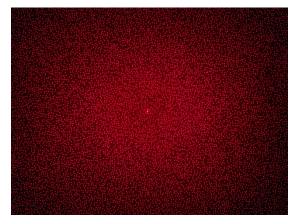
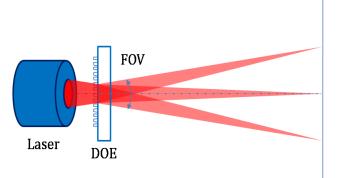


DTC-RD17 Diffractive Optical Element



• Element Number: DTC-RD17

- Description: Random dots pattern
- Number of dots: 10,000
- Substrate material: PET/PMMA/GLASS
- DOE active area: 6 x 6 mm
- Design wavelength: 650 nm
- Minimum recommended beam diameter (FWHM): 2 mm



Pattern Specifications

A DOE functions with a laser light source that emits a diffractive pattern. Each DOE pattern is characterized by a specific laser wavelength, focal length and transverse mode. Each laser wavelength will result in a different zero order intensity. The focal length is dependent on the DOE and the object distance which can be adjusted using a collimating lens (CL). The transverse mode will affect the dot shape.

| Field of View (FOV) | 80° × 64.4°(HxV) |
|--|------------------|
| Aspect Ratio | 4:3 |
| Contrast ¹ (calculated by gray level) | ≧8 |
| Uniformity ² (calculated by gray level) | ≧20% |
| Zero order | ≦0.55% |

 $^{^1\,}$ Contrast: in the defined area, the ratio of the 95th percentile of the grayscale value over the midian grayscale value of the background, C=I_{95\%}/I_{midian}

² **Uniformity**: the ratio of the grayscale value of the area at a given location to the grayscale value of the area in the center of the pattern, $U=I_{each area}/I_{max of each area}$