



- COST-EFFECTIVE PROFILOMETER AND 3D SCANNING SOLUTION
- INTEGRATED MOTION SYSTEM WITH 50 MM TRAVEL
- USER FRIENDLY CONCEPT
- SOPHISTICATED ANALYSIS AND AUTOMATION SOFTWARE

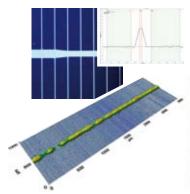


LOGO

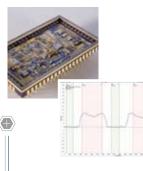
Depth of laser scribing



3D metallization measurement on solar cells



Thick-film height on hybrid circuits



OVERVIEW

The cyberSCAN VANTAGE 50 is a compact, noncontact profiling system for fast scanning of any part or surface. The system combines a laser sensor, a base unit with an integrated translation stage and a PC or a laptop for data analysis. The sensor scans over the object and produces a high-resolution height profile. The confocal laser sensor can also produce a scan line with the width of 1.1 mm and a lateral resolution of 2 μ m. In combination with the translation stage a highly accurate 3D raster can be recorded.

APPLICATIONS

Typical applications are the analysis and quality control of printing processes, such as thick-film measurement on a variety of substrate materials, epoxy-film, dots or other printed and dispensed features. Geometry measurement of highly contoured objects like solder bumps, micro-lenses, and MEMS devices are popular applications for a VANTAGE 50 system.

- Printed products, systems or devices
- Device packaging
- Printed circuits
- MEMS
- Solar and fuel cell elements
- Soft and transparent materials or coatings

SOFTWARE

The proprietary cyberTECHNOLOGIES, Windowsbased software package SCAN SUITE combines system control, data collection and data analysis in a user friendly interface. Comprehensive profile, 3D and roughness analyses conforming to DIN ISO are included. The software can handle up to 10.000 x 10.000 data points in one scan.

An outstanding feature is the ASCAN Software:

- Automation of measurement routines
- Easy programming using tasks and templates
- Offset and fiducial correction
- Built-in SPC Charts with reporting function
- Flexible, user defined data output format
- Barcode or user field input
- Step & Repeat function

TECHNOLOGY

- Integrated y-stage with sensor mount
- 50 mm travel in y- direction, lateral resolution
 0.05 µm
- Laser confocal or triangulation sensors
- Resolution down to 0.01 µm, measurement range up to 8 mm
- 3D Line-scan capabilities (laser confocal sensor) with 1.1 mm width and 2 µm lateral resolution
- Integrated on-axis camera, visible laser spot inside the camera field of view

SYSTEM INCLUDES

INFO

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INFO

- cyberSCAN VANTAGE 50 base unit with manual z- and motorized y-stage
- One sensor of choice (see sensor specifications)
- External system controller unit with USB interface (LT sensor)
- PC Workstation (current version)
- Factory installed Windows XP and cyberTECHNOLOGIES SCAN SUITE license
- 22" widescreen monitor, keyboard, mouse
- Reference manuals and user guides

OPTIONS

PRODUCT

 ASCAN Software for automation of measurement tasks and 2D analyses

VANTAGE 50

CONTACT

- On-axis camera for laser trangulation sensor including LED illumination
- Granite base
- Additional sensors
- Traceable calibration tools and certification targets



SPECIFICATIONS

| DIMENSIONS (L X W X H) | 430 x 220 x 245 [mm] (16.9 x 8.7 x 9.6 [in]) |
|--|---|
| WEIGHT | 10.5 kg (23 lbs) |
| SYSTEM CONTROLLER (FOR CONFOCAL LASER SENSOR) | Includes Sensor Controller and USB Interface to Workstation |
| WORKSTATION PC | Inquire about current specifications, 22" widescreen monitor |
| CONNECTIONS | Ethernet, DVD Drive, USB (front and back side), Parallel Port, Keyboard, Mouse, DVI and Analog Video Output |
| POWER REQUIREMENTS | 100-240V AC, 50-60 Hz, 2 amps (240 V), 5 amps (100 V) |
| OPERATING TEMPERATURE | 20°-30° C (68-86 F) |
| THROAT DEPTH (BASE TO LASER SPOT) | 70-121 mm (2.75-4.75 [in]) |
| TRAVEL LIMITS IN Y (MOTORIZED) | 50.8 mm (2 in) |
| MINIMUM STEPSIZE | 1 µm |
| TRAVEL LIMIT IN Z (MANUAL) | 50 mm (2 in) (adjustable level to 80 mm) |
| MINIMUM X STEP SIZE (LT SERIES) | 2 µm |
| TRAVEL LIMIT IN X (LT SERIES) | 1.1 mm |
| GRANITE BASE WEIGHT | 50 kg (110 lbs) |
| GRANITE BASE SIZE | 600 x 400 [mm] (23.6 x 15.7 [in]) |
| AVAILABLE SENSORS | Confocal Laser Sensors Laser Triangulation Sensors |