PANELSCAN™

Mounting structure is not included.

PanelScan: At a Glance

- Inline decoding and verification of 1D/2D codes
- Scalable to Visionscape for additional inspection tasks
- Available in both Standard and Wide versions for flexible implementation
- Solution includes software, camera, lens, light, trigger and cables:

  PanelScan Software: User-friendly interface to set up and run jobs

  GigE Camera: Up to two GigE line scan cameras and telemetric lenses

  NERLITE Smart Series Light: Up to two lights with focused lens and brightest LEDs in their class

For more information on this product, visit **www.microscan.com**.

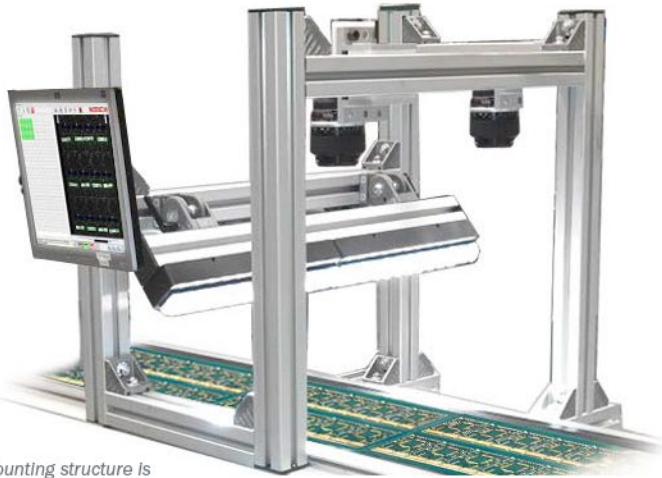## PanelScan: User Interface

Multi-Array PCB Traceability System

PanelScan is a user-friendly and easily integrated traceability solution for capturing barcode data from multi-array PCBs at the front-end or mid-stream on any SMT line. This integrated system replaces error-prone manual scanning with a solution that allows for in-motion reading and keeps production lines moving.

The PanelScan system is the ideal traceability and inspection solution for any high mix, low volume electronics manufacturer.

Large Area Imaging
PanelScan is a cost-effective large area imaging system designed to read the entire length and width of any printed circuit board array.

Remote Configuration
After setup, line changes are easily managed within the software so that updates can be configured remotely or through automation. Product mix and barcode location changes no longer require lengthy line shut-downs to reposition, reconfigure, and test barcode readers.

Easily Integrated
PanelScan is a packaged solution that can be integrated into almost any production environment. Built-in software application utilities allow integration into an existing Manufacturing Execution System (MES).

Intuitive User Interface
The innovative PanelScan interface is exceptionally easy to use. Line operators can quickly train and recall jobs to make sure production is always running.

Scalable Software
Easily upgrade to full functionality of Visionscape® software to access value-added inspection tasks such as absence/presence, measurement, and OCR/OCV.
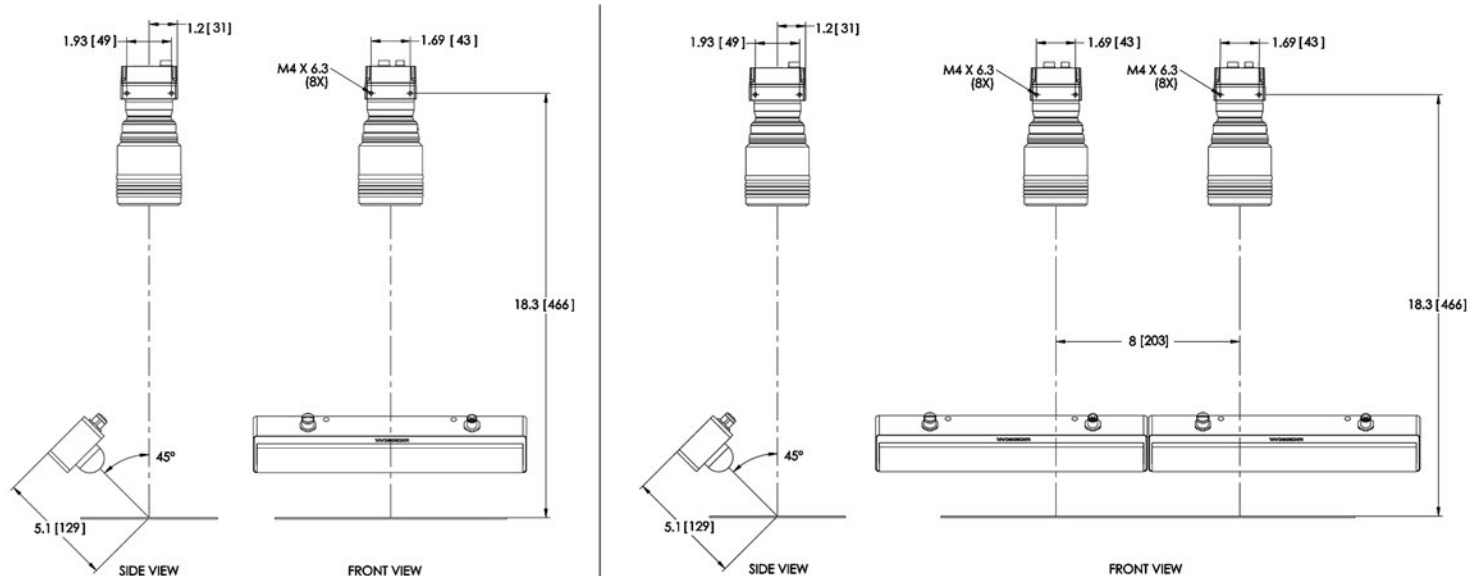
Application Examples
- Contract manufacturers
- Automotive electronics
- Medical electronics
- Military electronics
- Large-format PCB assemblers
- Machine builders
- MES providers
- Material handling
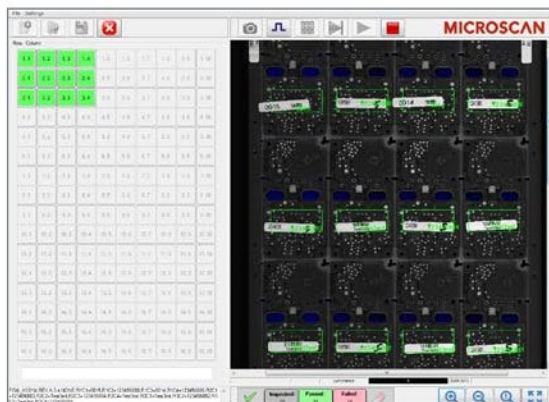
MICROSCAN®

