

HBS

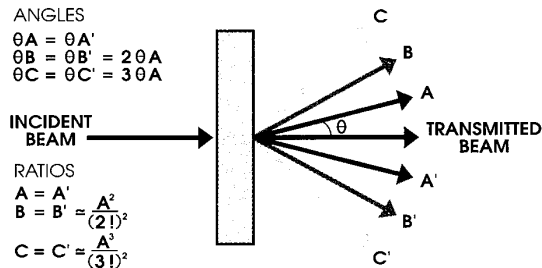
Here is tomorrow's solution for today's beam monitoring requirements. Whatever your application, Gentec has a Holographic Beam Sampler precisely engineered for you.

The HBS directly samples the transmitted beam in real time. Its ability to provide several very small, calibrated, spatially representative samples with minimum loss eliminates the need for time-consuming multicomponent sampling systems. Thanks to holographic recording technology and our unique etching process, the HBS possesses extraordinary sampling capabilities. Our chemically-assisted etching process also ensures that the finished product has the same high damage threshold as the bare fused silica substrate itself.

The HBS is a diffraction grating that produces three useful pairs of transmitted orders symmetrically disposed with respect to the main beam. Second and third order samples are respectively the square and the cube of the first. Total insertion loss can be as low as 0.6% of the incident beam.

Combined with Gentec's DUO Monitor and the WinCam, the HBS can simultaneously give you the energy/pulse, average power, and beam profile, on-line and in real-time!

All HBS Models



Diameter	Up to 4.5"
Thickness	Up to 1/4" (All standard products are 1/8")
First order Ratio	From 1/2000 to 30%
First order Angle	Up to 45° (All standard products are at 10°)
Type of Grating	Sinusoidal or binary (All standard products are sinusoidal)
When used at different wavelengths	Slight but precise change in angle and ratio.

Standard HBS Models

Model	Wavelength	First order ratio	Diameter	Coating
HBS-355-100-1C-10	355 nm	1 %	1"	BBAR (from 240 to 370 nm)
HBS-532-100-1C-10*	532 nm	1 %	1"	BBAR (from 350 to 550 nm)
HBS-1064-100-1C-10*	1.064 μ m	1 %	1"	BBAR (from 700 to 1100 nm)
HBS-1064-2000-1C-10	1.064 μ m	0.05 %	1"	BBAR (from 700 to 1100 nm)

* Also available in uncoated version
Additional models available in stock. Call for list.

Call now with your custom requirements, for any type of Diffractive Optics.



gentec
ELECTRO-OPTICS

CALL TOLL FREE: 1 888 5GENTEC
www.gentec.ca

INTERNATIONAL / EASTERN
AND CENTRAL STATES
2625 Dalton Street
Quebec, QC, Canada G1P 3S9
Telephone : (418) 651-8003
Fax : (418) 651-6695
E-mail : eo@gentec.ca

WEST COAST AND
MOUNTAIN STATES
121 Emerson Street
Palo Alto, CA 94301-1020
Telephone : (650) 321-4258
Fax : (650) 321-6607
E-mail : gentec@aol.com

Specifications subject to change without notice.