



MSPG-2033M

Video Signal Generator



FEATURES

- 아날로그 신호, 디지털 신호, TV 신호(S-Video 포함) 및 DTV 신호와 고해상도의 디지털 콘텐츠를 보호하기 위한(HDCP) 기능을 지원하는 장치로 대형 디스플레이 장치[해상도:WUXGA]까지도 충분히 검토할 수 있는 CRT, LCD, PDP, TV, D-TV 디스플레이 장치 산업의 핵심 검사장비입니다.
- MSPG-2033 Series는 D-TV(NTSC, PAL)를 위한 다중방송기술인 Teletext, Closed Caption 기능 및 폭력 프로그램과 같은 미리 규정된 등급의 프로그램을 차단하는 V-Chip(Violence Chip)기능을 기본적으로 지원합니다.
- Analog was a main item in display device industries at the past time, but from now on, the digital is getting developed with multi-function and large-sized resolution. Preparing for this change, this signal generator is an essential equipment of CRT, LCD, PDP, TV, D-TV display device industries, which was made for generating analog signal, digital signal, and TV signal, D-TV signal, HDCP Code simultaneously and sufficiently examining a large-sized display device. [Resolution:WUXGA]
- MSPG-2033 Series are basically supporting the Teletext and Closed Caption as multi broadcast for the D-TV(NTSC, PAL), as well as V-Chip(Violence Chip) function to block the violence and sex etc. bad program to protect a person under age through the regulation grade.

SPECIFICATION

Multi Video Signal Generator

- 250MHz Pixel Frequency for Analog Display Device
- 330MHz Pixel Frequency for Digital Display Device
 - DVI Single Link 165MHz
 - DVI Dual Link 330MHz
 - HDCP(Single, Dual) Support
- HDMI function execution : HDMI1.1 Version
 - RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2
 - YCbCr 4:2:2 MODE 8BIT, 10BIT, 12BIT Support
- Support D-Terminal for Japanese D-TV
 - D5 Connector
- Possible to PIP (TV,D-TV&PC (Analog/Digital)&HDMI)
- 4096x4096 Graphic Display Size
- 2048x2048 Bitmap Image Size
- Variable 8-16 bit LVDS Mode Support
- Fully Programmable
- High Capacity Memory 999Timing, 999Pattern
- CF Memory Storage (512Mbyte)
- USB, RS-232C Interface PC Edit
- Possible to Firm-Ware Via PC
- Support PC Edit Tool (Pattern & Timing)
- YPbPr output : 1080i/p,720P,480i/p etc.. ATSC&DVB Formats
- CVBS output (NTSC / PAL / SECAM)
- S-Video Output (Y,C)
- SCART 21PIN (European TV Connector), 2 Output

- ▶ Audio
 - R,L : Sine Wave & Swap & Sweep Mode
 - S / PDIF Input : Coaxial, Toslink
 - S / PDIF Output : Toslink
 - Variable Audio Level & Frequency
- ▶ Teletext (PAL Only)
- ▶ V-Chip
- ▶ Closed caption (NTSC Only)
- ▶ Dimension and Weight : 440mm(W) x 332mm(D) x 126mm(H) / 6.5kg

ANALOG OUTPUT					
Display Size	4096 X 4096				
Pixel Clock	8~250Mhz				
Video Level	R,G,B (load 75ohms) 0~1.0V Programmable				
Output connector	BNC, 15P D-Sub, DVI-I				
EDID	Read				
HORIZONTAL FREQUENCY					
Frequency	10~200Khz / 1dot resolution				
VERTICAL FREQUENCY					
Frequency	10~200Hz / 1line resolution				
SEPARATE SYNC					
HS, VS (3.0V~5.5Vp-p Programmable / inherited sync level is 4.8Vp-p)					
DVI(TMDS) OUTPUT					
Pixel Clock	Single Link : 25~165Mhz, Dual Link : 25~330Mhz				
EDID	Read				
HDCP	Support HDCP 1.0 Ver / Support Single & Dual				
Compliant	Support HDCP 1.0 Ver / Support Single & Dual				
Video Signal Type	DVI 1.0 Support				
Output Connector	DVI-I				
LVDS Mode	Support 8~16bit				
TV FORMAT					
Output Mode	NTSC M, J	NTSC443	PAL B, D, G, H, I	SECAM	
Subcarrier Frequency	3.58	4.4	4.434	For=4.406	MHz
				For=4.25	
Subcarrier Stability	25ppm(±25hz/1Mhz)				Hz
Video Output	Composite(BNC), S-video				
	Single:CVBS	Connector		BNC	
	Single: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			
Single	Y, Pb,Pr	Connector	BNC
Time	480i/p, 576i/p, 720p, 1080i/p for ATSC and DVB Format)		
*Possible to Timing Parameter Edit			
*Support D Terminal for Japanese D-TV(Adjustable to 16:9, 4:3 aspect ratio)			
4:3 aspect ratio			
SCART OUTPUT			
Signal Mode	RF input mode, CVBS mode, RGB mode, Y/C Mode		
Connector	SCART 21Pin		
SCAN Group			
Storge	99Group(1Group:24step)		
FUNCTION GROUP			
Storge	99Group(1Group:32step)		
HDMI(TMDS)VIDEO OUTPUT			
Compliant	HDMI 1.2a Ver (CEC Support)		
Pixel Rate Range	25~165Mhz		
STANDARD SPEC	EIA/CEA-861D		
Video Signal Type	RGB, YCbCr		
Pixel Encoding	RGB 444, YCbCr 444, YCbCr 422		
Data bit of YCbCr 444	8, 10, 12(YCbCr 4:2:2)		
Color Space	RGB, BT-601, BT-709		
HDCP	Support HDCP 1.1 Ver		
EDID	Read		
Output Connector	Type A, HDMI 1PORT		
HDMI AUDIO OUTPUT			
Sample Rate	32, 44.1, 48, 88.2, 96, 176.4, 192Khz		
Number of Channel	2 Channels		
Bit per Sample	24		
Waveform	Sine wave		
Frequency Range	20Hz to 20Khz / 5Hz step		
Level Range	0mV to 2.0V / 100mV step		
External Audio Input	S/PDIF, Optical		

Special Control Mode	Fix / Sweep / Swap / Optical / Mute
AUDIO (ANALOG) OUTPUT	
Frequency Range	20Hz to 20Khz / 5Hz step
Level Range	0mV to 2.0V / 100mV step
Waveform	Sine wave
Number of Channel	2 Channels
Connector	RCA
Special Control Mode	Fix / Sweep / Swap / Mute
DATA STORAGE DEVICE	
Timing	999 Timing (User:1~500, Default:501~999)
Pattern	999 Timing (User:1~500, Default:501~999)
Compact Memory Card	512MB
GENERAL SPECIFICATION	
AC Input	AC 100~240VAC, 50/60Hz Auto Switch
Operation/Storage Temp.	0 ~ 40℃ / 80%Humidity
DIMENSION / WEIGHT	
H x W x D / Weight	440mm(W) x 355mm(D) x 145mm(H) / 6Kg
OTHERS	
Max Image	2048 X 2048 Bit Map Image Size
User Interface	Front Panel (6.4inch, 65,000Color LCD) Key Pad, USB, RS-232C, PC EDIT Tool
*All spwcifications are subject to change without any notice.	

USAGE

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