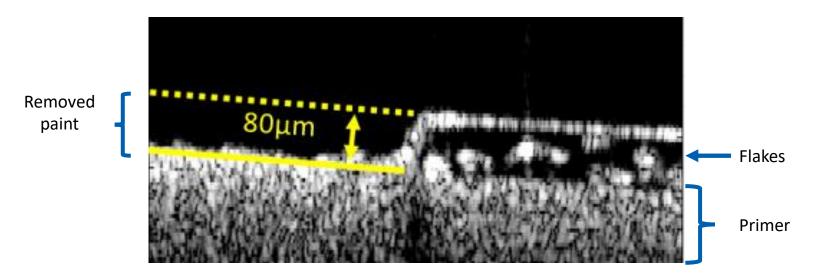


Optical Coherence Tomography (OCT)

OCT is a high-resolution non-contact 3D imaging technology. OCT uses interference of low coherence light between a reference surface and an inspection object to construct a 3D multi-surface image of the object. Using this technology, multilayer surfaces can be imaged at high lateral and axial resolution.



- **Surface Profilometry :** Profile of clear coat, plus base coat can be measured simultaneously. Measurements are impervious to specular reflections, diffusive surfaces, changing lighting conditions, dust or aerosolized particles
- **Paint Layer Thickness :** Layer thickness is directly measured for all layers imaged with micrometer precision
- **Defect Detection :** Scratches, inclusions, dents and other defects can be measured and detected and porosity can be characterized
- Metallic flake analysis : Quantification and distribution of metallic flakes in paint can be assessed





Surface Inspection with OCT Technology

INO's OCT Focus

• Higher speed OCT systems

- Multi-head OCT systems
- MHz depth profile acquisition rates
- Custom front ends
 - Large field of view scan systems
 - Low profile or endoscopic

- OCT for highly scattering paints (TiO content)
 - 2µm OCT systems for higher penetration
- Intelligent Algorithms
 - Segmentation
 - Dimension measurement
 - Defect detection
 - Porosity characterization

MHz OCT scan of painted car surface

