

ACHIEVING HIGH-PERFORMANCE VIA STRUCTURED LIGHT SYSTEMS



PROBLEM STATEMENT

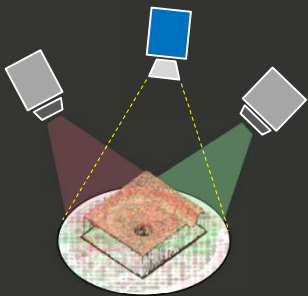
Textureless objects **lack distinct surface features**.
 → **Poor digitalization** of the sample.

SOLUTION APPROACH

Integration of an **illumination pattern** system.
 → injecting **artificial features** onto the object's surface

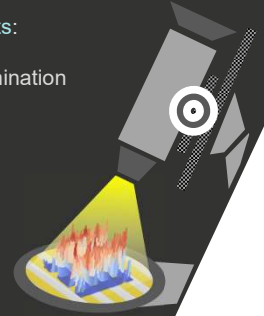
IMPLEMENTATION

AIT LINEAR MULTI-VIEW 3D SCANNING (ICI)



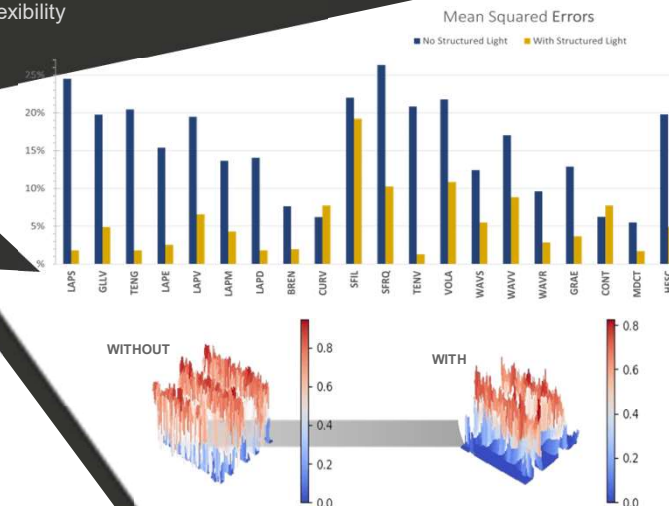
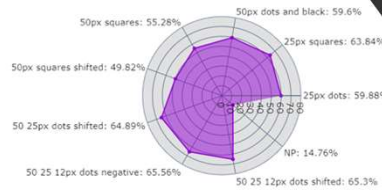
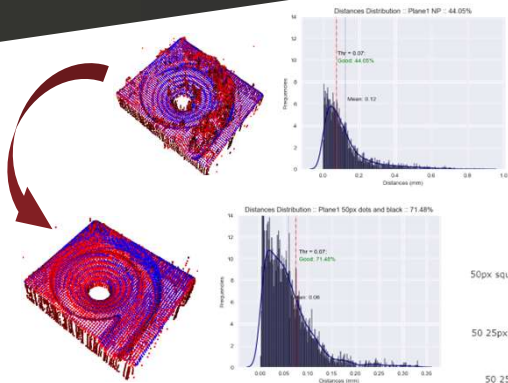
- Main system components:
 - Single High-Speed Camera
 - Constant Illumination
 - Linear Transport Stage
 - 2-Projectors
- Inline-Compatible → speed
- View / Illumination angles → quality
- Adjustable camera lines & Pattern Projector → flexibility

AIT FOCUS STACKING 3D SCANNING



- Main system components:
 - Optical Microscope
 - Strobe LED active illumination
 - Single camera
 - Linear DC motor
- Automatic image acquisition → autonomous
- Microscopic Samples Inspection → quality
- Adjustable camera objectives → flexibility

RESULTS



CUSTOMERS

- Company Quality Inspection Department
- Companies that offer quality report services
- Companies that build 3D scanners

MARKET

COMPETITORS

Companies that build 3D scanners
 R&D departments and research institutes

▪ Technologies are **Patented**

▪ AIT sell **Licensed** from those technologies



FROM 50K TO 69K

INCREASE ≈ 37%

