

## Multispectral Time-of-Flight Range Imaging (3.5 D Camera)

Solèr, Ursin; Merbold, Hannes; Iten, Marc-Alexander; Catregn, Gion-Pol University of Applied Sciences of the Grisons, Institute of Photonics and ICT (IPI)

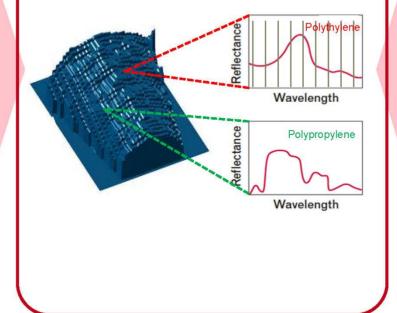
## 3D Imaging

- Three spatial dimensions
- x, y, and z
- Time-of-Flight (TOF) Imaging, Structured Light, Flash Lidar, ...
- · Allows resolving surface shape



## 3.5D Imaging

- Three spatial and half a spectral dimension
- x, y, z, and limited number of  $\lambda$  datapoints
- Multispectral TOF Imaging
- Allows resolving surface shape and chemical composition



## 2.5D Imaging

- Two spatial and half a spectral dimension
- x, y, and limited number of  $\lambda$  datapoints
- Multispectral Imaging
- Allows spatially resolving chemical composition

