

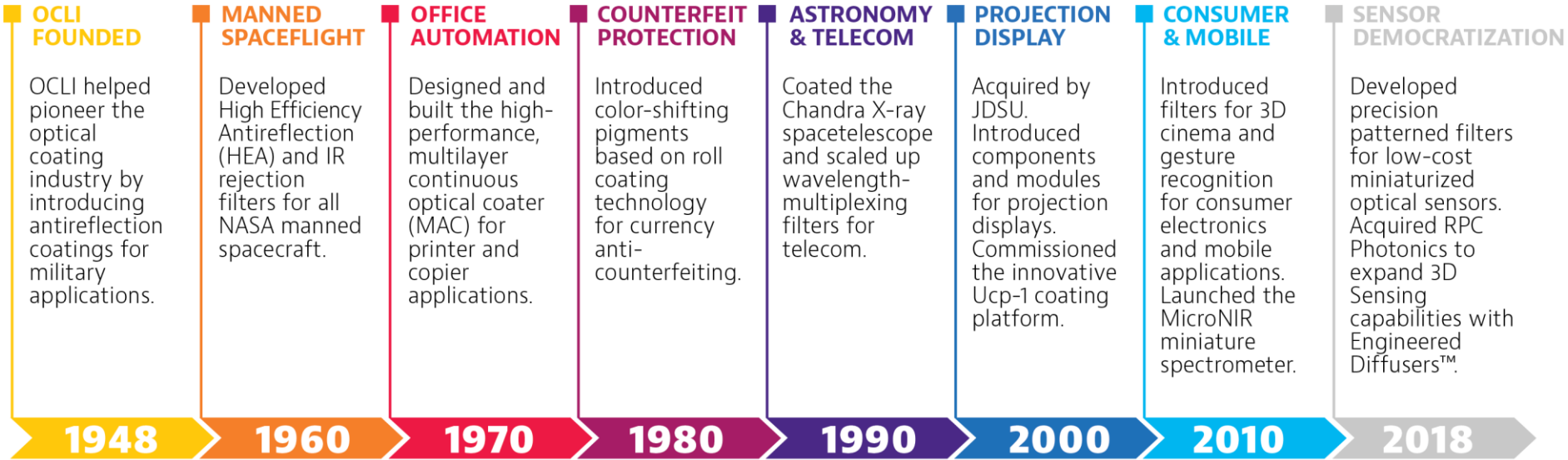
# Viavi Solutions Optical Security and Performance Products (OSP)

Dr. Georg Ockenfuss

Director Field Applications Engineering

June 2020

# Over 70 Years of Innovation



# Consumer Electronics

## 3D Depth Sensing

Enhancing utility of smart devices by giving them spatial awareness

Biometrics increase safety

Multiple design wins with Tier 1 customers

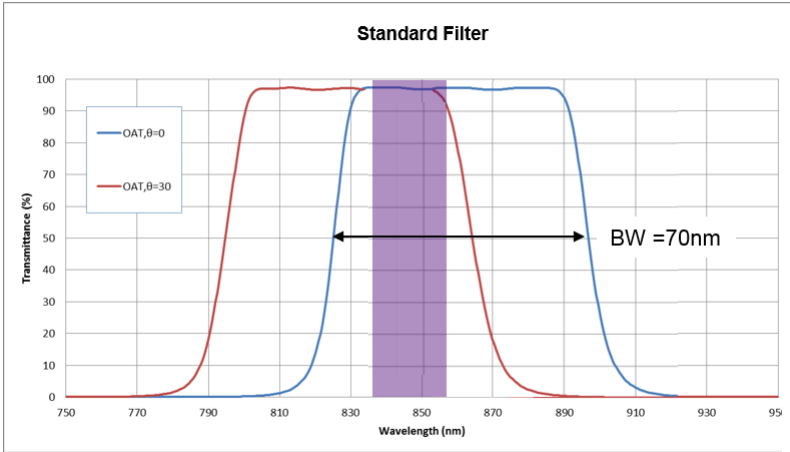
Integrated Diffusers – sending light where it is needed