Mounting Specifications:

STANDARD CONFIGURATION
- One camera
- One light
- Field of view: 10" (254 mm) max. width by 24" length

WIDE CONFIGURATION
- Two cameras
- Two lights
- Field of view: 18" (457 mm) max. width by 24" length

Note: Inches [millimeters]. Nominal dimensions shown. Typical tolerances apply.

Camera Specifications:

MECHANICAL (CAMERA)
Height: 2.44" (62 mm)
Width: 2.20" (56 mm)
Depth: 1.42" (36 mm)
Weight: 8 oz. (240 g)

MECHANICAL (F-MOUNT ADAPTER)
Height: 1.43" (36.4 mm)
Diameter: 2.32" (59 mm)

MECHANICAL (LENS)
Height: 2.9" (74.5 mm)
Diameter: 2.8" (70 mm)
Weight: 15.5 oz. (440 g)

COMMUNICATION PROTOCOL
Interface: Gigabit Ethernet

LIGHT COLLECTION
Sensor: Linear CMOS, 1 by 6144 pixels
Line Rate: 17 kHz

ELECTRICAL
Power: 12–24 VDC (±5%)
Power Consumption: 4.5 W

DIGITAL I/O
3 in / 2 out or direct encoder input

Light Specifications:

MECHANICAL
Height: 2.24" (57 mm)
Width: 11.81" (300 mm)
Depth: 2.07" (52.6 mm)
Weight: 50.16 oz. (1422 g)

LIGHTING PARAMETERS
Lens: Collimating
Temperature: 5000 K – 8300 K
Continuous Output: 1813 lumens

LIGHT SOURCE
Type: High output LEDs
Expected Life: 50,000 hours
Eye Safety: EN 60825-1: Class 2

CONNECTOR
Input: M12 5-pin plug, A-code
Output: M12 5-pin socket, A-code

ELECTRICAL
Power: 20.2–28.8 VDC
Current Draw at 24 VDC (typ.): 750 mA
Continuous Operation: No additional signals required
Continuous Operation with Dimming: 0 VDC (LEDs off) to 3.1–3.5 VDC (LEDs on) PWM signal. < 1 mA, modulation frequency 2 KHz +/- 100 Hz. Note: LED duty cycle will equal duty cycle of dimming signal when using this mode.
Continuous Operation with On/Off Control: 0 VDC (LEDs off) to 3.1–3.5 VDC (LEDs on), < 1 mA

MINIMUM PC REQUIREMENTS
- Windows® 7 64-bit
- 2 GB of memory
- Two GigE NIC ports with Intel® chip set

SYMBOLOGY TYPES
2D Symbologies: Data Matrix (ECC 0-200), QR Code, Micro QR Code
Stacked Symbologies: PDF417, GS1 Databar (Composite & Stacked)
Linear Barcodes: Code 39, Code 128, BC 412, I2 of 5, UPC/EAN, Pharmacode, Codabar, Code 93
Narrow Bar Width Dimensions:
1D = 3.3 mil (0.0033"/0.08 mm)
2D = 5 mil (0.005"/0.13 mm)

ISO CERTIFICATION
Certified ISO 9001:2008 Quality Management System

MICROSCAN.®

Microscan Systems Inc.
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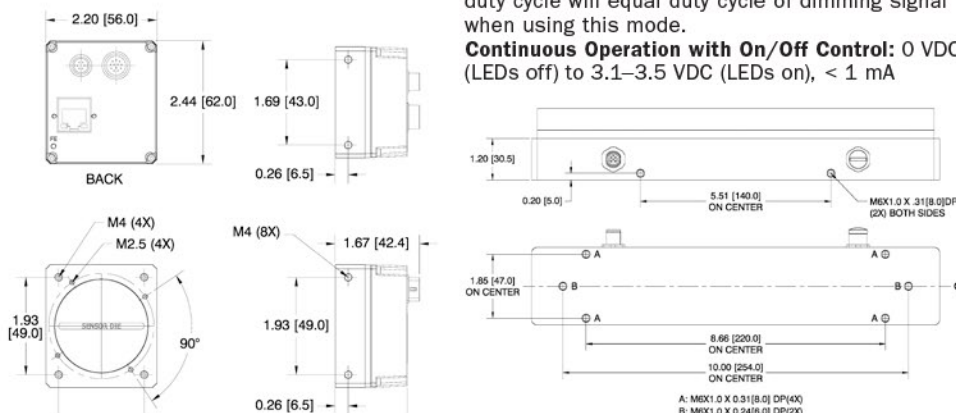Fax 425 226 8250

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