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China Handset Display Industry Report, 2006-2007

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Abstracts

Among all the handset non-semiconductor components, display shares the largest proportion in terms of cost.

OLED shares a negligible proportion, while TFT-LCD is absolutely prevailing with the proportion of over 60%. Furthermore, due to the sharp decline, the proportion of CSTN will drop to below 10% in 2007, and CSTN manufacturers will secede from the mobile phone field in 2008, the reason for this is quite simple: considering the equivalent prices but largely different performances of TFT-LCD and CSTN, manufacturers will choose TFT-LCD undoubtedly.

As for the black and white screen, it will be applied in some of the ultra-low price handsets with the proportion of about 8%, which will decline to about 5% in 2009, a lower speed than CSTN. In addition, considering the power consumption, the auxiliary display of mobile phones will still mainly apply Color STN.

Seemingly, OLED enjoys lots of advantages; however, it also has a fatal defect: TFT-LCD costs merely half or less compared with OLED of the same size. Without absolute advantages in performance, the sole merit of OLED is its thinness, yet at least 0.5 mm thinner than others, so comparatively speaking, the advantage isn't apparent. Additionally, in the year of 2006 when bar phone and slide phone dominated, the output of clamshell mobile phones descended remarkably. The originally prevailing auxiliary screen market of OLED also shrank a lot, which became another disaster of OLED; quite a few OLED manufacturers had to face bankruptcy and many small- and medium-size enterprises stopped all the activities in OLED field as well.

TFT materials include traditional a-Si and LTPS which was widely used in recent years. To high-end products that have higher demand in definition, a-Si has an inborn drawback - relatively small aperture ratio caused by inferior carrier mobility, and this has

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become a hard-to-break limitation. By contrast, thanks to the different recrystallization technology, LTPS is superior in carrier mobility and aperture ratio. However, the demand for LTPS handset panels is in small amount for the time being. According to the clients' product layout, LTPS module market may become heater from late 2006 to early 2007. Generally, LTPS module market mainly concentrates in PDA and DC fields, because the panel must be bright enough and have superior resolution so as to support outdoor reading; merely in recent years, LTPS was adopted by high-end mobile phones.

In terms of manufacturers, Samsung SDI and Philips all declined largely, mainly attributed to the fact that they are lack of powerful support in TFT-LCD panel production line. Philips' TFT-LCD panel in Kobe doesn't exert its role seemingly, and it may be spurned or sold after being purchased by TPO which has its own LTPS TFT-LCD panel production lines.

As to the market, 2006 is a hard season. The conditions that supply exceeds demand remained for about a year, and the main products depreciated by 100% or more this year.

At the beginning of 2005, since a large amount of TFT-LCD Generation V production lines were put into operation, the production lines of Generation I-IV had to face the transformation, especially the Generation II and Generation III which would have no competence if continuing the large-size LCD panel production, so these manufacturers successively began to produce small-size LCD panels. In the second half of 2005, the supply volume of small-size LCD panels rose sharply, which caused an excessive supply; on the other hand, the display industry originally having large gross profit margin enjoys a space for depreciation, so the price declined continuously. By the end of 2006, the price had dropped to the lowest limit acceptable to manufacturers, while the market demand for large-size and high resolution handset display remained vigorous, so the overall price of display began to rebound.

The sales revenue of most handset display manufacturers decreased, especially for manufacturers in Taiwan and mainland China. WINTEK, Taiwan's largest handset display manufacturer, only realized sales revenue of NTD 32.6 billion, down by 59% over the RMB 52 billion in 2005; and the net profit before tax declined by over 100%. However, there were also rising manufacturers, such as AVIC Huatian (Chengdu) Science Co., Ltd. which made preparation in the second half of 2005 and put into operation in 2006 but earned profits from the sales of RMB 100 million in mid Dec 2006. Late comers strictly controlled the cost from the beginning, so they adapted well to the

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rapid depreciation of products, while it takes time for old manufacturers to be regulated.

However, after the first quarter of 2007, the demand for high resolution panels increased a lot. Additionally, due to the unprosperous technical transformation of production lines from large-size to small-size panels, the supply began to fall short of the demand, so most manufacturers are intending to raise product prices.

