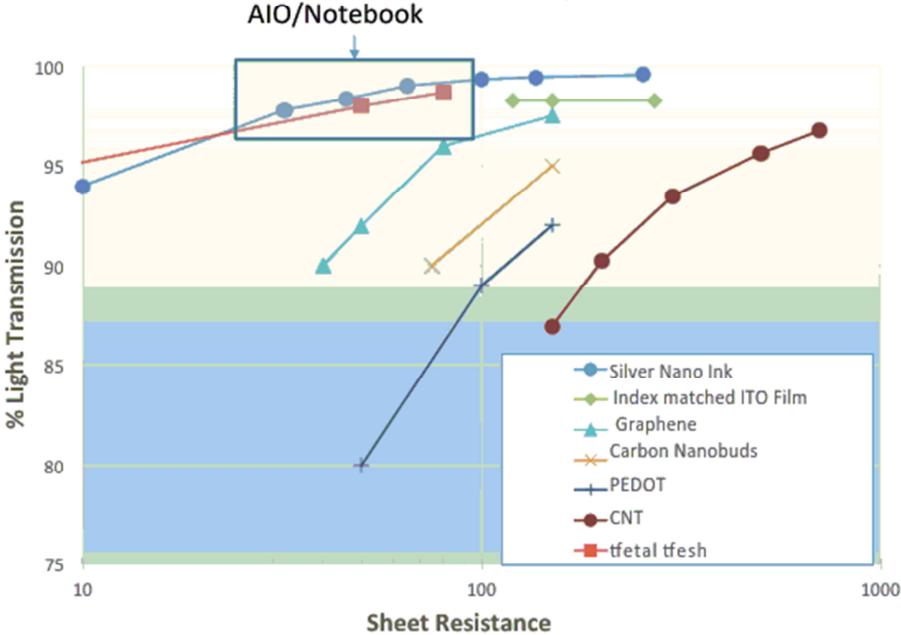


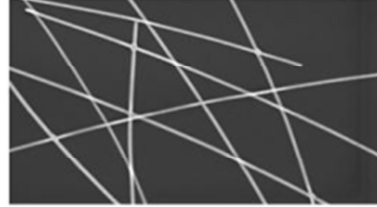
# Other ITO Replacement Technologies Cannot Beat Our product.



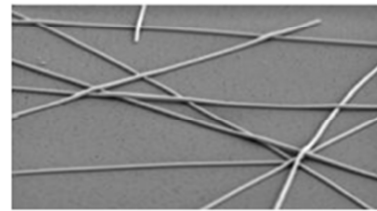
# Silver Nanowires

- Pros
  - High conductivity
  - High transparency
  - Inexpensive and easy to use
  - Commercially used in many products
  - Well established and growing supply chain

Plan View



70 degree tilt



**Comparison Table  
between  
Silver Nano Ink, Metal Mesh, OGS and ITO Film**

	Silver Nano Ink	Metal Mesh	CIGS	ITO Film
<b>Moiré</b>	NO	YES	NO	NO
<b>Bendable/Flexible</b>	YES	YES	NO	NO
<b>Resistance Ohms/sq</b>	30-150ohm	<10-50ohm	~50 ohm (typical 75ohm)	150ohm
<b>Same sensor across multiple platforms</b>	YES	NO	YES	YES
<b>Cost</b>	Low - medium	Medium	Medium	Low - medium
<b>Lead time</b>	Short (2-4wk)	Long (4-6wk)	Long(4-6wk)	Short (2-4wk)
<b>Process Method</b>	Photo and Laser	Proprietary only	Photo Only	Photo and Laser
<b>Silver trace routing(15.6")</b>	Single/Single	Single/double	Double/double	Double/Double
<b>Sensor Thickness</b>	Thin	Medium(include OCA and PET Hardcoat)	Thin	Medium
<b>Pattern Customization</b>	EASY	Difficult	Difficult	EASY
<b>Tooling cost</b>	Low	Medium	High	Low
<b>Substrate material</b>	Unlimited (can be coated onto PTFE/PC/PET/Glass)	PET only	Glass only	PET Only

Red = Weakness