

Beam Homogenizer / Optical Diffuser

Holo/Or has vast variety of solutions for beam homogenizing and beam shaping:

Using our Beam Homogenizer product, you can convert any collimated input beam profile into a well-defined beam with homogenized intensity. Any desired shape, for any wavelength can be achieved.

A Beam Homogenizer is very useful in many applications requiring a well-defined beam shape with a randomly-diffused intensity profile.

The output of the Beam Homogenizers will depend on the input beam profile:

A multi-mode laser beam actually has an advantage when used with beam homogenizer, as their degraded coherence will reduce the visibility of speckles and therefore create a more uniform intensity profile than with single mode laser input.

Features:

- Works with single or multi mode input beams
- Glass or plastic materials
- Low centration requirement
- Any output shape or symmetry
- Uniform/Tailored intensity profile

Applications:

- Laser homogenizing/shaping
- Laser material processing: perforation, ablation, drilling, marking, scribing and welding
- Medical/aesthetic laser treatment
- Beam shaping for Excimer lasers
- Hot spot reducer

General Specifications

Materials:	Fused Silica, ZnSe, Plastic
Wavelength range:	193nm to 10.6um
DOE design:	2-level (binary) to 16-level
Diffraction efficiency:	75% - 98%
Element size:	Few mm to 100mm
Coating (optional):	AR/AR Coating
Custom Design:	Tailored shape and intensity distribution
Pattern angles @532nm:	Few mRad to 160deg

Homogenizer products (532nm)

型号	激光波长 [nm]	角度° [deg]	光斑尺寸 [mm] EFL=100mm	透镜尺寸 [mm]	激光 光斑形状	备注	库存情况
DF-200-Q-Y-A	532	0.25x0.25	0.44x0.44	11	Square	replaced by HM-283	In Stock*
RH-218-Q-Y-A	532	1	1.75	18	Round	High Homogeneity	In Stock*
DF-205-Q-Y-A	532	0.25x0.25	0.44x0.44	25.4	Square	replaced by HM-307	In Stock*
ED-202-Q-Y-A	532	0.61x0.39	1.06x0.68	11	Elliptical		In Stock*
ED-203-Q-Y-A	532	0.61x0.39	1.06x0.68	25.4	Elliptical		In Stock*
HM-200-Q-Y-A	532	0.25x0.25	0.44x0.44	11	Square	replaced by HM-283	In Stock*
HM-201-Q-Y-A	532	0.25x0.25	0.44x0.44	25.4	Square	replaced by HM-212	In Stock*
HM-202-Q-Y-A	532	1.00x1.00	1.75x1.75	11	Square	replaced by HM-284	In Stock*
HM-203-Q-Y-A	532	1.00x1.00	1.75x1.75	25.4	Square	replaced by HM-271	In Stock*
RH-217-Q-Y-A	532	1	1.75	25.4	Round	High Homogeneity	In Stock*
HM-208-Q-N-A	532	1.37x1.37	2.39x2.39	25.4	Square		In Stock*
HM-260-Q-Y-A	532	1	1.75	25.4	Line		In Stock*
DF-202-Q-Y-A	532	1.00x1.00	1.75x1.75	11	Square	replaced by HM-284	In Stock*
HM-286-Q-Y-A	532	11.39	19.95	7.25x7.25	Line		In Stock*
HM-293-Q-N-A	532	5.00x5.00	8.73x8.73	10x10	Square	plastic	In Stock*
DF-201-Q-Y-A	532	0.25x0.25	0.44x0.44	25.4	Square	replaced by HM-212	In Stock*
RD-202-Q-Y-A	532	0.37	0.65	25.4	Round	High Efficiency	In Stock*
RD-204-Q-Y-A	532	1	1.75	25.4	Round		In Stock*
RD-206-Q-Y-A	532	1	1.75	11	Round		In Stock*
RD-255-Q-Y-A	532	0.5	0.87	14.1x14.1	Round		In Stock*
RD-227-Q-Y-A	532	0.5	0.87	25.4	Round		In Stock*

