

Display Long-Term Demand Forecast Tracker

Ricky Park, Director

ACTUALS AND FORECAST

Frequency, Time Period

- Quarterly update
- 2-year quarterly results
- 20-quarter (5 year) and 3-year forecast

Measures

- Units, revenue, area
- Application, technology, screen size, resolution, aspect ratio, backlight type, color, PPI
- Panel shipments, ASPs, revenues, display area, and average size segmented by
 - o Over 35 display applications
 - o Over 20 display technologies
 - o Over 100 panel sizes
 - o LCD backlight unit type

PRODUCT COVERAGE

3D shutter, automobile monitor, automotive, calculator, CRT TV, desktop monitor, digital photo frame, digital still camera, e-book, feature phone (cell), feature phone (module), game, head-up display, home appliance, industrial, instrument cluster, LCD TV, mobile phone sub display, multi-function printer, near eye, notebook pc, office appliance, OLED TV, pachinko, plasma TV, portable media player, portable navigation device, projector, public display, smart watch, smartphone (cell), smartphone (module), tablet PC, video, video camera, watch, and others

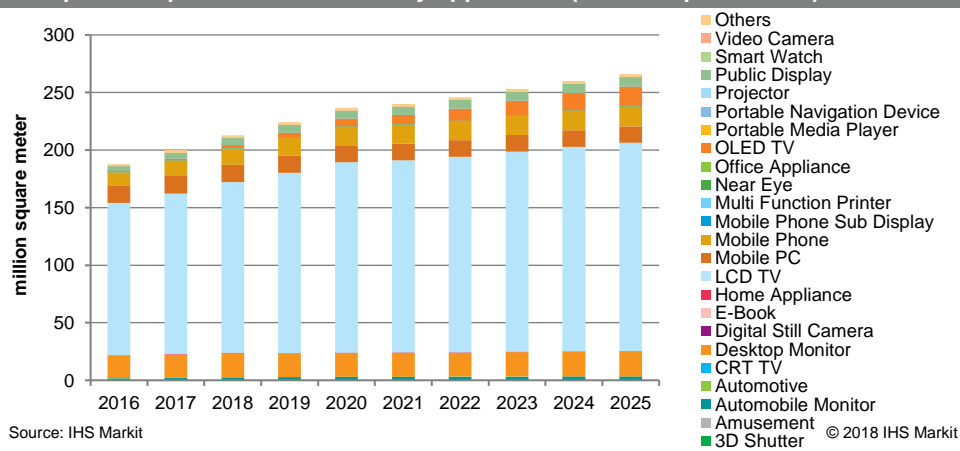
TECHNOLOGY COVERAGE

TFT-LCD (a-Si, HTPS, LTPS, Oxide), AMOLED (LTPS, OLED on Si, Oxide), PMOLED, PDP, PMLCD (CSTN, MSTN, TN, VA), AMEPD, PMEPPD, LCOS, MEMS, DLP, VFD

The Display Long-Term Demand Forecast Tracker covers worldwide shipments and forecasts for all major flat panel display applications, including details from worldwide FPD producers. The report is like a dictionary of the flat panel display industry, covering all kinds of technologies, features, sizes, resolutions, units, prices, revenues, and area. In this report, IHS industry experts analyze historical shipments and forecast projections and provide some of the most detailed information and insights available. The report includes pivot tables and an Excel-based charting and graphing tool for customized data views. Use this report to:

- Formulate product and pricing strategies
- Understand current economic risks, opportunities, and key considerations
- Gain insight into specific technologies, applications, and go-to-market strategies
- Discover new trends, applications, and markets and assess their potential

FPD panel shipment area forecast by application (million square meter)



Key Issues Addressed

- What are the actual panel shipments and expected demands for all applications including TVs, desktop monitors, notebook, mobile phone, smart watch, and 15 other applications?
- What factors are impacting flat panel demand by size and resolution, and what will drive future demand?
- How are technologies competing in specific markets?
- What market segments offer growth opportunities?
- What are the current trends and mid-term forecasts for each display type?

Applicable To

Brand manufacturers/OEMs/ODMs for TVs/monitors/notebooks/tablets

- Product planning managers for systems sales
- Procurement managers for LCD components

LCD panel suppliers

- Product marketing and strategic planning managers

LCD component suppliers

Manufacturers of competitive technologies

Investment community

LEAD ANALYST

Ricky Park - Director

Ricky Park joined IHS Markit in 2001 as an analyst and he is now director of the LCD research. His team publishes more than 15 syndicated reports, covering the large-area TFT LCD panel market and all applications using larger-sized panels. He also serves as project manager for dozens of high-value industry feasibility studies carried out for Fortune 500 companies.

Ricky was one of the main developers of the LCD research practice where he applied his unique methodology, processes, and network capability to expand the TFT LCD research business into its current form. He holds a large number of key market analyses specializing in various technologies and applications of the electronics value chain industry.

He received a Bachelor's degree in Engineering from Hanyang University.

TECHNOLOGY SOLUTIONS FROM IHS MARKIT

The Technology Group at IHS Markit is the leading source of information, insight and analytics in critical areas that shape today's technology ecosystem—from materials and components, to devices and equipment, to end markets and consumers. Businesses and governments in more than 150 countries around the globe rely on the deep market insight and expert independent analysis of our 300+ industry analysts in technology sectors spanning IT, telecom, media, industrial, automotive, electronics, solar and more.

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Key findings

FPD market & technology outlook

- Annual FPD sales summary
- Annual sales by FPD technology
- Large-area TFT LCD average diagonal size
- LCD TV panel makers' business plans
- 4K LCD TV panel shipments
- Panel supply/demand & capacity shift
- Large OLED & curved screens
- AMOLED vs. LTPS & Chinese smartphone market
- Automotive TFT LCD & smart watches and wearables

Application view

- Notebook PC panel interface trends
- Notebook PC panel color gamut trend
- Notebook wide view angle panel shipments
- LCD monitor wide view angle panel shipments
- Monitor panel size competition
- LCD TV panel supply/demand outlook
- Pixel structure of FHD, 4K, and RGBW
- Smartphone display quarterly shipment trends by technology
- Mobile phone panel market forecast: display size & Resolution
- Smartphone display PPI by region
- AMOLED market forecast
- Automotive monitor market forecast
- Smart watch display trends

Resolution trends

- High resolution display trends
- AMOLED display technology roadmap and future challenges
- Large-area (>9.1") TFT LCD resolution
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- Mobile phone display resolution
- Tablet PC display resolution
- Notebook PC display resolution
- Desktop monitor display resolution
- Automotive monitor resolution
- AMOLED resolution

Methodology

For more information [ihsmarkit.com/technology](https://www.ihsmarkit.com/technology)

About IHS Markit

IHS Markit (Nasdaq: INFO) is a world leader in critical information, analytics and solutions for the major industries and markets that drive economies worldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 key business and government customers, including 85 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.