



“Making Every Surface Change”

Investor Presentation

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About 3D Nanocolor

3D Nanocolor is changing the way people view glass by offering an exclusive durable transparent film containing electrically charged colored ink nanoparticles, called Electrokinetic Film (EK).

No other company can make a 3D structure that contains the nanoparticles or any sized particles that stack the pigment to make a controllable light valve without infringing 3D Nanocolor's intellectual property.

The transparent EK film will be affixed to glass windows and doors and when electrified the ink nanoparticles will cause the transparent film to change colors and tints.

The glass will then provide the owner privacy, different levels of shading to reduce glare from the sun, energy efficiency by absorbing or reflecting heat, or images used for advertising.



3D Nanocolor Summary

3D Nanocolor is an early stage company pursuing the opportunity to “Make Every Surface Change” by exploiting a technology previously developed at HP Inc. (formerly Hewlett-Packard Company). 3D Nanocolor was spun-off from HP following years of R&D.

3D Nanocolor has 7 issued patents protecting its technology and is developing a robust IP strategy to further expand its patented-technology’s breadth and depth in the electrokinetic nanoparticle sector.

3D Nanocolor will initially focus on products for the smart glass window market to enable light control, energy efficiency and privacy.

3D Nanocolor is led by two former HP senior engineering and business leaders.



Rapidly Growing Smart Glass / Window Market

According to the new market research report on Smart Glass Market Smart by Technology, the global market is expected to reach US \$5.81 Billion by 2020, at a CAGR of 19.5% between 2015 and 2020.

According to a new market report published by Transparency Market Research, December 2015, Smart Glass and Window Market was valued at US \$2.2 billion in 2014 and is expected to exceed US \$6 billion by 2021, at a CAGR of 14.7%, from 2015 to 2021.

The Global Smart Glass Market is expected to reach US \$4.71 billion by 2022, according to a new study by Grand View Research, Inc.



Market & Uses of Electrokinetic Technology

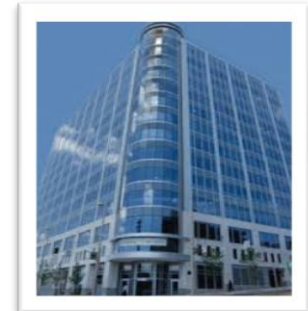
Residential Windows / Doors

Commercial Windows / Doors

Automotive windows

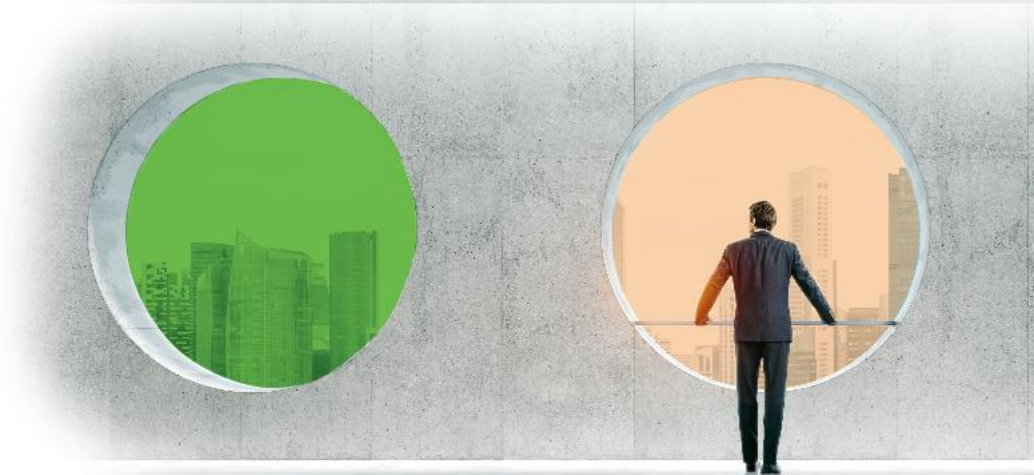
Smart Appliances

Digital Signage and Advertising



Example: Skylights Changing Color

Smartphone Controlled



Problem: Windows have not been correctly designed to serve our needs

- Most windows are designed to **maximize light** from the outside into the interior of a building **without obscuring the view**
- However, **direct sunlight into homes and businesses** interfere with living and working inside of a building
- **Privacy desired** during the day or night requires covering the window
- Windows are the **biggest source of energy cost** for temperature control of the interior where people live and work



Solution: Electronically Controlled Window Film

Light Control: Wireless or automated control of light over a wide range without obscuring the view through the window

Design Friendly: Color of the film can be different depending on the location and function of the window. Two colors within a single film are possible as well as built-in electronically controlled designs elements

Energy Efficient: Amount of infrared light transmitted into the living/working space can be controlled using a white-based color

Privacy Control: The size and amount of the particles in the film can be chosen to create privacy

Application on New Glass & Existing Glass: Film can be applied to the interior surface of a window or a glass door



Electrokinetic Film Technology

Electrokinetic (EK) Film Technology is an optical switching film using electrically charged ink that can be applied to surfaces to enable electronic control of the color and tint.

Why is our product going to be superior compared to the incumbent Electrochromic (EC) glass technology for windows:

- High quality changeable film can be retro-fitted on existing glass compared to EC requiring complete replacement
- 3D Nanocolor's technology allows different colors including multiple colors in the same film. EC glass has only one color capability (blue/green hue)
- Film can be fully switched in approximately 1 second compared to 30-300 seconds
- Roll-to-Roll manufacturing lowers capital costs and manufacturing costs.

