



#### **MPI Corporation.**

(6223.TT)

**Waterland Financial Holdings Technical Conference** 



### Safe Harbor Notice

The information herein contains forward-looking statements. We have based these forward-looking statements on our current expectations and projections about future events. Although we believe that these expectations and projections are reasonable, such forward-looking statements are inherently subject to risks, uncertainties and assumptions about us, including, among other things: the intensely competitive Semi-conductor, and LED industries and markets; Cyclical nature of the semiconductor industry; Risks associated with global business activities; General economic and political conditions; Other risks identified in our annual report for the year ended June 30th, 2011. All financial figures discussed herein are prepared pursuant to ROC GAAP on an un-audited unconsolidated basis. All audited figures will be publicly announced upon the completion of our audited process.



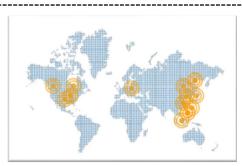
### Company at a Glance

**Founded July, 25, 1995** 

 Paid-in
 NTD\$ 785.5M

 Capital
 (2011.08.31-the latest)

**Employees** 849 (2011.08.31)

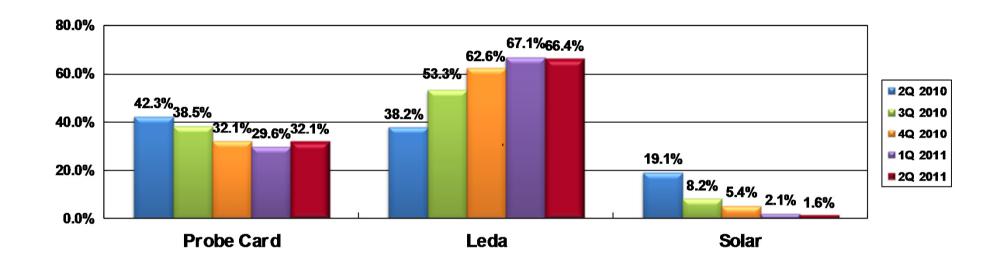








### Business Portfolio













#### **LED**



### LED Food-chain

#### LED照明產業供應鏈 有機金屬氣體 上游 (MO source) LED晶粒 磊晶片 (Al2O3基板、GaAs基板) 特殊氣體 LED驅動IC 散熱摸組 LED封装 (NH3 · PH3 · AsH3) **MPI** 中游 LED燈 下游 LED燈具 LED路燈



# LED Turnkey Solution for Probing and Sorting in Chip level and package level

#### **Chip Level**

**Package Level** 

**Prober** 

Sorter

Handler

**Tapping** 









#### 2 in 1 (Prober + Sorter)



Reduce spacing demand for capex

**Reduce workforce** 

**Process** improvement



### 2 in 1 Machine (Prober + Sorter)







#### **Specifications**

**Dimension** 

Wide: 1400mm Height: 1650mm

(not included signal-tower)

Length: 1530mm Weight: 1000Kg

Loader

Wafer Cassette:

2 (8 rings for GR6/GR5)

**Bin Cassette:** 

6 (25 bins with a single Cassette)

Wafer Size

Max 6"(150mm) after expansion

(for *GR6/GR5*)

Bin Area 60mm X 60mm

**Pattern Recognition System** 

PR System 256 grey levels

**Resolution:** 640 pixels x 480 pixels

PR Accuracy: ±0.025 mil(Die size

64mil x 48mil)

Angle Range: ±15°

- Reduce spacing demand for capex
- Reduce workforce
- Process improvement



### Auto Sorting Machines

#### PT-380 SORTING







#### **Specifications**

**Applicable device: Chip type LED** 

**Loader: Parts feeder** 

**Number of test station: 1 (2: option)** 

**Test method: Side or top surface contact** 

Cycle time: Max0.15 sec/pcs (UPH24K)

(Including 90msec test time)

Number of bin: 256 bulk bins

**Vacuum source: Vacuum pump** 

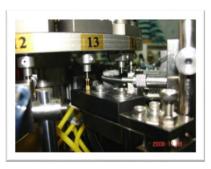
Size: W1,160 x H1,458 x D788(mm)



### Auto Taping Machine

#### PT-350 TAPING







#### **Specifications**

Applicable device: Each chip type devices

Embossed Carrier tape width: 8 (mm)