## Optical Sensors

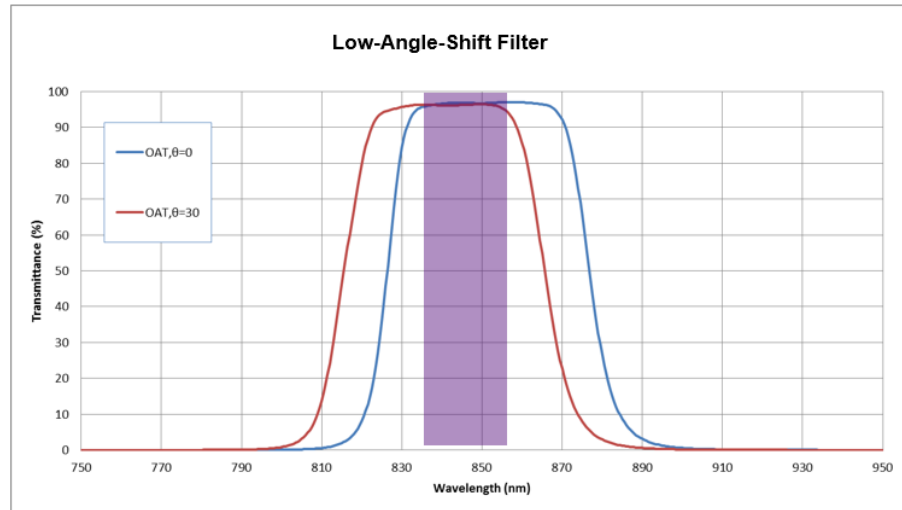
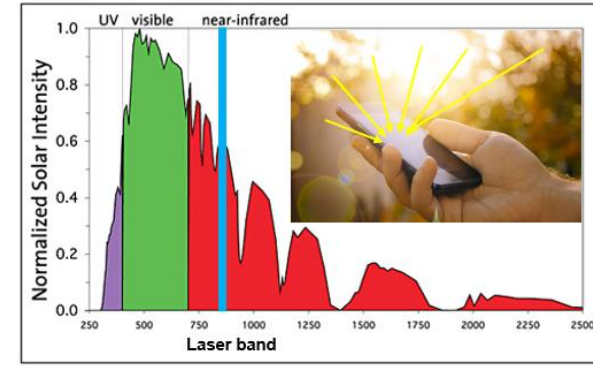
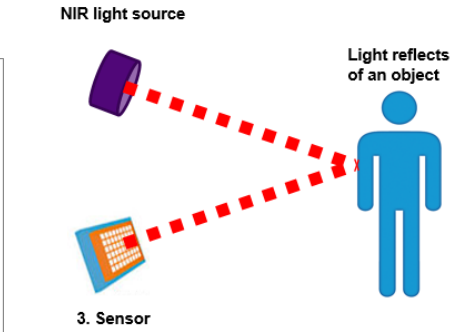
Ambient light, RGB hue, UV, and NIR proximity sensors

Multispectral sensors for precision color measurement and spectroscopy

# Low Angle Shift Filter



- Reduced bandwidth
- Larger FOV
- Larger Distance
- Lower power
- Increase in SNR



# Technology Differentiation

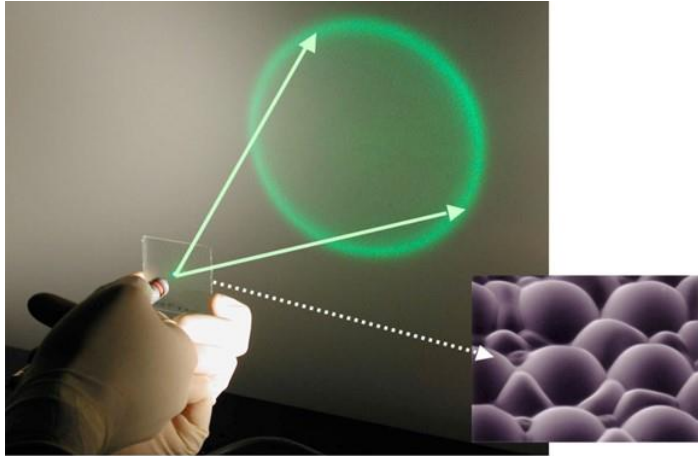
## Optical Coating—Advanced Sputtering Technology UCP Platform

- High transmission
- Deep blocking over wide spectral ranges
- Precise edge placement
- UV to mid-infrared (220nm to 5.0microns) coatings
- Polarization control coatings



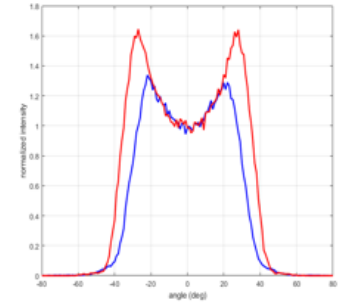
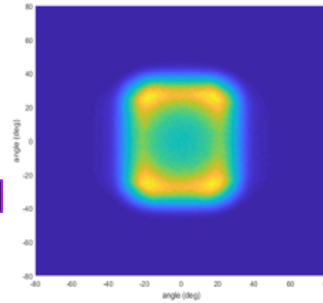


# 3D Imaging Illumination for TOF and Structured Light with Engineered Diffusers™

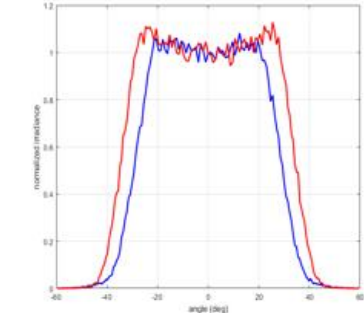
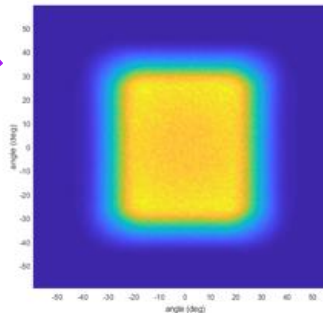


Engineered Diffusers™ unique structures project general light patterns.

### Intensity pattern



### Irradiance pattern



# OSP Sites

## Santa Rosa, CA

- Division HQ
- Optical and mechanical design facilities
- Photolithography facilities
- ISO certified

## Rochester, NY

- Formerly RPC Photonics
- Optical and mechanical design facilities
- Photolithography facilities

## Beijing, China

- 10+ years in operation
- Pigments for security applications
- ISO certified

## Suzhou, China

- Facility completed in 2010
- Advanced UCP Coating Technology
- ISO 9001, ISO 14001 and OHSAS 18001 certified