

MSPG-8100S

Video Signal Generator



Front View



Rear View

Product Summary

MSPG-8100S is a professional video signal generator that supports digital signals, analog signals, TV signals (including S-Video), DTV signals, and HDCP (High-bandwidth Digital Content Protection) for the secure transmission of high-definition digital content.

Supporting display resolutions up to 4K×2K (UHD), the MSPG-8100S is designed to evaluate and verify the performance of large-format display devices. It is an essential test instrument for the display industry, providing comprehensive signal generation and inspection capabilities for LCD, LED, PDP, D-TV, TV, and CRT display devices.

Key Features

- Supports HDMI 2.0a and HDCP 2.2, including CEC, ARC, and HDR functions
- Supports DisplayPort 1.2a and HDCP 2.2
- Equipped with a front-panel touchscreen for intuitive operation
- Supports USB memory stick for easy updates of firmware, test patterns, and timing formats
- Simultaneous analog and digital signal output
- Built-in comprehensive test patterns, including various specialized test patterns.
- Supports model (timing format) and pattern group selection, as well as automatic scanning
- Supports digital and DTV signal output
- Supports NTSC, PAL, and SECAM video output standards

Specifications

Analog Output	Display Size	2560 X 1600
	Pixel Clock	8~300MHz
	Video Level	R, G, B (Load 75 ohms, 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
Displayport	Pixel clock	25 ~ 594Mhz
	Resolution	Max 3840(4096) X 2160 @ 60hz 1Port
	Timing Format	VESA Displayport Standard Ver 1.2a
	Output format	RGB444(8/10Bit), YCbCr444 (8/10Bit), YCbCr422(8/10Bit) *4K/60Hz(444_8bit only)
	Link rate	Max. HBR2
	Compliant	Displayport 1.2a Version
	HDCP	Support HDCP 1.4 & 2.2
	Audio	I2S, 48KHz, 2Channels
H/V Frequency	Horizontal	10~300KHz / 1 Dot Resolution
	Vertical	10~300Hz / 1 Line Resolution
DVI Output	Pixel Clock	* Dual Link: 25~330MHz
	Transfer Type	Single TMDS 24 Bit Input Mode / * Dual TMDS 12 Bit Input Mode
	HDCP	Support Single & Dual
	Compliant	DVI 1.0 Support
	Video Signal Type	RGB
	Output Connector	DVI-D (DVI 1Ports, Single/Dual)
	EDID	Read

Specifications

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
D-TV Output	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
	Signal	Y, Pb, Pr
HDMI (TMDS) Video Output	Connector	BNC
	Time	480i/p, 576i/p, 720p, 1080i/p for ATSC and DVB Format
	Compliant	HDMI 2.0a Version
HDMI (TMDS) Video Output	Pixel Rate Range	4K x 2K@60Hz(Dot Clock:594MHz) 4Port
	Timing Format	EIA/CEA-861F, VESA Standard
	Video Signal Type	RGB, YCbCr
	Pixel Encoding & Data bit of RGB & YCbCr	4K@30Hz_RGB444(8/10/12bit), YCbCr444(8/10/12bit), YCbCr422(8/10/12bit)
		4K@60Hz_RGB444(8bit only), YCbCr444(8bit only), YCbCr422(8/10bit), YCbCr420(8bit only)
	Color Spac	RGB, BT.601, BT.709, BT.2020, xvYCC-601, xvYCC-709
HDMI (TMDS) Video Output	HDCP	Support HDCP 1.4 & 2.2 Version

Specifications

HDMI (TMDS) Video Output	EDID	Read
	Output Connector	Type A, HDMI 4 Port
	Note	Audio Return Channel (ARC) 4Port, CEC Support
		3D Video Formats, HDR(HDR10, HLG)
HDMI Audio Output	Sample Rate	32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192KHz
	Number of Channel	8 Channels
	Bit per Sample	24
	Waveform	Sine Wave
	Frequency Range	20Hz to 24KHz / 5Hz step
	Level Range	0dB to -110dB/ 0.5dB step
	External Audio Input	Optical, Coaxial
	Special Control Mode	Fix, Sweep, Swap, Optical, Mute
Audio (Analog) Output	Frequency Range	20Hz to 24KHz / 5Hz step
	Level Range	0mVrms to 900mVrms / 5mVrms, 0~18dB
	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
Standard Output	Standard Output range	18.0dB (400mVrms)
Scan & Function Group	Scan Storage	99 Group (1 Group; 20 Step)
	Function Storage	99 Group (1 Group; 30 Step)

Specifications

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)	440 X 350 X 145mm, Weight: 6Kg
Others	User Interface	* Front Panel (6.4 inch / Graphic LCD) Key Pad
		* Possible to Timing Parameter Edit
		* USB Firmware update, RS-232C control

※ Notes

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* Specifications and design are subject to change without prior notice