

THE GO SERIES! Now available from Multipix Imaging



See the possibilities

Compact industrial area scan cameras  
at a great price/performance point...small in size, big on possibilities!



...now with Sony IMX250MZR  
four-directional on-chip polarizer!



*Machine Vision Technology Specialists*

# TWO MODELS: GO-5100MP-USB & GO-5100MP-PGE



See the possibilities

**USB**<sup>®</sup>  
VISION

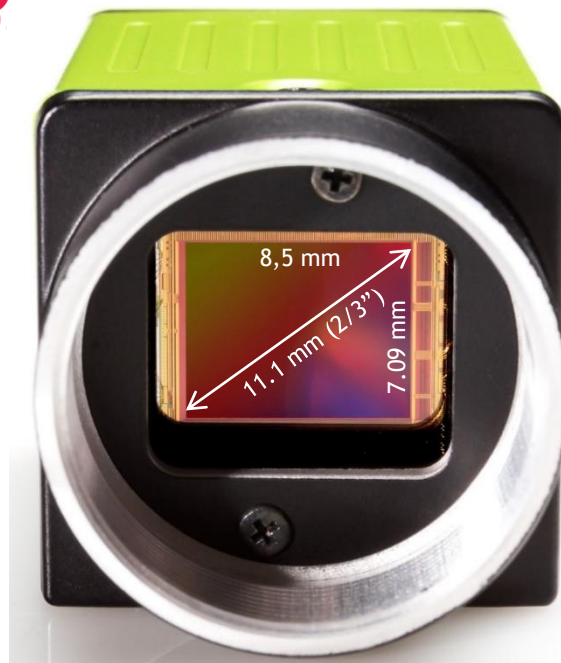
**GiGE**<sup>®</sup>  
VISION

**GO**  
**SERIES**  
POLARIZED

CMOS

Global shutter

C-Mount



5.1 megapixels

2464 x 2056 pixels

3.45  $\mu\text{m}$  x 3.45  $\mu\text{m}$

**Polarization:**

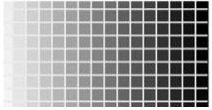
On-chip nano wire grids with angles at 0,45,90,and135°

# THE FUNDAMENTAL PROPERTIES OF LIGHT

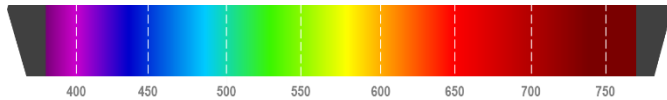


See the possibilities

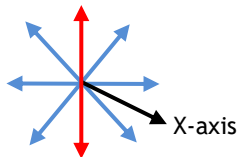
## Amplitude (Brightness/Intensity)



## Wavelength or Frequency (Color)

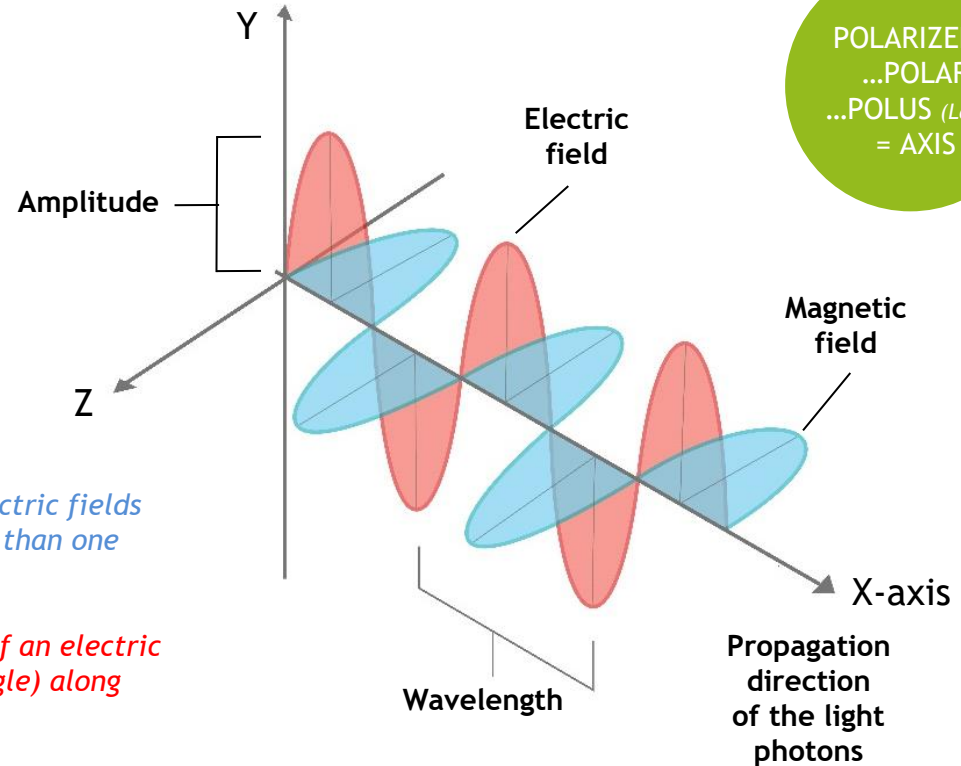


## Polarization (vibration plane)



*Un-polarized light consists of electric fields that oscillates randomly in more than one plane (angles) along the x-axis.*

