quattroXX

Lossless beam splitting for multi kW lasers

Applications:

- **Welding**
- **Cladding**
- **Brazing**

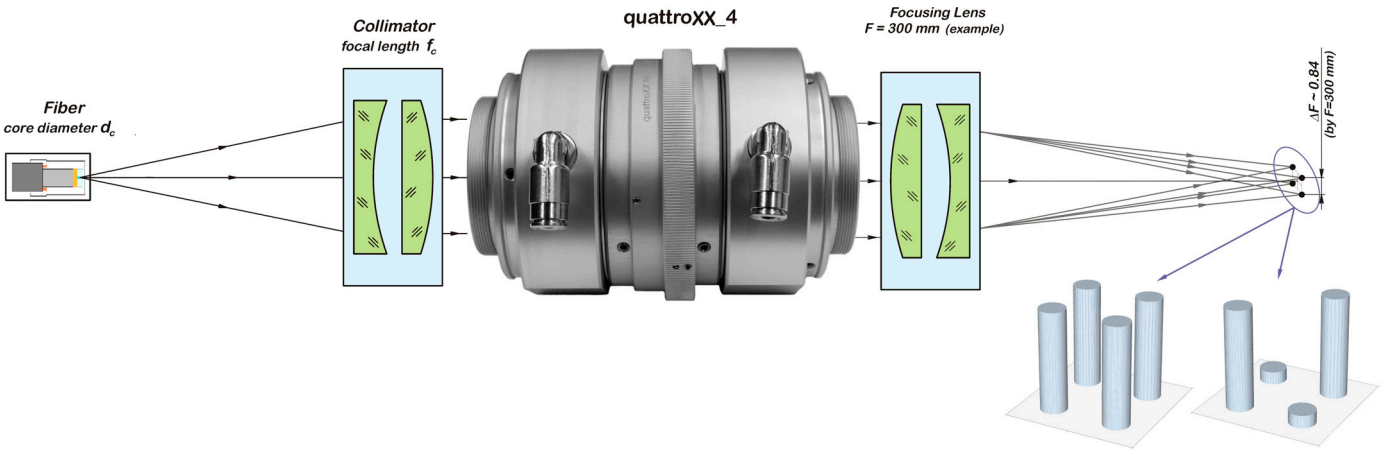
Features:

- **Splitting in 4 spots**
- **High transmission**
- **Lossless operation**
- **CA up to 48 mm**
- **TEM_{00} and multimode lasers**
- **Power up to 6 kW**
- **Spectrum: 950 - 1100 nm**

Specifications

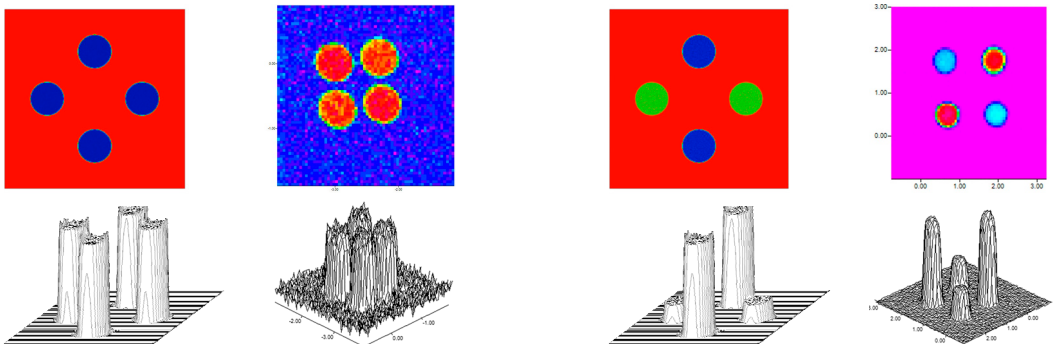
Common for quattroXX optics					
Description	• lossless beam splitting in several foci perpendicular to axis, • to be applied between a Collimator and a Focusing Lens • variable spot layouts				
Number of foci	4				
Spot layouts	Square, Rhomb, Line				
Input	Collimated or low divergent/convergent beam				
Laser	TEM_{00} or multimode, any M^2				
Angular field of view	$\pm 3^{o}$				
Water cooling	by 6-1/8 fittings				
Spectral band, nm	950 - 1100				
Recommended maximum power	6 kW				
Features					
quattroXX		**_4_D48_NIR**	**_4_D29_NIR**	**_6_D29_NIR**	**_8_D29_NIR**
Splitting angle, mrad	square side	2.76 x 2.76	2.76 x 2.76	4.25 x 4.25	5.68 x 5.68
	square diagonal	3.9	3.9	6	8
CA, mm		48	29		
Mounting		M58x1 entrance and exit	M47 x 0.75 entrance and exit		
Diameter		94	75		
Length		138	138		

Example of operation in optical system

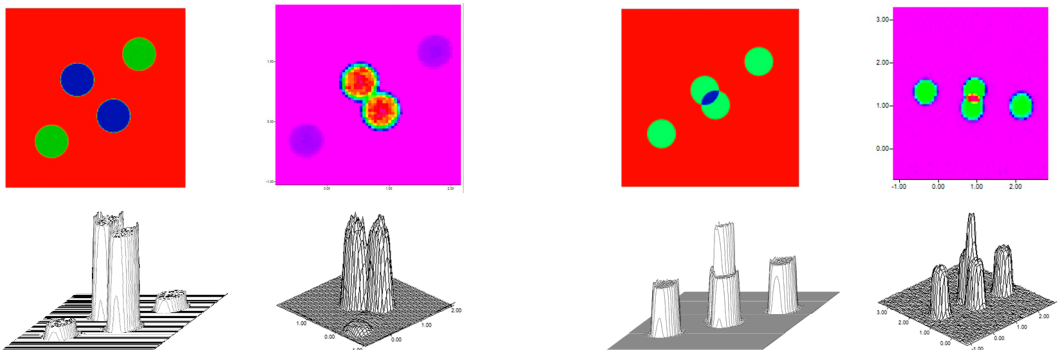


Available spot layouts: theoretical and experimental

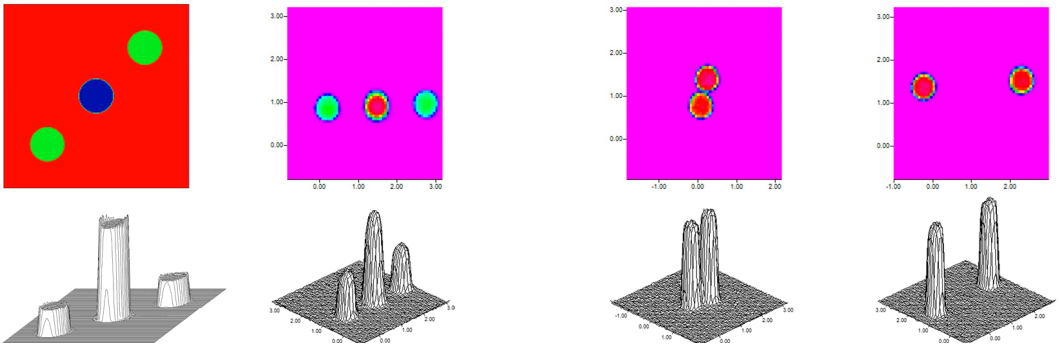
Square



Rhomb



Line



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