VG-849C

Programmable Video Signal Generator

Specifications					
Data Programming		Remote Box RB-1848 or Software SP-8848			
Analog Outputs		BNC(RGB, YCbCr), D-sub, DVI, D-terminal			
Alialog outputs	Det eleck frequency(step)	5.00 to 300.000MHz (0.001MHz step)			
	Dot clock frequency(step)				
	Scan Mode	Interlaced & Video / Interlace & Sync / Non-interlace			
	Display Colors	16,770,000 colors (24-bit true colors)			
	Video Format	RGB or YCbCr			
	Video Level (Accuracy)	0.3 to 1.2V 75 Ω ($\pm 3\%$ or less)			
	Sync on Green	Available			
	Sync Level (Accuracy)	0.0 to 0.6V 75Ω(±3% or less)			
	Setup Level	0.00 to 0.25V 75Ω			
	Rise / Fall Time	1.5ns or less			
	Separate Sync (Accuracy)	HS, VS, CS (2.0V or more)			
	Horizontal Timing	no, to, oo (close or more)			
	Range	10 to 300KHz			
	Total Pixels(Accuracy)	128 to 8192 dots (1 dot step)			
	Vertical Timing				
	Range	15.6 to 200Hz			
	Total Lines (Accuracy)	4 to 8192 lines (1H step)			
	Serration	Equalizing Pulse on/off, 0.5H/1H/XOR selectable			
DVI Outputs		DVI-I			
	Dot clock frequency(step)	25.000 to 165.000MHz (0.001MHz step)			
		50.000 to 300.000MHz (0.001MHz step)*1)			
	DDC2B	Available(Read / Write / Compare / Edit)			
	HDCP	Available(Ver.1.0)			
	Video Format	TMDS(RGB, YCbCR 4:4:4)			
DMI outputs	Video i offiliat	HDMI Type A connector			
iomi outputs Vide	Clock Bandwidth	25.000 to 225.000MHz (Pixel Clock : up to 165.000MHz)			
vide					
	Display Colors (Normal)	RGB each 24-bit / RGB each 36-bit (Multi-bit Deep Color Mode)			
	Compliant	HDMI Ver.1.3a			
	DDC2B	Available(Read / Write / Compare / Edit) EDID Ver.1.3a 512k Byte			
	HDCP	Available(Ver.1.0 or Ver1.1 with AV-MUTE 0N/0FF function)			
	Video Format	TMDS(RGB, 4:4:4, YCbCR 4:2:2 or xvYCC601/709) *1			
Audi	Channel	Max. 8 channels			
	Bits per Sample	16, 20, 24-bit			
	Sample Rate	32, 44.1, 48. 88.2, 96, 176.4, 192KHz			
	Waveform	Sinewave, Sweep			
	Amplitude	0-7FFF(in case of 16-bit)			
	Frequency Range	20Hz to 20KHz			
	Frequency Resolution	20Hz Step			
	External Audio Input	S/PDIF(TOSLINK(optical), COAX), Analog			
	Special Control Mode	Mute, Frequency, Volume			
nalog Audio Outputs		L/R RCA connector			
	Frequency Range	0Hz to 20KHz			
	Frequency Resolution	100Hz step			
	Channel	2 channels (L/R)			
	Output Level Range	0 to 200mV			
	Output Level Resolution	50mV step			
	Special Control Mode	Tone(L/R) / Sweep/ Mute			
V Outputs	passa samai modo	Composite, S-Video(S1,S2), YCbCr, RGB			
IV Outputs	Output Mode	NTSC 4.43, NTSC 3.58(M.J), PAL(B,D,G,H,I,K,N,M) SECAM			
	Output Wode Output Format				
	Output Format	Composite(BNC), S-Video(S1,S2 with format control function)			
		SCART (with optional IA-575)			
	Function	Vchip, Closed Caption, Teletext, Macrovision (optional)			
DTV Signal Outputs		YPbPr, D-terminal(D1 to D5 with format control)			
	Format	SMPTE / EIA / China / Australia			
	Resolution	1080i,p / 720p / 480p			
ata Storage Device		Compact Flash (adapter included) / standard 128MB			
	Flash Memory(Read Only)	450timings + 450patterns			
	Memory Card(R/W)	850timings + 850patterns + 100programs(group)			
	Disk on PC(R/W)	with SP-8848 software, unlimited data storage			
ioftware	DISK UII FU(IVW)				
onware	Function	Standard SP-8848 Windows Software			
	Function	Timing & Pattern(incl. bmp/jpeg, C language) Edit, EDID edit, Cursor, etc.			
Control Interface		RS-232C or LAN(10/100BASE-TX) or REMOTE			
eneral specifications	Power Voltage	AC100 to 120V, AC200 to 240V (50/60Hz)			
	Power Consumption	80W MAX			
	Operating Temperature Range	+5 to 40°C			
	Storage Temperature Range	-10 to 60°C			
	Operating Humidity Range				
		30 to 80% (non-condensing)			
	Dimensions	430(W) x 86(H) x 320(D)mm (excluding projections)			

Weight Approx. 8.0Kg

*1 Available only for xYYCC special test pattern. This function is under development/as of March 2007), and firmware updates may be required. For details, please inquire to our sales support desk

Options										
Remote BOX (with editing function)	Remote BOX	SCART BOX	DTV Card	Built-in pattern card for 8/10/12 bit image	Software for max.16bit tiff to VBM(VG format) converting	Built-in pattern card for China TV test pattern library	License			
RB-1848	RB-614C	IA-575	VT-8000	VT-8001	SP-8010	VT-8500-0004				
			Monoscope pattern Circular zone plate etc.		H H H		1) Macrovision function 2) Max.12-bit Multi-bit			

Restrictions

*Analog output and CS output Tr/Tf differ from high definition TV BTA or SMPTE standards. *Analog output and CS output Tr/Tf differ from NTSC standards. *Tri-level SYNC setting is in units of four dots. *VS signal is output based on vertical reference phase point. * The amplitude level of the synchronization output of the positive pole is linked with the synchronization output level of he spirit output of color difference signal and RBB is not possible. *Output of NTSCPAL/SECAM for VBS and S-terminal output is OFF except for specificid timing. *The DIF signal setting is is units of not except for specific timing. *The DIF spirit of the intelligence (selectable).

