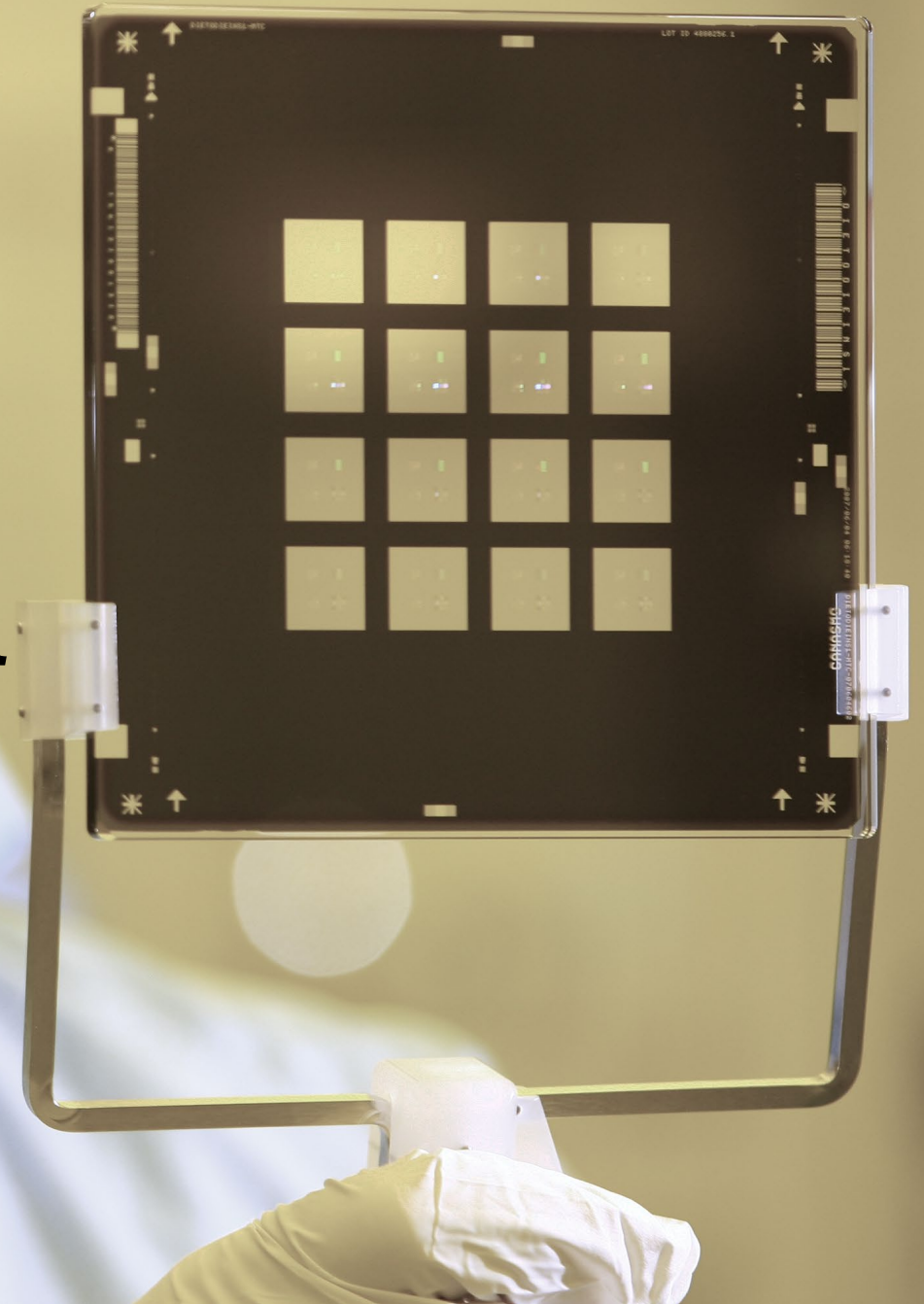




Q4 2024 Financial Results Conference Call

December 11, 2024



Safe Harbor Statement

This presentation and some of our comments during this presentation may contain projections or other forward-looking statements regarding future events, our future financial performance, and/or the future performance of the industry. These statements are predictions and contain risks and uncertainties. We refer you to the risk factors in our Annual Report on Form 10-K for the fiscal year ended October 31, 2023 and other subsequent filings with the Securities and Exchange Commission. These documents contain and identify important factors that could cause the actual results for the Company to differ materially from those contained in our projections or forward-looking statements. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee the accuracy of any forecasts or estimates, and we are not obligated to update any forward-looking statements if our expectations change.

Q4 2024 Summary

\$222.6M Revenue	25.1% Operating Margin	\$0.54 EPS	\$0.59 Non-GAAP EPS¹	\$68.4M Operating Cash Flow	\$640.7M Cash² and Short- term investments
(2%) Y/Y 6% Q/Q	(340) bps Y/Y 40 bps Q/Q	(25%) Y/Y (2%) Q/Q	(2%) Y/Y 16% Q/Q	(36%) Y/Y (9%) Q/Q	25% Y/Y 6% Q/Q

Revenue improved sequentially with growth in both IC and FPD product lines; high-end IC demand from foundries in the US and Asia were the biggest drivers to growth; long-term demand driven by megatrends such as AI, IoT, and supply chain regionalization.

