

# MSPG-4500

Video Signal Generator with HDMI Ver1.4

[www.Ltdmaster.com](http://www.Ltdmaster.com)



Image



Front View



Rear View



Main Feature

❖ MSPG-4500 is Video Signal Generator for testing Display device such as TV(3D), Monitor(Displayport) and ETC.

- Supports HDMI 1.4 Ver. (Supports 3D Function)
- DISPLAY PORT 1PORT
- DVI (Single / Dual)
- Analog (VGA)
- D-TV (YPbPr)
- CVBS
- Audio R / L 2channel
- Optical Audio 7.1 channel

## Headquarter

Master Co., Ltd.  
# 42-20, Palyong, Changwon,  
Gyeongnam, 641-847, South Korea  
Tel: +82 (55) 297-8880  
Fax: +82 (55) 256-7388  
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## Specification

Analog Output	Pixel Clock	8~330MHz
	Video Level	R, G, B (Load 75 ohmx, 0~1.0V Programmable)
	Output Connector	15P D-Sub
	EDID	Read
	Separate Sync	HS, VS (3.0V~5.5Vp-p Programmable / Inherited Sync Level is 4.8Vp-p)
H/V Frequency	Horizontal	10~300KHz / 1Dot Resolution
	Vertical	10~300Hz / 1Line Resolution
HDMI Output	Compliant	HDMI1.4 Version (3D Support)
	Pixel Rate Range	25~165MHz ( TMDS Clock : 25~225MHz)
	Standard Spec	EIA/CEA-861D
	Pixel Encoding	RGB444, YCbCr444, YCbCr422 (8~12 bit)
	HDCP	Support HDCP1.1Version
	EDID	Read
	Output Connector	Type A, HDMI 3Port ( Only 3D)
	Note	Except Audio Return Channel (ARC) Except 4kx2k Video formats
Display Port	Pixel Clock	25~268.5MHz
	Display Size	2560x1600
	Link Rate	Max. 10.8Gbps (2.7Hz-1,2,4 Lanes / 1.6GHz-1,2,4 Lanes)
	Output Format	RGB444, YCbCr444(8,10bit) / YCbCr422(8,10,12Bit)
	Compliant	Display port 1.1a Version
	Audio	SPDIF, 192KHz, 2Channels
DVI Output	Pixel Clock	*Dual Link : 25~330MHz
	Transfer Type	*Single TMDS 24Bit Input Mode / * Dual TMDS 12Bit Input Mode
	EDID	Read
	HDCP	Support Single & Dual
	Video Signal Type	RGB
	Output Connector	DVI-I (DVI 1Ports, Single / Dual)

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D-TV Output	Signal	Y, Pb, Pr
	Connector	BNC
	Time	480i/p, 576i/p, 720p, 1080i/p for ATSC and DVB Format
	Separate Sync	50~400mV Programmable
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 ( $\pm 25$ Hz / 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	
Separate Sync	1~318mV Programmable	
Audio (HDMI & Optical)	Sample Rate	32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192KHz
	Number of Channel	7.1 Channels
	Bit per Sample	24
	Waveform	Sine Wave
	Frequency Range	20Hz to 24KHz / 5Hz step
	Special Control Mode	Fix, Sweep, Swap, Optical, Mute
Audio (Analog R/L)	Frequency Range	20Hz to 24KHz / 5Hz step
	Waveform	Sine Wave
	Number of Channel	2 Channels
	Connector	RCA
	Special Control Mode	Fix, Sweep, Swap, Mute

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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)
General Specification	Power Consumption	AC 100~240VAC, 50/60Hz Auto Switch
	Operating Conditions	*Temperature : 0~40℃ *80% Humidity, Non-condensing
	Dimension (WxDxH)	410x400x80(mm)
Others	User Interface	*PC EDID Tool (Possible to Timing Parameter Edit ) *USB, RS-232C
	Remote Key	