

SECTOR: TECHNOLOGY
INDUSTRY: SEMICONDUCTORS
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Himax Technologies, Inc. (NASDAQ: HIMX) is a leading global fabless semiconductor solution provider dedicated to display imaging processing technologies. The Company's display driver ICs and timing controllers have been adopted at scale across multiple industries worldwide including TVs, PC monitors, laptops, mobile phones, tablets, automotive, ePaper devices, industrial displays, among others. As the global market share leader in automotive display technology, the Company offers innovative and comprehensive automotive IC solutions, including traditional driver ICs, advanced in-cell Touch and Display Driver Integration (TDDI), local dimming timing controllers (Local Dimming Tcon), Large Touch and Display Driver Integration (LTDI) and OLED display technologies. Himax is also a pioneer in tinyML visual-AI and optical technology related fields. The Company's industry-leading WiseEye™ Ultralow Power AI Sensing technology which incorporates Himax proprietary ultralow power AI processor, always-on CMOS image sensor, and CNN-based AI algorithm has been widely deployed in consumer electronics and AIoT related applications. While Himax optics technologies, such as diffractive wafer level optics, LCoS micro-displays and 3D sensing solutions, are critical for facilitating emerging AR/VR/metaverse technologies. Additionally, Himax designs and provides touch controllers, OLED ICs, LED ICs, EPD ICs, power management ICs, and CMOS image sensors for diverse display application coverage. Founded in 2001 and headquartered in Tainan, Taiwan, Himax currently employs around 2,200 people from three Taiwan-based offices in Tainan, Hsinchu and Taipei and country offices in China, Korea, Japan, Germany, and the US. Himax has 2,683 patents granted and 390 patents pending approval worldwide as of September 30, 2024.

Investment Highlights

- Leading Display and Image IC Design House
- Innovative New Products Capturing Growth Markets
- Diversified Base of Customers and Revenues
- Visionary Management Team

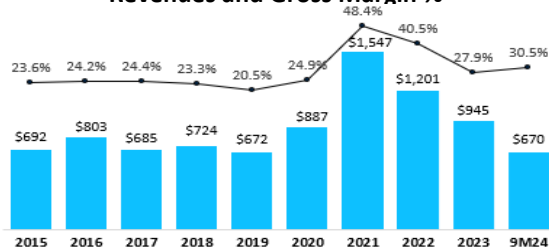
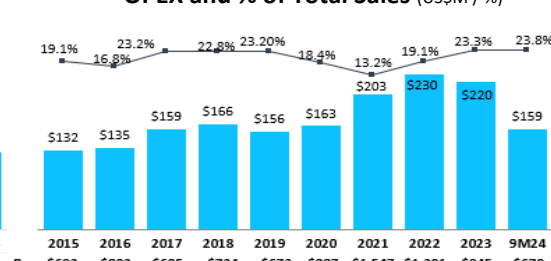
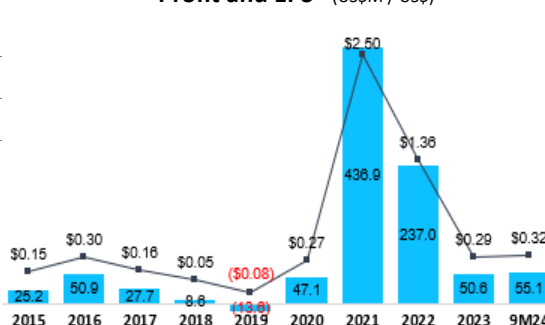
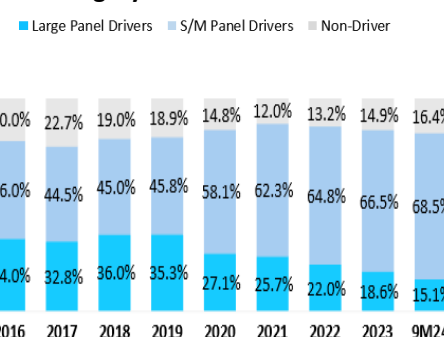
Financial Summary

	3Q2024	2Q2024	3Q2023	QoQ	YoY
Revenues	\$222.4M	\$239.6M	\$238.5M	-7.2%	-6.8%
Gross Margin (%)	30.0%	32.0%	31.4%	-2.0%	-1.4%
Profit	\$13.0M	\$29.6M	\$11.2M	-56.0%	+15.9%
Earnings per ADS	\$0.074	\$0.169	\$0.064	-56.0%	+15.8%

4Q2024 Guidance

Revenues	Flat to slightly down sequentially
Gross Margin (%)	Flat to slightly up, depending on the final product mix
IFRS Profit	9.3 cents to 11.0 cents per diluted ADS