*Polarized (linear) light consists of an electric field oscillating in one plane (angle) along the x-axis.*



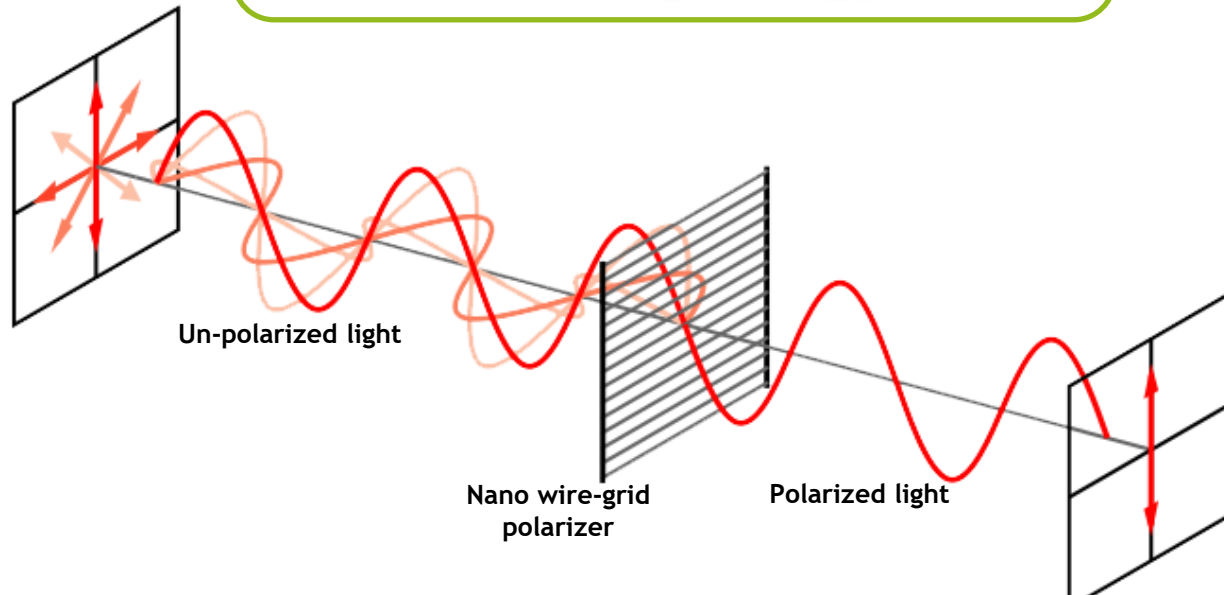
POLARIZED...  
...POLAR  
...POLUS (*Latin*)  
= AXIS

# THE FUNDAMENTAL PROPERTIES OF LIGHT



See the possibilities

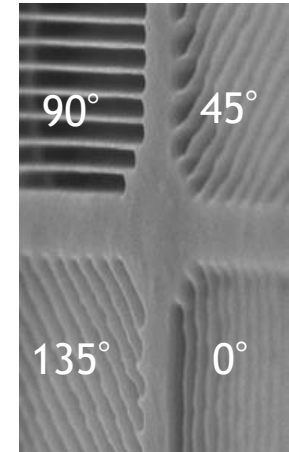
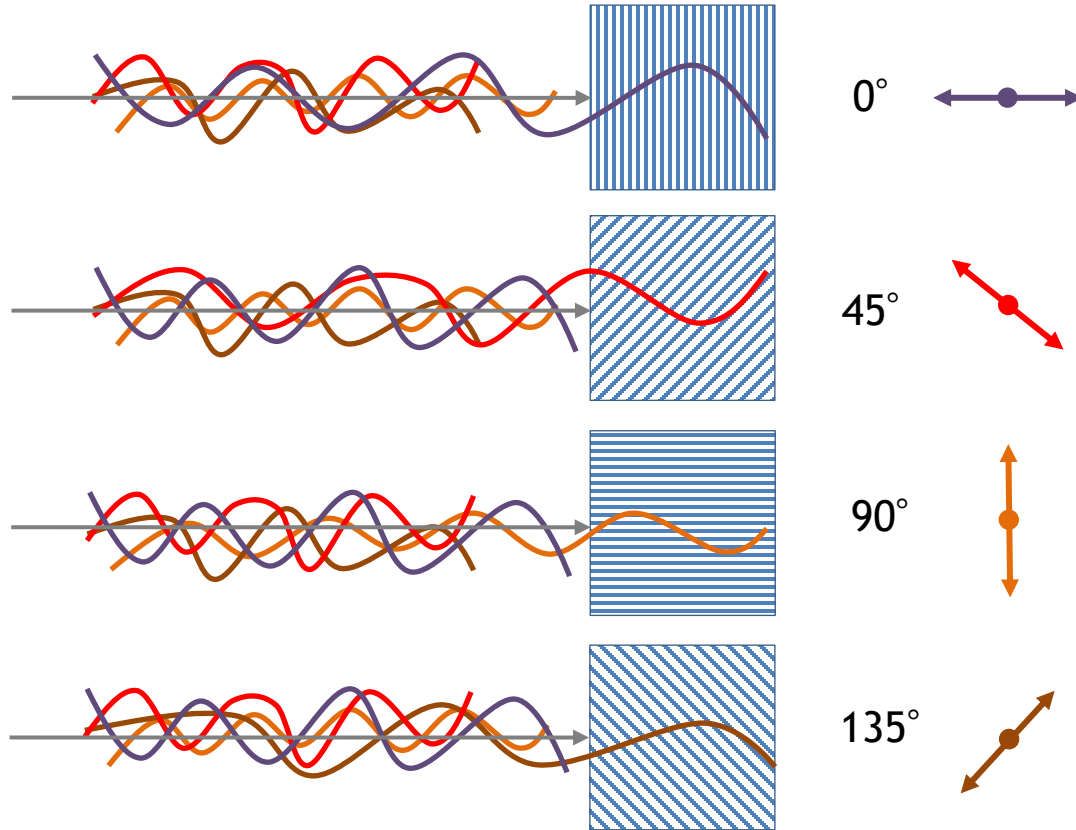
Many common light sources such as sunlight, halogen lighting, LED spotlights, and incandescent bulbs produce un-polarized light.



