



Fundamentals of **Industrial Measurement**
Technology

3D Camera System



ProDSP Post Series Nr.27.



When should you move beyond line scanners?

- There are measurement tasks where a **3D point cloud** built from a 2D profile **no longer** provides **sufficient** information. In such cases, it is worth considering **3D camera systems**.





What do they do differently?

- They operate from multiple viewpoints **simultaneously**
- Or they use **different illumination configurations**
- Thus, they generate a **3D image directly**





What are their advantages?

- **Fast inspection** of complex shapes
- **Less** mechanical **complexity**
- **Shorter cycle times** for certain applications





And the trade-offs?

- **Higher system cost**
- **Blind spots** may still occur
- **Depth resolution** is **not** always **better** than with line scanners





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