MSPG-4233MT
Video Signal Generator with Media Player

◉ IMAGE

◉ DEFINITION

- 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.

- MSPG-4233MT is 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

H/V Frequency	Horizontal	10~300KHz / 1 Dot Resolution
	Vertical	10~300Hz / 1 Line Resolution
Analog Output	Display Size	4096 X 4096
	Pixel Clock	8~330MHz
	Video Level	R, G, B (Load 75 ohms, 0~1.0V Programmable)
	Output Connector	15P D-Sub, DVI-I
	EDID	Read
	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
	Transfer Type	* Single TMDS 24 Bit Input Mode / * Dual TMDS 12 Bit Input Mode
	EDID	Read
	HDCP	Support Single & Dual
	Compliant	DVI 1.0 Support
	Video Signal Type	RGB
	Output Connector	DVI-I (DVI 2 Ports, Single/Dual)
	Data Bit	8~16 Bit
D-TV Output	Signal	Y, Pb, Pr
	Connector	BNC, D5
	Time	480i/p, 576i/p, 720p, 1080i/p for ATSC and DVB Format
	Note	Support D Terminal for Japanese D-TV
		(Adjustable to 16:9, 4:3 aspect ratio)

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CVBS Output	Output Mode	* NTSC M,J (3.58MHz)
		* NTSC443 (4.4MHz)
		* PAL B,D,G,H,I (4.434MHz)
		* SECAM (For=4.406MHz / For=4.25MHz)
	Subcarrier Stability	25ppm (±25Hz / 1MHz)
	Video Output	Composite(BNC), S-Video
		* Signal : CVBS (Connector : BNC)
		* Signal : Y/C (Connector : 4Pin-Mini Din)
	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 (PAL)	Teletext System B Level 1, 1.5
HDMI (TMDS) Video Output	Compliant	HDMI 1.3 Version (CEC Support)
	Pixel Rate Range	25~165MHz (TMDS Clock : 25~225MHz)
	Standard Spec	EIA/CEA-861D
	Video Signal Type	RGB, YCbCr
	Pixel Encoding	RGB444, YCbCr444, YCbCr422
	Data bit of RGB & YCbCr	8, 10, 12
	Color Space	RGB, BT-601, BT-709, xvYCC-601, xvYCC-709
	HDCP	Support HDCP 1.1 Version
	EDID	Read
	Output Connector	Type A, HDMI 3 Port
	Note	Support Deep Color & xvYCC
HDMI Audio	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)	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
Media Player	CVBS	NTSC, PAL
	D-TV (YPbPr)	480i/p, 576i/p, 720p, 1080i/p
	Analog	15P D-SUB
	HDMI	1.2 Version (CEC Support)
	Video Format	MPG, AVI, WMV, ASF, TP, VOB, MP4, TRP
	Audio Format	MP3, WMA, AAC, PCM, AC3, WAV, BSAC, WMAPRO
	Image Format	JPEG, BMP, PNG, GIF
	Storage Capacity	2.5"HDD (80GB)
	Connector	D5, CVBS(BNC), D-TV, ANALOG, HDMI, S-VIDEO

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Scart Output	Signal Mode	RF Input Mode, CVBS Mode, RGB Mode, Y/C Mode
	Connector	SCART 21Pin
Scan & Function Group	Scan Storage	99 Group (1 Group ; 24 Step)
	Function Storage	99 Group (1 Group ; 32 Step)
Data Storage Device	Timing	999 Timing (User:1~500, Default:501~999)
	Pattern	999 Pattern (User:1~500, Default:501~999)
	Compact Memory Card	512MB
General Specification	Power Consumption	AC 100~240VAC, 50/60Hz Auto Switch
	Operating Conditions	* Temperature : 0~40℃
		* 80% Humidity, Non-condensing
	Dimension(WXDXH)	440 X 355 X 145mm, Weight : 6Kg
Others	Max Image	2048 X 2048 Bit Map Image Size
	Moving	2 Dot, 2 Line Control
	User Interface	* Front Panel (6.4 inch / Graphic LCD) Key Pad
		* Possible to Timing Parameter Edit
		* USB, RS-232C, PC EDIT Tool

* All specifications are subject to change without any notice.

Remote Controller (Optional Product)

- You can use remote box in order to promote work efficiency, before operating remote box, first of all, check baud rate and protocol of communication.

- MSRC-005L

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