LCD Display Cost Model

Part of the Display Manufacturing, Technology & Components Service Area Coverage

Covers Large Area LCD Display panels over 9 inches, including Note PC, Monitor, tablet, and TV applications. Subscribers will be able to better understand the panel cost structure and profitability of mainstream panel sizes using the model’s Excel data tables.

TFT LCD Display consists of many sorts of materials and components. Each material and component cost information is the key.

Tadashi Uno
Research Manager
Large Area Display Cost Model

Part of the Display Manufacturing, Technology & Components Service Area Coverage

HOW OMDIA HELPS YOU

• Understand the latest LCD panel cost and the profit margin trend and forecast by size by fab generation
• Understand which fab generation is better to lower panel costs
• Know the estimated panel cost forecast for buyers
• Find typical first tier panel costs and component breakdowns
• Know which application and panel sizes are more profitable

KEY QUESTIONS ADDRESSED

• How can the manufacturing of Large Area TFT LCD Display be profitable?
• How much will the cost increase for the manufacturing of big size TV?

Cost Model 32” HD 60Hz open cell made Gen 8.5

32inch Open cell cost

$
Large Area Display Cost Model: Our Expert Analysts

Irene Heo  
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Display Optical Film

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Principal Analyst  
OLED Material Cost/ Backlight

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Senior Analyst  
Display Components & Cost
**Market Tracker**

### Large Area Display Cost Model

Users can generate forecasts based on various data and assumptions. Standard selections are also prepared in the model, showing many typical panel sizes. These typical selections are easy to work with, allowing users to change starting conditions that affect panel costs like equipment depreciation year. Parameters like component costs, panel prices, panel yield, and fab utilization can also be changed to reflect the user’s real panel conditions.

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>COVERAGE</th>
<th>APPLICABLE TO</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency</strong></td>
<td>Cost Data Covered</td>
<td>- Brand manufacturers/OEMs/ODMs</td>
</tr>
<tr>
<td>- Quarterly</td>
<td>- Indirect expense</td>
<td>- FPD and materials/components procurement division</td>
</tr>
<tr>
<td>- One-year historical</td>
<td>- Target</td>
<td>- FPD Panel suppliers</td>
</tr>
<tr>
<td>- Five-years forecast</td>
<td>- Chemical &amp; indirect materials</td>
<td>- Materials/components PROCUREMENT division</td>
</tr>
<tr>
<td><strong>Measurements</strong></td>
<td>- Array material total</td>
<td>- Panel development division</td>
</tr>
<tr>
<td>- Typical costs for first-tier panel makers (USD)</td>
<td>- Color filter</td>
<td>- Investment Community</td>
</tr>
<tr>
<td><strong>Region</strong></td>
<td>- Polarizer</td>
<td>- Fund managers / investors / analysts with interest in display companies</td>
</tr>
<tr>
<td>- Typical costs from Korea/Japan/China/Taiwan</td>
<td>- Liquid crystal</td>
<td></td>
</tr>
</tbody>
</table>

### Cost Data Covered

- Glass
- Target
- Chemical & indirect materials
- Array material total
- Yielded array material total
- Color filter
- Polarizer
- Liquid crystal
- Cell others
- Cell material total
- Yielded cell material total
- Driver IC
- Backlight
- PCBA, etc.
- Module component total
- Yielded module component total
- Material & component total
- Yielded material & component

- Indirect expense
- Labor cost
- Equipment depreciation
- Facility depreciation
- Manufacturing total cost
- Cash cost
- SG & A
- Sales total cost
- Sales profit
- Module price
- Fab operation
- Yield by process Facility depreciation
- Manufacturing total cost
- Cash cost
- SG & A
- Sales total cost
- Fab operation
- Yield by process
### Notebook PC LCD Panels
- 10.1"_1280X800
- 11.6"_1366X768
- 12.1"_1280X800
- 12.5"_1366X768
- 13.3"_1280X800
- 13.3"_1366X768
- 13.3"_1920X1080
- 13.3"_1920X1080_IPS
- 14.0"_1366X768
- 15.6"_1366X768
- 15.6"_1920X1080
- 15.6"_1920X1080_IPS
- 15.6"_2560X1440_IPS
- 15.6"_3200X1800_IPS
- 15.6"_3840x2160_IPS
- 17.3"_1600X900
- 17.3"_1920X1080
- 17.3"_1920X1080_IPS
- 17.3"_2560X1440_IPS
- 17.3"_3200X1800_IPS
- 17.3"_3840x2160_IPS

