Ultra-Low Power, Paper-Like Displays

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Statements in this presentation that are not strictly historical, including the statements regarding the market, economy, the Company’s ePaper, LCD and other business, the Company’s future product launches, the Company’s positioning and expectations for 2012 and future periods, and any other statements regarding events or developments that we believe or anticipate will or may occur in the future, may be "forward-looking" statements within the meaning of the securities laws in Taiwan. There are a number of important factors that could cause actual events to differ materially from those suggested or indicated by such forward-looking statements and you should not place undue reliance on any such forward-looking statements. These factors include, among other things, the uncertainty in the economy, contractions or growth rates and cyclicity of markets we serve, competition, our ability to develop and successfully market new products and technologies and expand into new markets, our ability to successfully identify, consummate and integrate appropriate acquisitions, contingent liabilities relating to acquisitions, risks relating to potential impairment of goodwill and other long-lived assets, currency exchange rates, our compliance with applicable laws and regulations and changes in applicable laws and regulations, tax audits and changes in our tax rate and income tax liabilities, litigation and other contingent liabilities including intellectual property and environmental matters, risks relating to product defects and recalls, the impact of our debt obligations on our operations, raw material costs, our ability to adjust purchases and manufacturing capacity to reflect market conditions, legislative reforms and other changes in industry, labor matters, our relationships with and the performance of our customers and partners, risks relating to man-made and natural disasters, our ability to achieve projected cost reductions and growth, and international economic, political, legal and business factors. These forward-looking statements speak only as of the date of this presentation and the Company does not assume any obligation to update or revise any forward-looking statement, whether as a result of new information, future events and developments or otherwise.
Electronic Paper Displays
Founded 1997, MIT Media Lab

Acquired by largest customer, PVI, in 2009
Company renamed to E Ink Holdings
About E Ink Holdings

Corporate Snapshot

- Established, June 1992
- Capital: NT$10 Billion Dollars
- Employees: 6000+ worldwide
- Core Business: EPD & TFT LCD
- Chairman: Scott Liu
- Subsidiaries:
  - E Ink Corp (Cambridge, S.Hadley)
  - Sipix
  - E Ink Yangzhou
  - Hydis
The YFY Group

**Paper Group**
- YFY Inc. *
- YFY Packaging Inc.
- YFY Consumer Products Group
- Chung Hwa Pulp *
- YFY Jupiter
- Yuen Foong Paper
- China Color Printing
- Shen’s Art Printing *
- Shin Foong Chemical
- Guangdong DingFeng Paper
- Guangdong Zhaoqing Forestry

**Technology Group**
- E Ink *
- Transcend Optronics (Yangzhou)Co.,Ltd.
- Yeon Technology
- Arizon RFID
- Yongfeng Precision Electronics
- Foongtone Technology
- BoardTek Electronics *
- Effion Enertech Co., Ltd.

**Financial Group**
- SinoPac Holdings *
- Bank SinoPac
- SinoPac Securities
- SinoPac Leasing
- SinoPac Venture Capital
- SinoPac Asset Management
- SinoPac Call Center
- SinoPac Securities Investment Trust

**Biotechnology Group**
- TaiGen Biotechnology
- Green and Safe
- Ever Growing Agriculture Biotech
- YFY Biotech Management Co.
- Taiwan Global Biofund
- Taiwan Genome Sciences

**Educational Welfare**
- Hsin-Yi Foundation
- Shang Shan Human Culture Foundation
- Yuan T. Lee Foundation
- Liver Disease Prevention & Treatment Research

*Note: Marked * are listed companies*
How It Works

Positively charged white pigment

Transparent top electrode

Negatively charged black pigment

Clear fluid

Bottom electrode
Low Power, Bi-Stable Display

12” LCD-Equipped Device over 20 Hours

36 AA BATTERIES

12” E Ink Display Equipped Device over 20 hours

1 AA BATTERY
Sunlight Readable
Wide Viewing Angle
2 Product Lines
eReader Products
Non-eReader Products
Best Applications for E Ink

• Power requirements have made a display unfeasible
  – Novatel Wireless

• Form factor limitations have made the incorporation of a display impractical
  – Lexar
Central Standard Timing wanted to “re-imagine” the wrist watch, and create the world’s thinnest watch
Yota wanted to create a new way to access information, and save battery life, by integrating a low power E Ink display on the backside of a Smartphone.
Electronic Shelf Labels

- Scratch Resistance for Industrial Applications
- Black & White + 1 color for POP
Large Area Signage

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Serving Tuesday at

10am & 2pm

Eink
Spectra for ESL

• Three pigment system
• Black, white & red
• For ESL applications
Aurora for ESL

- Extended operation temperature range of -25 – 60 degrees C
- For ESL applications
Mobius Display

- Flexible, plastic TFT
- Developed by Sony
- Transferred to E Ink for manufacturing
- First application – Sony Paper Product
- 13.3”
- MP in 2013
Sony Digital Paper Product

- A4 size device which can be a digital terminal for many different services. This is different than a standard eReader which just provides a reading function.

- Complete devices weighs 358g and can provide up to 3 weeks of use on a single charge.

- Education prototype will be developed with 3 different universities in time for the second semester in 2013

- Sony will commercialize this in 2013.
Booth 1215
Thank You

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