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Contents

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Tables/Figures

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2006Q4
Downstream application proportion of the world's small- and medium-size displays, 2006Q4
Market share of major TFT-LCD CELL providers in mainland China, 2006
Market share (by output) of major handset display manufacturers in mainland China, 2006
Variation in LCD production capacity of Sharp Systems
Comparison between LCD and traditional LCD of Sharp Systems
Organization structure of TMD
Income structure of Epson, FY2006
Annual plan of Epson LCD division, 2007-2008
Organization structure of Epson Image Components Company
List of Epson's handset display products
Statistics and forecast for income structure of Samsung SDI products, 2000/2005/2010
Statistics for sales revenue and operation profit margin of Samsung SDI, 2005Q2-2007Q1
Output and average sales price of Samsung SDI small-size displays, 2005Q4-2007Q1
Product structure of Samsung SDI small-size displays, 2005Q4-2007Q1
Focus of Samsung SDI mobile display business
Development plan of Samsung SDI's initiative OLED
Income structure of Samsung by division, 2006Q4-2007Q1
Profit structure of Samsung by division, 2006
Quarterly small-size display output of Samsung, 2004Q2-2007Q1
Income and gross profit margin of Wintek, 2002-2006
Organization structure of Wintek
Statistics and forecast for Truly's income and gross profit margin, 2002-2007
Gross profit margin, net profit margin and operation profit margin of Truly, 2001-2006
Income structure of Truly by region, 2006
Income structure of Truly by product, 2006
Cost structure of Truly, 2006
Organization structure of Truly Semiconductor
Parameters of Truly's TFT-LCD module products
Dimension structure of Truly's TFT-LCD modules, 2006
Income and gross profit margin of BYD, 2002-2006
Income structure of BYD by product, 2005-2006
Income structure of BYD by region, 2005-2006
Statistics and forecast of sales revenue and gross profit margin of Giantplus, 2002-2007
Proportion of AUO's small- and medium-size products applied in each field, 2006
Income structure of AUO's products applied in downstream, 2006Q1-2007Q1

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Output and income of AUO's small- and medium-size products, 2006Q1-2007Q1
Organization structure of Zhongshan Matrix
Organization structure of Lead Communications
Income and operation profit margin of Varitronix International, 2002-2006
Income structure of Varitronix International by region, 2005-2006
Dimension structure of Varitronix International TFT-LCM products, 2006
Resolution structure of Varitronix International TFT-LCM products, 2006
Organization structure of Varitronix Pengyuan Company
Parameters of Varitronix Pengyuan TFT-LCM products
Income structure of SIM Technology, 2005-2006
Structure of Bird
Staff structure of Bird by division
Sales volume of Bird mobile phones, 2000-2006
Organization structure of TCL Communications
Income and gross profit margin of TCL Communications, 2001-2005
Expenditure on R&D, marketing and administration of TCL Communications, 2001-2005
Organization structure of Compal
Income and gross profit margin of Compal, 2001-2006
Organization structure of Arima Communications
Global distribution of Arima
Product routes of Arima Communications
Statistics and forecast of income and gross profit margin of Arima, 2001-2006
Client structure of Arima, 2006Q1-2007Q4
Client structure of Arima, 2006-2008
Output and average sales prices of Arima Communications, 2005Q1-2006Q4
Structure of Arima's investment in mainland China
Statistics and forecast for HTC's income structure, 2006Q1-2007Q4
Income and gross profit margin of HTC, 2000-2006
Income of Flextronix, 2005Q4-2006Q4
Income structure of Flextronix by region, 2005Q4-2006Q4
Income structure of Flextronix by product, 2005Q4-2006Q4
Core strategies of Flextronix
Sales revenue of ELCOTEQ, 1997-2006
Sales revenue of ELCOTEQ, 2004Q1-2006Q4
Elocteq's quarterly income from terminal business, 2004Q1-2006Q4
Elocteq's quarterly operation profit, 2004Q1-2006Q4
Elocteq's quarterly income structure by region, 2004Q1-2006Q4
Viewpoints and strategies of Elocteq
7C strategies of Elocteq

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Statistics and forecast for Arima's production capacity, 2004-2007
Finicial status of Arima's enterprises in mainland China, 2005
Function of HTC's divisions
List of Flextronix manufacturing bases in China
List of Elocteq manufacturing bases

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