

# OLED & LCD Supply Demand & Equipment Intelligence Service

## Part of the Display Manufacturing, Technology & Components Service Area Package

A comprehensive guide to fab activity, capacity, utilization, supply/demand, capital equipment, manufacturing technology, financial information and relevant news analysis for the entire FPD supply chain.

“The service is an unparalleled reference resource for analyzing the intersection between FPD supply and demand. Additionally, it’s a great read, updated regularly with technology and news analysis as well as information from deep inside the FPD supply chain.”

**Charles Annis**  
Senior Director

# OLED & LCD Supply Demand & Equipment Intelligence Service

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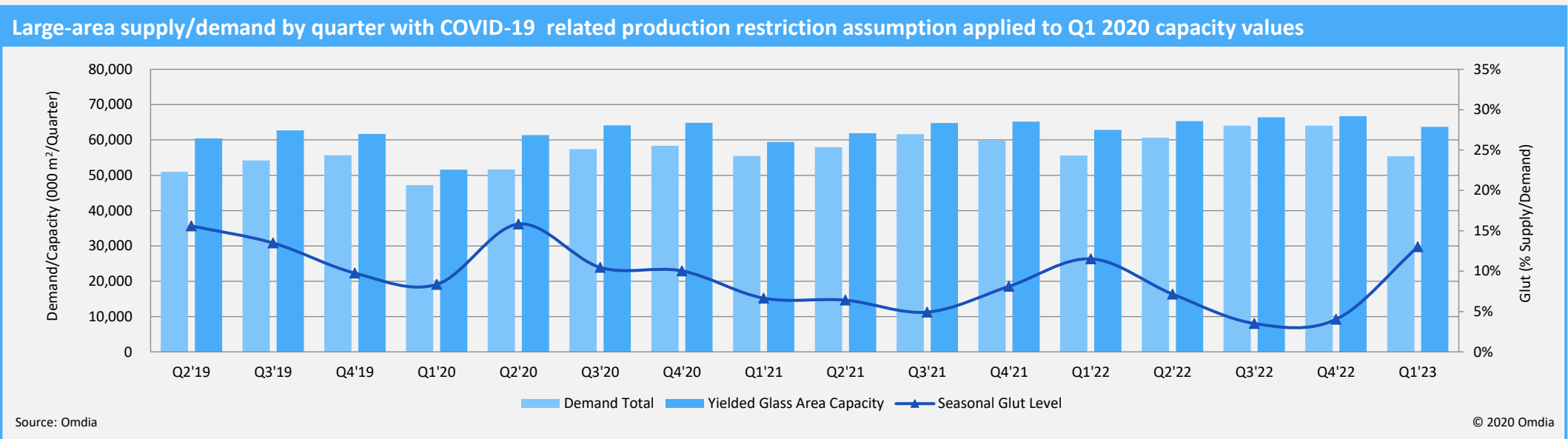
## HOW OMDIA HELPS YOU

- See where competitors are winning business
- Identify companies to target for equipment component sales
- Understand what machines competitors are using for specific applications
- Model profitability, and worth on equipment companies for investment opportunities
- Identify technology development partners or acquisition targets in the display industry
- Stay up-to-date on the latest news and technology trends

## KEY QUESTIONS ADDRESSED

- How does the intersection between FPD supply and demand affect factory utilization, panel prices, investment or shutdown plans?
- What political, market, and technology developments cause the outlook for FPD supply chain participants to change?
- How can you use capacity, demand, inventory, equipment, price and more data to support your own corporate planning strategies?

### Large FPD Supply/demand by quarter



# OLED & LCD Supply Demand & Equipment: Our Expert Analysts



**Charles Annis**  
Practice Leader,  
Display Manufacturing,  
Technology, Components & Cost

# OLED & LCD Supply Demand & Equipment: Deliverables



## MARKET TRACKERS

—Quarterly—

- OLED & LCD Supply Demand & Equipment



## DATABASE

—Quarterly—

- Display Fab Equipment Design Wins Database



## REPORT

—Quarterly—

- Panel Maker Financial Analysis Tracker



## ANALYST INSIGHTS

—Ongoing—

Analyst commentary on market shifts, technology and regional developments, vendors, events, and more.



## PRESENTATIONS

—Quarterly—

Quarterly scheduled briefings with analysts on research highlights from all aspects of the market.



