



M E T A O P T I C S

Making Miniaturization Possible

Catalist: 9MT

FY25 Results Briefing

March 2, 2026

MetaOptics Ltd.

DISCLAIMER

This document has been prepared by Metaoptics Ltd. ("MOT" or the "Company") solely for the benefit of MOT and you ("Recipient"). The contents of this document may not be copied, reproduced, redistributed, quoted, referred to, or otherwise disclosed, in whole or in part, directly or indirectly, to any third party. No party other than the Recipient may rely on the contents of this document for any purpose whatsoever without MOT's prior consent. The information, opinions, and estimates in this document are not directed at, or intended for distribution to or use by, any person or entity in any jurisdiction where doing so would be contrary to law or regulation or which would subject MOT to any additional registration or licensing requirement within such jurisdiction.

This document does not constitute an offer, solicitation, recommendation or invitation for or in relation to the securities of any company described herein, nor does it constitute investment advice. Nothing herein shall form the basis of any contract or commitment. Any financial or other projections are illustrative and should not be taken as forecasts or promises that may be relied upon. The recipient is solely responsible for making its own assessment of the matters herein, including assessment of risk, and consulting their own professional advisers.

This document does not purport to constitute all the information that the Recipient might require and, in particular, does not address risk issues. Such information as provided herein should be viewed in conjunction with MOT's oral briefing.

Although the information contained in this document or on which this document is based, has been obtained from sources which MOT believes to be reliable, such information has not been independently verified. This document may not contain all material information and is subject to change without notice. MOT does not make any representation or warranty, express or implied, as to the accuracy or completeness of the information or of any forward-looking statements (which may be subjected to numerous assumptions, known and unknown risks). MOT shall not be liable for any direct or consequential loss, damage, cost, charge, expense, or other liability whatsoever arising out of, or in connection with the use of, or reliance upon, the information contained in this document.

This presentation has been reviewed by the Company's sponsor, ZICO Capital Pte. Ltd. (the "Sponsor"). This presentation has not been examined or approved by the Singapore Exchange Securities Trading Limited (the "SGX-ST") and the SGX-ST assumes no responsibility for the contents of this presentation, including the correctness of any of the statements or opinions made or reports contained in this presentation. The contact person for the Sponsor is Ms. Goh Mei Xian, ZICO Capital Pte. Ltd. at 77 Robinson Road, #06-03 Robinson 77, Singapore 068896, telephone: (65) 6636 4201.

01

COMPANY INTRODUCTION

About MetaOptics

Headquartered in Singapore and SGX-listed, MetaOptics is a vertically integrated semiconductor optics company developing high-performance metalens solutions for next-generation optical systems

Innovation

Enabling next-generation imaging, sensing, and photonics across emerging markets

Simplicity

Replacing bulky traditional lenses with ultra thin metalenses for next-generation application

Scalability

Combining rapid prototype technologies with scalable nanofabrication



***Transforming the Future of Optics
by Unlocking True Miniaturization***

MetaOptics 4 Business Divisions



Metalens Equipment

- Direct Laser Writer
- Automatic Tester
- Automatic Assembler & Tester



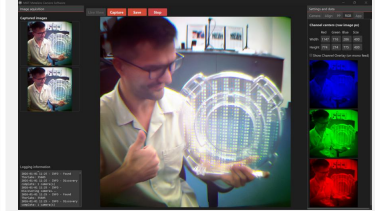
Metalens Foundry

- 4in & 12in Platforms
- Color imaging metalens
- IR metalens
- Ultra-wide lens
- CPOs



Metalens Products

- Metalens 5G Smartphone
- Pico projector
- Metalens AI smart glasses
- Development kits



