

TFT LCD Panels: Market Research Report

<https://marketpublishers.com/r/T2F670D6696EN.html>

Date: April 2010

Pages: 488

Price: US\$ 4,500.00 (Single User License)

ID: T2F670D6696EN

Abstracts

This report analyzes the Global market for TFT LCD Panels in Million Units by the following Product Segments: Large Area TFT LCD Panels, and Small & Medium TFT LCD Panels.

Large Area TFT LCD Panels are further analyzed by the following application areas: LCD Monitors, Laptop/ Notebook PCs, LCD TVs, and Others (include Industrial, Medical, and Public Information Displays, among others).

Small & Medium TFT LCD Panels are further analyzed by the following application areas: Mobile Phones, Digital Still Cameras, Gaming Equipment, Portable Media Players, Sub Displays, Personal Digital Assistants, and Others (include Automobile Monitors, Digital Photo Frames, Handheld TVs, Multifunctional Peripherals, Portable DVDs, Personal Navigation Devices, Digital Video Cameras, and Mobile Internet Devices, among others).

Annual estimates and forecasts are provided for the period 2006 through 2015.

The report profiles 61 companies including AU Optronics Corp, BOE Technology Group Co., Ltd., Chunghwa Picture Tubes Ltd., HannStar® Display Corporation, Hitachi Displays, Ltd., LG Display Co., Ltd., NEC-LCD Technologies Ltd., Panasonic Corporation, Prime View International Co., Ltd., Samsung Electronics Co., Ltd., Seiko Epson Corporation, Sharp Corporation, Sony Corporation, Sony Mobile Display Corp, Toshiba Corporation, Toshiba America, Inc., Toshiba Mobile Display Co., Ltd., TPO Displays Corp., and Wintek Corporation.

Market data and analytics are derived from primary and secondary research.

Company profiles are mostly extracted from URL research and reported select online

sources.

Contents

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations

Disclaimers

Data Interpretation & Reporting Level

Quantitative Techniques & Analytics

Product Definitions and Scope of Study

II. EXECUTIVE SUMMARY

1. INDUSTRY OVERVIEW

TFT LCD panels Sector: A Market Primer

Current and Future Market Analysis

Impact of Recession on the TFT LCD Panel Market and Aftermath

ODMs and OEMs Incurred Operational Losses Amid Recession

Parts and Components Suppliers Feel the Heat

Market Characteristics

LCD TV Sales Surpass CRT TV Sales

Future Directions for Manufacturers of TFT LCD Panels

LCD Panel Manufacturers Focus on Cost Reduction to Stimulate Demand

Table 1. Global LCD TV Market (2008) Percentage Share Held by Top Players in Terms of Revenue – For Samsung, LG Electronics, Sony, and Others (includes corresponding Graph/Chart)

Increased Preference for Local Manufacturing by OEMs

Process Outsourcing: Key for Optimizing Supply Chain

Competition: Purely Confined to Asia

OLED Manufacturers in Asia-Pacific Play the Waiting Game

Emergence of Green Technologies for TFT LCD Panel Production

Key Market Drives and Constraints

Digital Signage Displays Boost TFT LCD Market

Role of Key Players

Plasma to Regain Foothold

Increasing Demand for Large-Screen LCD TVs against Large-Sized Plasma Displays

Burgeoning LCD Capacities and Price Drops - The Impact on Marketplace

LCD Makers Look to Diversify Market Risk

Decreasing Demand to Shrink Mobile Handset Displays Sector

Decline in Price

OLED Display Technology to Outshine Plasma and LCDs

Volatile Business Cycles Mar Market Activity

Organic LEDs: Ready to Engulf the Marketplace

Market Analysis by Product Segment

Large Area TFT LCDs

Key End-Use Applications

Notebook PCs:

LCD Monitor:

LCD TV:

Small & Medium TFT LCDs

Key End-Use Applications

Mobile Phones:

Digital Cameras:

Gaming Equipment:

Portable Media Player:

Sub Displays:

Personal Digital Assistants:

Others:

Digital Photo Frame:

Personal Navigation Devices:

Automobile Monitors:

Mobile Internet Devices:

Industrial Usage:

2.PRODUCT OVERVIEW

Thin Film Transistor Liquid Crystal Display (TFT LCD)

Introduction

History of TFT LCD Panels

Development of Industry: Over the Years

Phases of Development

Pre-TFT LCD Stage / TN/STN LCD Stage (1976 to 1991)