Supply reel/ Accept reel: Max.ø700/ Max. ø330

Loader: Parts feeder with hopper

Seal method: Heat press reciprocating method

Cycle time: 0.09 sec/pcs (666pcs/min)

Vacuum source: Vacuum pump

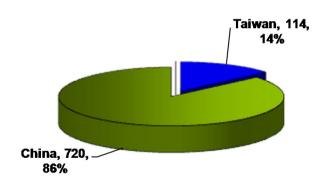
Vision: Vision Align and check device

Size: W870 x H1,352 x D681(mm)



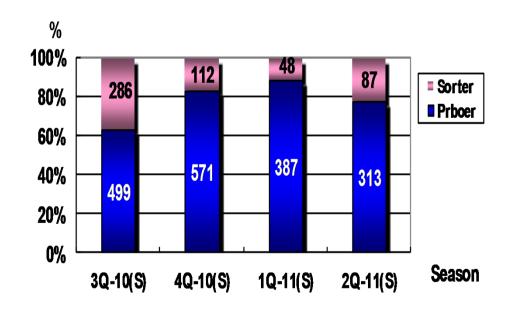
### Geography & Product Mix

### by Geography



Country, PC, %

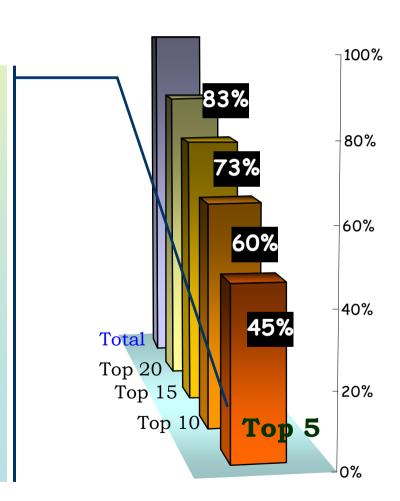
#### by Product





### LEDA Client-Distribution (2011 YTD)

- 1 ANHUI SANAN OPTOELECTRONICS CO., LTD
- 2 ELEC-TECH
  PHOTOELECTRIC
  TECHNOLOGY (DALIAN) CO.,
  LTD
- 3 EVERVISION ELECTRONICS LTD
- 4 SHANXI FEIHONG MICRO-NANO PHOTOELECTRONICS SCIENCE & TECHNOLOGY CO.,LTD
- 5 JIANGSU XINGUANGLIAN TECHNOLOGY CO., LTD



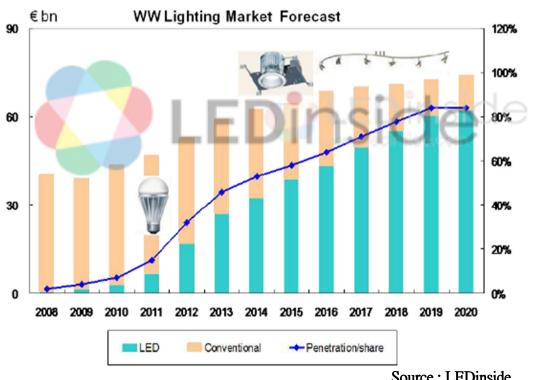


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### LED lighting - TAM

#### LED Lighting Is Taking Off

- The LED lighting is penetrating € 70bn lighting market:
- 50% penetration rate by 2015 is projected by Philips,
- and 30% LED lamp in 2010 is projected in Japan market.



