MSPG-3233MT
Video Signal Generator

● 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-3233MT 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
	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
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

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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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