

Panel & Sheet Inspection Systems

ProVisionä Series



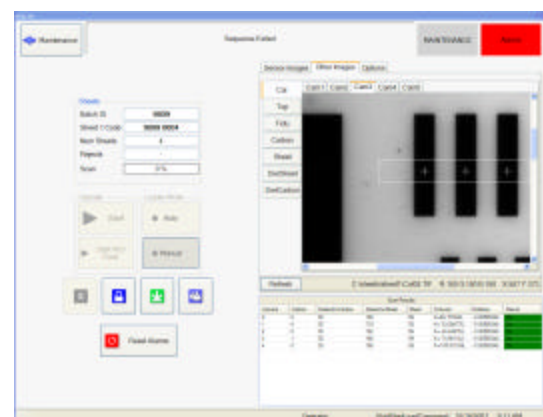
- Integrated optical inspection tool for high volume production
- Built-in measurement functions with Pass/Fail decision-making and statistical reporting
- Ideal for inspection of flat stock, e.g. flat panels or sheets of material
- High speed, high resolution and high accuracy
- Horizontal or semi-vertical load/unload with reject tray
- Slip sheet and panel flipper options

Designed for High Volume Inspection Requirements:

- Multi-camera and multiple-part configurations for optimum throughput
- Resolution better than 5mm
- High accuracy area measurements to better than 0.5%
- Advanced TDI line-scan cameras available for highest sensitivity
- Variety of illumination configurations available

Advanced ProSysä Control Software

- Performs image capture coordination and analysis
- Provides a map of the job features and status on progress of the job
- Customizable set-up for new parts or new panel/sheet layout
- Built-in automated calibration to self-maintain measurement integrity



Panel & Sheet Inspection Systems

The ProVision™ inspection stations provide advanced capabilities for inspecting both repetitive or single-piece patterns on flat product stock. Systems with high sensitivity line scan cameras or 2D cameras are available. High speed, high accuracy XY motion stages transport the part under the camera(s). The stage motion is integrated with the image capture to ensure the optimum combination of inspection accuracy and speed. Whether your application involves printed wiring boards, flexible printed circuits, arrays of circuits screen printed on sheets, or any similar application, a ProVision system can be configured to meet your requirements.

ProVision Specifications*

System Hardware

- Single camera or multiple camera configurations, depending on part layout
- Advanced TDI line-scan cameras offer the highest sensitivity
- Single product or multiple-up configurations
- Precision linear motor XY stages with linear encoder feedback
- Automated part alignment
- Calibration targets for scaling compensation
- Vacuum platen for panel hold-down
- Compliant with CE and North American regulations
- Variety of illumination configurations: colinear, ring, oblique; with different wavelengths available
- Ultra-stable steel weldment frame with resonance dampening
- Large process viewing window
- Maximum panel size: 533mm x 635mm (21"x25")

- Optional sheet barcode reader
- Optional sheet barcode marker
- Optional automatic panel loader / unloader, available in semi-vertical or horizontal configuration, including part reject tray for failed parts

Utilities

- Electrical: 208VAC, 3 ϕ , 25A, 60Hz, or 400VAC, 3 ϕ , 15A, 50Hz
- Weight: 2813 kg (6233 lbs) net; 3437 kg (7563 lbs) shipping
- Dimensions (HxWxD): 2356 x 1626 x 2192 mm (93"x64"x86") without loader / unloader

System Control

- WindowsXP® based user interface
- User friendly touchscreen operator interface
- Straightforward training of new part pattern(s)
- Saving of multiple job parameter files
- Full system diagnostics
- Password protection for access to configuration, set-up, and operating screens
- System monitoring for process integrity
- Emergency stop and safety interlock circuits

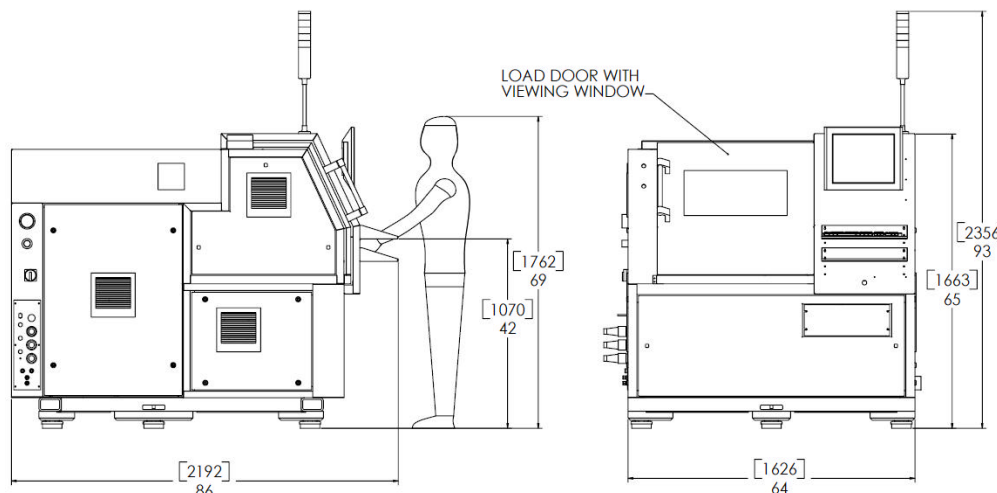
- Optional network interface

Process Parameters

- Edge detection, area calculation, linear distance measurements and shorts detection
- Many measurements possible from a single capture
- Pass/Fail decisions and statistical output of measurement data
- Compatible with a single large pattern or repeating smaller patterns
- Resolution better than 5 μ m
- Area accuracy measurement better than 0.5%
- User-settable regions of interest within the capture field

- Consult PPI for inspection solutions for your requirements.

*specifications are subject to revision



Shown without autoload/unload option.

Contact the team at Process Photonics for help with your process requirements.

PPI Systems Inc.
1051 Baxter Road
Ottawa, Ontario K2C 3P2
Canada
Tel: (613) 236-8359
Fax: (613) 248-4820
www.processphotonics.com
info@processphotonics.com

Process Photonics