Operating margin increased Q/Q as improved gross margin was partially offset by higher operating expenses; after adjusting for FX, non-GAAP EPS was \$0.59, a 16% increase from Q3 2024.

Strengthened balance sheet by increasing cash and short-term investments balance and reducing debt through solid cash flow generation, providing flexibility to support capital allocation strategy, with announced plans to expand US IC manufacturing capacity.

Capital allocation strategy based upon investing in growth, returning cash to shareholders, and potential business development initiatives, all focused on increasing shareholder value.

Strong Quarter to End the Year, Giving Us Momentum as We Enter 2025

¹See reconciliation included in this presentation; ²Includes cash equivalents

2024 Summary

\$866.9M Revenue	25.6% Operating Margin	\$2.09 EPS	\$2.05 Non-GAAP EPS¹	\$261.4M Operating Cash Flow	\$640.7M Cash² and Short- term investments
(3%) Y/Y	(280) bps Y/Y	3% Y/Y	1% Y/Y	(14%) Y/Y	25% Y/Y

Revenue lower due to general semiconductor industry softness following a record fiscal 2023.

Operating margin compression due to impact from operating leverage on gross margin and higher opex; non-GAAP EPS was flat.

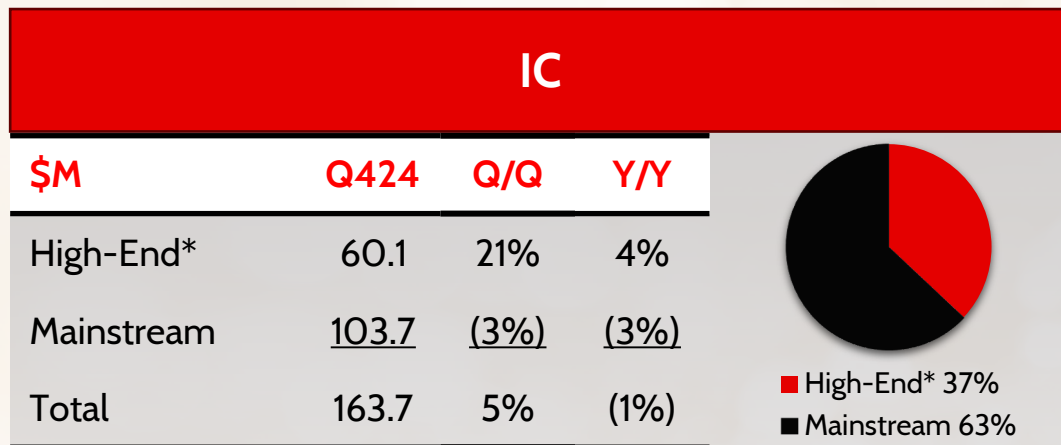
Strengthened balance sheet due to cash flow generation, allowing us to increase cash balance while reducing debt.

Multi-pronged capital allocation strategy to invest in growth, return cash to shareholders, and explore business development initiatives.

Managed to Drive Strong Cash Flow Generation and Deliver Sustainable Shareholder Value

¹See reconciliation included in this presentation; ²Includes cash equivalents

Revenue by Product Line

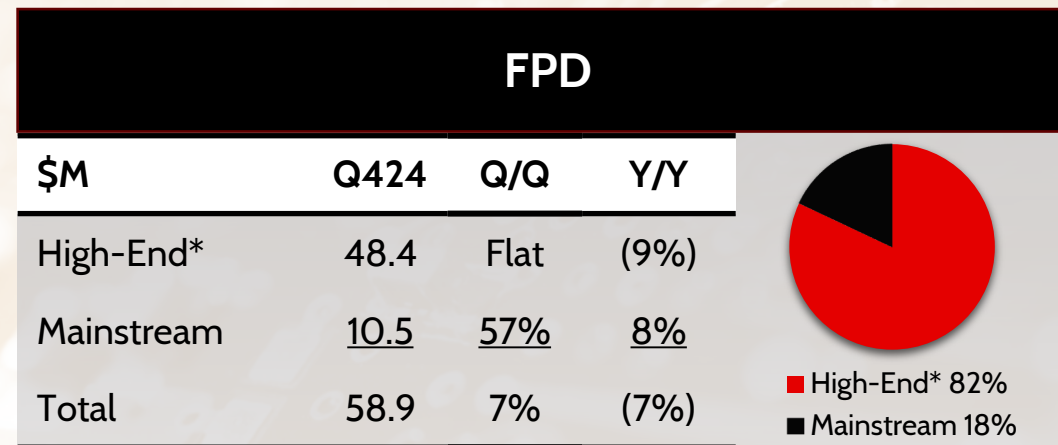


High-end sales improved on higher foundry demand from the US and Asia; memory was stronger Y/Y.

Mainstream down due to mid-quarter softness that has since stabilized.

Long-term growth drivers:

- New designs by customers to gain market share and support technology roadmap for megatrends such as AI.
- Regionalization driving investments for global chip capacity.
- Complex advanced leading-edge nodes require higher number of layers and masks.



High-end flat Q/Q as strong G10.5+ sales offset by softer mobile display demand.

Mainstream improved as we allocated capacity during soft high-end demand.

