

>> Standard Diffractive Optical Elements (Glass)

The DOE structures are replicated (embossed) into a thin film of UV-Acrylate on different substrates. We offer this line of Standard Diffractive Optics in 3 different substrate configurations:

- Acrylate on rectangular 75mm x 25mm glass substrate
- Acrylate on circular glass substrate \varnothing 18 mm
- Acrylate on circular glass substrate \varnothing 18 mm, mounted in black anodized \varnothing 25mm aluminium mount with M4 thread

Multi-Lines:



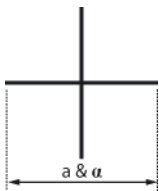
DOE Item #	Description	Field Size	Pattern Size @ 100 mm Distance				Pattern Angles (@ 633 nm)			
			a	b	c	d	α	β	γ	δ
DE 213	11 Lines (Square)	10 x 10 mm	76 mm	54 mm	5.4 mm	54 mm	42 °	30°	3.0°	30°
DE 233	7 Lines (Square)	10 x 10 mm	53 mm	38 mm	6.3 mm	38 mm	30°	21.4°	3.6°	21.4°

Dot Matrix:



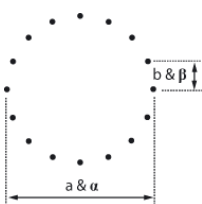
DOE Item #	Description	Field Size	Pattern Size @ 100 mm Distance				Pattern Angles (@ 633 nm)			
			a	b	c	d	α	β	γ	δ
DE 206	17 x 17 Dots	10 x 10 mm	38 mm	25.4 mm	1.59 mm	25.4 mm	20.5°	14.5°	0.91°	14.5°
DE 223	2 x 2 Dots	10 x 10 mm	28 mm	19.8 mm	19.8 mm	19.8 mm	16°	11.4°	11.4°	11.4°
DE 224	2 x 2 Dots	10 x 10 mm	22.6 mm	16.1 mm	16.1 mm	16.1 mm	13°	9.2°	9.2°	9.2°
DE 225	2 x 2 Dots	10 x 10 mm	14.1 mm	10 mm	10 mm	10 mm	8°	5.7°	5.7°	5.7°
DE 230	21 x 21 Dots	10 x 10 mm	7.8 mm	5.6 mm	0.28 mm	5.6 mm	4.5°	3.2°	0.16°	3.2°
DE 231	101 x 101 Dots	10 x 10 mm	12.2 mm	8.6 mm	0.08 mm	8.6 mm	7°	5°	0.05°	5°

Crosshair:



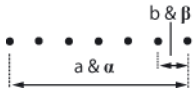
DOE Item #	Description	Field Size	Pattern Size @ 100 mm Distance	Pattern Angle (@ 633 nm)
			a	α
DE 201	Cross - 5	10 x 10 mm	9 mm	5°
DE 209	Cross - 30	10 x 10 mm	54 mm	30°
DE 249	Cross - 45	10 x 10 mm	83 mm	45°

Circles & Dot Circles:



DOE Item #	Description	Field Size	Pattern Size @ 100 mm Distance		Pattern Angles (@ 633 nm)	
			a	b	α	β
DE 100	1 : 16 Dot Circle	4 x 4 mm	39 mm	7.6 mm	22°	4.4°
DE 101	1 : 40 Dot Circle	4 x 4 mm	57 mm	4.5 mm	32°	2.6°
DE 102	1 : 40 Dot Circle	4 x 4 mm	28 mm	2.2 mm	16°	1.3°
DE 229	1 : 36 Dot Circle	10 x 10 mm	7.2 mm	0.6 mm	4.1°	0.36°
DE 237	1 : 10 Dot Circle	10 x 10 mm	10.5 mm	3.2 mm	6°	1.9°

Lines & Dot-Lines:



DOE Item #	Description	Field Size	Pattern Size @ 100 mm Distance		Pattern Angles (@ 633 nm)	
			a	b	α	β
DE 227	Solid Line - 40	10 x 10 mm	73 mm	--	40°	--
DE 228	Solid Line - 30	10 x 10 mm	54 mm	--	30°	--
DE 263	1 : 5 Dot Line	10 x 10 mm	10.4 mm	2.6 mm	5.9°	1.48°

Special Patterns:

DOE Item #	Description	Field Size	Pattern Size @ 100 mm Distance	Pattern Angles (@ 633 nm)	Image
DE 103	1:8/16 Double Circle Dots	10 x 10 mm	Width Circle 8: 25.6 mm Width Circle 16: 51.2 mm Dot Spacing 8: 9.8 mm Dot Spacing 16: 10.0 mm	Circle 8 \emptyset : 14.6° Circle 16 \emptyset : 28.8° Angle betw. Dots 8: 5.6° Angle betw. Dots 16: 5.7°	
DE 104	12 Rings	10 x 10 mm	Width: 20 mm Line Spacing: 1.7 mm	Width: 11.4° Line Spacing: 0.5°	
DE 106	3 : 5 Dots	10 x 10 mm	Width: 6 mm Height: 4 mm Diagonal: 7.2 mm Dot Spacing Width: 3 mm Dot Spacing Height: 1 mm	Width: 3.4° Height: 2.2° Diagonal: 4.1° Angle betw. Dots (W): 1.7° Angle betw. Dots (H): 0.5°	
DE 107	25 : 1 Lines	10 x 10 mm	Width: 20 mm Height: 20 mm Diagonal: 28.2 mm Line Spacing: 0.83 mm	Width: 11.4° Height: 11.4° Diagonal: 16.1° Angle betw. Lines: 0.47°	
DE 215	Viewfinder	10 x 10 mm	Width: 26.2 mm Height: 17.6 mm Diagonal: 31.6 mm	Width: 15° Height: 10° Diagonal: 18°	
DE 232	11 x 11 Dot Frame	10 x 10 mm	Width: 83 mm Height: 83 mm Diagonal: 118 mm Dot Spacing: 8.3 mm	Width: 45° Height: 45° Diagonal: 61° Angle betw. Dots: 4.5°	
DE 236	Square	10 x 10 mm	Width: 60 mm Height: 60 mm Diagonal: 85 mm	Width: 33.4° Height: 33.4° Diagonal: 46°	