

Dynamic Convergence Adjustment System

会聚调整系统

VS-5130-DCON

Outline

The Dynamic Convergence Adjustment System is specially designed to adjust 25 points of convergence of CRT by using one 3CCD color camera.

This PC-based, semi-automated system makes use of a DY Title alignment support program to guide the operator to tilt the DY & make a magnetic correction until the R, G and B color converge on the full screen.

Features

1. "State Of The Art Technology"

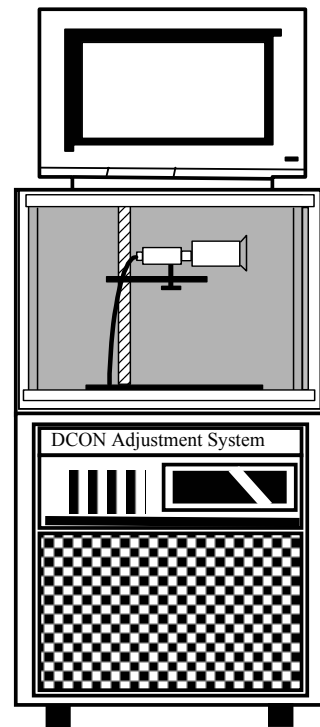
- ♣ Employs 16 bits, 500 MHz DSP coupled with Plug & Plug configuration
- ♣ New diamond shape video pattern improve measurement accuracy

2. "High Reliability"

- ♣ Compact & integrated design improve system reliability
- ♣ Industrial PC suitable for use in harsh production environment

3. "High Usability"

- ♣ User friendly and easy operation under Windows Graphical User Interface
- ♣ Versatile & flexible design can accommodate 14"~36" TV
- ♣ Open concept design allows future upgrading to other TV measurement
- ♣ Easy calibration by using a test-chart
- ♣ Easy model change

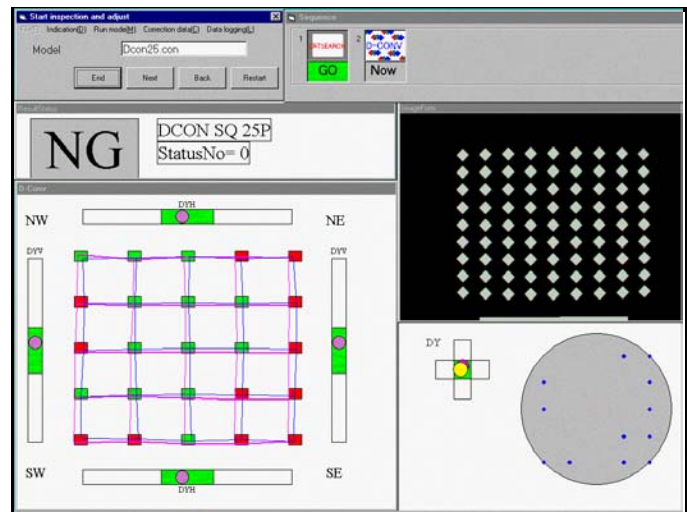


4. "Cost Effective"

- ♣ Minimum maintenance required for minimum post investment cost

Functions

- ♣ Measurement the convergence between R-G, B-G and R-B by means of central colour gravity measurement
- ♣ Graphical indication of RBX and RBY misconvergence for easy adjustment
- ♣ Indicate the best DY Tilt position and 25 points of Convergence;
- ♣ Data collection & analysis(Optional)

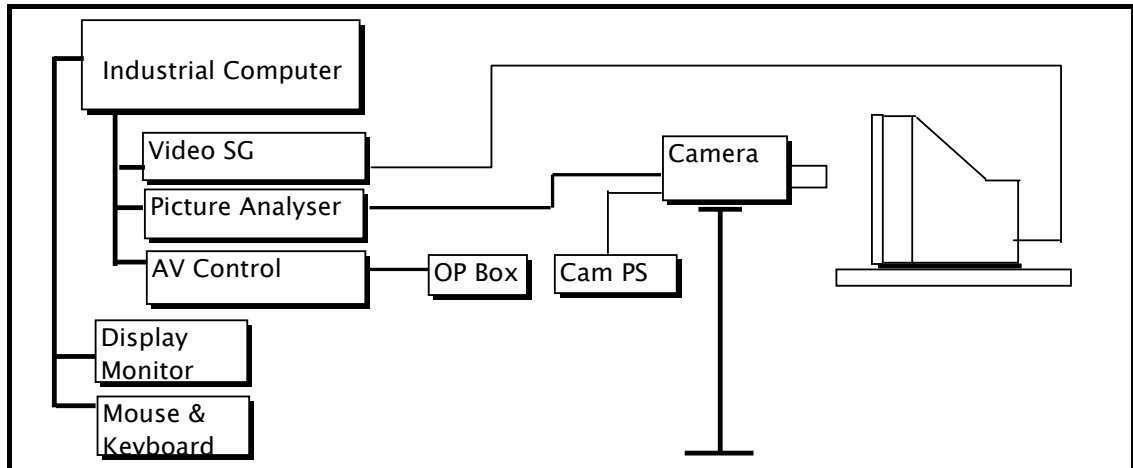


Technical Specification

1. General Specification

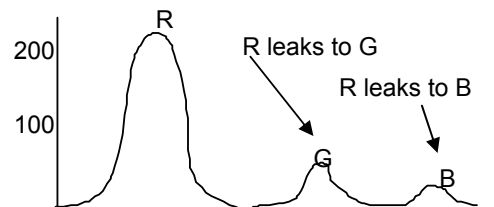
System Components		AV Control Module(DIO, IIC Control)
Industrial Computer (PentiumIV 933MHz or more)		Operator Control Box
3-CCD Camera (640x480x3) System		Video Signal Generator Module
Picture Analyser Module(16 bits DSP, 500MHz)		
DUT		Calibration
CRT Size	14" ~ 36"	CC-110
Aspect Ratio	Normal & Wide Screen	Manual
Video Mode	PAL,NTSC, 100Hz, 120Hz, HDTV	Operation and Maintenance
Measurement		Software
Resolution	0.01 mm	Static Convergence Adjustment Software
Accuracy	$\pm 100 \mu\text{m}$	(incl. Calibration software)
Power Supply		Measurement Condition File Editor
230 VAC, 50 Hz		(incl Test Spec. Entry)
Measurement Items		Production Data Collection & Analysis
RGx, RGy, BGx, BGy, RBx, RBy		Software (Optional)
XH, XV, YH, YV		

2. System Configuration



3. Color matrix correction

The color leakage between RGB colors due to camera/lens characteristics is compensated through the color matrix data. This method yields improvement of colour separation characteristics and more accurate convergence measurements



For future information, please contact:

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