RD-237-Q-Y-A	532	2	3.49	11	Round		In Stock*
RD-208-Q-Y-A	532	7.98	13.95	11	Round		6 weeks
HM-208-Q-Y-A	532	1.37x1.37	2.39x2.39	25.4	Square		6 weeks
HM-284-Q-Y-A	532	1.00x1.00	1.75x1.75	11	Square		6 weeks
RD-232-Q-Y-A	532	1	1.75	11	Round	M-Shape	7 weeks
HM-217-Q-Y-A	532	1.03x3.77	1.80x6.58	18	Rectangular		7 weeks
HD-200-Q-Y-A	532	1.07	1.87	18	Hexagonal		7 weeks
HM-262-Q-Y-A	532	0.25	0.44	25.4	Line		7 weeks
HM-263-Q-Y-A	532	0.25	0.44	11	Line		7 weeks
HM-264-Q-Y-A	532	0.30x0.30	0.52x0.52	25.4	Square		7 weeks
HM-267-Q-Y-A	532	4	6.98	48	Line		7 weeks
HM-271-Q-Y-A	532	1.00x1.00	1.75x1.75	25.4	Square		7 weeks
HM-272-Q-Y-A	532	0.27x0.27	0.47x0.47	25.4	Square		7 weeks
HM-273-Q-Y-A	532	5.00x5.00	8.73x8.73	10x10	Square		7 weeks
HM-274-Q-Y-A	532	9.96x9.96	17.43x17.43	10x10	Square		7 weeks
HM-276-Q-Y-A	532	0.50x0.50	0.87x0.87	25.4	Square		7 weeks
HM-281-Q-Y-A	532	1	1.75	11	Line	Requires centration	7 weeks
HM-283-Q-Y-A	532	0.25x0.25	0.44x0.44	11	Square		7 weeks
HH-208-Q-Y-A	532	1.37x1.37	2.39x2.39	25.4	Square	High Homogeneity	7 weeks
HM-285-Q-Y-A	532	0.18x0.33	0.31x0.58	25.4	Rectangular		7 weeks
HH-209-Q-Y-A	532	9.96x9.96	17.43x17.43	10x10	Square	High Homogeneity	7 weeks
HM-288-Q-Y-A	532	0.27x0.27	0.47x0.47	38.1	Square		7 weeks
HM-289-Q-Y-A	532	0.5	0.87	11	Line		7 weeks
HM-290-Q-Y-A	532	2.00x2.00	3.49x3.49	11	Square		7 weeks
HM-291-Q-Y-A	532	2	3.49	11	Line		7 weeks
HH-211-Q-Y-A	532	1.00x1.00	1.75x1.75	25.4	Square	High Homogeneity	7 weeks
HM-303-Q-Y-A	532	1.80x7.19	3.14x12.57	15	Rectangular		7 weeks
GD-242-Q-Y-A	532	0.25	0.44	11	Gaussian	Gaussian profile	7 weeks
HM-308-Q-Y-A	532	0.68x0.68	1.19x1.19	10x10	Square		7 weeks
HM-309-Q-Y-A	532	6.73x6.73	11.76x11.76	10x10	Square		7 weeks
HM-310-Q-Y-A	532	14.86x14.86	26.08x26.08	10x10	Square		7 weeks
HM-312-Q-Y-A	532	5	8.73	10x10	Line		7 weeks
HH-214-Q-Y-A	532	1.00x1.00	1.75x1.75	11	Square	High Homogeneity	7 weeks
HM-314-Q-Y-A	532	9.96	17.43	10x10	Line		7 weeks
HM-315-Q-Y-A	532	12.43	21.78	10x10	Line		7 weeks
HM-316-Q-Y-A	532	14.87	26.1	10x10	Line		7 weeks
HM-317-Q-Y-A	532	17.29	30.41	10x10	Line		7 weeks
HM-318-Q-Y-A	532	19.69	34.71	10x10	Line		7 weeks
HM-319-Q-Y-A	532	22.06	38.98	10x10	Line		7 weeks
HM-320-Q-Y-A	532	2.89x0.72	5.05x1.26	15	Rectangular		7 weeks
HM-321-Q-Y-A	532	2.5	4.36	15x15	Line		7 weeks