MetaOptics AI

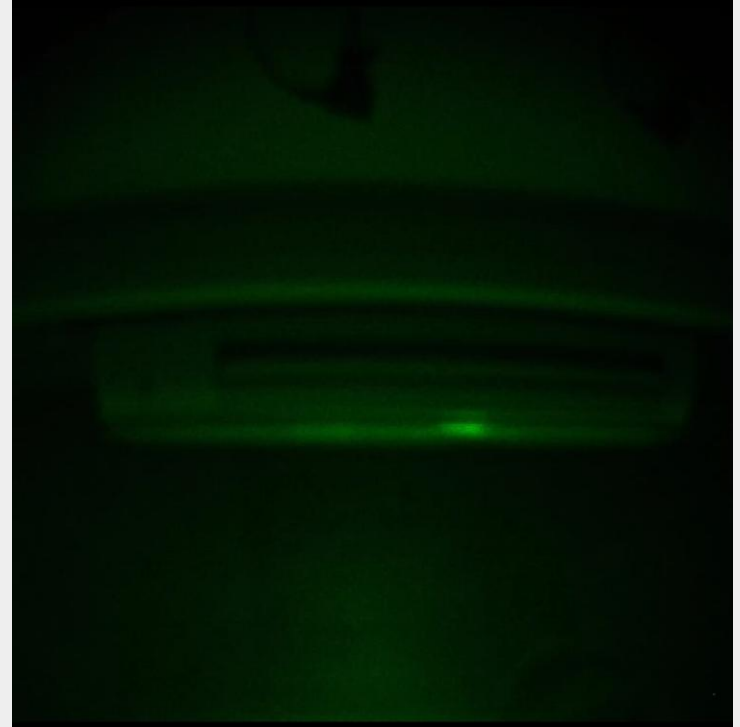
- 3D biometrics AI
- Gesture recognition AI
- Imaging enhancement AI

MetaOptics AI

Gesture recognition



Fingerprint recognition



Committed Management Team

Mark Thng, Executive Chairman

- Mark Thng has over 30 years of experience in senior leadership roles across prominent U.S. multinational corporations (MNCs) and innovative optics technology firms. His impressive career has spanned engineering, general management, and operational leadership in industries ranging from data storage to advanced micro-optics.
- **Heptagon:** Served as Vice President of Operations for six years, helping transform Heptagon into a world-leading micro-optics supplier. Led the build-out of precision manufacturing at scale, enabling Heptagon to become a key optical sensor supplier to Apple for iPhone products. Played a critical role in scaling operations through a high-growth phase and supporting the company's billion-dollar acquisition by ams Osram in 2018.
- **Benchmark Electronics:** As General Manager, Mark was responsible for the strategic and operational performance of one of the top global electronics manufacturing service providers. He was instrumental in building the sputter systems and chemical polishing systems for AMAT.
- **Seagate Technology:** Held key leadership roles overseeing engineering and operational excellence in one of the world's leading providers of data storage solutions.

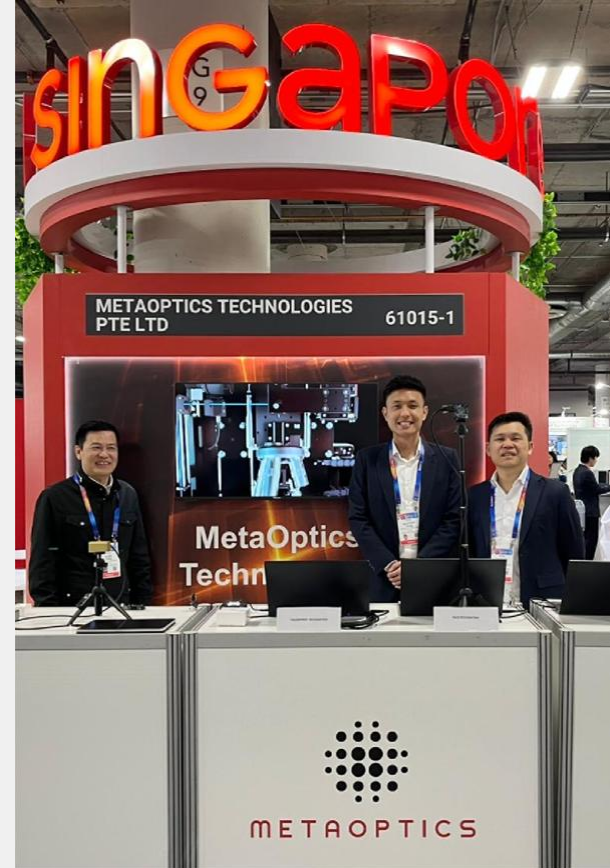


Aloysius Chua Hao Peng, Executive Director & Chief Executive Officer

- Aloysius Chua Hao Peng is Co-founder, Executive Director and Chief Executive Officer and has been with the company since June 2021, previously serving as Projects Manager and Projects Director. He oversees core technical and operational initiatives including metalens fabrication, equipment development, advanced assembly, and supply chain establishment, while also leading innovation and business development in metalens technology.