Small-scale TFT LCD Stage (1992 to 1996)

Expansion Stage (1997 to 2007)
TFT LCDs – Today's Most Popular Display Technology
Features of the Global TFT LCD Industry
High Material Cost
Capital and Technology Intensive
Application Intensive
Various Competing Technologies
Leading Component/Equipment Suppliers to the TFT LCD Industry
Flat Panel Displays
Types of Flat Panel Displays
Volatile Displays
Static Displays
Liquid Crystal Display
Evolution of LCD Technology: A Historical Perspective
Types of LCD Panel Technologies
Twisted Nematic Panel Technology
S-IPS- LCD Panel Technology
VA Panel Technology
Super Patterned Vertical Alignment (S-PVA)
Multi-Domain Vertical Alignment (MVA)
Patterned Vertical Alignment (PVA)
Advanced Super View
Features of Liquid Crystal Displays (LCD) Panels
LCD Panel
Driving-Circuit Unit
Backlight & Chassis Unit
Vertical Structure of a Unit Pixel and its Equivalent Circuit
Dot-Matrix LCD Monitors: An overview
Techniques to Generate Liquid Crystal Images
Segment Driving Method
Dot-Matrix Driving Method
Drive Methods for Matrix Displays
Color Production in LCD Panels
Fabrication of New TFT LCD Panel
Classification of LCD Panels by Structure
Displays using Active-Matrix Technologies
Twisted Nematic
In-Plane Switching
Advanced Fringe Field Switching

Vertical Alignment
Blue Phase
Comparing LCD TV with Plasma TV
LCD (Liquid Crystal Display) TV
Key Features of LCD TV
Disadvantages of LCD TV
Plasma TV
Key Features of Plasma TV
Plasma Television- Disadvantages
Plasma TV Vis-a-vis LCD TV
Alternative Technologies
E-Paper
OLED (Organic Light Emitting Diodes)
Bistable Displays
Others

3.REGIONAL MARKET PERSPECTIVE

China
Consumption Scenario in China
Application by Size of TFT LCD Panel
Application of Large-Size TFT LCD Panels
Small & Medium Sized Panels Market
Major Growth Driver: Chinese CCTV LCD Monitor Industry
CCTV LCD Monitor Industry to Witness Growth
Key Market Trends
Chinese LCD Panel Manufacturers Push TN/STN and TFT Production
Competitive Scenario in TFT LCD Panels Market
LCD Panel Manufacturers Continue Expansion Plans Amid Economic Downturn
Aftereffects
TFT LCD Panel Market Witness Breach in the Antitrust Law
Chinese TFT LCD Industry Eyes Larger Slice of the Global Market
Low Price Driving Sales of 19-inch LCD Monitors
Large-Screen TFT LCD Panels to Dominate LCD Monitors Industry
LCD Panel Size to Determine Prices of CCTV Monitors
India
Introduction
Key Features and Challenges of the Industry
Growth of LCD Panel Market in India

Challenges to the Manufacturers of LCD Panel
LCD Monitors Overtakes CRT Technology
Japan
Historic Background
Current scenario
South Korea
Current Market Trends
Increasing Demand for Small & Medium Sized Panels
Investments in China
Taiwan
Factors Reinforcing Growth of Taiwanese TFT LCD Industry
Resource Accumulation
Technology Transfer by Japan
Support from Parallel Industries
Current Industry Challenges
Declining Demand
Resource Constraints
Industry Drifting from Demand-Pull to Supply-Push Market
New Entrants in Market
Current Industry Trends
Taiwan's LCD Makers to Gain from Plasma TV Ban
Home Applications to Drive CCTV LCD Industry
China's Stimulus Measures Boost TFT LCD Panel Demand
The United States
New EPA Guidelines to Prompt Redesigning of LCD TVs

4. TECHNOLOGICAL DEVELOPMENTS

ROHM Semiconductor Introduces Ambient Light Sensor ICs
Sharp Unveils Five-Primary-Color LCD
LG Display Develops TFT Roll-Printing Technology
AU Optronics Unveils Multiple TFT LCD Technologies
Hitachi Displays Develops IPS Low-Temp Polysilicon TFT Production Technology
IDT Unveils Power Smart Technology Equipped Solution
DaouXilicon, Legend Design Technology and Jedat Collectively Release New LCD Panel Simulation Solution
NXP Semiconductors and Taiwan Semiconductor Manufacturing Company to Introduce NXP TV550
Victor Company of Japan Unveils High-Definition Image Processing Engine

