D1612
Auto Sizing
Controller

D1612 X₁ X₂ X₃

Customer
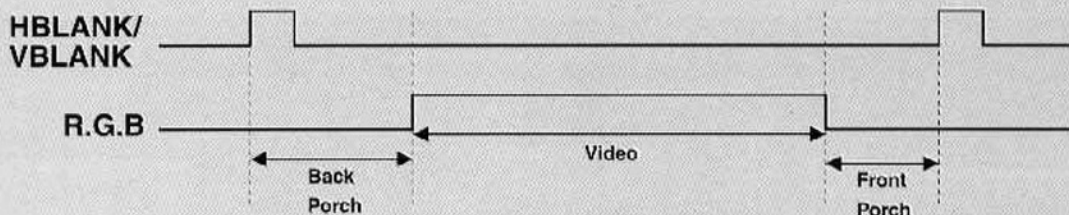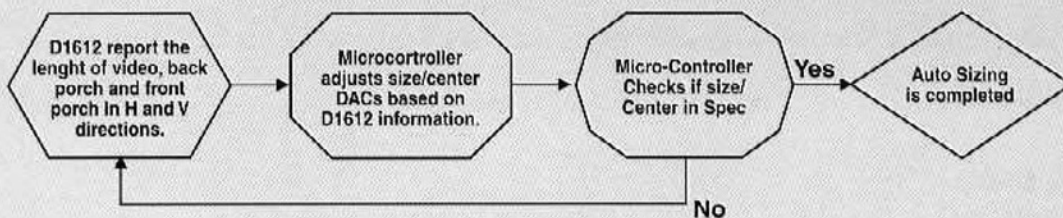
Package Type

D : 14pin DIP

Display monitor auto sizing is now possible with D1612 Auto Sizing Controller. It is a great user convenience when the customer changes timing or graphics cards. D1612 senses horizontal and vertical flyback and the video information, and calculates front and back porches. This information can be transmitted to a microcontroller, who can then change the horizontal phase and vertical center to keep the picture centered. Ratio of porches to active video gives size information, the microcontroller can adjust size to optimal point this way. 12-bit resolution ensures excellent stability and reliability. Automatic sizing without visual alignment is a great advancement in display ergonomics.

Auto sizing is a powerful feature for display customers, where timing or video hardware change does not require display readjustment. It is also good for the display manufacturer, because automatic alignment time is significantly reduced. D1612 comes in a cost saving 14-pin DIP package. Application notes and engineering assistance is available from the leader in innovative display technology: DynaColor.

The Information D1612 Transmitted to Microcontroller

Operating Flow Chart of Auto-Sizing

DYNACOLOR

D1612 Pin Assignment & Description

Pin No.	Pin Name	Descriptions	I/O	Characteristics
1	NC			
2	HSYNC	HSYNC input pin	Input	Schmitt Trigger "H":1.8 "L":1.2
3	TEST	Connect to GND		
4	VSYNC	VSYNC input pin	Input	Schmitt Trigger "H":1.2 "L":0.8
5	DATA	Serial data pin	I/O	Schmitt Trigger "H":3.2 "L":1.0
6	DCLK	Serial clock input pin	Input	Schmitt Trigger "H":3.2 "L":1.0
7	GND	Ground Pin		
8	CLKI	12MHz clock input pin		
9	BI	Blue video input pin	Input	H:V>3.0 L:V<=3.0
10	GI	Green vide o input pin	Input	H:V>3.0 L:V<=3.0
11	RI	Red video input pin	Input	H:V>3.0 L:V<=3.0
12	NC			
13	RESJ	Reset Pin	Input	
14	DVDD	Power supply pin		

Application Diagram

Developed and Manufactured by: _____   Represented by: _____

Worldwide Distribution and Service Network _____