Chu Wee Liat, Chief Financial Officer

- Chu Wee Liat joined MetaOptics Technologies in January 2025 as Chief Financial Officer. He leads the company's financial strategy and capital management, partnering with the leadership team to drive disciplined growth and long-term value creation. He brings extensive experience from PricewaterhouseCoopers in Singapore and Silicon Valley, where he focused on audits of SEC-registered public companies and transaction advisory engagements across Southeast Asia. He previously led acquisitions and early-stage venture investments at Advanced MedTech Holdings.



MetaOptics Technologies

One of 11 Singapore companies showcasing at the Singapore Pavilion of CES 2025 in Las Vegas

02

METALENS MARKET

Total Addressable Market (TAM)
& Key Sectors

Metalens TAM & Market Penetration

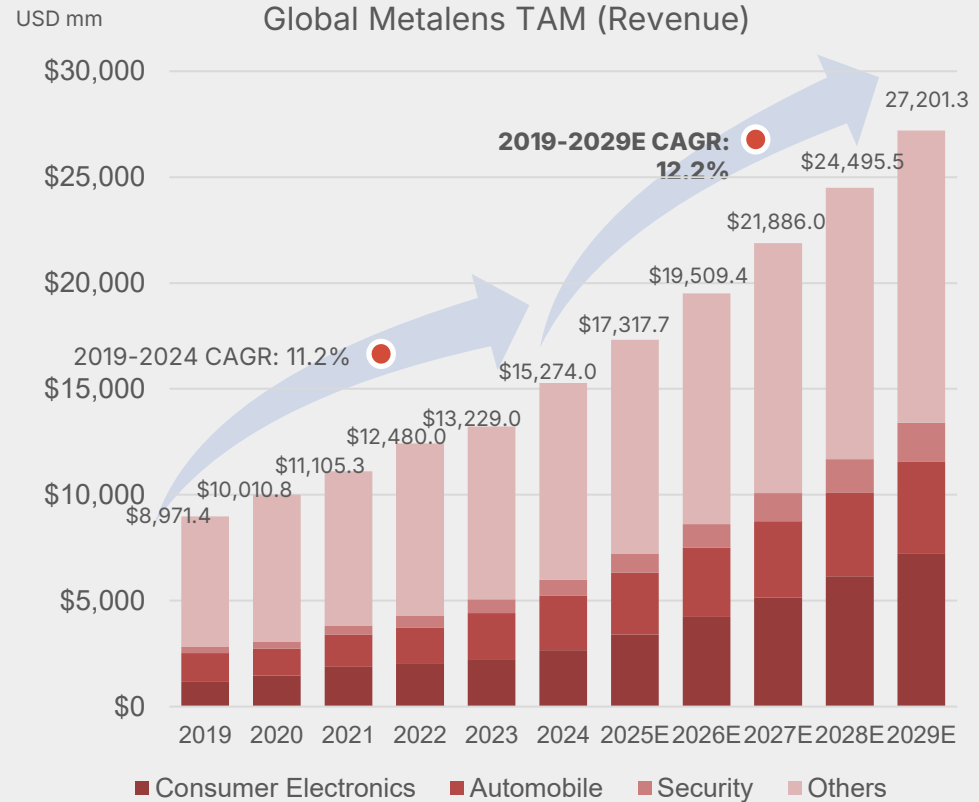
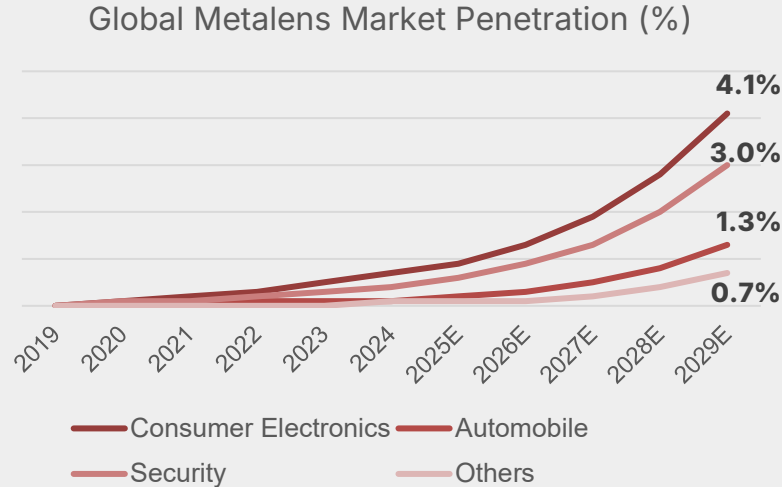
Global Optical Metalens Industry Key Developments History

