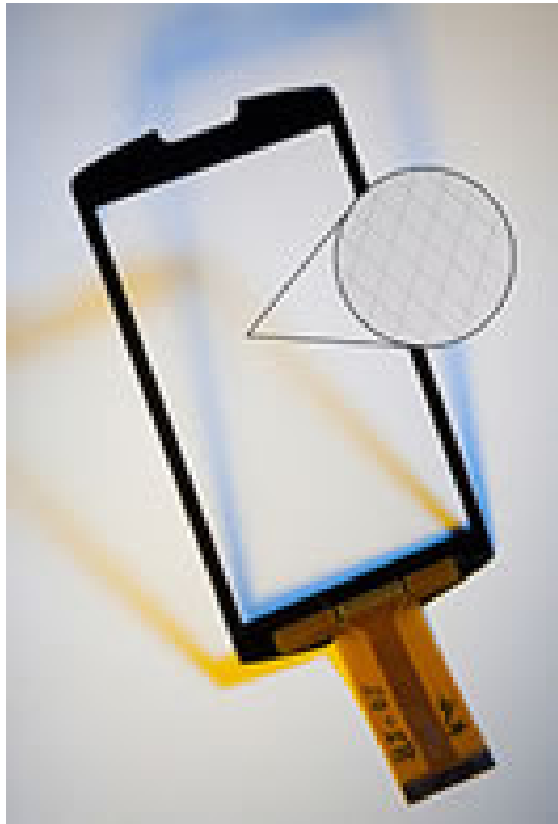
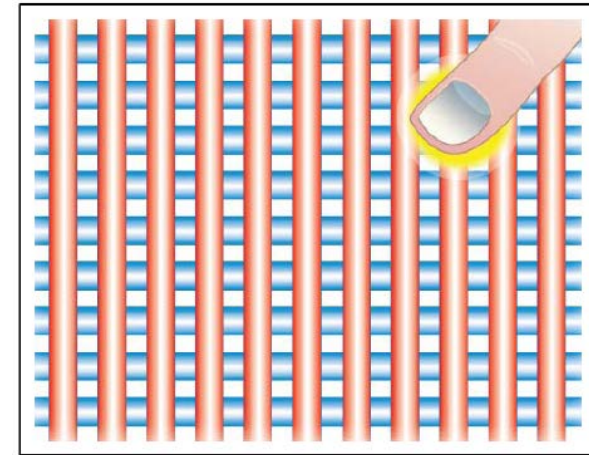
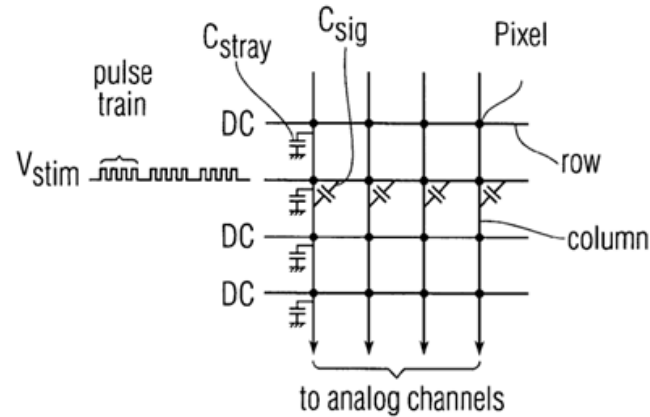


Functional Printing at Kodak



Double Sided Touchscreen Sensors

By Michael Motala



- Drive lines horizontal
 - pulse train drive sequentially
 - other lines held at constant DC
- Sense signal on upper vertical lines
- Sense lines and drive lines separated by dielectric
- Sensors continually calibrated

- Kodak has more than 100 years of experience with silver halide, coatings, and material chemistry
- Leveraging this knowledge from the film days and joining with patterns to produce touch sensors as an indium tin oxide (ITO) replacement
- Lines are made effectively invisible by reducing features below 5 microns
- Metallic wires can be made on a variety of substrates including flexible plastics
- Production can be scaled in a continuous roll-to-roll process