## ANALYST ACCESS

—Ongoing—

For prompt responses to urgent and unique questions.

# OLED & LCD Supply Demand & Equipment: Market Tracker

## OLED & LCD Supply Demand & Equipment

This tracker quantitatively and qualitatively analyzes all industry participants and key diagnostic metrics, delivering the most current and complete view of both the supply and demand sides of the industry

### DETAILS

**Frequency:** Quarterly in XLS and PPT

**Period:**

- Q1'2000 to current year + 5 year forecast

**Regions** with provinces and cities where applicable

- Worldwide

**Applications**

- Smartphones, tablets, notebooks, monitors, TVs, public displays, VR/AR, E-paper, wearables, automotive, alternative applications, etc.

**Technologies**

- a-Si, LTPS, LTPO, Oxide, organic TFT, TFT LCD, AMOLED, QD OLED, WOLED, OLED on Si, rigid, flexible, rollable, etc. panel technologies as well as equipment and manufacturing technologies

### COVERAGE

- For TFT, color filter and OLED, capacity by substrates per month and m<sup>2</sup> by country, manufacturer, factory, phase, mother glass size, technology, application, application detail, process type, equipment purchase order, install, production, shutdown and depreciation dates, probability of project completion, and more
- Small medium and large-area capacity allocation by factory
- TFT utilization by country, maker, factory, region, mother glass size and technology
  - Monthly data is historical with one quarter forecast
- Capacity by LC mode
- Shipment by factory data base
- Foldable OLED production data base
- LCD module capacity
- Investment announcements tracker
- Demand summary in units and m<sup>2</sup> by application and size
- Supply/demand analysis for large-area and small/medium applications, LCDs and OLEDs
- Panelization
- Equipment units, revenue for TFT, OLED and other processes by year, region, mother glass size and technology
- FPD equipment maker data base, process, machine, region, URL and t comments
- FPD maker financials by revenue, operating and net profits

### ANALYSIS COVERAGE

**Key findings and FPD weather forecast**

- 1.0 Executive summary
- 2.0 News and other analysis
- 3.0 Fab Activity
  - 3.1 TFT
  - 3.2 OLED
- 4.0 TFT-based supply/demand and fab utilization
- 5.0 FPD inventory issues
- 6.0 Panel and manufacturing technology
- 7.0 Equipment spending
- 8.0 Financial analysis
- 9.0 Methodology

# OLED & LCD Supply Demand & Equipment: Database

## Display Fab Equipment Design Wins

This database offers a unique look how many, and of which machines, panel makers are buying from which equipment companies. The data base is updated and expanded on at least a quarterly basis.

### DETAILS

**Frequency:** Updated as new information becomes available, in XLS.

**Note:** Over 9,000 machines counted and number expanding on a quarterly basis

### COVERAGE

- Region
- City
- State
- Company
- Factory
- Product
- Display Tech
- TFT Tech
  - a-Si
  - LTPS
  - Oxide
  - Si
- Mother Glass Size
- Gen
- Panel tech
  - AMOLED
  - OLED on Si
  - TFT-LCD
- Process
  - Array
  - Cell
  - CF
  - Encapsulation
  - Evaporation
  - Front plane
  - Metrology
  - Module
  - Micro OLED
  - Other
  - OLED
  - R&D
  - Touch
- Type
- Equipment detail
- Units
- Units/Sets
- Decision timing
- Equipment vendor
- Equipment vendor region

# OLED & LCD Supply Demand & Equipment: Database, cont'd

## Display Fab Equipment Design Wins

Example as of November 5, 2019

### EXAMPLE

#### As of June, 30, 2020

- Number of equipment wins (9204)
- Number of factories covered (34)
- Number of processes covered (19)
- Number of "Type" covered (33)
- Number of "Equip Detail" covered (460)
- Number of Equipment Vendors covered (183)