2011-2016: The Birth of Optical Metalens

2017-2019: Advancements in Fabrication & Performance Enhancement

2019-2022: Early Commercialization and Industry Piloting

2023-Today: Expanded Application & Market Growth



Emerging Markets Adopting Metalens Technology



Others

TAM¹: \$9.29B

CAGR²: 8.6%

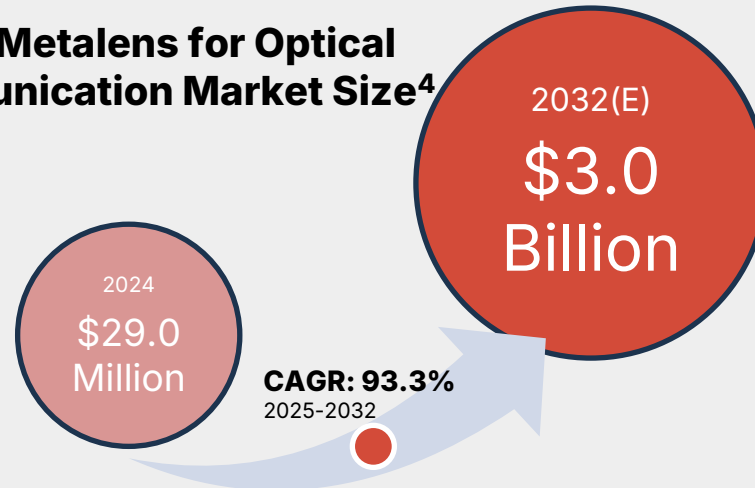
(Est) CAGR³: 8.2%

Applications into the industrial, biomedical, telecommunications, semiconductor, and fiber optics industry

Optical Communication, Fiber Optics, & Semiconductor sectors are promising sub-markets tied to the metalens technology.

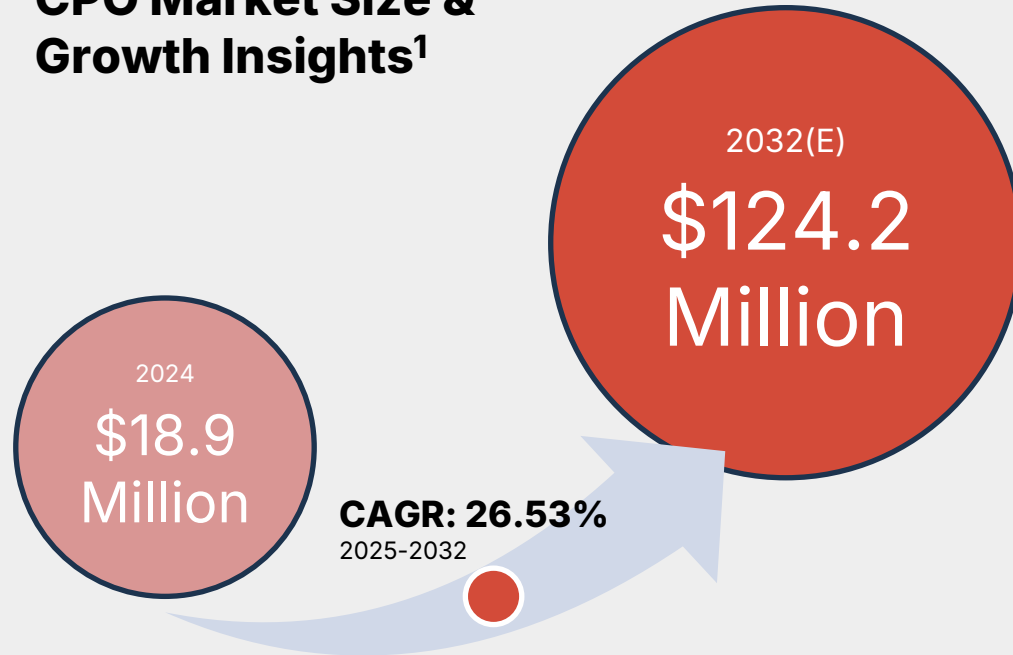
Metalens can significantly shrink optical components and improve performance in high-speed data transmission, photonic integrated circuits, and fiber optics interfaces.