Source: LEDinside

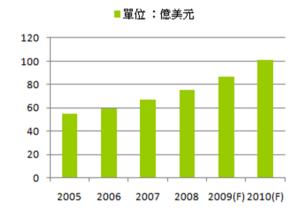




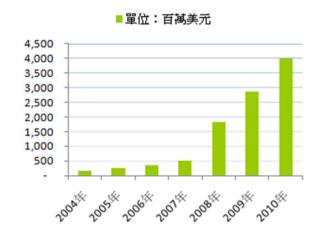


### LED lighting - Trend

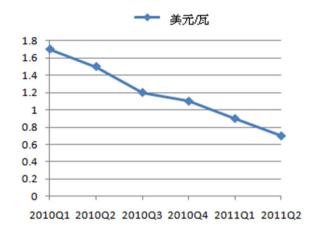
#### 全球LED產值



#### 全球照明用LED市場規模



#### 高亮度照明每季價格走勢圖



#### 照明種類

項目	白光LED	日光燈	白熾燈泡
發光特性	冷性發光	氣體放電	加熱發光
反應速度	<1秒	<60秒	<150秒
壽命	>20000小時	10000小時	2000小時
發光效率(lm/W)	75	60~90	10~20
演色性(CRI值)	80	75	95
耗電量	省電約90%	省電50%	以白熾燈泡為基準等於1
特色	價格高、控制性佳小型化耐震動光束 集中抗衝擊	省電但含汞,易碎	低效率、高耗電、 壽命短、易碎

Source: MoneyDJ理財網



### LED lighting - Street Lamp

#### 2006年-2011年全球路燈與LED路燈數量與渗透率統計



資料來源: MoneyDJ理財網-熱門產業



### LED lighting - Gov. lighting regulation

#### 全球白熾燈禁用時間表

國家和地區	預計禁用(禁售)時間
澳洲	2009年停止生產,2010年起已逐步禁止使用傳統的白熾燈泡。
台灣	2010年已開始執行白熾燈禁產政策,預計2012年全面禁產。
日本	到2012年止,停止製造並銷售高能耗白熾燈。
美國	緩衝期2012年1月到2014年1月。大多數白熾燈泡2014年起在美禁止銷售。
中國	2013年底前禁止使用白熾燈,2016年將徹底淘汰普通照明用白熾燈。
歐盟各國 (英國)	歐盟9月起禁止銷售100瓦傳統燈泡,2012年起禁用所有瓦數的傳統燈泡。
加拿大	2012年起禁用白熾燈

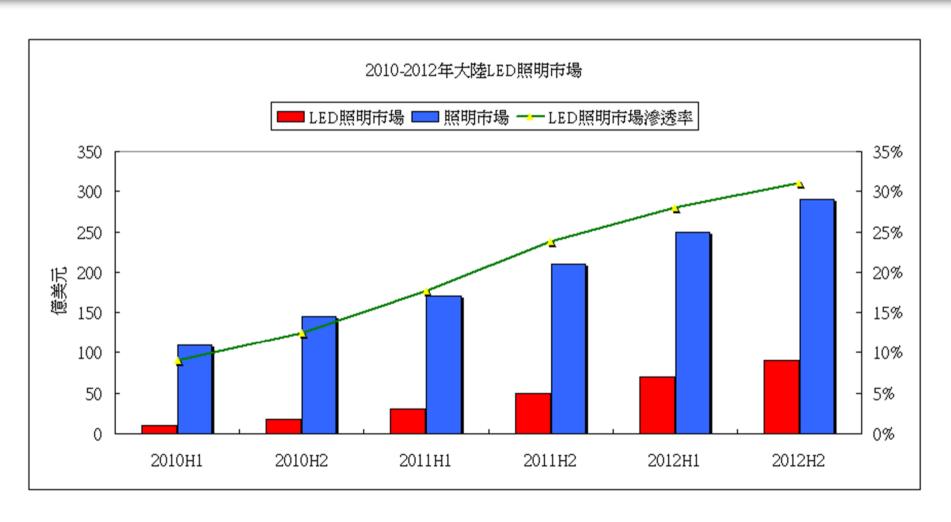
#### 大陸發展和改革委員會建議淘汰白熾燈之政策

階段	時間	內容
_	2011年10月~2012年9月底	一年過渡期
=	2012年10月	禁止進口、販售100瓦以上之白熾燈
三	2014年10月	禁止進口、販售60瓦以上之白熾燈
四	2015年10月~2016年9月底	中期評估,調整後續政策
五	2016年10月	禁止進口、販售15瓦以上之白熾燈