Long-term growth drivers:

- Technology development drives higher-value mask demand.
- Mobile demand is expected to remain strong with rollout of new designs and emerging panel makers winning market share.
- AMOLED moving to larger G8.6 form factor driving need to collaborate on mask development.

*IC: 28nm and smaller; FPD: G10.5+, AMOLED and LTPS
Totals may differ due to rounding

Balance Sheet and Cash Flow Metrics

\$M	Q424	Y/Y	Q/Q
Cash, cash equivalents and Short-term investments	640.7	25%	6%
Debt	18.0	(27%)	(10%)
Operating Cash Flow	68.4	(36%)	(9%)
Capital Expenditures	43.2	(18%)	77%

Actively controlling cash, cash equivalents, and short-term investments to maintain liquidity and optimize returns, while also reducing Debt (comprised of US equipment leases).

Continued strong operating cash flow from income generation and working capital management.

Capex targets growth in IC capacity, tool replacement, & facility expansion.

Strong balance sheet allows us to fund growth investments, return cash to shareholders, consider business development initiatives, and remain resilient to effects of industry downturns.

Balance Sheet Provides Resilience, Enables Growth Strategy and Shareholder Value Creation

Q1 2025 Guidance

Revenue (\$M)	208 – 216
Operating Margin	23% - 25%
Taxes (\$M)	17 – 19
Diluted non-GAAP EPS	\$0.43 - \$0.49
Diluted Shares (M)	~62
Full-year Capex (M)	200

Reflects typical Q1 seasonality, including Chinese New Year beginning in late January. Incorporation of chips in AI, IoT, 5G, and consumer products.

- New designs to capture market share.
- Advanced display technologies.

Outlook clouded by geopolitical uncertainty and macro-economic headwinds.

Disciplined cost controls and managing cash to maximize returns and deliver long-term shareholder value.

Corporate Overview

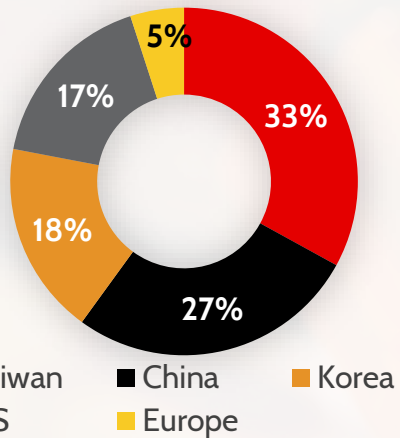


Photronics Overview (Nasdaq: PLAB)

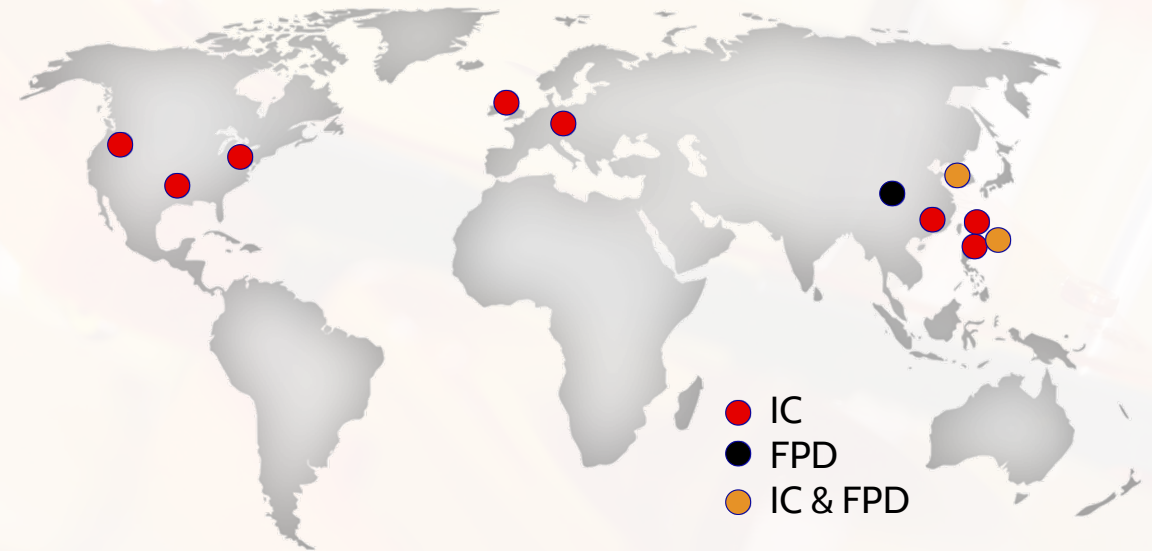
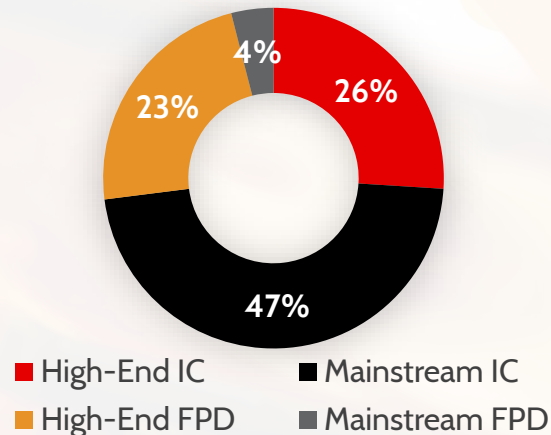
\$867M Revenue	\$222M Operating Income	\$261M Operating Cash Flow	\$1.6B Market Cap <small>12/3/2024</small>	~1,900 Employees	~675 Customers	1969 Founded
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Unmatched Global Footprint 11 STRATEGICALLY LOCATED MANUFACTURING FACILITIES

