

产品特点

- HDMI 1.3b (3 个端口)
- HDCP
- V-Chip
- Closed Caption (NTSC Only)
- Analog 影像像素可达 250MHz
- DVI-I 数位输出可达 165MHz
- 1920 X 1080 (BMP) 的图形
- NTSC, PAL, SECAM 和 S-Video 输出
- SCART, D-Connector (D1~D5)
- D-TV(TV) 信号输出
- Audio R, L 输出
- 内含 500 个 Timing 格式
- 超大记忆空间: 300 个 timing, 200 个 Pattern, 100 个 Function Group, 100 个 Scan Group
- 所有 Timing 参数都是可编辑的
- 简单而有多样的 Pattern 编写功能
- 4096 X 2048 的图像显示尺寸
- USB 及 RS-232C 通讯的连接
- 4096 X 2048 的图像显示尺寸
- Pattern, Timing, Scan, Function 及系统文件的下载管理



产品描述

K-8267R 型信号发生器支持 Analog/DVI/Display Port/YC/CVBS/YPbPr/Scart/HDTV/HDMI 信号的输出。它支持标准信号格式并可广泛应用于全球 LCD TV & Monitor, PDP TV 及投影机领域的多媒体显示测试。Analog RGB (8MHz ~ 250MHz) 信号输出支持最大 4096 X 2048 的图像显示尺寸。Digital (Single: 25MHz ~ 165MHz, Dual: 25MHz ~ 260MHz) 信号输出达到超高扩展型图形阵列及更高。HDMI (高清晰度多媒体接口) 是一个接口标准, 用于视听设备, 如高清晰度电视和家庭影院系。K-8267R 支持 HDMI V1.3b 功能, 在单条传输线上可以完成高清视频影像的传送及支持多声道的音频。除此以外, K-8267R 通过 3 个端口可以支持 CEC 测试功能, Deep color 及 7.1CH 数字音频。K-8267R 的 HDMI 及 DVI 端口都支持高带宽数字内容保护 (HDCP)。

K-8267R 支持 Teletext, Closed Caption 及 V-Chip 功能。Teletext 是图文电视的统称, 用户可以在视频显示器上接收数据的一种单向信息业务。Closed Caption 和 V-Chip 是用于 NTSC 系统。Closed Caption 是隐藏性字幕, 在电视信号的音频部分同时叠加一节目说明信号, 并显示在电视屏幕上, 主要为聋人和听力有障碍的人开发。V-Chip 是安装于电视机中的电脑芯片, 使用户可以控制某些特定内容的播放, 如色情、暴力、犯罪等。

如今越来越上升的多媒体显示市场, 产品的竞争力及品质无疑变得越来越重要, 客户总想以更合理的价格购买到更高质量的产品。在这样的环境下, 配备多端口及高效测试品质的 K-8267R 无疑是研发与生产部门的不二选择。

FEATURES

- HDMI V1.3b (3 Output Ports)
- HDCP, HDMI
- TELETEXT(PAL Only)
- V-Chip
- Closed Caption(NTSC Only)
- 250MHz Analog Video Pixel rate
- DVI-I 165MHz Digital Output
- Graphic 1920X1080 (BMP)
- NTSC, PAL, SECAM Composite and S-Video Output
- SCART, D-CONNECTOR(D5)
- D-TV(TV) Signal Output
- Audio R, L Output
- Built-in 500 Timing Formats
- Large Custom Memory: 300 Timing, 200 Pattern, 100 Function Group, 100 Scan Group 4096X2048 Graphic Display Size
- All timing parameters are fully programmable
- Power saving mode test
- Easy and variable pattern edit function
- USB, RS-232C interface for PC Edit: Pattern, Timing, Scan, Function, System program download
- ESD protection circuit
- PIP: Analog & TV Signal output at the same time

K-8267R(Read type) Programmable Video Signal Generator supports Analog/DVI/SDTV/HDTV/HDMI signal output. It has standard video regulation and fits into the multimedia display application for LCD TV & Monitor, PDP TV, projector industries all over the world. The Analog RGB (8MHz~250MHz) output is possible to support graphic display up to 4096 x 2048. Digital output (Single link: 25MHz~165MHz, Dual link: 25~260MHz) is up to UXGA and higher. As to the specification of TV output, the image and chrominance of K-8267R meets the NTSC and PAL standards. For output interface, the BNC connector provides CVBS composite signal and the S-Video connector provides Y/C signal. HDMI (High-Definition Multimedia Interface) is a digital connection standard designed to provide the highest possible uncompressed video and audio quality over a thin, easy-to-use with a simple, consumer-friendly connector. K-8267R supports standard HDMI V1.3b function for high definition video image transmission and multi-channel digital audio on a single cable. Out of HDMI V1.3b key features, K-8267R provides CEC test function, Deep color and 7.1CH digital audio through 3 output ports. HDCP (High-bandwidth Digital Content Protection) is a specification to protect digital entertainment content across the HDMI and DVI interfaces.

K-8267R has Teletext function, Closed caption and V-chip. Teletext is generic name for a system of information broadcast as pages of text alongside the television signal for PAL systems. The Closed caption and V-chip functions are for the NTSC systems. Closed captions are captions that are hidden in the video signal. The V-chip is a standard for placing program rating information on a television program. So that parents can choose to filter what program their children can watch. According to rising market of multimedia display, the competition and demand for product quality are getting more and more severe as consumers often request and search for higher pixels with less bad dots as well as low cost video display products before purchasing.