Global Metalens for Optical Communication Market Size⁴



Co-Packaged Optics (CPO) Market Opportunity & Value

CPO Market Size & Growth Insights¹



CPO plays a major role in booming industries...

- ✓ Data Centers & Cloud Computing
- ✓ AI and High-Performance Computing (HPC)
- ✓ Telecom & Networking Equipment
- ✓ Semiconductor & Advanced Packaging Ecosystems
- ✓ Defense & Government HPC

Why CPO Matters

- Opportunity to become high-value, early adopters in booming markets
- Successful integration in CPO proves metalens performance, reliability, and scalability
- Potential for scaled and accelerated adoption across key industries

MetaOptics technology strategically aligned to deliver tailored solutions in the CPO market.

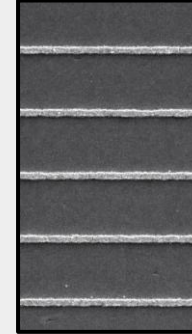
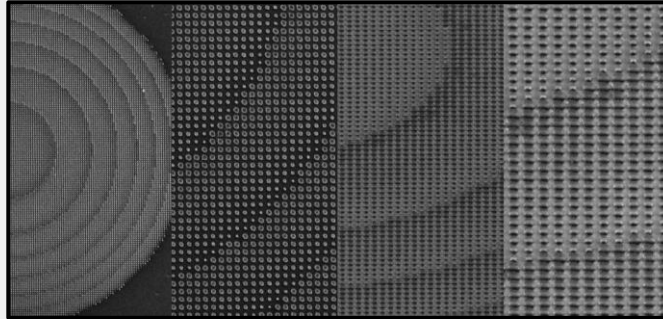
¹ Source: SNS Insider pvt Ltd

03

PRODUCT HIGHLIGHT

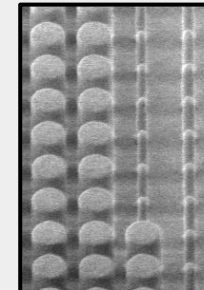
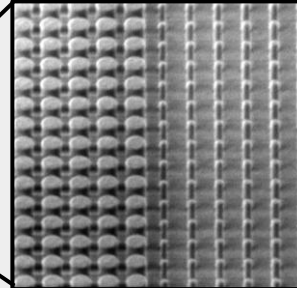
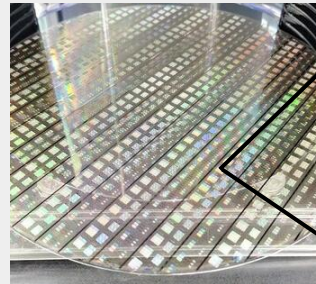
Metalens Foundry

4" Platform using MetaOptics Direct Laser Writer



- Fast prototyping
- Low volume
- CD: 100 nm
- 4" wafer (Glass, Si, ...)
- Non-vacuum
- High-precision stage

12" Platform using DUV immersion photo lithography



- Mass-production
- High yield
- CD: 80 nm
- 12" wafer (Glass, Si, ...)
- Aspect ratio 1/8 after dry etching

Metalens Equipment



Direct Laser Writer (DLW)

Laser Direct Writing Lithography Equipment¹

\$125.1M (2025)	\$187.6M (2032)	5.2% (CAGR 2025-2032)
---------------------------	---------------------------	---------------------------------

- Metalens fabrication & characterization tool
- Fast quick-turn for meta lens prototyping, low volume production using 4" Glass Wafer operated in non-vacuum environment
- Highest 6-axis precision piezo writing stage



Metalens Automatic Tester

Optical Test & Measurement Equipment²

\$1.36B (2025)	\$2.04B (2032)	5.9% (CAGR 2025-2032)
--------------------------	--------------------------	---------------------------------

- Designed to evaluate the performance of advanced metalens components under both infinite and finite working distances
- Supports a wide range of measurement configurations and wavelengths for comprehensive testing of various metalens types



Camera Module A&T System

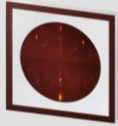
Global Camera Module Assembly Equipment³

\$2.5B (2024)	\$4.8B (2033)	8.5% (CAGR 2025-2033)
-------------------------	-------------------------	---------------------------------

- Integrates precision XYZ pick-and-place motion, dual-vision alignment, and comprehensive optical-electrical testing within a compact production footprint
- Sub-10 μm lateral positioning repeatability and a throughput of up to 200 units/hour under continuous automated operation (excludes tray loading/unloading)