Revenue By Region

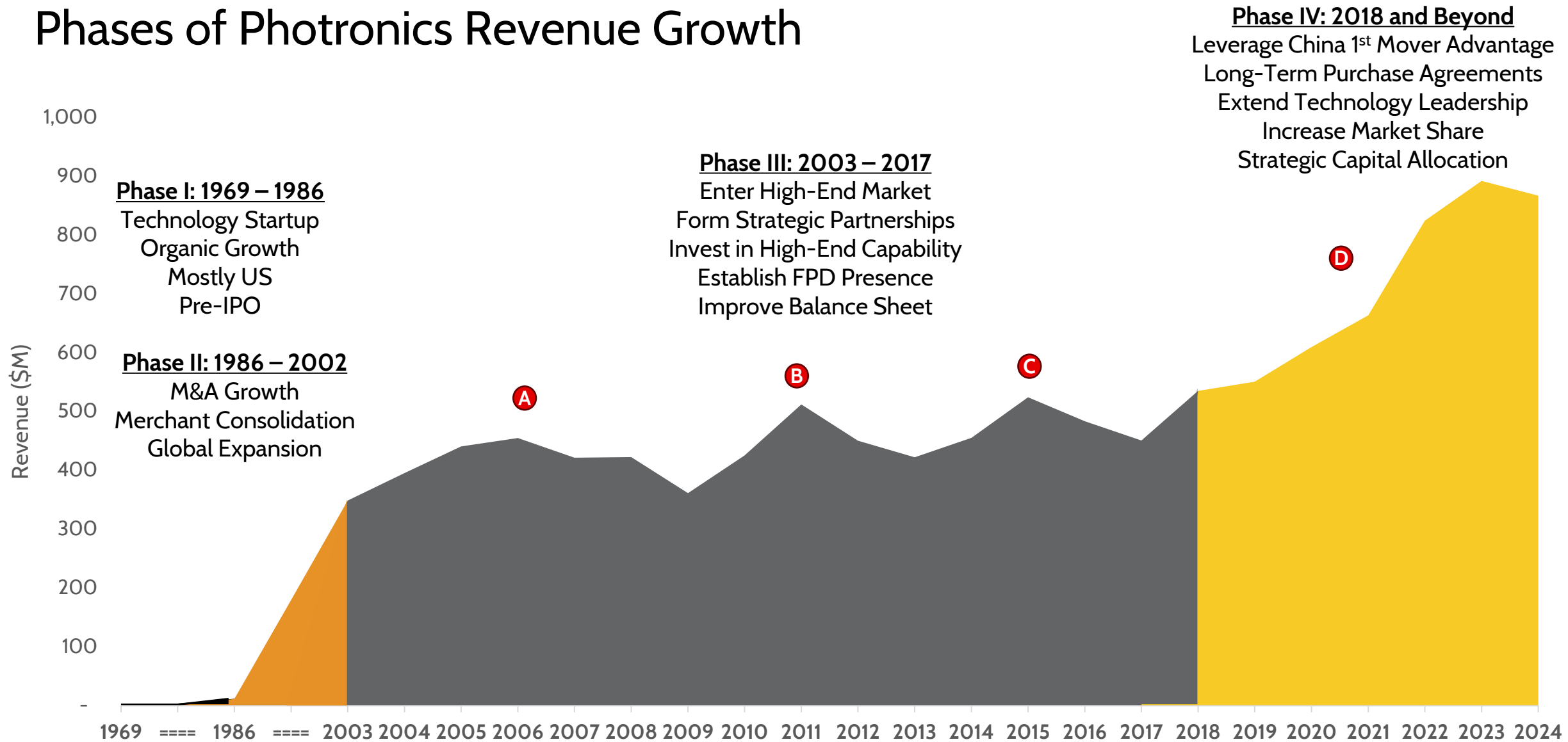


Revenue By Product Group



All data are last twelve months as of 10/31/2024 unless otherwise noted | IC: Integrated Circuit | FPD: Flat Panel Display

Phases of Photronics Revenue Growth



Technology inflections catalyze Future Demand:



G7.5 Display Substrate



High-End IC Memory



High-End IC Logic



G10.5+ Display Substrate
AMOLED Mobile
"Made In China 2025"

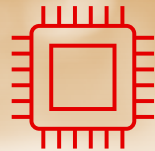
Compelling Investment Thesis



GLOBAL LEADER in the **merchant** photomask industry

Trusted supplier due to rapid response of high-quality masks

Broad technology suite and geographic presence



POSITIVE DEMAND TRENDS drive **strategic growth** investments

Semiconductor industry expansion driving design activity across all nodes

Advanced displays require additional layers and leading mask technologies



SOLID EXECUTION driven by a **culture of** sustainable performance

Driving operational excellence through core competencies

Competitive advantage in industry with high barriers to entry



INVESTMENT STRATEGY To deliver **sustainable cash** flow generation

Supports organic growth initiatives

Targets industry demand and technology trends

Demonstrated Success Delivering Value to Customers and Creating Value for Shareholders