# POLARIZATION DETECTION BY NANO-GRID VIBRATION



See the possibilities

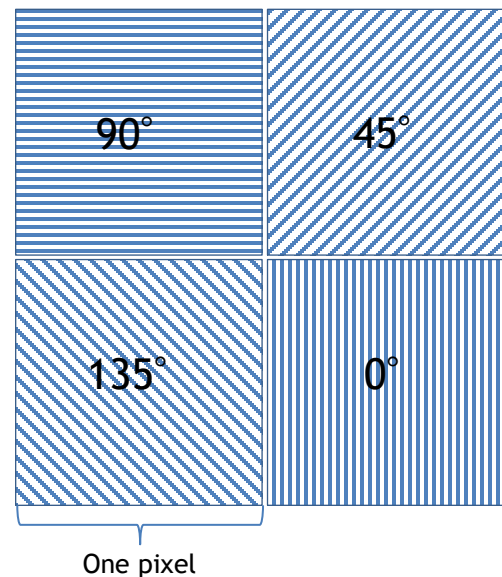
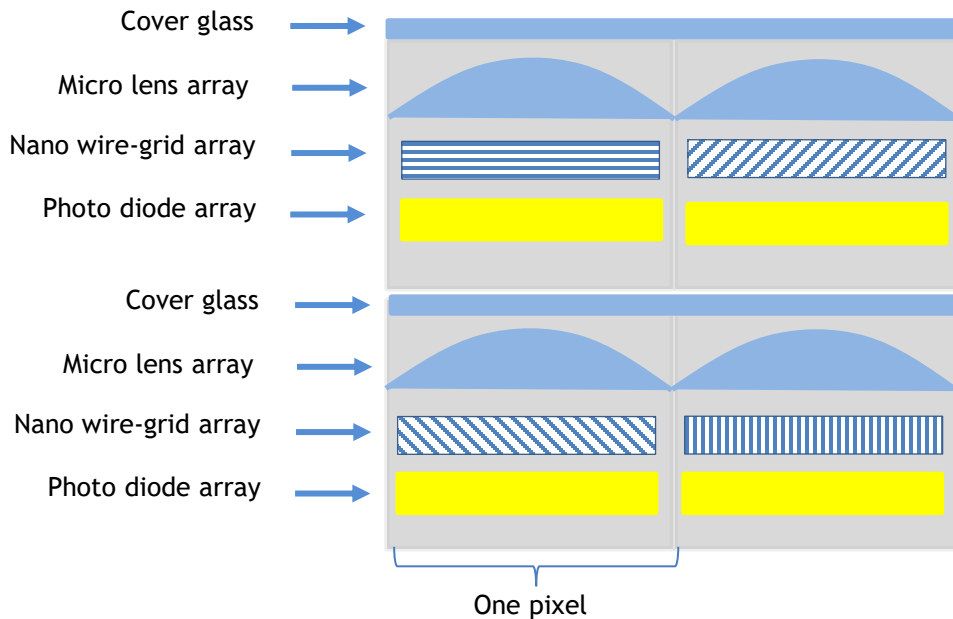
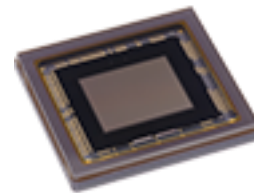


# POLARIZATION IMAGING WITH THE SONY IMX250MZR



See the possibilities

## Sony IMX250MZR



Four-pixels clusters are used as calculation blocks

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Call or email for further information & advice on when and how to use polarization.

01730 233332

[sales@multipix.com](mailto:sales@multipix.com)

[support@multipix.com](mailto:support@multipix.com)