HM-322-Q-Y-A	532	1.03x3.77	1.80x6.58	18	Rectangular		7 weeks
HM-323-Q-Y-A	532	0.15	0.26	25.4	Square		7 weeks
HM-324-Q-Y-A	532	1.69x1.69	2.95x2.95	10x10	Square		7 weeks
HM-325-Q-Y-A	532	5.05x5.05	8.82x8.82	10x10	Square		7 weeks
HM-327-Q-Y-A	532	1.5	2.62	11	Line		7 weeks
HM-328-Q-Y-A	532	2.50x2.50	4.36x4.36	11	Square		7 weeks
HH-215-Q-Y-A	532	2.89x0.72	5.05x1.26	15	Rectangular	High Homogeneity	7 weeks
RD-203-Q-Y-A	532	0.25	0.44	25.4	Round		7 weeks
HH-217-Q-Y-A	532	1.03x3.77	1.80x6.58	18	Rectangular	High Homogeneity	7 weeks
RD-254-Q-Y-A	532	0.5	0.87	20	Round	M-Shape	7 weeks
ED-201-Q-Y-A	532	0.61x0.39	1.06x0.68	15	Elliptical		7 weeks
RD-213-Q-Y-A	532	0.25	0.44	11	Round	requires centration	7 weeks
RD-215-Q-Y-A	532	2	3.49	25.4	Round		7 weeks
RD-216-Q-Y-A	532	0.8	1.4	25.4	Round		7 weeks
RD-220-Q-Y-A	532	0.16	0.28	11	Round	Requires centration	7 weeks
RD-221-Q-Y-A	532	0.081	0.14	11	Round	Requires centration	7 weeks
RD-222-Q-Y-A	532	0.081	0.14	15	Round	Requires centration	7 weeks
RD-226-Q-Y-A	532	13.6	23.85	15x15	Round		7 weeks
ED-204-Q-Y-A	532	0.85x0.42	1.48x0.73	25.4	Elliptical		7 weeks
RD-228-Q-Y-A	532	0.25	0.44	11	Round		7 weeks
RD-231-Q-Y-A	532	0.5	0.87	20	Round		7 weeks
ED-205-Q-Y-A	532	1.38x0.93	2.41x1.62	25.4	Elliptical		7 weeks
GD-241-Q-Y-A	532	0.15	0.26	11	Gaussian	Gaussian profile	7 weeks
RD-239-Q-Y-A	532	6.92	12.09	15x15	Round		7 weeks
RH-224-Q-Y-A	532	2	3.49	15	Round	High Homogeneity	7 weeks
RD-246-Q-Y-A	532	1.5	2.62	15	Round		7 weeks
RD-251-Q-Y-A	532	3.44	6.01	15	Round		7 weeks
RD-252-Q-Y-A	532	1.72	3	15	Round		7 weeks
RD-253-Q-Y-A	532	2.63	4.59	15	Round		7 weeks
ED-206-Q-Y-A	532	1.90x1.46	3.32x2.55	25.4	Elliptical		7 weeks
RD-256-Q-Y-A	532	0.25	0.44	14.1x14.1	Round		7 weeks
RH-206-Q-Y-A	532	1	1.75	11	Round	High Homogeneity	7 weeks
RH-208-Q-Y-A	532	7.98	13.95	11	Round	High Homogeneity	7 weeks
RH-215-Q-Y-A	532	2	3.49	25.4	Round	High Homogeneity	7 weeks
RD-247-Q-Y-A	532	0.25	0.44	25.4	Round	M-Shape	7 weeks
HM-212-Q-Y-A	532	0.25x0.25	0.44x0.44	25.4	Square		7 weeks
RH-220-Q-Y-A	532	2	3.49	20	Round	High Homogeneity	7 weeks
RH-221-Q-Y-A	532	13.6	23.85	15x15	Round	High Homogeneity	7 weeks
HM-313-Q-Y-A	532	7.48	13.07	10x10	Line		7 weeks
HM-307-Q-Y-A	532	0.25x0.25	0.44x0.44	25.4	Square	High Efficiency	8 weeks
HM-213-Q-Y-A	532	0.50x0.50	0.87x0.87	22	Square	High Efficiency	8 weeks



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RD-238-Q-Y-A	532	5.94	10.38	15x15	Round		9 weeks
RD-245-Q-Y-A	532	0.095	0.17	12.7x12.7	Round	High Efficiency	10 weeks
ED-207-Q-Y-A	532	0.85x0.42	1.48x0.73	25.4x25.4	Elliptical		10 weeks