Metalens Products & Technology

**Ultra-Wide
FOV
NIR Metalens**



**Single-Layer
RGB Metalens**



**Single-Layer
RGB Metalens**



**Metalens
Colour Camera
Module**



**IoT Metalens
Colour Camera**



**Infrared
Metalens
Camera**



**3D Biometric
Metalens
Sensors**



2nd Gen. Pico Projector



Metalens-Integrated AI Smart Glasses

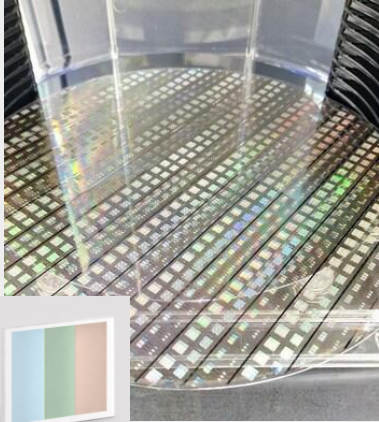


**Metalens
Smartphone**



MetaOptics Rectangular RGB Metalens

**Rectangular RGB
Metalens
12-inch glass wafer**



- Covers the entire sensor
- Larger Field of View
- Improved image quality
- Improved module assembly

Rectangular RGB Metalens raw image



MetaOptics Color Imaging AI

Rectangular RGB Metalens Color Image Basic processing

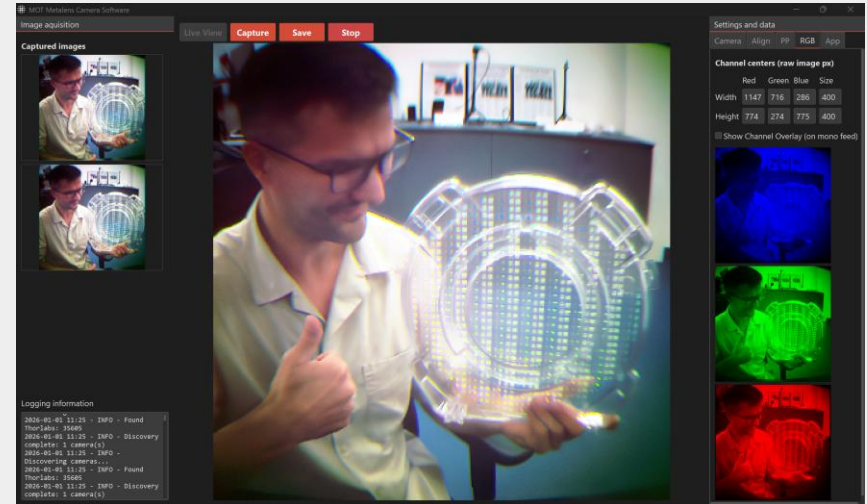


AI enhancement



MetaOptics MOTviewer

Image processing development software



- Variable stacking of image post-processing nodes
- Automated image dataset acquisition for AI training
- Plugin system for external image processing nodes

04

FUTURE OPPORTUNITIES

Tunable Metalens

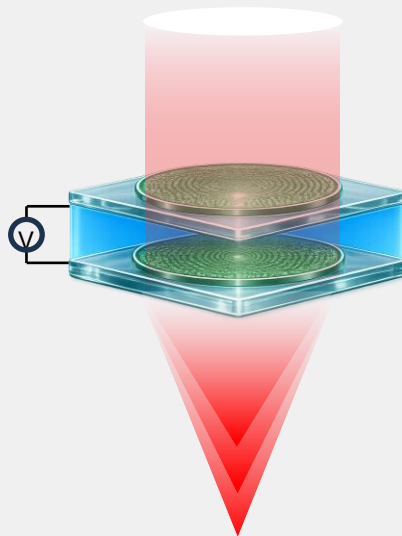
Tunable metalens are an emerging class of optical devices whose properties can be modified post-fabrication, enabling breakthroughs in advanced imaging, sensing, and AR/VR functionalities.