5.PRODUCT INNOVATIONS/INTRODUCTIONS

BenQ Introduces New LCD TV models

Toshiba Introduces Stainless Style™ TV

Hannspree North America Unveils ST251MKB LCD TV

Samsung to Introduce Eco-friendly and Ultra-thin LCD Panels

LG Display Introduces Full HD 3D LCD Panel

LG Launches World's Slimmest LCD TV Panel

Chi Mei Optoelectronics and AU Optronics to Introduce LED backlights LCD TV Panels

NEC LCD Technologies Launches Amorphous-Silicon Transreflective TFT LCD Module

NEC LCD Technologies Launches New LCD Modules

LG Launches Digital Photo TV

Sharp Unveils LCD Televisions

LG Electronics USA Unveils LH90 LED LCD HDTV Range

Panasonic Introduces New Additions to VIERA Range

LG Electronics Launches LCD TV

Dell Unveils ST2010

Samsung Electronics America Unveils 70 Series LCD Monitors

Samsung Launches New LCD TV

Moser Baer India Introduces New LCD TFT Monitor

Tek Panel Launches Tek Panel 420

LG Display Introduces Full HDTV/Monitor LCD Panel

NEC LCD Technologies Introduces New TFT LCD Module

NEC LCD Technologies Launches New LCD Modules

NEC LCD Rolls Out New LCD Module

Toshiba America Consumer Products Introduces 2009 Toshiba LCD TV Series

Toshiba Mobile Display Launches New Range of TFT LCD Panels

ViewSonic® Unveils VG27 Range of Wide Screen LCD Monitors

ViewSonic® Introduces VT2230 LCD HDTV

ViewSonic® Unveils VX2265wm Desktop LCD Monitor

Planar Systems Launches Clarity Matrix™ LCD Video Wall System

Video Display Corporation Launches Redesigned 8.4 inches LCD Monitor

BenQ Unveils MK2442 LCD TV

BenQ Launches Novel WXGA VK3211 LCD TV

BenQ Introduces SK3231 and SK3731 Full-HD LCD TV

BenQ Unveils Novel G Series of LCD Monitors

Kent Displays to Launch Reflex™ No Power LCD

Hisense Electric and Hisense International to Launch LED LCD TV

NEC LCD Technologies to Launch 3D TFT LCD Module
Victor Company of Japan to Introduce GD-463D10
Chi Mei Optoelectronics Launches G070Y2-L01
Chi Mei Optoelectronics Rolls Out G104X1-L04 and G121X1-L03
Mitsubishi Electric Launches AA121XJ03-G1 and AA150XR01-G1 TFT LCD Modules
Mitsubishi Electric Introduces Color TFT LCD Modules
VIZIO Introduces HDTV Range under the XVT Series
AU Optronics Launches New Display Technologies
LG Display Rolls Out Trumotion 480Hz LCD TV panel
AU Optronics Introduces Latest TFT LCD Technologies

6.RECENT INDUSTRY ACTIVITY

LG Display Establishes New Production Facility
Toshiba Mobile Display Reorganizes LCD Business
Prime View International Inks Agreement with E Ink Corporation
Samsung Electronics to Establish New LCD Plant Facility
Samsung Electronics Enters into Agreement with Chunghwa Picture Tubes
Sharp Inks Agreement with Nanjing CEC-PANDA LCD Technology
Sony Inks Definitive Agreement with Sharp
Sony Enters into Strategic Alliance with Hon Hai Precision
Chunghwa Picture Tubes to Start 4.5G Panel Production
AU Optronics and Sichuan Changhong Electric to Establish LCM Production-Plant
SVA Group to Establish 8G TFT LCD Panel Production Unit
Sony Corporation and Seiko Epson Corporation Ink Agreement
Samsung Electronics Receives LCD TV Panels Supply Order
Air Liquide Electronics Inks Agreement with Beijing Oriental Electronics Technology Group
Air Liquide Electronics Bags Order
BVCH Optronics (Sichuan) to Commence Liquid Crystal Modules Production
LG Display Strikes LCD Panel Supply Deal
Toshiba Inks Agreement with Panasonic
Hitachi Plasma Display to Divest Miyazaki Works
Seiko Epson and NEC Deploys Product Data management System to Suzhou Epson
Samsung Electronics Enters into TMOS™ Joint Development Agreement with Uni-Pixel
Sharp to Increase Production Capacity at the Kameyama Plant No. 2
Planar Systems Secures Contract from Thomson's Premier Retail Networks
LG Display Collaborates with Leading LCD TV Manufacturers
Shenzhen Techo Telecom to Acquire InfoVision Optoelectronics

