

- **Super Light Sensitivity Feature**
- **Low Surface Dark Current Feature**
- **No Image Lag Feature**
- **Schottky Barrier on Gallium Oxide**
- **Conclusions**

02

Slide 02

This is the outline of my talk.

Image Sensors in general have the three most important features. They are , First, Super Light Sensitivity Feature, Secondly, Low Surface Dark Current Feature and Thirdly No Image Lag Feature.

But we must not forget the most important basic feature of the common PN junction photodiode, which is the Low Leakage Current Feature.

The PN junction leakage is dependent on the minority carrier density of the semiconductor material itself.

Related various historical photodiode structures will be reviewed, including the gold metal and Ga<sub>2</sub>O<sub>3</sub> type metal semiconductor Schottky Barrier photo sensor in search for the low leakage and dark current device.