**Note:** coverage of this database will expand regularly

Company	Factory	Product	Display Tech	TFT Tech	MG Size	Gen	Panel Tech	Process	Type	Equipment Detail	Units	Unit/set	Decision Timing	Equipment Vendor	Vendor Region
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	Implant	Ion Implant	3	Set	Jul-15	Nissin Ion	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	Exposure	Exposure	10	Set	Aug-15	Nikon	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	Coater/Developer	Coater/Developer	6	Set	Aug-15	SCREEN Finetech Solutions	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	Developer	Developer	1	set	Aug-15	SCREEN Finetech Solutions	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	ELA	ELA	4	Unit	Aug-15	JSW	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	CVD	CVD	6	Set	Aug-15	ULVAC	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	Etcher	Dry Etcher	7	Set	Aug-15	TEL (Tokyo Electron)	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array+CF	PVD	PVD: ITO	1	set	Aug-15	Applied Materials (AKT)	USA
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	PVD	PVD: Metal	3	Set	Aug-15	ULVAC	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	CF	Developer	Developer	3	set	Aug-15	Shibaura	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Cell	Printer	PI Printer	1	Unit	Sep-15	linuma Gauge	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Cell (ODF)	Dispenser	LC Dispenser	2	Unit	Sep-15	AIMECHATEC, Ltd.	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Cell (ODF)	Alignment	Vacuum Aligner	3	Unit	Sep-15	AIMECHATEC, Ltd.	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array+CF	Etcher	Wet Etcher: Al & ITO	2	Unit	Sep-15	Manz	Taiwan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	Test	Array Tester	2	Unit	Sep-15	Yang Electronic Systems	Korea
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	Test	Array Tester	2	Unit	Sep-15	HuaYun Tech	Taiwan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Others	AOI	AOI	5	Unit	Sep-15	Orbotech	Israel
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Array	Test	Array Tester: Voltage Imag	1	Unit	Sep-15	Orbotech	Israel
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Cell (ODF)	Dispenser	Seal Dispenser	4	Unit	Sep-15	Musashi Engineering	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	CF	Repair	Laser Repair	2	Unit	Sep-15	V-Technology	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	CF	Repair	Color Repair	4	Unit	Sep-15	V-Technology	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	CF	AOI	AOI	7	Unit	Oct-15	Takano	Japan
AUO	FVO Kunshan L6K LTPS	Panel	LCD	LTPS	1500 x 1850	6	TFT LCD	Cell	AOI	AOI	1	Unit	Oct-15	Orbotech	Israel

# OLED & LCD Supply Demand & Equipment: Report, Surveys and Analysis

## OLED & LCD Supply Demand & Equipment Tracker

This tracker quantitatively and qualitatively analyzes all industry participants and key diagnostic metrics, delivering the most current and complete view of both the supply and demand sides of the industry

**Frequency:** Quarterly

The OLED and LCD Supply Demand & Equipment Tracker is a comprehensive guide to fab activity, capacity, utilization, supply/demand, capital spending, financial information, and relevant news analysis for the entire FPD supply chain. With quarterly coverage of all industry participants and key analytical metrics, this tracker delivers the most current and complete view of both the supply and demand sides of the industry.

## Panel Maker Financial Analysis Tracker


Provides insight on panel makers' financial performance, company business sector changes, company profile changes, and investment financing structure.

**Frequency:** Quarterly

The Panel Maker Financial Analysis Tracker is part of the OLED & LCD Supply Demand and Equipment Intelligence Service. It provides quarterly financial updates of all public FPD makers. The tracker includes key operating results, and offers in depth analysis of Chinese panel makers' financial performance.



# Related Content: Display Manufacturing, Technology & Components Service Area Coverage



Service Area Package: **Display Manufacturing, Technology & Components**

- OLED & LCD Supply Demand & Equipment Intelligence Service
- OLED & Flexible Display Intelligence Service
- Foldable Display Tech/ Market Report
- Micro LED Display Market Tracker
- Mini LED Backlight Market Tracker
- Display Glass Market Tracker
- OLED Display Roadmap Tracker
- Display Driver IC Market Tracker
- OLED Materials Market Tracker
- Display Optical Film Market Tracker
- LCD Display Cost Model
- OLED Display Cost Model
- Display Dynamics Intelligence Service

## About Omdia's Display Manufacturing, Technology & Components Research

Industry's most comprehensive coverage of the display supply chain focusing on upstream segments of panel and manufacturing technologies, equipment, as well as materials, components, and costs.

Our research team is based in Asia with extensive years of experience and have previously worked at FPD companies. Omdia's primary research approach is surveying display supply chain companies, creating unique and highly data oriented analysis.

Strong focus in the "connect the dots" between various parts of the FPD industry, upstream, downstream, and to consumer electronics. Omdia research team deep dives of the many niche markets and technologies that characterize the front end of display industry.

