



Jaguar PRINT INSPECTION

Your long-term game plan for the short term world

With the rapidly growing need for continuous quality assurance, Tectonic, long known for performance, reliability and service, once again take the lead with the proven, versatile, Jaguar print inspection system. Jaguar's unique core architecture delivers, through the use of powerful algorithms, a fully-upgradeable system, expandable using simple plug and play design to provide the right tools at the right time.

High-end inspection is provided by the base unit, a robust operating platform which uses a revolutionary design to provide high quality web inspection and 'active' colour monitoring with enunciation of colour drift as standard. Non-standard 'active' inspection features include Automatic Barcode Verification, Automatic Pharmaco-Code Verification and Automatic Print Defect Detection, along with a selection of tools to help fulfil the highest expectations of quality assurance.

Significant Features

The system architecture is based on a scaleable distributed processing concept. This approach minimises core system loading and ensures systems can be expanded and tailored to customer requirements very easily encompassing multiple strobes, cameras, I/O video monitors and motion drives.

The standard system is based around a Sony progressive scan, firewire camera offering a minimum spatial resolution of 1024 x 768 with 10:1 lens/+3 achromatic dioptre. The system

supports any alternative 1394 compatible camera, offering spatial resolutions in the range 640 x 480 to 4096 x 4096 based on CCD technologies, which currently include 12 bit monochrome, 1 chip colour and 3 chip colour cameras.

System includes custom intelligent addressable focus, iris and zoom modules and optimised open-loop drive operation lens potentiometers are included to ensure 100% accuracy in repeatable feedback, which guarantees precise position on web

Primary system navigation via full size intuitive graphic touchscreen interface, combined with a set-up monitor and a 19" SVGA monitor on the press for video display provides a system with unparalleled ease of use.

The two monitor, bespoke Windows NT based platform includes multiple system support (multiple CPU's in the same platform, communicating via a 1GB/s internal LAN) to control all operations and analysis. This approach ensures that adding additional inspection modules does not slow down system operation.

Motorised traverse bar and support mechanism includes custom intelligent, addressable stepper motor for high speed movement with full and micro stepping capabilities to provide positional accuracy and full control over acceleration/deceleration tables.

Automatic press synchronisation is provided by means of a magnetic proximity sensor with fully adjustable mounting clamp and 5m cable. Full support for connection to many variants of existing press.

Proven Tectonic International strobe modules provide high quality light-source.



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Technical Information

Monitors, Stores, Verifies, Detects, Alarms, Records, Remembers

Standard features

Advanced Progressive Scan Technology.

Robust Windows NT based operating platform.

Intuitive finger-friendly 15" graphic touch screen interface with 15" monitor for set-up.

19" SVGA monitor installed on the press.

Multiple choice split-screens.

Constant-scan.

Programmable positioning.

Colour monitoring

For consistent colours from roll to roll and throughout the run.

Colour monitoring – with deviations calculated and expressed in a delta E (@E) value:

ROI analysed for RGB, hue, saturation and intensity variance from "golden colour template". Quick-fix button presents "average" settings for quick and easy programming of colour tolerances.

Can check every colour for drift.

External alarm triggered on threshold violation.

Job save

For faster start-up of repeat jobs.

ROI (region of interest) – A quick-touch displays that image.

Image storage on hard disk.

Sequential storage of images.

Upload of images to customer's remote network for off-line management tasks.

Additional job save

Removable 1 GB media card.

Solid state IDE storage.

Optional active inspection features

Automatic bar code verification.

Automatic pharmaceutical code verification.

Automatic print defect detection.

Optional hardware features

Second camera/traverse for inspection of two sides of the web.

Larger viewing areas

Additional strobes for UV, cold seal and metallic substrates/ink.

Register control by back-strobe.

Real-time split-screen for registration control.

Choice of cameras for different requirement. Automatic synchronisation by means of encoders, optical sensor or machine signals.

Choice of monitors.

Multiple monitors.

Keypad or roller ball for operation.



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