

- **World Leader in Imaging Arrays for Digital X-Ray Detectors**
- **New Foundry Services for Glass & Flexible Electronics**
- **High Quality Digital Optical Sensors**
- **Flexible Polyimide and Glass Substrates**
- **Based in Colorado Springs, CO**

dpiX CLEANROOM PROCESSING CAPABILITY

- ❑ Substrate Size: GEN 4.5 (730mm X 920mm)
- ❑ Substrate Materials: glass & polyimide
- ❑ Thin Film Transistors: a-Si, IGZO, aSMO (a-Si + IGZO)
- ❑ Other Components: a-Si and organic photodiodes, capacitors, logic and multiplexer circuitry, ESD protection circuitry
- ❑ Thin Film Deposition:
 - PECVD (a-Si (i, n⁺, p⁺), n⁺-μc-Si, SiO₂, SiO_xN_y, SiN_x)
 - PVD (Al, Cr, TiW, ITO, IGZO)
 - Slot Die Coating: BCB, PI (polyimide)
- ❑ Lithography: i-line (2.5μm minimum feature size)
- ❑ Wet and dry etching of all thin films
- ❑ New materials and technologies? Yes

EXAMPLES OF FOUNDRY SERVICES PRODUCTS



**Palm Reader on glass
(9.5" x 7.7")**



**500ppi FBI Spec
Fingerprint Reader on
Flexible Polyimide**

METROLOGY TOOLS

State-of-the-art suite of equipment for:

- ☐ Automated Optical Inspection
- ☐ In-line CD Measurements
- ☐ Thin Film Thickness and Characterization
- ☐ Full Parametric Test
- ☐ Functional Array Test
- ☐ Reliability, Operational and HAST Test

WORKING WITH dpiX

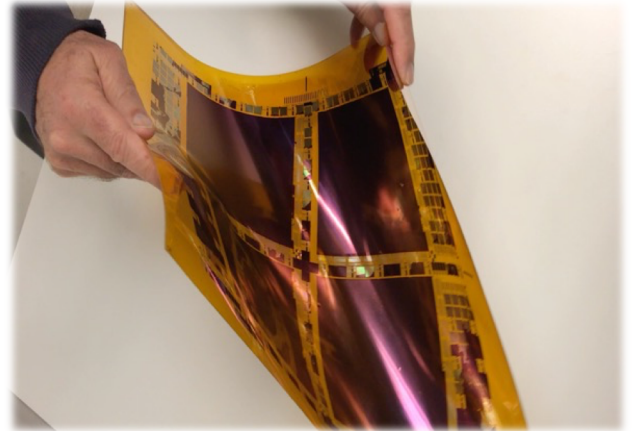
- ☐ In House Engineering Circuit Layout and Simulation
 - Rapid product design and prototyping
 - Design kit available upon request
- ☐ Prototype R&D to High Volume Production
- ☐ Intellectual Property Protection

FOUNDRY BUSINESS STRATEGIC FOCUS

- ☐ Power (Solid State Batteries, Energy Scavenging)
- ☐ Sensors (Biometric, Chem-Bio, Environmental, etc.)
- ☐ Wearable Electronics

FACTORY CERTIFICATION

- ☐ 9001 Certification
- ☐ 14001 Certification
- ☐ 13485 Certification
- ☐ Gold ELP award since 2012



CONTACT US

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