

MSPG-3235

Video Signal Generator



전면 / Front View



후면 / Rear View

Product Summary

MSPG-3235 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@30Hz, the MSPG-3235 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 1.4(4K@30Hz) and HDCP 1.4 including CEC, ARC, and HDR functions
- 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	4096 X 4096
	Pixel Clock	8~250MHz
	Video Level	R, G, B (Load 75 ohms, 0~1.0V Programmable)
	Output Connector	15P D-Sub
	Separate Sync	HS, VS(3.0V~5.5Vp-p Programmable) Inherited Sync Level is 4.8Vp-p
DVI Output	Pixel Clock	* Dual Link: 25~330MHz
	HDCP	Support Single & Dual
	Compliant	DVI 1.0 Support
	Video Signal Type	RGB
	Output Connector	DVI-D (DVI 1Ports, Single/Dual)
Displayport	Pixel clock	25 ~ 300Mhz
	Display size	3840*2160
	Output format	RGB444, Y444(8,10 bit), Y422(8,10,12)
	Rink rate	2.7G, 1.62G
	Version	1.1a
	Audio	192Khz, spdif
HDMI Video Output	Connector	HDMI 1.4Version
	Pixel Rate Range	25~165MHz (TMDS Clock : 25~225MHz) 4Kx2K@30Hz (Dot Clock : 300MHz)
	Standard Spec	EIA/CEA-861F
	Video Signal Type	RGB, YCbCr
	Pixel Encoding& Data bit of RGB &YCbCr	4K@30Hz_RGB444(8bit),YCbCr444(8bit), YCbCr422(8, 10, 12 bit)
	Color Space	RGB, BT.601, BT.709, BT.2020, xvYCC-601, xvYCC-709

Specifications

HDMI Video Output	HDCP	Support HDCP 1.4
	Output Connector	Type A, HDMI 3 Port (ARC 1Port, 4K x 2K @30Hz 3Port)
	Note	Audio Return Channel (ARC) 1Port, CEC Support
		3D Video Formats (Frame Packing, Side by Side, Top & Bottom, Field Alternative)
Audio(Digital) 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
	Number of Channel	2 Channels
	Waveform	Sine Wave
	Connector	RCA
	Special Control Mode	Fix, Sweep, Swap, Mute
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℃
	Operating Conditions	* 60% Humidity, Non-condensing
	Dimension (WXDXH)	440 X 350 X 145mm, Weight: 6Kg

Specifications

Others	Max Image	2048 X2048 (Max 165MHz), 50pcs
	User Interface	* Front Panel (6.4 inch / Graphic LCD) Key Pad
		* Possible to Timing Parameter Edit
		* USB, RS-232C

※ Notes

Rev. 1 | 26.07.23

* Specifications and design are subject to change without prior notice