



REV.2403C066

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www.focuslight.com

COMPANY INTRODUCTION

Founded in 2007 and headquartered in Xi'an, China, Focuslight Technologies Inc. is a fast-growing public company (SSE Star Market: 688167) that develops and manufactures high power diode lasers (photon generation), laser optics (photon control), and photonics modules and systems (application solutions) with a focus on automotive, pan-semiconductor, and medical & health application solutions. In 2017, Focuslight successfully acquired LIMO GmbH, and completed the brand unification in January 2022. In January 2024, Focuslight acquired SUSS MicroOptics (now as Focuslight Switzerland). Focuslight owns over 400 patents worldwide and is ISO 14001, ISO 45001, ISO 9001, and IATF 16949 certified. Additional information can be found at www.focuslight.com.

Focuslight Technologies Inc.

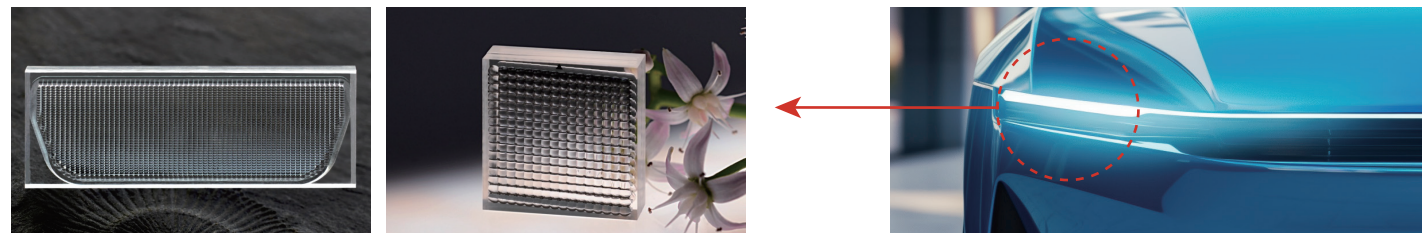
Email: sales@focuslight.com

OPTICAL SOLUTIONS FOR ULTRA SLIM 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.



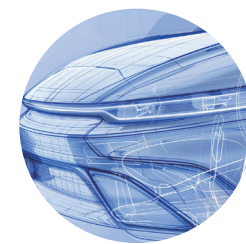
MLA Advantages for Headlight Application



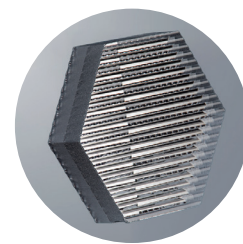
Ultra slim headlight design
(Lens height < 15mm or even < 10mm)



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

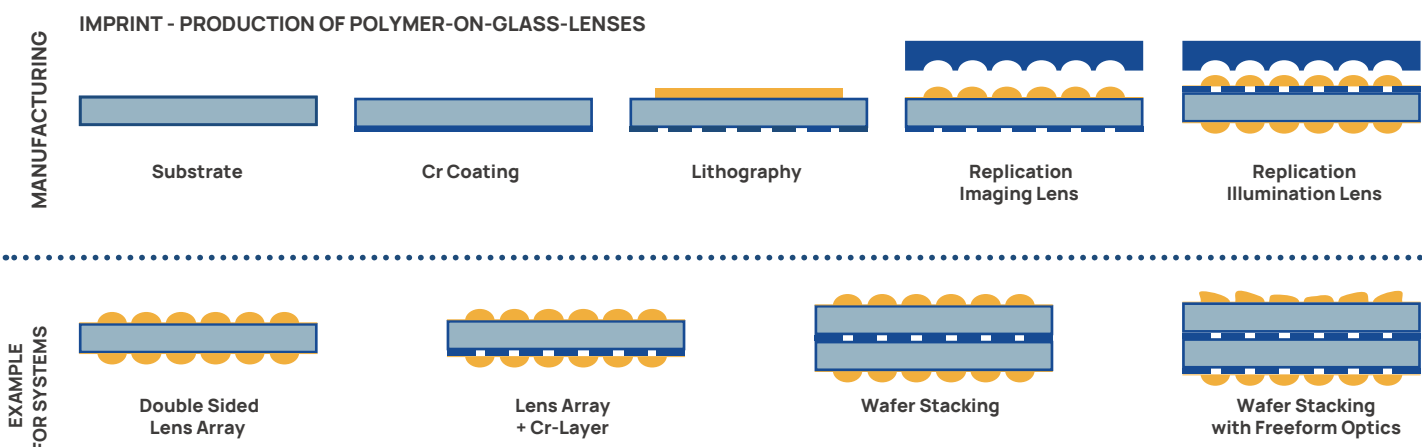


Modularized design
enabling great styling and **design freedom**

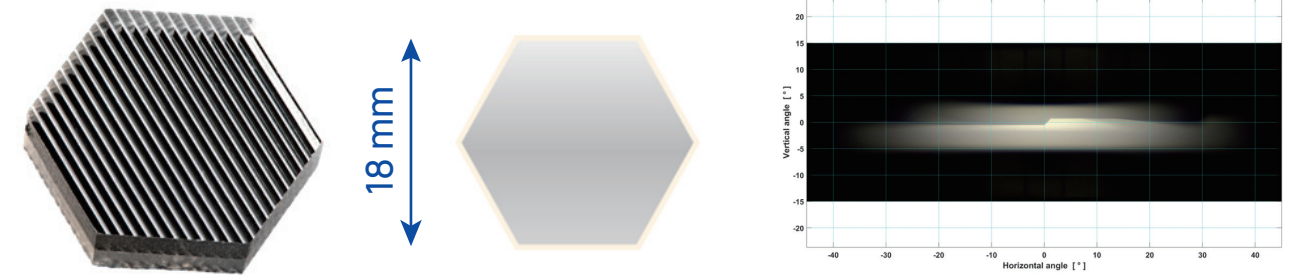


Unique flat and homogeneous
illumination lens surface

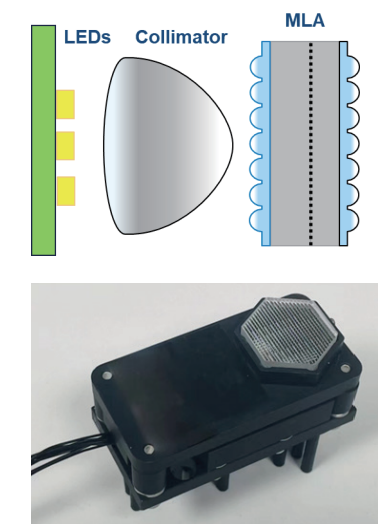
Manufacturing Process for Imprinted MLA



MIRALUZ MLA & Headlight Module Demonstrator



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