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### LED lighting - China



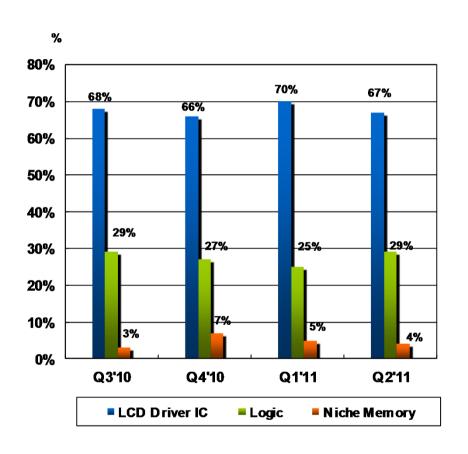




**Probe Card** 



### Product Mix

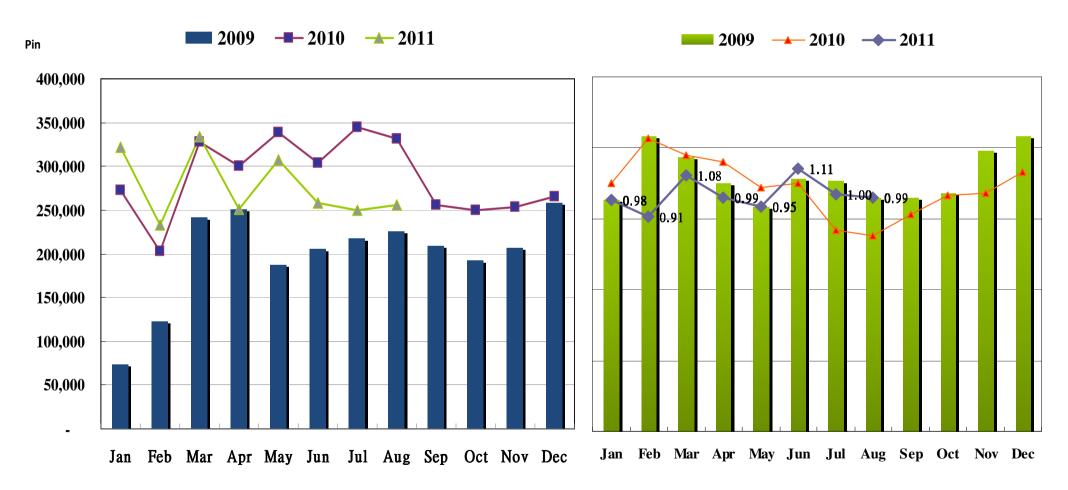








### Pin-Shipment & B/B Ratio

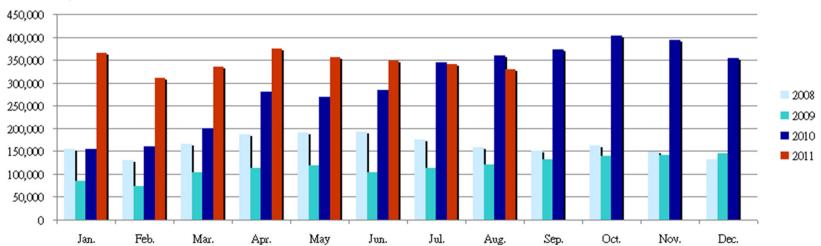




### Income Statement

NT\$1,000	H1' 2011		H1' 2010		<b>YoY</b> (%)	
Net Sales	2,090,184	100%	1,349,575	100%	55%	
Cost of Goods Sold	1,191,757	57.0%	817,647	60.6%	46%	
Gross Profit	898,427	43.0%	531,928	39.4%	69%	
Operating Expense	499,629	23.9%	328,787	24.4%	52%	
Operating Income	396,986	19.0%	200,548	14.9%	98%	
<b>Investment Income &amp; Others</b>	46,617	2.2%	50,955	3.8%	-9%	
Net Income (before tax)	443,603	21.2%	251,503	18.6%	76%	
EPS (before tax)	5.62		3.23			

#### Net Sales NT\$ 1,000





### Balance Sheet Highlight

Amount: NT\$ Million	H1' 2011		H1' 2010	
Cash and Cash Equivalents	1,379	23%	713	14%
Long-term Investments	464	7.8%	356	7%
Fixed Assets	1,026	17%	1,225	25%
Total Assets	5,975	100%	4,930	100%
LT Debt	91	1.5%	174	3.5%
Shareholders' Equity	2,996	50%	2,481	50%
EBITDA	444		252	





## Thank You

http://www.mpi.com.tw