Core Competencies Serve as Competitive Advantages



Operational Excellence

Responsive delivery
High yields
Cost control
Supply chain optimization
Teamwork and execution



Commercial Excellence

Customer first
Trusted partner
Wafer yield enhancement
Technology roadmap enabler



Technology Leader

Process know-how
Advanced Process-of-Record
High barriers to entry



Global Footprint

Close to customer
Aligned with end markets
Flexible supply chain

Long-Term Trends Driving Photomask Demand

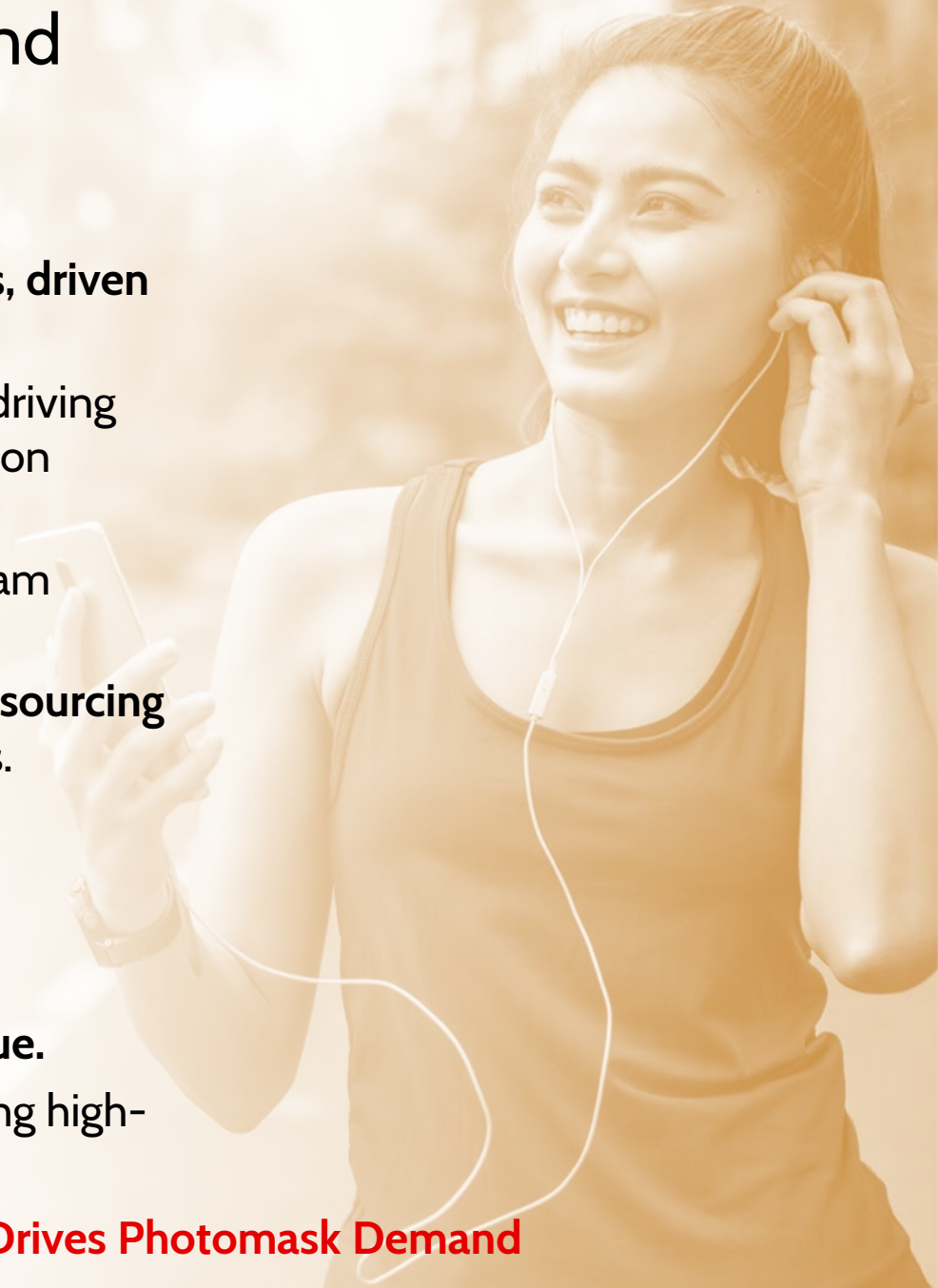
Semiconductor: growing capacity and design activity

1. More extensive use of semiconductors across multiple applications, driven by megatrends such as AI and IoT.
2. Supply chain regionalization supported by governments globally driving investments in semiconductor fabs that creates redundant production capacity and drives photomask demand.
3. Differentiation by design becoming competitive factor in mainstream (ASIC) and leading-edge applications.
4. Expanding EUV adoption drives semi manufacturer photomask outsourcing of legacy technology nodes, increasing TAM for merchant suppliers.

Display: advanced displays driving innovation

1. Global panel makers innovating to win AMOLED market share.
2. Growing panel competition drives innovation and greater mask value.
3. AMOLED manufacturing moving to larger G8.6 form factor, requiring high-quality, advanced photomasks.

