

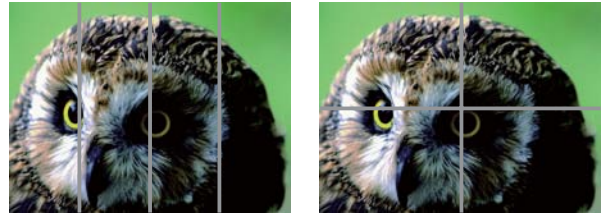
# 4K2K and Full HD240Hz Output Unit Option

## VM-1824

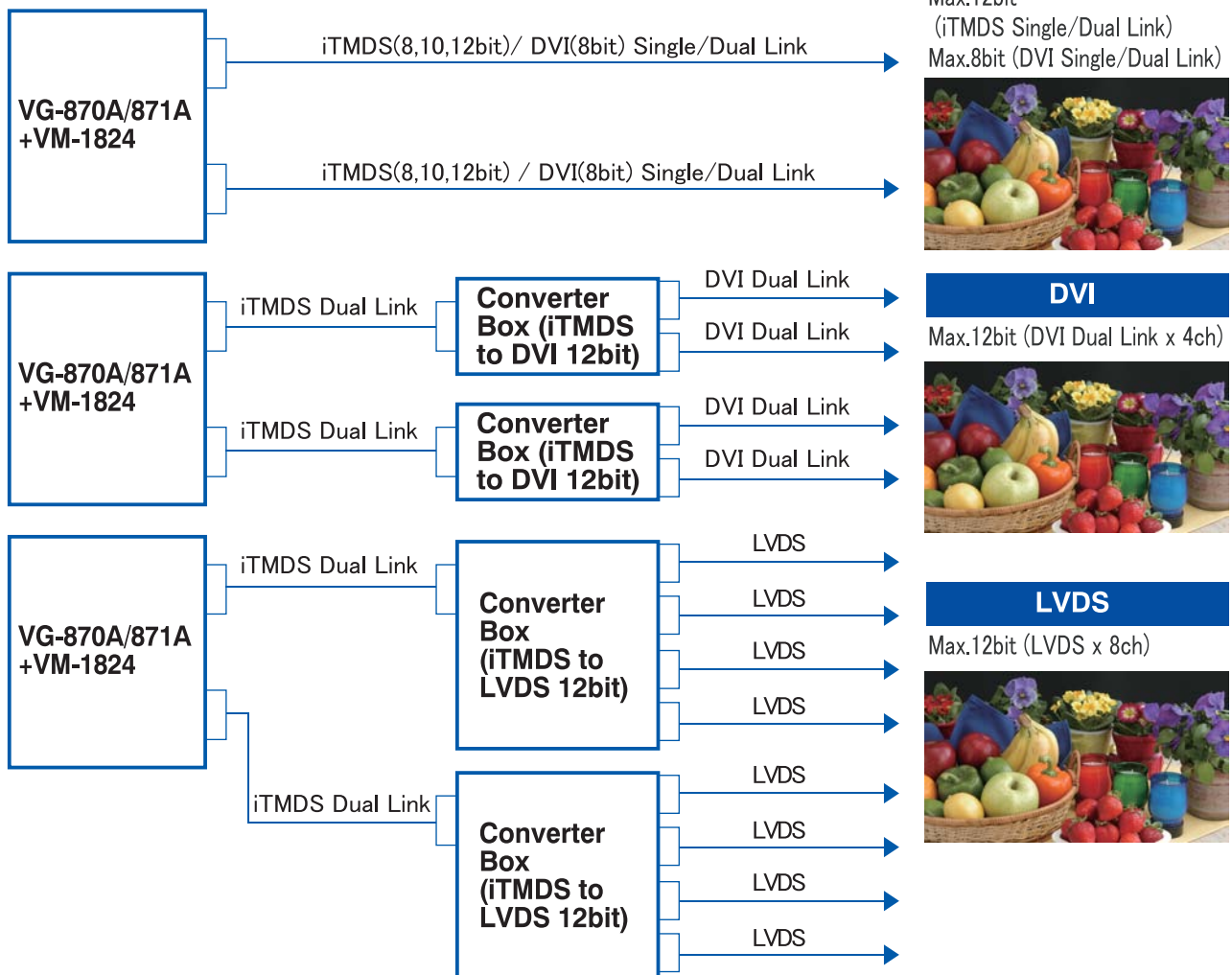
Best solution for development and production of 4K2K Display, Full HD 240Hz panel

### Features

- Optional output interface unit of VG-870A/871A
- Support 4K2K Digital Cinema format(4096 x 2160)
- For testing Full HD 240Hz panel
- Output one image by dividing to 4 sections
- Support two iTMDS/DVI output ports (10 and 12 bits are only available by iTMDS)
- Output signal by DVI, LVDS each 8, 10 and 12bit by using the optional customized converter box.



### Connection with/without the optional converter box



## Specifications

Item			Parameter
Model number			VM-1824
	Required interface slot	Required 2 slots space for one VM-1824 unit. Note 1) Balance one slot unit output will be off when 4K x 2K Mode is selected. Note 2) If VM-1824 is installed, uncompressed motion picture playing function VM-1819 can not be used.	
Interface	Connector		DVI-I(only digital output) 2 channels
Dot Clock	DVI Mode	8-bit	25 to 165MHz : Single Link 50 to 330MHz : Dual Link
		iTMDS Mode	8 to 10-bit
	12-bit		25 to 150MHz : Quad Link 50 to 300MHz : Dual Link
		Multi Channel Mode	10 to 16-bit
	4K x 2K Mode (Including Full HD240Hz test)		8 to 12-bit
		Accuracy	
	Video Format		RGB / YCbCr 4:4:4
	HDCP		Ver.1.1
	E-EDID		Ver.1.3(DDC2B)
	Limitation of 4Kx2K Mode	<p>Below Action pattern is not available :</p> <ol style="list-style-type: none"> <li>1) Motion Blur</li> <li>2) 0.5/0.25 dot scroll(including APDC pattern)</li> <li>3) Simple Motion Picture Drawing function</li> <li>4) Sine Wave Scroll</li> <li>5) Window Effect(Flicker, Auto Level change, Manual Level change, Level Sequence, Black Insert)</li> <li>6) Level shift available, but black is inserted every level change.</li> <li>7) Ramp Scroll</li> </ol> <p>Drawing speed is about 4 times of 1080P timings selected + 10 frames. 10 frames of the black are inserted between program change.</p> <p>Scroll function is available, but not able to scroll on different pattern plane (example : If Window and BMP is overlaid, both two palette pattern is scrolled at the same time)</p>	
4K2K Optional Converter Box	iTMDS/DVI to LVDS Adapter	IA-1540 Input Connector : DVI-I x 1 channel Output Connector : LVDS x 4 channel	
	Others	Customized base Example) ● iTMDS/DVI to DVI Dual 12-bit x 2 ch. Adapter ● iTMDS/DVI to DVI Single 12-bit x 4 ch. Adapter	

## Rear View

