

# AVIS H/HPQ

Advanced system for the inspection of  
EMBOSSSED HOLOGRAMS

## Passive system

- On-line superb reflective images in full colour or high contrast mono
- Excellent images from hard, soft and clear substrates
- Automatic 100% scanning of the complete repeat length and selected areas
- Remote 10:1 zoom, iris, focus
- Multi-angle illumination control

## Pro-active defect detection system

The system as described above complete with TecScan sophisticated defect detection software.

The system will detect and alarm on:-

- ✓ Missing or damage shims
- ✓ Shim wear
- ✓ Temperature contamination
- ✓ Cleaning marks
- ✓ Reduced reflectivity
- ✓ Smudges
- ✓ Bugs and fingermarks
- ✓ Colour or mono detection

Excel on-line roll map of defects enabling roll Management throughout the production run

## FEATURES

Minimum pay back time

Quick Set-up, ideal for short runs

Touch Screen Monitor

Designed for all web based printing machines

Variable program scan

Multi-position memory with one touch re-call

Defect Image Records

Full bitmap image storage

**Print Defect Detection**



**TecScan**  
print inspection

*Deliver quality, eliminate re-runs, returns and credits.*

*Guarantee Customer Satisfaction by 100% repeat length inspection in minimal time.*



## **BENEFITS**

**Waste to a minimum**  
**Make Ready to a minimum**  
**Press Production time per job**  
**Increase quality control**  
**Operators Involvement**

Tecscan have dedicated years of research into producing inspection systems specifically designed for the inspection of embossed holograms.

These are not modified print inspection systems, these are systems specifically designed and developed for inspection of embossed hologram production.

The industry - leading research undertaken by Tecscan into this specialisation, has resulted in four distinct products designed to provide a solution to aspects of hologram production that create waste and slow down production.

## 1) Series 5 - HOLOGRAM INSPECTION SYSTEM

A low cost vision system designed for viewing embossed holograms during production. A versatile **microprocessor based system** that can be used anywhere in production, embossing, metalising, print, de-metalising or rewinding; to give a clear, bright, full colour live visual image allowing the operator to constantly monitor production for defects, brightness, bugs, loss of image etc. at full production speed.

This system also has the ability to constantly scan the entire repeat.

## 2) AVIS/H [passive hologram system]

Using powerful specifically developed TecScan Hologram software to control the camera, the AVIS/H is a passive system that combines Tecscan's world leading optical technology to provide the worlds best image of hologram production, coupled to our class leading control system.

This **computer based system** has the ability to store images, scan the entire repeat length in many easily controlled ways, and create job files for QC reference.

## 3) AVIS/HM measurement system.

The AVIS/HM adds a powerful second function to the AVIS/H. A second fixed lens high resolution camera allows critical measurements to be taken on live production at full production speed to an accuracy of 0.01mm.

This can be used to measure print to hologram, hologram to edge, hologram to slit marks, shim gap etc. allowing these critical measurements to be made without slowing or stopping the production.

## 4) AVIS/HPQ [hologram inspection system - for on-line holographic DEFECT detection]

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

This is not a modified print defect detection system, the AVIS/HPQ has been developed specifically to inspect and detect defects in embossed holograms.

The features of the AVIS/HPQ include failed image storage, accurate yield calculations, alarm beacon triggered on defect, roll map recording - showing in Excel format exactly where on the roll the defects are located, also a job information sheet giving job times, yield figures etc. to provide first class quality control documents for each job.

As with all our computer based systems, the AVIS/HPQ benefits from the ability to be connected to the internal network allowing remote access, for instance from the production managers office.