Innovative Designs and Manufacturing Complexity Drives Photomask Demand



Supply Chain Regionalization Driving Global Semiconductor Investments

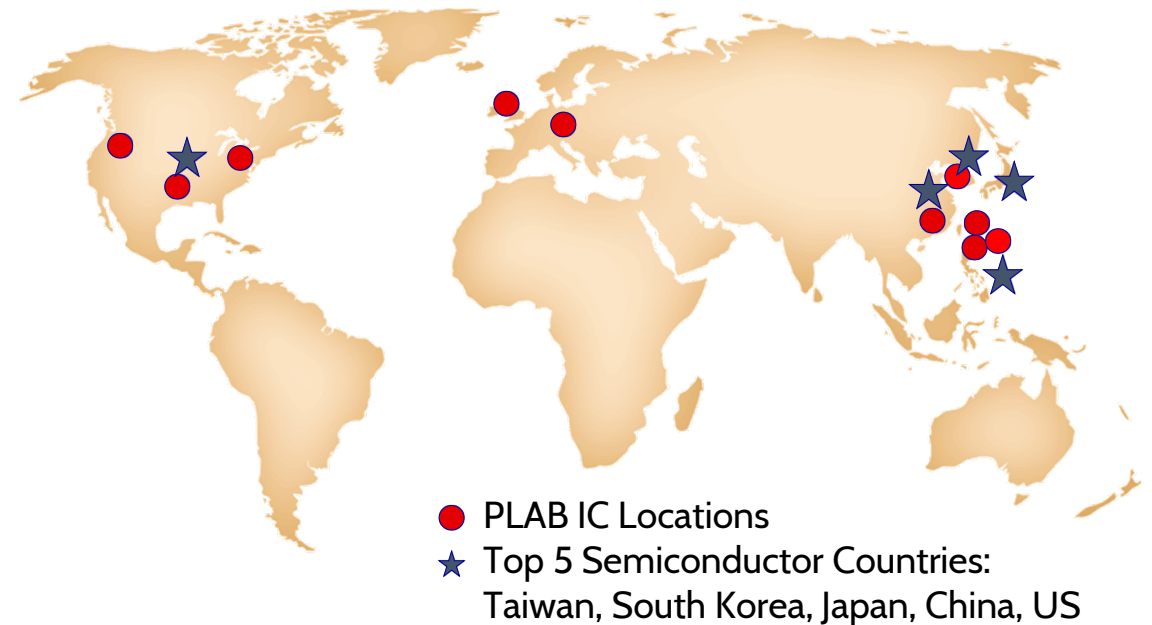
Concerns around national security and supply chain reliability are driving regional investments in semiconductor manufacturing.

Semiconductor fabs are capitalizing on government incentives to build capacity in US, Europe, and Asia.

Regionalization creates additional semiconductor production, increasing global demand for photomasks.

Photronics has operations in 4 of the top 5 countries for semiconductor manufacturing.

Our IC Manufacturing Footprint Aligns with Global Semiconductor Production



Unmatched Geographic Presence-Positioned to Benefit from this Trend

Advanced Displays are Driving Innovation

AMOLED displays continue to **gain market share in mobile displays**, including smartphones, tablets, and PC.

Emerging panel makers releasing **new AMOLED displays** to gain market share against established incumbents.

Panel makers incorporating additional functionality into displays (e.g., biometric sensors), **increasing value and complexity of mask set**.

New form factors (e.g., flexible or rollable displays) requiring AMOLED technology continue to be introduced.

Panel makers are developing AMOLED production process to increase **substrate size to G8.6**, requiring larger, high-quality advanced masks.

Mini- or Micro-LED are future technologies that could drive additional mask demand across many applications.

Innovation and Design Complexity Favors Us as Technology Leader

Clear Capital Deployment Priorities Supported by Strong Balance Sheet

Fund organic growth

Increase IC capacity

Maintain technical leadership

Expand capacity to support customer demand

Financial discipline to improve ROIC

Share repurchase

Repurchased 12M shares, returning \$130M to shareholders since 2018

\$100M remaining under current authorization

Business development initiatives

IC & FPD photomask industry, including strategic partnerships or joint ventures

Adjacencies to increase revenue diversification

\$M	2024
Cash and Short-term Investments	641
Debt	18
Operating Cash Flow	261
Capital Expenditures	131

Balance Sheet Provides Resilience, Enables Growth Strategy and Shareholder Value Creation

Strategic Investment Strategy Sustains Profitable Growth

STRATEGIC APPROACH TO CAPITAL INVESTMENTS

Organic growth through high-return targeted capacity expansion
Enter LTPAs to mitigate investment risk and quickly ramp revenues

