

MSPG-4600MT

Video Signal Generator with Displayport & HD-SDI & Media Player

IMAGE



DEFINITION

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.

D-TV(NTSC, PAL)를 위한 다중방송기술인 Teletext, Closed Caption 기능 및 폭력 프로그램과 같은 미리 규정된 등급의 프로를 차단하는 V-Chip(Violence Chip)기능을 기본적으로 지원합니다.

Media Player 기능은 종전의 DVD영상 테스트를 신호발생기에서 가능하게 함으로써 생산라인에서 영상테스트시 번거로움을 극소화 시켰습니다.

- Displayport 2 outputs support.
 - * Main : up to 2560X1600 (25~300MHz)
 - * Media : up to 1920X1200 (25~165MHz)
- Built-in HD-SDI 2 output ports.
 - * HD-SDI : High Definition - Serial Digital Interface
- Analog RGB output support graphic display up to 2048X2048.
- Built-in HDMI 4 output ports.

SPECIFICATION

Displayport	Pixel Clock	* Main : 25~300MHz / Media : 25~165MHz (DPCD auto detection)
	Display Size	* Main : Max. 2560 X 1600 / * Media : Max. 1920 X 1200
	Link Rate	Max. 10.8Gbps (2.7GHz-1,2,4 Lanes / 1.6GHz-1,2,4 Lanes)
	Output Format	* Main : RGB444, YCbCr444(8,10 Bit) / YCbCr422 (8,10,12 Bit) * Media : RGB444, YCbCr444 (8 Bit)
	Compliant	Displayport 1.1a Version
	Audio	SPDIF, 192KHz, 2 Channels
HD/SDI	Output Format	YCbCr422 (Main & Media)
	Data Bit	* Main : 8,10,12 Bit / * Media : 8 Bit
	Output Time	480i, 576i, 720p, 1080i
	Output Bits Rate	1.485Gbps
	Display Size	1920 X 1080
	Audio	I2S, 48KHz Only, 2 Channels
H/V Frequency	Horizontal	10~300KHz / 1 Dot Resolution
	Vertical	10~300Hz / 1 Line Resolution

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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
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 (± 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	
D-TV Output	Signal	Y, Pb, Pr
	Connector	BNC, D5
	Time	480i/p, 576i/p, 720p, 1080i/p for ATSC and DVB Format
	Separate Sync	50~400mV Programmable
	Note	Support D Terminal for Japanese D-TV (Adjustable to 16:9, 4:3 aspect ratio)
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 4 Port
	Note	Support Deep Color & xvYCC

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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
Media Player	CVBS	NTSC, PAL
	D-TV (YPbPr)	480i/p, 576i/p, 720p, 1080i/p
	Analog	15P D-SUB
	HDMI	1.2 Version
	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	CVBS(BNC), D-TV, ANALOG, HDMI, S-VIDEO
	Scart Output	Signal 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	* 1 Dot, 1 Line Control
		* 0.5 Pixel, 0.25 Pixel Support
	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.

전화. 055-297-8880 / 팩스. 055-256-7388

주소. 경남 창원시 팔용동 42-20번지 (우641-847)

Homepage. www.Ltdmaster.com

E-mail. sales@Ltdmaster.com / webmaster@Ltdmaster.com

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