Supported by an IP strategy which includes development of additional patents/inventions



Benefits of **Electrokinetic** Film for Windows

- **Aesthetically superior to any other dynamic glass**
- **Lower cost**
- **Advanced and versatile solution allows for a large selection of colors**
- **Provide tints that complement interior building designs**
- **Very low power requirement**
- **No longer necessary to replace an entire window to enjoy benefits of dynamic glass**

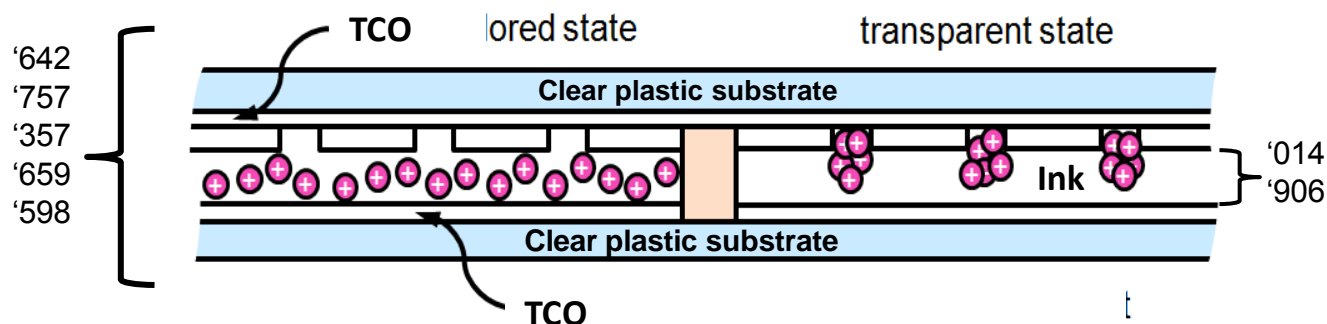


“Smart Glass” Competitive Technologies

| Technology | Main Market | Limitations |
|--|---|--|
| EC Electrochromic | Commercial Exterior Windows – Showcase areas | Slow changing state - minutes. Blue tint - No color options. New windows only. High cost option. |
| SPD – Suspended Particles in polymer | Sunroof – Cars | Limited viewing angle when clear (Darker from sides). Blue tint – No color options. High cost option. |
| PDLC – Polymer Dispersed Liquid Crystal | Conference Rooms, Bathroom glass walls | Scatters light to create privacy. Doesn't control light levels. Limited viewing angle when clear. |
| TC/PC Thermochromic /Photochromic | Commercial Exterior Windows – Showcase areas | Passive – No user control. New windows only. Slow & uneven change across window. Blue tint – No options. |

Intellectual Property From HP

Cross-section of Electro Kinetic Film



U.S. Patent No.

Title

| | |
|---------|--|
| 8018642 | ELECTRO-OPTICAL DISPLAY |
| 8183757 | DISPLAY ELEMENT |
| 8184357 | DISPLAY ELEMENT |
| 8331014 | PIGMENT-BASED INKS |
| 8384659 | DISPLAY ELEMENT INCLUDING ELECTRODES AND A FLUID WITH COLORANT PARTICLES |
| 8432598 | TRANSPARENT CONDUCTOR STRUCTURE |
| 8896906 | INKS INCLUDING BLOCK COPOLYMER GRAFTED PIGMENTS VIA AZIDE CHEMISTRY |

Business Model & Market Access

Production

- 3D Nanocolor will manufacture the electronic ink
- 3D Nanocolor will partner with industry leading film manufacturer(s) to produce the transparent film (lowers capital cost)
- 3D Nanocolor will partner with industry leading manufacturer for electronic control system and software (wireless connection to phone or computer)

Sales

- Partner with window, door and sky light manufacturers for new market access
- Partner with window film application firms for retrofit market access
- Partner with automotive manufacturers on innovative glazing solutions
- Direct to multi-property corporations (i.e. hotel chains)



Potential Partners & Customers

Potential Suppliers / Vendors considering committing resources include:



EASTMAN

**Fortune 500
U.S. Glass Company**

Potential Customers / evaluating EK prototypes:



Executive Team

Tim Koch (CTO)

- HP Veteran. Stanford University, MS, Materials Science Engineering Cornell University, BS, Materials Science Engineering
- Managed R&D team that invented Electrokinetic (EK) technology at HP. Co-inventor on key EK patents.

James Douvikas (President & CEO)

- HP Veteran. University de Namur Notre Dame, MBA University of San Francisco, BS, Business
- Created HP MarketVision, ecardfile.com, HP instant contact and awarded six patents.



Investment Highlights

Large and Nascent Market Opportunity

- Highly disruptive early mover position targeting global market expected to reach US \$5.81 Billion by 2020, at a CAGR of 19.5% between 2015 and 2020.
- High revenue growth potential
- Strong margins and earnings leverage

Strong IP Barrier to Entry

- No other company can make a 3D structure that contains the nanoparticles or any sized particles that stack the pigment to make a controllable light valve without infringing 3D Nanocolor's intellectual property.
- 7 issued patents protecting its technology and is developing a robust IP strategy to further expand its patented-technology's breadth and depth in the electrokinetic nanoparticle sector.

Experienced Management

- CTO managed R&D team that invented Electrokinetic (EK) technology at HP. Co-Inventor key EK patents.
- CEO created HP MarketVision, ecardfile.com, HP instant contact, awarded six patents.

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