

# SERIES 4 CS1/2



**TecScan**  
print inspection

## Features

- **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 picture quality]*
- **Viewing Area 110mm x 83mm**  
*[larger viewing area's available]*  
Large 160mm(H) 120mm (V)  
Extra Large 320mm (H) 240mm (V)
- **Compact Camera Case**  
*[will fit any press]*
- **User Friendly**
- **Battery Back Up**
- **CE Approved**

## Options

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



## REDUCE:

- *Waste to a minimum*
- *Rejected products*
- *Make ready to a minimum*
- *Press production time per job*
- *Operator's involvement*

## BASIC SPECIFICATION

40:1 motorised zoom lens with customised optics

Standard field of view 110mm x 83mm

Camera case dimensions  
CS1: W 110mm, H 220mm, L 200mm  
CS2: W 110mm, H 295mm, L 200mm

Traverse size 500mm-2000mm

Super HAD technology Sony camera

High resolution hardware

1072 million colours

Designed for performance built to last

Manufactured for self installation



# Series 4 CS1/2

## INTRODUCTION

TecScan, the first to pioneer video web inspection in 1986 introduce the **SERIES 4 CS1/2** which is the most advanced low cost video web inspection system available on today's market.

The system is high specification and is a result of Tecscan's long standing experience in design, manufacture, development and marketing of video web inspection equipment.

The dedicated hardware is specified for performance and reliability, with it's 30-bit true colour frame store which means 1072 million colours, matched to a state of the art SONY camera producing 460 TV lines resolution and incorporating an incredible 40:1 zoom lens for improved magnification. The system includes features such as split screen and incorporates a Label/Check facility which is unique to our systems enabling automatic 100% repeat length monitoring.

## OPERATION

On power up the system is synchronised to the repeat length by entering the print cylinder gear tooth number.

The image size can be adjusted with the zoom keys. The image can be moved around the repeat length with the up or down Vertical arrow keys, movement across the web is manual with the **CS1** and motorised with the **CS2**.

### A special feature of the Tecscan system is **Label checking**.

Label Checking means that each label can be inspected automatically around the repeat length. The gear setting is divided up into how many labels per repeat length, thereby inspecting every label within the repeat length, this is called constant scan. This can refer to packages when the CS2 is used on flexible wide web applications.

These features can be useful on forms when optimising registration fit between form around the repeat length.

Split screen is standard on all Tecscan systems where half an image can be stored at the beginning of a production run so the colour of the product can be monitored throughout the production run. Number of half images that can be stored is 2.

## CAMERA

Sony image sensor single chip	
Super HAD technology	1/4" type CCD
Picture elements	752[H] x 582 [V]
Supply voltage	12 volts
Power Consumption	2.4 Watts
Signal to noise	More than 50 dB
Min. Sensitivity	4 lux. lx [f1.8]
Hor. Resolution	460 TVL
Operating Temperature	0 to 50C [32 – 122F]
Storage Temperature	-20 to +60C [-4 – 140F]
Mass	100g
Battery Backup	6 months

## LENS

Zoom Range	40:1
Close up lens [dioptré]	+5
Zoom, aperture and focus functions are motorised and controlled from the key pad	
Focus is tracked through the zoom range	
Image size at maximum angle	105mm [4.13"]H
Larger Area of view for wider webs 4X	
Minimum angle	2.65mm [0.104"]

## CONNECTIONS

All connections are plug and socket  
Camera enclosure to control unit is through a 20mm armoured conduit and terminated with an industrial robust plug.

## STROBE ILLUMINATION

Strobe xenon	1
Energy per flash	1.8 joules
Microprocessor control	
Strobe life average	3 years

## FRAMESTORE

Dedicated discrete hardware  
Full frame, resolution 16.7 million colours  
Microprocessor controlled

## CONTROL UNIT

Micro computer CPU. strobe power supply, membrane key pad  
DC traverse motor power supply and controller housed in heavy duty steel enclosure

## CAMERA TRAVERSE

Manual movement across the web by hand (CS1)  
CS2 motorised by DC geared motor incorporated within the camera enclosure  
Movement controlled from key pad, automatic movement when in constant scan  
Traverse speed 75mm [3"] per second

## SYNCHRONISING TO THE PRESS

By special sensor ensuring continuous tracking even under start and stop jogging mode. \* *Tecscan feature.*