FACT SHEET MLA based Structured Light Projector





For 3D-sensing applications, MLA-based structured light projectors are used to generate a designed light pattern onto objects. This (usually NIR) light pattern, consisting of up to tens of thousands single dots, is distorted by the 3D geometry of the object. Subsequently, a camera information about the object. temicon provides MLA-based structured



Structured Light Projectors in Gel-Pak® vacuum release packaging



MLA creates point cloud pattern



Laser Scanning Confocal Microscopy (LSCM) image of a rectangular gapless MLA

Advantages

- 10+ years of experience in MLA fabrication
- Highly precise galvanic processing of any lens geometry
- Competent consulting from lens & chip High vertical range of manufacture design to volume production
- Highest accuracy down to ≈5µm lens diameter
- Surface roughness Ra < 10nm

Technical specifications

- Production conditions at clean room standard
- Confocal Microscopy and SEM available for Quality Control
- of all process steps
- High volume wafer-level-optics based production methods
- Fast and flexible throughput time

Lens Shape	Spherical / Aspherical
Lens Diameter	5μm < D < 250μm
Lens Height	5μm < h < 70μm
Lens Layout	Square / Hexagonal / Random
Fill Factor	Up to 100%
Materials	Polymer on Glass, PMMA



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