Under this circumstance, K-8267R Programmable Video Signal Generator which is equipped with high resolution test quality and multi-output can meet the multimedia display applications and it is indispensable testing equipment for the R&D engineers and production manufacturers.

Specifications

ANALOG OUTPUT	
Display Size	4096X2048
Pixel Rate Range	8MHz~250MHz / Error of less than 25ppm
Video Level	R, G, B (75 ohms) 0~1023mV programmable / 1 mV step
Sync on Green	0.3V/Fix On/Off Support
Black Level	7.5 IRE / 0 IRE programmable
Output connector	BNC, D-Sub 15-pin, DVI-I Analog
Rise / fall time	Less than 3ns (maximum)
Protection	buffered by 75-ohm isolation
HORIZONTAL TIMING	
Total Pixels	100~8192 pixels resolution / 1 pixel resolution
VERTICAL TIMING	
Total Lines	100~4096 lines (non-interlace)
	100~2048 lines (interlace) / 1 line resolution
SEPARATE SYNC	
HS, VS, CS, TTL Level (4.5V)	
DVI(TMDs) OUTPUT	
Pixel Rate Range	Single link : 25MHz~165MHz, Dual link : 25MHz~260MHz or TTL 10Bit (Option)
EDID	Read / Compare
HDCP	Support HDCP V1.0
Compliant	DVI V1.0
Video Signal Type	RGB
Sampling Mode	4:4:4
Output Connector	DVI-I

TV FORMAT					
Output Mode	NTSC M, J	NTSC 443	PAL B,D,G,H,I	SECAM	
Subcarrier Frequency	3.579545	4.433618	4.433618	For=4.40625	MHz
				Fob=4.25	
Subcarrier Stability	±5				Hz
Video Output	Composite (BNC), S-Video				
	Signal : CVBS		Connector	BNC	
	Signal : Y/C		Connector	4-pin mini DIN	
	Burst On/Off (NTSC, PAL)				
Closed Caption (NTSC)	C1, C2, C3, C4 / T1, T2, T3, T4				
V-Chip	MPAA Rating : G, PG, PG-13, R, NC-17, X				
	FCC Rating : TV-Y, TV-Y7, TV-G, TV-PG, TV-14, TV-MA				
Teletext support (PAL)	Teletext System B Level 1, 1.5				

D-TV FORMAT					
Signal	Y, Pb, Pr		Connector	BNC	
Format	480P, 720P, 1080i, 1080P				
Timing	Progressive Mode Frame Rate (Hz)		Interlace Mode Frame Rate (Hz)		Standard
1920X1080	60P	60	60i	30	SMPTE 274M
	59.94P	60/1.001	59.94i	30/1.001	SMPTE 274M
	50P	50	50i	25	SMPTE 274M
	30P	30			SMPTE 274M
	29.97P	30/1.001			SMPTE 274M
	25P	25			SMPTE 274M
	24P	24			SMPTE 274M
	23.98P	24/1.001			SMPTE 274M
1280X720	60P	60			SMPTE 296M
	59.94P	60/1.001			SMPTE 296M
	50P	50			SMPTE 296M

HDMI(TMDs) VIDEO OUTPUT	
Compliant	HDMI V1.3b
Pixel Rate Range	25MHz~165MHz (1080p)
Support HDMI Timing	59 Timing (CEA-861D)
Video Signal Type	RGB or YCbCr
Sampling Mode	4:4:4 / 4:2:2
Bits per Component	8, 10, 12
Color Space	RGB / ITU-R BT. 601 / ITU-R BT.709
HDCP	Support HDCP V1.1
EDID	Read / Compare

HDMI AUDIO OUTPUT	
Sample Rate	32.0, 44.1, 48, 88.2, 96, 176.4, 192 KHz
Number of Channel	7.1 Channel
Bits per Sample	24
Frequency Range	20Hz to 20KHz
Frequency Resolution	1Hz / Step
Level Range	-9.5dBm ~ +9.5dBm (0.5dBm step adjustable)
External Audio Input	Optical
Special Control Mode	Fix / Sweep / Mute / Swap / Optical / Speaker Allocation

AUDIO (ANALOG) OUTPUT	
Frequency Range	20Hz to 20KHz / 1Hz step
Waveform	Sine wave
Number of Channel	2 Channel (R/L)
Level Range	-9.5dBm ~ +9.5dBm (0.5dBm step adjustable) -3.5dBm (shipment setting)
Connector	RCA
Special Control Mode	Fix / Sweep / Mute / Swap

SCART OUTPUT	
Signal	CVBS, Audio, Video(R,G,B), Y/C, Y, Pb, Pr
Connector	SCART

SCAN GROUP		
Storage	100 group (1 group ; 40 step)	Edit : Front panel, PC

FUNCTION GROUP		
Storage	100 group (1 group ; 40 step)	Edit : Front panel, PC

DATA STORAGE DEVICE		
Timing	500 Timings ; Storage : 300	Edit : Front panel, PC
Pattern	400 Patterns ; Storage : 200	Edit : Front panel, PC
Compact Memory Card	Unlimited data storage(128MB)	Read / Write

OTHERS	
AC Input	90 ~ 260 V auto range / 50 ~ 60 Hz auto range
Operation/Storage Temp.	+5~+40 deg.C / -20~+60 deg.C

DIMENSION / WEIGHT	
H X W X D / Weight	87 X 430 X 340(mm) / 8 Kgs

* All specifications are subject to change without any notice.