330	50x50x6
110	58x58x10
120	68x68x9
140	76x76x16
150	90x90x16
160	80x110x16
180	110x110x16
190	110x135x25
200	120x140x20

FAX FORM

For more information or custom grating / mirror quotations, please complete the corresponding request info on our web site: www.jobinyvon.com or send this completed form by fax.

The personal details that we use to provide or promote our products and services (for example your name and telephone number), will NOT be passed to ANY organization beyond the HORIBA Group, its Subsidiary or Associate Companies, Agents or Distributors to be used for marketing purposes.

Your Contact Details:

Last Name:	First Name:
Title:	Organization:
Dept:	Address:
State/Province:
Country:	Postal Code:
(USA please include Zip)	
Telephone:	E-Mail:
Fax:	

Please keep me informed with up-to-date information.

Your Interest

My interest is:

- Information only Possible purchase I have funding I am applying for funds

I intend to purchase

- Now! Within 3 months Within 6 months Within 12 months More than 12 months

Salesperson please call

Please Send Product Information For:

Gratings & OEM

- Diffraction Gratings
 Pulse Compression Gratings
 OEM Spectrometers
 Imaging CCDs
 Multi Channel Imaging

Vacuum UV

- Monochromators & Spectrographs
 Mirrors
 Gratings

My Application is:

We would be interested in learning more about your application. Please give details below:

.....
.....

Comments

Please include any comments or further information about your requirement below:

.....
.....

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COMPANY PROFILE

HORIBA Jobin Yvon is one of the world's largest manufacturers of analytical and spectroscopic systems and components and we are committed to serving our customers with superior products and technical support.

Established in 1819, Jobin Yvon is part of the HORIBA Group which employs more than 4,500 people worldwide, with annual sales in excess of \$900,000,000.

HORIBA Jobin Yvon, Sofie, Dilor, Spex and IBH are some of our well known and respected brand names.

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