

**Celebrating 28 years of service 1986 – 2014**

# **Print Inspection Systems**

**[www.tecscan.co.uk](http://www.tecscan.co.uk)**

**ISO 9001 Accredited Company – Winners of Flexotech Award 2012**



**Web Inspection Products are an essential tool for the manufacture of printed material on high speed webs and provide greater efficiency and quick return.**

**Established in 1986, Tecscan is a pioneer in the specialised advanced field of print vision inspection. Company success has attracted many technical and commercial awards, and quality performance has ensured an extensive customer base world-wide.**

### **Winners of:**

***New Enterprise Award***

***Wales Business Award***

***SMART Award for Innovation***

***Flexotech Environmental Innovation***



***Wales in Europe Award***

***Flexotech Innovation in Printing/Press Finishing***

***ISO9001 Accreditation***

## **PRODUCT OVERVIEW**

### **Series 4 CS1/2/Series 5 CS2**

Ideal for Rotogravure press, label, direct mail, business forms and narrow web printers. The most advanced low cost video web inspection system.

### **Series 5 CS3/CS4**

An excellent choice in passive web inspection for flexo and gravure applications at an affordable price.

### **AVIS-Print Defect Detection**

A highly advanced vision system capable of automatically detecting defects such as streaks, hickeys, registration and colour. Designed and developed for narrow and wide web, gravure and flexo-graphic processes.

### **AVIS/HPQ-Hologram**

### **Inspection System with Print Defect Detection**

This is Tecscan's flagship hologram system. The only defect detection system available designed specifically to inspect embossed hologram production.

### **Board Watcher – 100% Inspection of Corrugated Cardboard Cartons**

Check for missing colour.

Checks for registration colour to colour.

Checks for registration colour to board.

Inspects any size board up to 3 per second, 180 boards per minute.

### **Web Ranger – online length measurement system**

The Web Ranger measures repeat length to an accuracy of 0.01 mm per 1000mm and provides automatic "closed loop" control on repeat lengths of substrates.

## Web Viewing Inspection Systems

### **Series 4 CS1/CS2**

It is the most advanced low cost web video inspection system in the world. The system has high specifications and is a result of TecScan's long standing experience in designing, manufacturing, development and marketing of web video inspection equipment.



- Split Screen [view live image against stored image]
- Label Check [for 100% inspection of the repeat length]
- Constant Scan mode [scans the complete repeat length automatically]
- High quality Sony camera [provides exceptional quality]
- Viewing area 110 mm x 83 mm [larger viewing areas available] Large 160mm [H], 120mm [W], extra large 320mm [H], 240mm [W].
- Compact camera case [will fit any press]
- User Friendly
- Battery back-up
- CE approved.

### **Series 5 CS2**

- Multi Position Storage [with 10 position store/re-call]
- Split Screen [view live image against stored image]
- Label Check [for 100% inspection of the repeat length]
- Viewing Area 130 x 110mm
- Image Flip
- Programmable Wed Edge Detection
- Auto Scan of all stored positions
- 100% repeat Scan
- Stepper Motor
- Twin Strobe Lighting

### **Series 5 CS3/CS4**

It is the most advanced web video inspecting system available on today's market. The system has dedicated hardware, is specified for performance and reliability, with its 30-bit true colour frame store which means 1074 million colours, matched to a state of the art camera producing 460 TV lines resolution and incorporating an incredible 40:1 zoom lens for improved magnification.

- Programmable multi-positional scan
- Variable programmable scan
- High resolution firewire camera
- User friendly touch screen interface
- Constant Scan Mode
- Image Storage
- Labels and packaging scan
- Viewing area 230mm x 185mm
- 9 position make-ready procedure
- TFT monitor
- Battery Backup
- CE approved



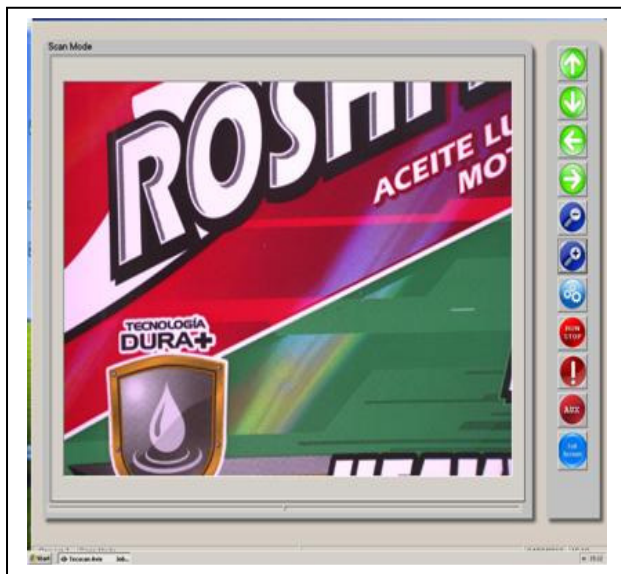
### **Benefits**

**Maximum Press Performance  
Reduce Waste to a minimum  
Constantly Monitor Quality  
Reduce Make Ready Time  
Increase Press Speed**