GROW REVENUE IN EXCESS OF MARKET

Win market share in growing
IC and FPD markets

Leverage global footprint to benefit
from IC regionalization trends

Capitalize on FPD technology
leadership to continue improving mix

Enter long-term purchase agreements
and earn process-of-record

MARGIN EXPANSION IMPROVES PROFITS

Improved pricing environment
in high-end and mainstream IC

Dynamically align asset tool set
to match end-market demand

Increasing benefit from
operating leverage

WINNING THROUGH COMPETITIVE ADVANTAGES

Operational Excellence

Commercial Excellence

Technology Leader

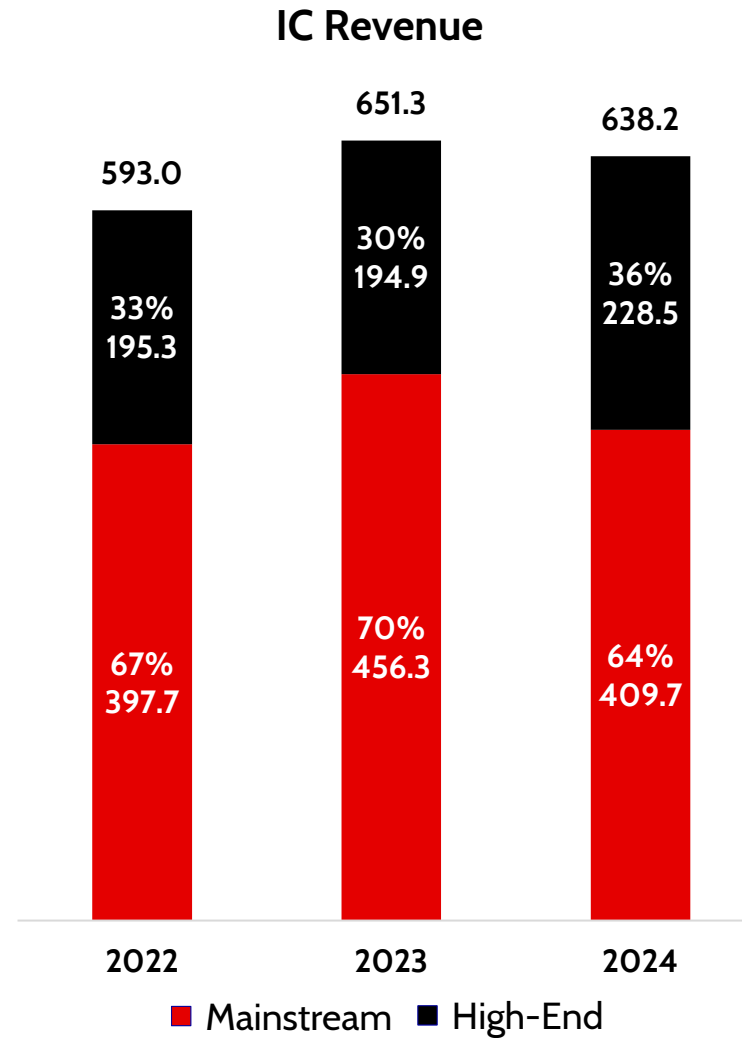
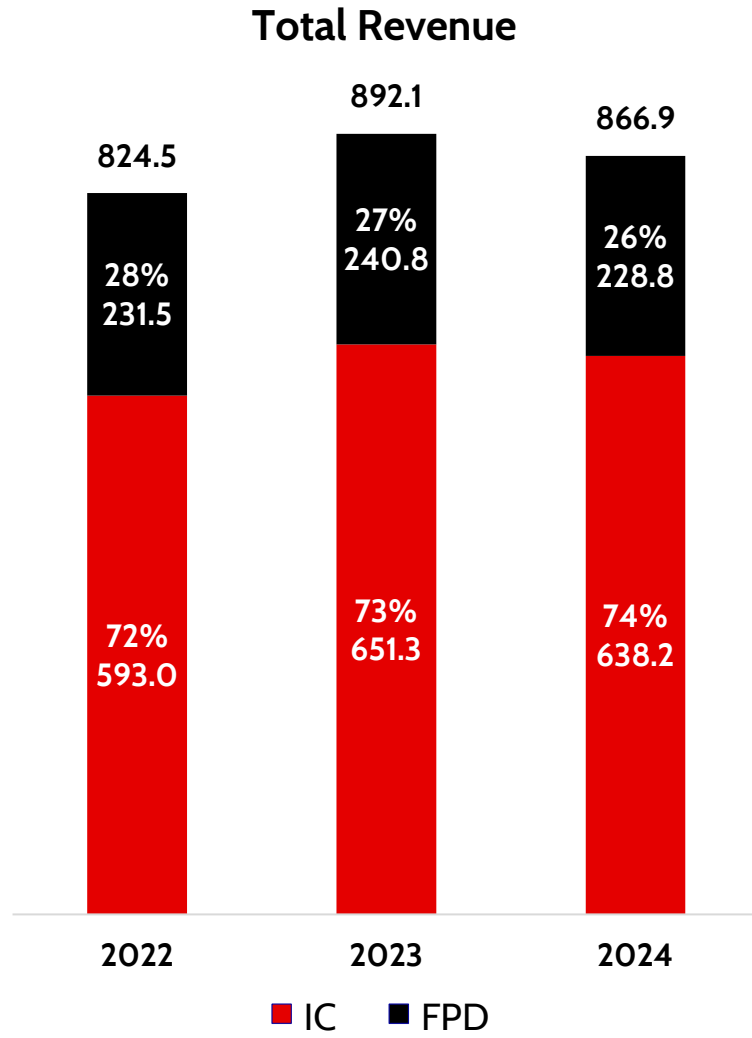
Global Footprint

Proven Approach to Profitably Grow Revenue, Capture Market Share, and Improve ROIC