# Related Content: Display and Consumer Devices Service Area Coverage

PRODUCTS IN RELATED SERVICE AREA			
Display Manufacturing, Technology & Components	Large Area Display & Supply Chain	Small & Medium Displays & Touch Interface	Consumer Electronics & Display Applications
<p><b>Intelligence Services</b></p> <ul style="list-style-type: none"> <li>• OLED &amp; LCD Supply Demand &amp; Equipment</li> <li>• OLED &amp; Flexible Display</li> </ul> <p><b>Trackers</b></p> <ul style="list-style-type: none"> <li>• Micro LED Display</li> <li>• OLED Display Roadmap</li> <li>• Display Backlight</li> <li>• Display Glass</li> <li>• Display Optical Film</li> <li>• Display Driver IC</li> <li>• OLED Materials</li> <li>• OLED Display Cost Model</li> <li>• LCD Display Cost</li> </ul> <p><b>Reports</b></p> <ul style="list-style-type: none"> <li>• Foldable Display Tech</li> </ul>	<p><b>Intelligence Service</b></p> <ul style="list-style-type: none"> <li>• TV Display &amp; OEM</li> <li>• Notebook/ Tablet Display &amp; OEM</li> <li>• Display Dynamics</li> </ul> <p><b>Trackers</b></p> <ul style="list-style-type: none"> <li>• Display Long-Term Demand Forecast</li> <li>• Display Production &amp; Inventory</li> <li>• Large Area Display Price</li> <li>• Large Area Display Market</li> <li>• Large Area Display Production Strategy</li> <li>• Large Area Display Product Roadmap</li> <li>• Monitor Display &amp; OEM</li> </ul> <p><b>Spotlight Services</b></p> <ul style="list-style-type: none"> <li>• Display Dynamics Spotlight</li> </ul>	<p><b>Intelligence Service</b></p> <ul style="list-style-type: none"> <li>• Smartphone Display</li> </ul> <p><b>Trackers</b></p> <ul style="list-style-type: none"> <li>• Small Medium Display</li> <li>• Small Medium Display Supply Chain</li> <li>• OLED Display</li> <li>• Automotive Display</li> <li>• Touch Panel</li> </ul> <p><b>Reports</b></p> <ul style="list-style-type: none"> <li>• Automotive Touch &amp; Interface</li> <li>• Display Fingerprint Tech</li> <li>• Touch Panel Cover Lens</li> </ul>	<p><b>Intelligence Services</b></p> <ul style="list-style-type: none"> <li>• TV Sets</li> <li>• Smart Home</li> <li>• Mobile PC</li> <li>• Smartphone</li> <li>• Desktop Monitor</li> <li>• LED Video Displays</li> <li>• Digital Signage &amp; Prof. Display</li> </ul> <p><b>Viewpoint &amp; Spotlight Services</b></p> <ul style="list-style-type: none"> <li>• Consumer Electronics Viewpoint</li> <li>• TV Sets Spotlight</li> <li>• Smartphone Spotlight</li> <li>• Digital Signage &amp; Prof. Display Spotlight</li> </ul>

# Our “Ask an Analyst” Service Provides Best in Class Customer Support

Whether you need guidance to navigate the service, information regarding our methodologies or you want to better understand a data trend, Omdia’s support team is here to help.

## Draw on our expertise

- Make the right decisions
- Sanity-check your own findings
- Get the most out of your subscription
- Understand more about our methodologies

Our Ask an Analyst service gives you direct contact via telephone, email or face-to-face session with our expert analyst team:



**Tom Coate**  
Customer Success  
Manager



**Kâren Dyer**  
Customer Success  
Manager



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### ABOUT OMDIA

Omdia is a global technology research powerhouse, established following the merger of the research division of Informa Tech (Ovum, Heavy Reading, and Tractica) and the acquired Omdia technology research portfolio\*. We combine the expertise of more than 400 analysts across the entire technology spectrum, covering 150 markets. We publish over 3,000 research reports annually, reaching more than 14,000 subscribers, and cover thousands of technology, media, and telecommunications companies.

Our exhaustive intelligence and deep technology expertise enable us to uncover actionable insights that help our customers connect the dots in today's constantly evolving technology environment and empower them to improve their businesses—today and tomorrow.

\* The majority of Omdia technology research products and solutions were acquired by Informa in August 2019 and are now part of Omdia.