Features include:

1. Real-time, voltage-controlled focal tuning with no bulky mechanical parts
2. Optimized for compact devices such as smartphones and miniaturized sensors
3. High-performance, multi-wavelength focusing with sub-millisecond response
4. Layered liquid crystal-metalens design enabling precise control and miniaturization

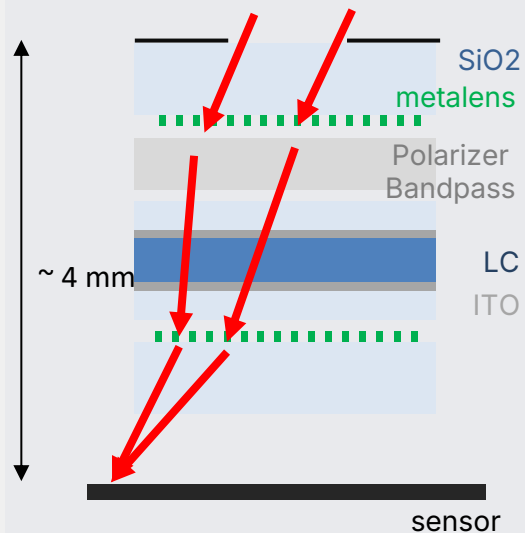
VOLTAGE-CONTROLLED FOCUS SHIFT

Lens focus changes as voltage increases.



METALENS STACK STRUCTURE

Layered design enables tunable lens behavior.

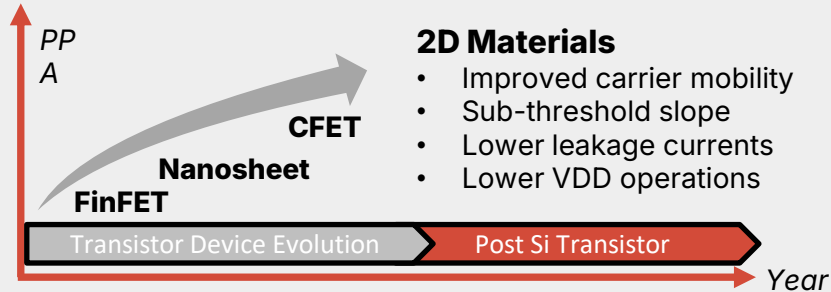


Development in progress. Samples ready Q1 2027.

Equipment Application Beyond Metalens

2D Materials (MoS_2 , WS_2 , WSe_2) are emerging as post-CMOS transistor platforms requiring sub-500nm (towards <200nm) channel patterning.

Transistor Evolution & Future¹



Today, fabrication of 2D Material Transistors are limited by E-Beam Lithography:

- Low throughput
- High CapEx + OpEx (expensive equipment and ongoing maintenance costs)
- Electron-induced damage to delicate 2D layers
- Limited scalability beyond research or prototype-scale fabrication

Source:
¹ SemiWiki – Future Semiconductor Technology Innovation

MetaOptics is advancing its Direct Laser Writer (DLW) system as a competitive alternative to E-Beam Lithography for Next-Gen 2D Materials Transistors



MetaOptics' DLW System as a Solution:

- ✓ 125 nm HP Resolution
- ✓ Lower CapEx & OpEx than traditional EBL
- ✓ Non-Damaging Exposure for Atomically Thin Materials
- ✓ Parallelization via Lens-Array Architecture

U.S. Expansion: Strategic Plans & Vision

Recent Developments

- In October 2025, MetaOptics established its U.S. entity registered in Nevada - **MetaOptics, Inc. (USA)**
- U.S. office space strategically located in the **heart of Silicon Valley** (San Mateo, CA) in close proximity to **leading semiconductor & smart device companies**
- Actively engaging with several **major USA-based technology companies** and other entities to explore partnership opportunities in optical metalens solutions for data communications, next-generation sensors, and smart devices

Collaboration with U.S. Universities

- Accepted as an **Associate Member** under the **Stanford Engineering SystemX Alliance Program**
- In discussions with a U.S. university to provide MetaOptics DLW for U.S. customers to trial the equipment
- Initiated discussions with renowned U.S. university to co-develop a **"tunable metalens" project**



Strategic Plans

- Deliver high-performance metalens solutions to customers across North America
- Extend metalens design & manufacturing expertise to many world class U.S. clients and partners
- Establish long-term partnerships with U.S. universities for R&D, prototyping, and fabrication opportunities
- Explore setting up U.S. mini foundry
- Potential sector entry
 - 5G Smartphones
 - Data Communications
 - Data Centers
 - Fiber Optics
 - AI Semiconductor Manufacturing
 - Consumer Electronics