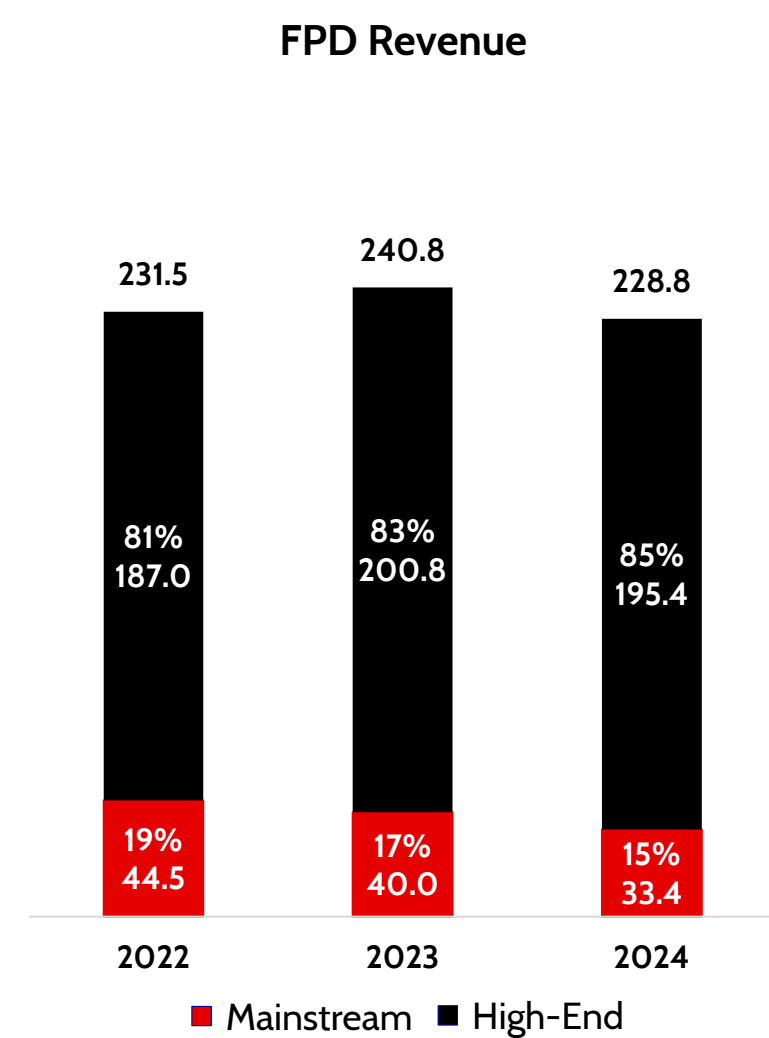
Appendix



Revenue by Product Group (\$M)



High-End: 28nm and smaller



High-End: G10.5+, AMOLED and LTPS

Total may differ due to rounding

Non-GAAP Financial Measures

Non-GAAP Net Income attributable to Photronics, Inc. shareholders and non-GAAP diluted earnings per share are "non-GAAP financial measures" as such term is defined by Regulation G of the Securities and Exchange Commission, and may differ from similarly named non-GAAP financial measures used by other companies. The attached financial supplement reconciles Photronics, Inc. financial results under GAAP to non-GAAP financial information. We believe these non-GAAP financial measures that exclude certain items are useful for analysts and investors to evaluate our future on-going performance because they enable a more meaningful comparison of our projected performance with our historical results. These non-GAAP metrics are not a measure of consolidated operating results under U.S. GAAP and should not be considered as an alternative to Net income (loss), Net income (loss) per share, or any other measure of consolidated results under U.S. GAAP. The items excluded from these non-GAAP metrics, but included in the calculation of their closest GAAP equivalent, are significant components of the condensed consolidated statement of income and must be considered in performing a comprehensive assessment of overall financial performance. Please refer to the non-GAAP reconciliations on the following page.

Non-GAAP Financial Measures

PHOTRONICS, INC.

Reconciliation of GAAP Net income attributable to Photronics, Inc. shareholders to Non-GAAP Net income and GAAP Diluted Earnings Per Share to Non-GAAP Diluted Earnings Per Share

(in thousands)

(Unaudited)

	Three Months ended			Year Ended	
	October 31, 2024	July 28, 2024	October 31, 2023	October 31, 2024	October 31, 2023
GAAP Net Income attributable to Photronics, Inc. shareholders	\$ 33,869	\$ 34,388	\$ 44,611	\$ 130,688	\$ 125,485
FX (gain) loss	7,758	(4,068)	(13,234)	(2,168)	(2,466)
Estimated tax effects of FX (gain) loss	(1,936)	914	3,437	477	317
Estimated noncontrolling interest effects of above	(2,637)	681	2,431	(1,407)	2,676
Non-GAAP Net income attributable to Photronics, Inc. shareholders	\$ 37,054	\$ 31,915	\$ 37,245	\$ 127,590	\$ 126,012
Weighted-average number of common shares outstanding - Diluted	62,456	62,414	62,067	62,391	61,755
GAAP Diluted Earnings Per Share	\$ 0.54	\$ 0.55	\$ 0.72	\$ 2.09	\$ 2.03
Effects of non-GAAP adjustments above	0.05	(0.04)	(0.12)	(0.04)	0.01
Non-GAAP Diluted Earnings Per Share	\$ 0.59	\$ 0.51	\$ 0.60	\$ 2.05	\$ 2.04