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Machine Vision Specialist

JM Vistec System Pte Ltd

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Optical Metrology Development Kit
The most complete 3D Optical Metrology Software

Optical Metrology Library

A 3D image processing powerhouse.

MU3 has an extended range of 2D & 3D image processing capabilities which allows user to visualize and analyse pixel data. This software is suitable for metrology and various other applications.

Smart rapid prototyping:

Generate contour/slice of closed mesh objects and generate plate joint, etc

Flexible visualization:

Vary display scale, user-specified range, true color, pseudo color

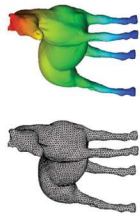
Diverse input/output formats:

ASCII, binary data, medical DICOM, BMP, JPEG, EPS, DXF, etc

Powerful processing toolbox:

Arithmetic operation, image body operation, color separation and combination, computed tomography (CT), image masking, edge detection, filtering, morphology, computational geometry, statistics, threshold, fitting, object detection, Fourier transform, etc.

MODULES



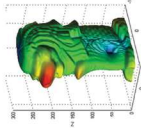
2D CONTOURS OF CLOSED MESH



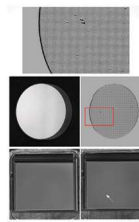
MODELING & PROTOTYPING



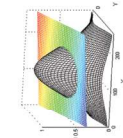
FRINGE PROJECTION



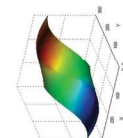
360 PROFILE SCANNING



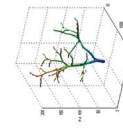
DEFLECTOMETRY



MULTIPLE FIGURES



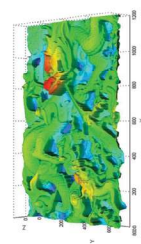
LASER SPECKLE



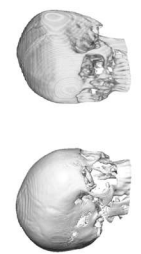
DIGITAL IMAGE CORRELATION



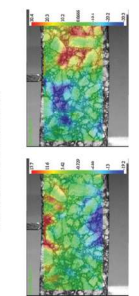
DIGITAL HOLOGRAPHY



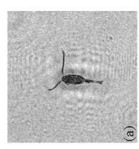
MULTIPLE-FREQUENCY FRINGE PROJECTION



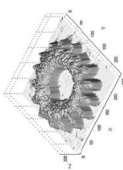
3D IMAGE PROCESSING



DIGITAL HOLOGRAPHY



3D IMAGE PROCESSING



WHITELIGHT INTERFEROMETRY

VISUAL HULL

MULTIPLE FIGURES

LASER SPECKLE

VISUAL HULL



Hardware / Evaluation Kit

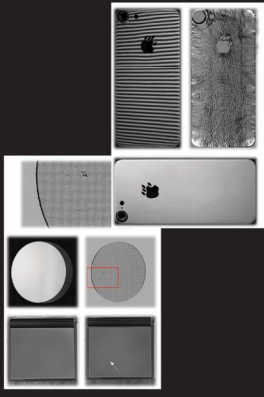
MU3 DEFLEKTOMETER

Specular Surface Inspection



In today's world, specular surface challenges 3D measurement technology. Based on Phase Measuring Deflectometry, Mu3's specular surface-inspection function is able to reach nanometer precision. Mu3 technology enables automated optical inspection for glass, metal, water and mirror-like surfaces.

- Field of View 100mm x 80mm (Custom sizes available)
- Local Sensitivity 50 nm
- Measurement Speed 2 sec
- Accuracy Curvature: ± 0.01 Diopter
- Measuring Principle Phase Measuring Deflectometry
- Operating System Windows 7/Windows 8/Windows 10 (32/64-bit)
- Interfaces dll available for custom software development



Why should you use MU3 DEFLEKTOMETER?

Fast, full field, non-contact measurement method for reflective surfaces
Non-sensitive to vibrations and can be easily integrated in production chains
Sensitivity down to nanometer range

MUNOS

Structured Light Stereo Imaging



MUNOS™ is a structured light based 3D scanner that images physical objects into 3D point cloud. A full-field determination of 3D surface profile can be achieved with large point cloud data, high accuracy, high precision, and high speed. Applications in such diverse fields as aerospace, medical, product inspection, quality control, and reverse engineering are possible.

- Sensor Resolution (Max) 2448 x 2050px (Custom sizes available)
- Point Spacing in X and Y 0.05 mm
- Accuracy (Standard Deviation) 0.01 mm
- Precision 0.02 mm
- Depth Of Field -80 mm
- Field Of View (x or y) -100 mm
- Power Supply 220V / 230V
- Operating System Windows 7/10 - 64 bits or 32 bits
- Computer requirement 16Gb of Ram, Dedicated Video Card
- Principle of Operation Fringe Profilometry