SELECT FINANCIALS	
Fiscal Year	Dec. 31st
Last-Traded Price (11/6/24)	\$5.95
Market Cap. (11/6/24)	\$1.02B
50-Day Avg. Daily Vol.	~0.7M
Basic Weighted Avg. Out. ADS	175.0M
Cash (9/30/24)	\$194.1M
2023 Revenues	\$945.4M
2023 Profit	\$50.6M
2023 EPS	\$0.290 per ADS
Legal	Davis Polk & Wardewill
Auditor	KPMG
# Analyst Coverage	3

Revenues and Gross Margin %

OPEX and % of Total Sales (US\$M / %)

Profit and EPS (US\$M / US\$)

Category Product Mix


Core Product Lines - Growth Opportunities

Display Driver IC (DDIC)

We are a leader in DDICs used to enable large, small and medium-sized flat panel displays in TFT and Touch

Strategies and Market Position

- Large DDIC business positions toward high-end solutions covering 4K/8K TV, gaming monitor and low power NB
- Provide both leading-edge Tcon and DDIC solutions
- Decent 4K/8K TV solution shipment. Dominate 8K TV Tcon market
- Decent gaming monitor IC shipment featuring higher resolution, high frame rate and large size display
- Leader in non-iOS tablet market serving major leading names
- Leader in auto driver IC market. Collaborate closely with Tier 1s, panel makers as well as car brands across continents
- Broad OLED offerings (DDIC/Tcon/Touch) in auto, tablet & NB. Strategic partnerships with key KR/CN & JP (auto) panel makers

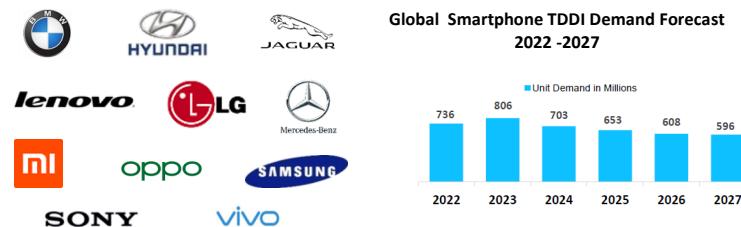


In-Cell Touch and Display Driver Integration (TDDI)

We design and implement touch display technologies, including in-cell touch and the fast-growing segment of TDDI single-chip

Strategies and Market Position

- TDDI enjoys higher ASP and margin than traditional DDIC
- TDDI quickly replaces DDIC in smartphone/tablet. Increase TDDI adoption in automotive displays
- Smartphone TDDI gained numerous design-wins and shipment with top-Tier and panel makers in China starting 2018
- In-cell TDDI with active stylus becomes mainstream for tablet where Himax is the primary supplier for non-iOS tablets. MP started for major Tier 1 / OEMs in 1Q20. Higher tablet TDDI penetration and towards larger size, HFR and active stylus feature
- Himax is the dominant automotive TDDI provider with MP experience for leading panel makers. Automotive TDDI chips cumulative shipment > 70M as of 3Q24. Commenced world first LTDI mass production in 3Q23
- Offer advanced local dimming Tcon, P2P bridge, cascade-topology connection. OLED & LTDI for next gen automotive displays
- CES 2024 launched in-cell TDDI for LCD NB, offering precise touch sensitivity, vibrant multi-finger operation, and acute active stylus functionalities



Management Team

Dr. Bing-Seng Wu, Chairman of the Board - Dr. Wu, the founder of Himax, previously served as President, CEO and Director of Himax Taiwan. As a pioneer of TFT-LCD panel industry for with profound experience. With significant numbers of patent related to Flat Panel Display and 3D Sensing granted worldwide, Dr. Wu has made significant contributions to Taiwan panel industry including the completion and operation of Taiwan's very first TFT-LCD plant, the winner of Outstanding Industry Contribution Award at the Gold Panel Awards 2009 from Ministry of Economic Affairs, etc. Dr. Wu holds a B.S. degree, an M.S. Degree and a Ph.D. Degree in Electrical Engineering from National Cheng Kung University. With well-recognized outstanding research and development capabilities, Dr. Wu received numerous awards including Sun Yat-Sen Technological Invention Award from the Sun Yat-Sen Cultural Foundation in 1991, National Invention Award of Taiwan from Taiwan Executive Yuan in 1992, Outstanding Youth Electrical Engineer Award from Chinese Institute of Engineers in 1992, Research Achievement Awards from Industrial Technology Research Institute for consecutive 2 years of 1992 and 1993, ERSO Award from Pan Wen Yuan Foundation in 2008, 2011 NCKU Outstanding Alumni Award, Taiwan Photonics Society's Optoelectronics Engineering Award in 2023, etc.

