



www.focuslight.com

COMPANY INTRODUCTION

Founded in 2007 and headquartered in Xi'an, China, Focuslight Technologies Inc. is a fast-growing public company (Shanghai: 688167) that specializes in developing and manufacturing high-power diode laser components and materials, laser optics, as well as photonics module and system solutions focusing on optical communication, automotive, pan-semiconductor, and medical and health applications. Focuslight has expanded its global footprint through strategic acquisitions including LIMO GmbH in 2017 and SUSS MicroOptics SA in 2024 (now as Focuslight Switzerland SA). With the acquisition of assets from ams OSRAM in 2024, Focuslight extends its business to be a global photonics foundry by providing global photonics industry process development and manufacturing service under the brand of Heptagon.

Focuslight Technologies Inc.

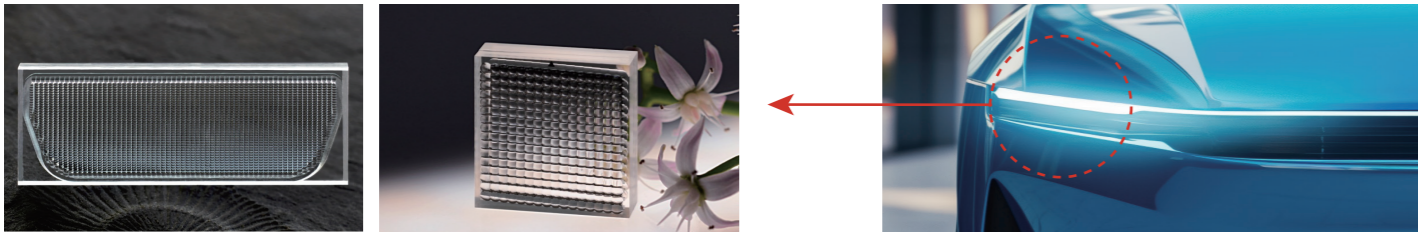
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OPTICAL SOLUTIONS FOR AUTOMOTIVE HEADLIGHT

Introduction

MLA (Micro Lens Array) as an advanced technology has been being used widely for exterior / interior automotive projection since 2017. It also has great advantage to enable ultra slim headlight design with small modular package. A few car models with MLA enabled ultra slim headlight has been on the road since 2021. With its standardized, modular design approach, it sets the stage for an unparalleled level of design versatility and imagination.

Focuslight, with its MLA design, process and application core team in Switzerland, supports global automotive customers with customized MLA design or manufacturing services for headlight application while in the same time offers a standardized MIRALUZ solution which reduces customer's development cost and time to market.



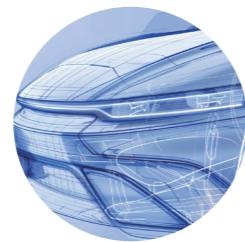
MLA Advantages for Headlight Application



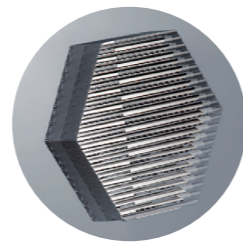
Ultra slim headlight design
(Lens height < 15mm or even < 10mm)



Smaller module package
dimension-saving space for LiDAR, EV/Frank etc.

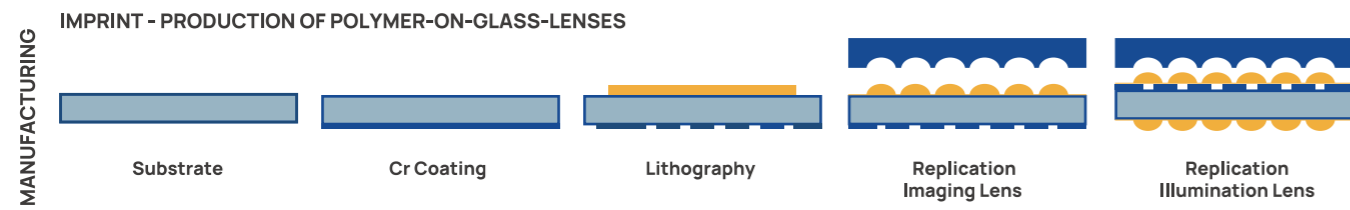


Modularized design
enabling great styling and **design freedom**

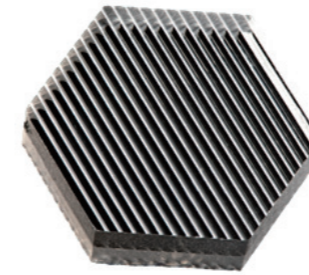


Unique flat and homogeneous illumination lens surface

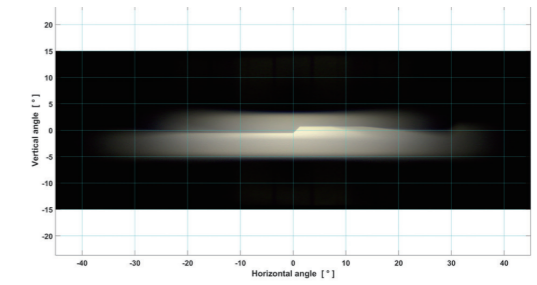
Manufacturing Process for Imprinted MLA



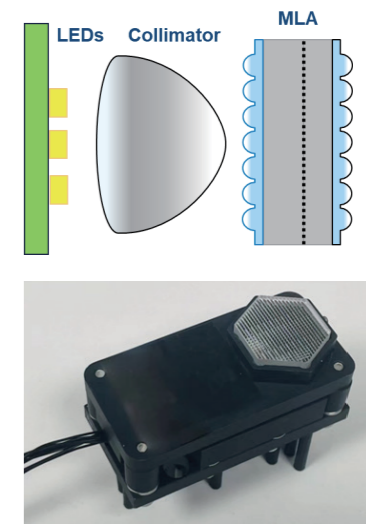
MIRALUZ MLA & Headlight Module Demonstrator



18 mm



Configuration	Pattern Design	Lighting Pattern
Low Beam Spot (SPOT LB)		
Low Beam Spread R		
Low Beam Spread L		
High Beam Spot (SPOT HB)		



Unique MIRALUZ MLA Shapes for Unique Styling