Dimensions, specifications, etc. in this catalog may change without notice for improvement.



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VG849C-IB3204E-1000-1





VG-849C Programmable Video Signal Generator

A programmable video signal generator that supports the latest HDMI standard, Ver1.3a (EIA/CEA-861D), and is optimal for next-generation FPD TV testing. MASTRO COOR CALL MARKET WHOCH WAS NOT THE MOO THE AND ST COT COUNTY TANK THE TANK OF SELFT OF SAME LEVEL.

VG 849C The TV system specialization type newest model which equipped the programmable video signal generat



A programmable video signal generator that supports the latest HDMI standard, Ver1.3a (EIA/CEA-861D), and is optimal for next-generation FPD TV testing.

The VG-849C is a standalone type programmable video generator that supports every display measurement fields, such as inspection field for FPD TV sets which support digitalized broadcast and digitalized interface, and development field for highly advanced display devices and sophisticated PC monitors. VG-849C has key switches on its front panel for data editing and program executing. For digital output, the VG-859C supports DVI as well as HDMI (High Definition Multimedia Interface)Ver.1.3a (the latest version of HDMI). It can inspect the new features of HDMI 1.3a, such as Deep Color(up to RGB12bit), xvYCC, and Lipsync.

For analog output, the VG-859C has a wide variety of output ports (BNC, Dsub15pins, D-terminal, DVI-I, S-terminal), and supports RGB signals, color difference signals, tri-level synchonization signals, and TV standard signals.

Features

Wideband dot clock

The dot clock supports a maximum of 300MHz analog output, a maximum of 300MHz digital DVI dual-link output(with optional modification), and a maximum of 225MHz digital HDMI output (maximum pixel clock is 165MHz), and can be finely set in units of 1KHz. High-definition displays at HD (1080/60p) and QXGA (2048x1536) or higher resolutions can also be supported.

Support for full color output (max. RGB 12-bit)

RGB/Y444 can switch betwee RGB 8-bit/10-bit/12-bit output. Can display up to RGB each 12-bit 4096-level linear ramp patterns and composite ramp patterns, optimal for multi-level testing, through optional license input. By using the optional SP-8010 software, 10/12-bit tiff format natural images can also be Saved on the VG and output as a pattern.





Ramp pattern for comparing

Support for HDMI standard Ver.1.3a HDMI

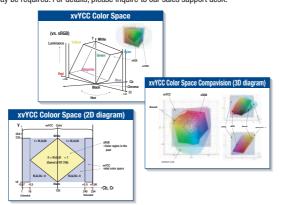
The VG-849C supports the latest standard (Ver. 1.3a) of the HDMI digital interface (EIA / CEA-861D), and the InfoFrame setting parameters are also standard-compliant.

*Only linear PCM audio is supported. Uncompressed and lossless audio formats such as SACD and Dolby TrueHD are not supported.

xvYCC / Lipsync test function (under development)

The xvYCC (xvYCC709/xvYCC601) video standard, with a color gamut surpassing current HDTV, and a video and audio delay (Lipsync) test function are supported.

*These functions are under development(as of March 2007), and firmware updates may be required. For details, please inquire to our sales support desk.







What manages all ability, HDMI output loading, TV system specialization type newest model VG-849C appearance!

Support for CEC function

Support for transmission and reception of CEC (Consumer Electronics Control) commands over the HDMI output, and simple display of the communication results on Sink (TV) equipment.



Wide variety of TV signal outputs and functions

In addition to digital signals such as HDMI and DVI, analog signals including RGB, YPbPr (YCbCr), S-Video, composite ((NTSC/PAL/SECAM), D-terminal (D5), and SCART (optional IA-575 required) are also supported. General TV test functions such as Vchip, Teletext, and Closed Caption are also supported.



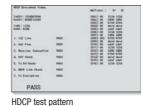
DDC/CI (DDC2Bi) / **HDCP EDID OK/NG simple test function**

Can DDC/CI (DDC2Bi) simple communication test function, HDCP (High-band Width Digital Content Protection) authentication test, and EDID checksum OK/NG pass-fail results as a pattern.

*The DDC/Cl simple communication test function is under development(as of March 2007), and firmware updates may be required.

For details, please inquire to our sales support desk.

SMPTF color bar



Natural image pattern

Natural image data in e.g. JPEG or BMP format can be Saved on the VG CF card, and output as a test pattern. Images can also be scrolled in units of 1 dot horizontally and vertically.

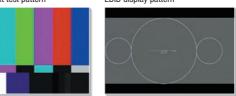


Natural picture image

• Internal samples for a variety of video timings and patterns

The unit has roughly 450 types of sample data built in, including sample data for the latest HDTV systems (480, 720, 1080), SDTV systems (NTSC, PAL, SECAM), PC systems such as VESA, and CEA-861D.





AFD aspect pattern

VT-8000 DTV card (optional)

By using the optional VT-8000 DTV card, SD and HDTV resolution TV test patterns such as monoscope, ITE standard patterns (flower girl, etc.), and multiburst can be used.