**The CS4 can be upgraded to include defect detection at a later date**

## AVIS – Print Defect Detection

A highly advanced vision system capable of automatically detecting defects such as streaks, hickeys, registration and colour. The new AVIS system finds application across the sectors of the print industry. Complex software algorithms, extremely high image processing speed ensuring immediate detection of print defects. User friendly interface through touch screen control ensures quick and easy set up.

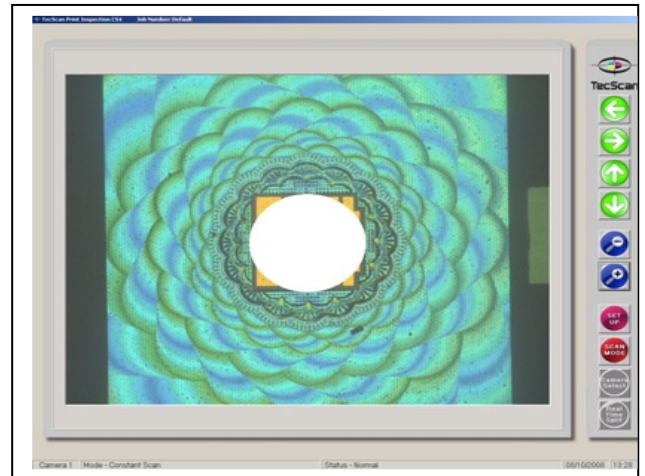


### **AVIS Print Defect Detection**

- Detect Sensitivity Control
- Programmable digital image storage
- Automatic print quality supervision
- Quick set-up, ideal for short runs
- Optional touch screen monitor
- Designed for all web based printing machines
- Advanced digital firewire image
- Dedicated state of the art software
- Area of view 230mm x 185mm [other sizes on application]
- Substantially increases consistency
- Reduce waste to a minimum
- Save material costs
- Substantially increases quality
- Increase speed

## AVIS/HPQ-Hologram Inspection System with Print Defect Detection

This is Tecscan's flagship hologram system. The only defect detection system available designed specifically to inspect embossed hologram production.



## Board Watcher – 100% Inspection of Corrugated Cardboard Cartons

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**Reduce Waste to a Minimum**  
**Constantly Monitor Quality**  
**Reduce make ready Time**  
**Increase Press Speed**

## Cold Seal to Print Registration System

**COLD SEAL** is the special glue applied to the back of flexible packaging after it has been printed, so that the product can then be sealed at the automatic packaging stage. This method is almost exclusively used in the food industry where heat sealing would affect the product, for instance all perishables, chocolate bars, and confectionary products are all cold sealed.

The best solution, developed by Tecscan, is to use a single camera with the cold seal visible and also the print super-imposed in the image using a specialised reverse lighting technique, which gives an almost X-Ray type view of the product at full production speed.

**Tecscan, are the only company able to solve this issue, we have just completed another successful installation in one of the industries largest multi-national groups, and the feedback has been spectacular!**



*For Further Information on any of these products please contact:*

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**Tel: +44 (0) 1443 821552 or  
e:mail: [sales@tecscan.co.uk](mailto:sales@tecscan.co.uk)**

## Options

**The following options are available with the Series 4, 5 and AVIS system:-**

- Backstroke [for see through viewing] motorised or manually operated.
- Specialist lighting for Cold Seal, UV, Security Inks, Metallic Substance
- Motorised Traverse
- Extra Length Traverse
- Larger Area of View
- Additional Monitors
- Remote Keypad
- Second Camera
- TFT Monitor



*Our company success has ensured an extensive customer base world-wide*

**American Banknote,  
China Bank Note  
De La Rue Security, API, Opsec,  
Portals, Saica  
Muller Martini, Rotomec, Orthotec,  
Schiavi Edale, PCMC, CMR, Formall,  
Drent, Imer, Edlon, Mark Andy,  
KPG – Kopack, Henderson, Codimag,  
Eurograv, Flexo Technica, BHS,  
Nilpeter, Chadwicks, Timsons,  
Reel to Reel, Arpeco, Crabtree,  
Form Consulta, Arsoma, Cerruti,  
Xerox, Skanem,  
D S Smith, Smurfit, Rexam,  
International Greetings,  
Avery Dennison, Nimax, Perfec Seal,  
Irish Independent, Harrisons,  
Security Print Solutions**