

LCM Tester

MODEL 27013

Key Features:

- LVDS Signals support
 - 1 / 2 / 4 Channel output
 - Color depth 6 / 8 / 10bits
 - 2 output port
 - Pixel rate up to 330MHz (1 Link 135MHz / 2 Link 270MHz / 4 Link 330MHz)
- The Resolution up to 2560x1600
- 30 sets Timing / Power / Program selection
- 64 sets Pattern
- Vdd output 3.3~13V / 3.5A programmable
- Vbl Internal / External Support
- DC Power protection OCP
- EDID Read / Write / Compare
- 10 sets EDID data store
- Auto / Manual Pattern switch
- Auto Pattern switch delay time setting
- Power on sequence for signal / Vdd / Vbl
- RGB Signal reverse Hot Key
- Control by RS232



LCM TESTER MODEL 27013

Chroma 27013 is a portable tester that supports high resolution and large scale LCM with the signals, power supply and test patterns required for LCD Module test.

Users can edit various timing parameters and patterns on PC via software applications. Auto execution or one-key manual control on the device can switch the Timing / Pattern / Program mode rapidly. The easy and convenient operation along with compound key usage made the 27013 LCM Tester most applicable for R&D / Quality Assurance / Quality Verification/ Services / Sales areas for LCM related tests.

27013 LCM Tester contains the following features:

1. Comply with Full HD 120Hz Test

27013 LCM Tester has LVDS signals with dot frequency 330MHz (1 Link 135MHz / 2 Link 270MHz / 4 Link 330MHz) that can test the screen resolution up to 2560x1600 pixels to meet the test requirements for standard test signal of various panels today and Full HD 120Hz (Double frame rate.)

2. Providing, Measuring & Determining Output Power

The system provides 3.3~13V / 3.5A VDD output and 12V, 24V / 4A VBL output power for users to set auto test by LCM's electrical features. Each output channel is able to simulate the timing relationship of power on / off and over voltage protection function. Protection occurs when the power parameter exceeds the predefined range.

3. Complete Test Patterns

The large capacity of memory provides 30 Timings / 64 Patterns with many built-in standard test patterns. 27013 LCM Tester not only can generate

the patterns of 10Bit grayscale, pure color, stripes, text and cross.

4. Separate RGB Signal Control

The panel of 27013 LCM Tester has several rapid one-key operation modes which include: R, G, B & Inversion signal separation and resume - it can separate or resume one of the RGB signals in the display screen ; while the Inversion reverses the pattern display on the screen.

Timing / Pattern / Program / Power mode - users can create the test program specially for UUT by the PC software application and conduct one-key operation from the panel directly.

The VDD rapid key is able to switch the built-in 3 fixed voltage settings 3.3V / 5V / 12V directly to meet the power output conditions for most LCM tests rapidly.

5. RS232 Interface for Data Upload/ Download

27013 LCM Tester with PG MASTER software can edit the test programs and upload/download edited data through the RS-232 interface data control box. Users can update test programs on different testers via the data control box directly without controlling by PC to save the time effectively.

Chroma 27013 carried complete test functions with highly accurate signals and power source. It adopts 20 x 4 LCD screen in compact size with friendly user interface, and its small-scale design can be used flexibly on various tests to satisfy the work unit that needs to move often. The powerful function and fast test speed make it the best tool for production test.



Chroma

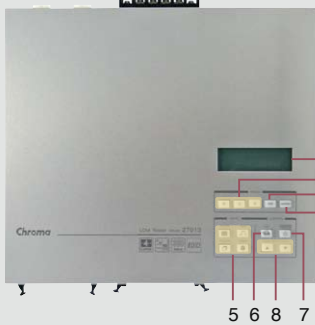
PANEL DESCRIPTIONS

Rear View



1. LCD Display
2. Red/Green/Blue Color on/off
3. RGB Inversion
4. Signal/Power on/off switch
5. Timing/Pattern/Program/Power select
6. EDID Function
7. System Power on/off

Top View



Side View

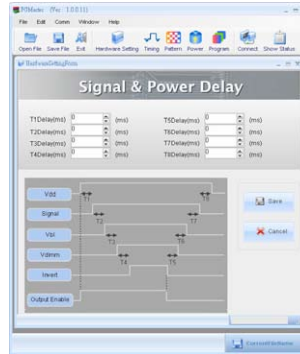


8. Up/Down select
9. LVDS Channel 3-4 output
10. LVDS Channel 1-2 output
11. Data Download
12. AC Power Input
13. VBL Input
14. VBL Output

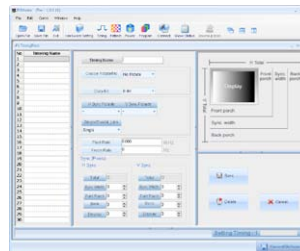
Front View



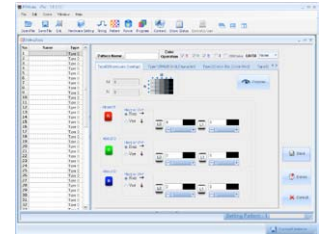
PG MASTER SOFTWARE



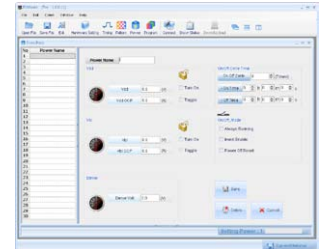
Hardware Setting



Timing Setting



Pattern Setting



Power Setting

SPECIFICATIONS

Model	27013		
Output	LVDS		
Option	DataBank (A270123)		
LVDS interface			
Resolution	Up to 2560x1600 / 60Hz , 1920X1080 / 120Hz		
Pixel Rate	1 link up to 135MHz / 2 link up to 270MHz / 4 link up to 330MHz		
Color Deep	6/8/10bits Programmable (10bit for gray scale)		
Output mode	2 Channel x2 / 4 Channel x1		
Connector	Box Header 50Pin		
Power Requirement			
Input (AC)	90~264 Vac		
Output (DC)	Vdd : 3.3V~13V, 3.5A programmable Vbl : Internal 12V / 24V 4A Max External 25V / 26A Max		
Vdim	0V~7V Step 0.1V		
Inverter Voltage	On: 5V , Off: 0V		
Power Sequence Resolution			
	Vdd	Signal	Vbl
Turn-on	1ms	1ms	1ms
Turen-off	1ms	1ms	1ms
Operation			
Pattern Control	64 sets auto/manual (30 sets by editing)		
Timing Control	30 sets by editing		
Program Control	30 sets by editing		
EDID Application			
EDID 1	Read / Write / Compare		
EDID 2	Read / Write / Compare		
EEDID	Read / Write / Compare		
EDID store	10 sets EDID Data store		
Environment			
Operation Temperature	0~40°C		
Storage Temperature	-20~70°C		
Humidity	0~80%		
Dimension (H x W x D)	69 x 309.3 x 271.5 mm / 2.74 x 12.18 x 10.69 inch		
Weight	2.9 kg / 6.39 lbs		

* All specifications are subject to change without notice. Please visit our website for the most up to date specifications.

Developed and Manufactured by :

CHROMA ATE INC.

致茂電子股份有限公司

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