Jordan Wu, President, CEO and Director - Mr. Jordan Wu, co-founder, President and Chief Executive Officer of Himax Technologies Inc., a NASDAQ-listed fabless IC design company headquartered in Tainan, Taiwan. Prior to co-founding Himax, he served as CEO of TV Plus Technologies, Inc. in Taiwan and CFO and Executive Director of DVN Holdings Ltd. in Hong Kong. Prior to that, he was an investment banker in Hong Kong with Merrill Lynch (Asia Pacific) Limited, Barclays de Zoete Wedd (Asia) Limited and Baring Securities, specialized in cross-border capital markets and M&A. Mr. Wu holds a B.S. degree in Mechanical Engineering from National Taiwan University and an M.B.A. degree from the University of Rochester, US.

Jessica Pan, Chief Financial Officer - Jessica joined Himax in 2006. She has played an integral role at Himax on finance, accounting, financial planning and analysis, forecasting and tax, having served as interim Chief Financial Officer from October 2010 to January 2012. Prior to joining Himax, Jessica worked as Assistant Finance Manager for Advanced Semiconductor Engineering, Inc. from 2002 to 2006 and as Auditor at Arthur Andersen LLP in Taiwan from 1998 to 2001. She holds a B.S. degree in Agriculture Chemistry from National Taiwan University and an M.B.A. degree from the State University of New York at Buffalo, US.

Eric Li, Chief IR/PR Officer - Joining Himax in 2012, Mr. Eric Li has extensive experience in image processing related IC design, having worked in the areas of sales, marketing, R&D and served as Associate Vice President at Himax covering the Intelligent Sensing AI product line. Previously worked in video processing ASIC service and TV/monitor ASSP products before he was put in charge of the fab construction and WLO advanced optics operation. He holds a B.S. degree in Nuclear Engineering from National Tsing Hua University and an M.S. degree in Computer Science from New Jersey Institute of Technology, US.

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WiseEye™ Ultralow Power AI Sensing / CMOS Image Sensor (CIS)

WiseEye solution, incorporated with our AoS sensor, AI processor and AI algorithm, brings context-aware sensor fusion AI to endpoint devices. Our solution provides ultralow power & superb local inferencing performance with advanced security / privacy features

Strategies and Market Position

- WiseEye AI solution was adopted in Dell's new laptops from Q4 2021 and DESMAN smart door lock in 3Q23 along with others end-point AI applications, such as video conference device, shared bike parking, door lock, smart agriculture, etc.
- Offer plug-n-play WiseEye Modules and no-code/low-code AI development platforms for straightforward integration. WiseEye PalmVein solution offers highly secure biometric authentication for battery-powered access control devices
- Active collaboration with leading AI ecosystem partners, including Google TFLu, Microsoft Azure, Arm, NVIDIA
- Next gen WE2 AI processor offers further advancements in inference speed and ultralow power than WE1
- Extensive CIS product portfolio for multimedia and smart home



Wafer Level Optics (WLO) / 3D Sensing

Offer advanced WLO & 3D Sensing expertise in structured light & ToF for 3D Sensing for AR/VR, optical transmission, gaming, e-payment, door lock, medical applications, etc.

Strategies and Market Position

- Exceptional WLO technologies: MP for anchor customers in AR/VR devices since 2015 and 3D gesture control in VR goggle for a NA customer since 2Q23. Expand application versatility for LPO/CPO for optical transmission in Gen AI and HPC
- New 3D processor offers structured light 3D and Time of Flight (ToF) 3D decoding along with sensor fusion, offering industry-leading, fast response rate for high-precision spatial reality such as 3D naked eye display, gesture control, eye tracking, etc.

Liquid Crystal on Silicon (LCoS) Microdisplays

Leader and longstanding innovator in LCoS displays. With in-house facilities for high-volume production. Has shipped millions of units

Strategies and Market Position

- Focus on AR goggle devices and AR-HUD for automotive
- LCoS is one of the mainstream technology for AR goggle device. Ongoing collaboration with global Tier 1 since 2011
- Several tech giants in the industry have shifted their focus away from micro-OLED to our Front-Lit LCoS for their AR goggles. This demonstrates our exceptional achievements in lightweight and compact form factor (0.5 cc), ultra-illumination (250K nits). Will pave the way for realization of true see-through AR goggles
- Introduced LCoS 2.0 that focus on phase modulation offering. Target holographic display for AR-HUD, LiDAR for autonomous drive and ADAS, WSS for WDM