### LCD Monitor Panels
- 18.5"_1366X768
- 19.0"_1440x900
- 19.0"_1280x1024
- 19.5"_1600X900
- 20.0"_1600X900
- 21.5"_1920X1080
- 22.0"_1680x1050
- 23.0"_1920X1080
- 23.6"_1920X1080
- 24.0"_1920X1080
- 27.0"_1920X1080

### LCD TV Panels
- 28"_1366X768
- 29"_1366X768
- 32"_1366X768
- 32"_1920X1080
- 39"_1920X1080
- 39"_3840x2160
- 40"_1920X1080
- 40"_3840x2160
- 42"_1920X1080
- 42"_3840x2160
- 43"_1920X1080
- 43"_3840x2160
- 48"_1920X1080
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- 49"_1920X1080
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- 55"_1920X1080
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- 58"_1920X1080
- 58"_3840x2160
- 60"_1920X1080
- 60"_3840x2160
- 65"_1920X1080
- 65"_3840x2160
- 70"_1920X1080
- 70"_3840x2160
- 85"_3840x2160
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

<table>
<thead>
<tr>
<th>Display Manufacturing, Technology &amp; Components</th>
<th>Large Area Display &amp; Supply Chain</th>
<th>Small &amp; Medium Displays &amp; Touch Interface</th>
<th>Consumer Electronics &amp; Display Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Intelligence Services</strong></td>
<td><strong>Intelligence Service</strong></td>
<td><strong>Intelligence Service</strong></td>
<td><strong>Intelligence Services</strong></td>
</tr>
<tr>
<td>• OLED &amp; LCD Supply Demand &amp; Equipment</td>
<td>• TV Display &amp; OEM</td>
<td>• Smartphone Display</td>
<td>• TV Sets</td>
</tr>
<tr>
<td>• OLED &amp; Flexible Display</td>
<td>• Notebook/ Tablet Display &amp; OEM</td>
<td>• Display Dynamics</td>
<td>• Smart Home</td>
</tr>
<tr>
<td><strong>Trackers</strong></td>
<td>• Display Long-Term Demand Forecast</td>
<td>• Small Medium Display</td>
<td>• Mobile PC</td>
</tr>
<tr>
<td>• Micro LED Display</td>
<td>• Display Production &amp; Inventory</td>
<td>• Small Medium Display Supply Chain</td>
<td>• Smartphone</td>
</tr>
<tr>
<td>• OLED Display Roadmap</td>
<td>• Large Area Display Price</td>
<td>• OLED Display</td>
<td>• Desktop Monitor</td>
</tr>
<tr>
<td>• Display Backlight</td>
<td>• Large Area Display Market</td>
<td>• Automotive Display</td>
<td>• LED Video Displays</td>
</tr>
<tr>
<td>• Display Glass</td>
<td>• Large Area Display Production Strategy</td>
<td>• Touch Panel</td>
<td>• Digital Signage &amp; Prof. Display</td>
</tr>
<tr>
<td>• Display Optical Film</td>
<td>• Large Area Display Product Roadmap</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Display Driver IC</td>
<td>• Monitor Display &amp; OEM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• OLED Materials</td>
<td><strong>Spotlight Services</strong></td>
<td><strong>Trackers</strong></td>
<td><strong>Viewpoint &amp; Spotlight Services</strong></td>
</tr>
<tr>
<td>• OLED Display Cost Model</td>
<td>• Display Dynamics Spotlight</td>
<td>• Small Medium Display</td>
<td>• Consumer Electronics Viewpoint</td>
</tr>
<tr>
<td>• LCD Display Cost</td>
<td></td>
<td>• Small Medium Display Supply Chain</td>
<td>• TV Sets Spotlight</td>
</tr>
<tr>
<td><strong>Reports</strong></td>
<td></td>
<td>• OLED Display</td>
<td>• Smartphone Spotlight</td>
</tr>
<tr>
<td>• Foldable Display Tech</td>
<td></td>
<td>• Automotive Display</td>
<td>• Digital Signage &amp; Prof. Display Spotlight</td>
</tr>
</tbody>
</table>

**Intelligence Services**
- OLED & LCD Supply Demand & Equipment
- OLED & Flexible Display

**Trackers**
- Micro LED Display
- OLED Display Roadmap
- Display Backlight
- Display Glass
- Display Optical Film
- Display Driver IC
- OLED Materials
- OLED Display Cost Model
- LCD Display Cost

**Reports**
- Foldable Display Tech
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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.