Chi Mei Optoelectronics Purchases Minority Stake in China Electric Mfg. and TOA Optronics

Sony and Samsung Electronics Enter into Contract

Skyworth Group to Collaborate with LG Display

Canon to Purchase Minority Stake in Hitachi Displays

LG Display Purchases Stake in Avaco

TCL to establish LCD TV Module Manufacturing Facility

LG.Philips LCD Changes Name to LG Display

Matsushita Electric Industrial Changes Name to Panasonic

ST Liquid Crystal Display Merges with ST Mobile Display

Wistron to Acquire Lite-On Technology's LCD Manufacturing Unit

Infovision Optoelectronics to Acquire Yuansheng Electronics

HKC (Holdings) to Purchase Majority Stake in J.I.C. Technology

Alco Holdings Purchases Interest in BOE Hydix

7.FOCUS ON SELECT GLOBAL PLAYERS

AU Optronics Corp. (Taiwan)

BOE Technology Group Co., Ltd. (China)

Chunghwa Picture Tubes Ltd. (Taiwan)

HannStar® Display Corporation (Taiwan)

Hitachi Displays, Ltd. (Japan)

LG Display Co., Ltd. (South Korea)

NEC-LCD Technologies Ltd. (Japan)

Panasonic Corporation (Japan)

Prime View International Co., Ltd. (Taiwan)

Samsung Electronics Co., Ltd. (South Korea)

Seiko Epson Corporation (Japan)

Sharp Corporation (Japan)

Sony Corporation (Japan)

Sony Mobile Display Corp. (Japan)

Toshiba Corporation (Japan)

Toshiba America, Inc. (US)

Toshiba Mobile Display Co., Ltd. (Japan)

TPO Displays Corp. (Taiwan)

Wintek Corporation (Taiwan)

8.GLOBAL MARKET PERSPECTIVE

Table 2. World Recent Past, Current and Future Analysis for TFT LCD Panels by Type – Large Area TFT LCD Panels and Small & Medium TFT LCD Panels Markets Independently Analyzed with Manufacturer’s Shipments in Million Units for Years 2006 through 2015 (includes corresponding Graph/Chart)

Table 3. World 9-Year Perspective for TFT LCD Panels by Type – Percentage Breakdown of Manufacturer’s Shipments for Large Area TFT LCD Panels, and Small & Medium TFT LCD Panels for Years 2006, 2009 and 2015

Table 4. World Recent Past, Current and Future Analysis for Large Area TFT LCD Panels by Application – LCD Monitors, Laptop/Notebook PCs, LCD TVs, and Others Independently Analyzed with Manufacturer’s Shipments in Million Units for Years 2006 through 2015 (includes corresponding Graph/Chart)

Table 5. World 9-Year Perspective for Large Area TFT LCD Panels by Application – Percentage Breakdown of Shipments for LCD Monitors, Laptop/Notebook PCs, LCD TVs, and Others for Years 2006, 2009 and 2015 (includes corresponding Graph/Chart)

Table 6. World Recent Past, Current and Future Analysis for Small & Medium TFT LCD Panels by Application – Mobile Phones, Digital Still Cameras, Gaming Equipment, Portable Media Players, Sub Displays, Personal Digital Assistants, and Others Independently Analyzed with Manufacturer’s Shipments in Million Units for Years 2006 through 2015 (includes corresponding Graph/Chart)

Table 7. World 9-Year Perspective for Small & Medium TFT LCD Panels by Application – Percentage Breakdown of Shipments for Mobile Phones, Digital Still Cameras, Gaming Equipment, Portable Media Players, Sub Displays, Personal Digital Assistants, and Others for Years 2006, 2009 and 2015 (includes corresponding Graph/Chart)

III. COMPETITIVE LANDSCAPE

Total Companies Profiled: 61 (including Divisions/Subsidiaries - 69)

Region/Country Players

The United States 22

Japan

Europe

Germany

The United Kingdom

Rest of Europe
Asia-Pacific (Excluding Japan)

I would like to order

Product name: TFT LCD Panels: Market Research Report

Product link: <https://marketpublishers.com/r/T2F670D6696EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/T2F670D6696EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970