05

FINANCIAL HIGHLIGHT

CONSOLIDATED STATEMENT OF COMPREHENSIVE LOSS

S\$	As of 31 Dec 2024	As of 31 Dec 2025 Unaudited	+/- %
Revenue	79,440	787,388	891
- Capital Equipment	-	541,944	-
- IoT Products	79,440	205,095	158
- Other Revenue	-	40,349	-
Gross Profit	26,569	159,826	502
Gross profit margin (%)	33.4%	20.3%	-
Other income	2,000	317,686	15,784
Other (losses)/gains, net	4,916	(492)	(110)
Administrative expenses	(896,702)	(3,682,794)	311
Research and development expenses	(1,036,635)	(1,858,294)	79
Selling and marketing expenses	(49,186)	(204,622)	316
Finance expenses	(1,844)	(176,883)	9,492
Loss after tax and total comprehensive loss	(1,950,882)	(5,445,573)	179
Loss per share (in cents)	(1.01)	(2.54)	152

NOTE 6: EXPENSES BY NATURE

S\$	Nature	As of 31 Dec 2024	As of 31 Dec 2025 Unaudited	+/- %
Purchase of goods		108,024	578,893	436
Changes in inventories		(55,153)	48,669	(188)
Amortisation of intangible assets	Non-cash	702,226	702,226	-
Depreciation of plant and equipment	Non-cash	52,233	54,417	4
Depreciation of right-of-use assets	Non-cash	15,372	16,486	7
Employee compensation		152,610	409,104	168
Development and prototype expenses		309,804	991,046	220
Directors Fees		-	115,000	-
Legal and professional fees	One-off IPO	362,099	2,227,823	515
Auditors' remuneration	One-off IPO	124,375	720,157	479
Consumables expenses		81,185	16,832	(79)
Repair and maintenance		13,752	16,965	23
Royalty expenses		10,000	15,000	50
Short-term rental expenses		19,330	4,682	(76)
Tradeshows and advertising expenses		49,186	204,622	316
Travel expenses		56,645	163,368	188
Other expenses		33,706	87,982	161
TOTAL COST OF SALES, ADMINISTRATIVE EXPENSES, RESEARCH AND DEVELOPMENT EXPENSES AND SELLING AND MARKETING EXPENSES		2,035,394	6,373,272	213

NOTE 8: FINANCE EXPENSES

S\$	Nature	As of 31 Dec 2024	As of 31 Dec 2025 Unaudited
Interest expense on lease liabilities	Non-cash	1,844	1,033
Deemed interest expense on amount due to a shareholder*	Non-cash	-	175,850
FINANCE EXPENSES		1,844	176,883

*The deemed interest expense relates to the unwinding of the discount on the amount due to a shareholder.

S\$	As of 31 Dec 2024	As of 31 Dec 2025 Unaudited
Cash at bank	959,226	8,789,537
Total assets	5,690,949	13,630,800
Contract liabilities	266,320	852,892
Total liabilities	2,587,517	3,583,040
Total equity	3,103,432	10,047,760
Current ratio (x)	2.05x	6.79x
Gearing ratio (%)*	45.5%	26.3%

*Gearing ratio = total liabilities/ total assets

USE OF IPO PROCEEDS UPDATES

S\$	Amount allocated (as disclosed in the Offer Document) (S\$'000)	Amount utilized as at February 27, 2026 (S\$'000)	Balance of IPO Net Proceeds as at February 27, 2026 (S\$'000)	% Remaining
Product development, research & development, and strategic partnerships	2,000	528	1,472	74%
Business expansion through organic growth, mergers and acquisitions, joint ventures and/or strategic partnerships	1,200	139	1,061	88%
Working capital and general corporate purposes	800	407	393	49%
TOTAL	4,000	1,075	2,925	73%

USE OF DECEMBER PLACEMENT PROCEEDS UPDATES

S\$	Amount allocated (as disclosed in the Placement Announcement) (S\$'000)	Amount utilized as at February 27, 2026) (S\$'000)	Balance of December Placement Net Proceeds as at February 27, 2026 (S\$'000)	% Remaining
Business operations	2,878	-	2,878	100%
Working capital and general corporate purposes	1,919	-	1,919	100%
TOTAL	4,797	-	4,797	100%



M E T A O P T I C S

Contact Us

MetaOptics Ltd.

81 Ayer Rajah Crescent 01-45

Singapore 139967

IR@metaoptics.sg



METAOPTICS

THANK YOU