

VWBOX-E122 | E133

Video Wall Controller with Scaling Function

The VWBOX-E122/E133/144P video wall controller with scaling capability allows the input content scale to the full screen.



VWBOX-E133

- 1 input with 9 output (3x3)
- Up to 1920 x 1200 high-resolution input
- Scaling up to 5760 x 3600 high-resolution output



VWBOX-E122

- 1 input with 4 output (2x2)
- Up to 1920 x 1200 high-resolution input
- Scaling up to 3840 x 2400 high-resolution output

Features:

- IEI unique GeniMask™ bezel masking technology
- Support up to 1920 x 1200 input content
- Output content is auto-scaling up to 3840 x 2400 or 5760 x 3600 high resolution
- Support multiple display modes, such as full mode, clone mode, etc.
- Allow remote manage the VWBOX via RS-232 cable or DVI cable
- Easy-to-DIY video wall solution

Model		VWBOX-E122/DVI-R10	VWBOX-E133-R10
Dimensions (mm)		230 x 180 x 47 (W x D x H)	295 x 188 x 47 (W x D x H)
Cooling		Fanless	Fan
Front Panel	LED Light	6 x LED (1 x Input, 4 x Output, 1x Power)	11 x LED (1 x Input, 9 x Output, 1 x Power)
	Keypad	6 Keys	6 Keys
	IR Receiver	Yes	Yes
Rear Panel	Input	1 x DVI-D or DVI-I single-link input	1 x DVI-D single-link input
	Output	4 x DVI-D single-link output	9 x DVI-D single-link output
	RS-232	1 x RS-232	1 x RS-232
Resolution		Clone, Full, Vertical Replication Mode	
		Input	Output
		640 x 480	640 x 480
		800 x 600	800 x 600
		1024 x 768	1024 x 768
		1280 x 768	1280 x 768
		1360 x 768	1360 x 768
		1366 x 768	1366 x 768
		1152 x 864	1152 x 864
		1440 x 900	1440 x 900
		1280 x 960	1280 x 960
		1280 x 1024	1280 x 1024
		1680 x 1050	1680 x 1050
		1600 x 1200	1600 x 1200
		1920 x 1080	1920 x 1080
		1920 x 1200	1920 x 1200
Power Consumption		20W	35W
Power Supply	Connector	DC Power Jack	DC Power Jack
	Input	90VAC to 264VAC/47Hz to 63Hz	90VAC to 264VAC/47Hz to 63Hz
	Output	12V DC	12V DC
OSD Function		1. Power On/Off 2. Output resolution selection 3. GeniMask bezel masking control	1. Power On/Off 2. Output resolution selection 3. GeniMask bezel masking control
Temperature		0°C ~ 40°C	0°C ~ 40°C
Safety and Emission		CE, FCC, CCC	CE, FCC, CCC

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VWBOX-122A / 133A

Video Wall Controller with High-Resolution Input Support

The high-resolution video controllers enable the maximum image quality by mapping the input video pixels directly to the pixels on the connected output channels. Directly splitting of the input signal results in a much higher quality image compared to resized or adjusted signal.

Features:

- Easy-to-install, flexible combination, cost effective solution
- High-resolution display content input and output
- Non-scaling, pixel-to-pixel mapping advantage
- Single input (Dual-Link DVI) and 4/9 outputs (Single-Link DVI)
- Support various display modes
- IEI unique GeniMask™ bezel masking technology



VWBOX-122A

- 1 Input with 4 outputs (2x2)
- Up to 3840 x 2400 high-resolution input



VWBOX-133A

- 1 input with 9 outputs (3x3)
- Support (3x3) & (3x2) & (2x3) output selection
- Up to 3840 x 3072(5:4) & 4080 x 2304 (16:9) high-resolution input

Model		VWBOX-122A-R10				VWBOX-133A-R10			
Dimensions(mm) (W x D x H)		230 x 180 x 47				295 x 188 x 47			
Cooling		Fanless				Fanless			
Front Panel	LED Light	6 x LED (1x Input, 4x Output, 1x Power)				11 x LED (1x Input, 9x Output, 1 x Power)			
	Keypad	6 Keys				6 Keys			
	IR Receiver	Yes				Yes			
Rear Panel	Input	1 x DVI dual-link Input				1 x DVI dual-link Input			
	Output	4 x DVI single-link Output				9 x DVI single-link Output			
	Power Switch	1 x Power (in) with lock				1 x Power (in) with lock			
	RS-232	1 x RS-232				1 x RS-232			
Resolution		Input	Output	Output Vertical Frequency (Hz)	Output Horizontal Frequency (kHz)	Input	Output	Output Vertical Frequency (Hz)	Output Horizontal Frequency (kHz)
		Full Mode (2 x 2)				Full Mode (3 x 3)			
		2048x1536	(4x1024x768) * 1	60	48.36	3072x2304	(9x1024x768) * 1	60	48.36
		2560x2048	(4x1280x1024) * 1	60	63.98	3840x2160	(9x1280x720)*1	66	49.37
		2560x1440	(4x1280x720)*1	66	49.37	3840x2400	(9x1280x800)*1	58	48.2
		2560x1600	(4x1280x800)*1	58	48.2	3840x3072	(9x1280x1024)*1	60	63.98
		2720x1536	(4x1360x768)*1	57	45.32	4080x2304	(9x1360x768)*1	57	45.32
		3840x2160	(4x1920x1080) * 1	50	56.25	Full Mode (2 x 3)			
		3840x2400	(4x1920x1200) * 1	50	61.75	2048x2304	(6x1024x768)*1	60	48.36
		Clone Mode (1 x 1)				2560x2400	(6x1280x800)*1	58	48.2
		1024x768	(1x1024x768) * 4	60	48.36	2560x3072	(6x1280x1024)*1	60	63.98
		Vertical Replication Mode (2 x 1)				2720x2304	(6x1360x768)*1	57	45.32
		2560x1024	(2x1280x1024) * 2	60	63.98	Full Mode (3 x 2)			
		3840x1080	(2x1920x1080) * 2	50	56.25	3072x1536	(6x1024x768)*1	60	48.36
		3840x1200	(2x1920x1200) * 2	50	61.75	3840x1600	(6x1280x800)*1	58	48.2
						3840x2048	(6x1280x1024)*1	60	63.98
						4080x1536	(6x1360x768)*1	57	45.32
Power Consumption		10W				17W			
Power Supply	Connector	DC Power Jack				DC Power Jack			
	Input	90VAC to 264VAC/47Hz to 63Hz				90VAC to 264VAC/47Hz to 63Hz			
	Output	12V DC				12V DC			
OSD Function		1. Output resolution selection 2. GeniMask bezel masking control 3. Power On/Off 4. Output Sync On/Off				1. Output resolution selection 2. GeniMask bezel masking control 3. Power On/Off 4. Output Sync On/Off			
Temperature		0°C ~ 50°C				0°C ~ 50°C			
Safety and Emission		CE, FCC, CCC				CE, FCC, CCC			

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Optional
Peripherals

VWBOX-114 / 114P

Video Wall Controller with Scaling Function

The VWBOX-114 /114P video wall controller with scaling capability allows the input content scale to the full screen.

Features:

- IEI unique GeniMask™ bezel masking technology
- Support up to 1920 x 1200 input content
- Output content is auto-scaling up to 3840 x 2400 or 5760 x 3600 high resolution
- Support multiple display modes, such as full mode, clone mode, etc.
- Allow remote manage the VWBOX via RS-232 cable or DVI cable
- Easy-to-DIY video wall solution



VWBOX-114

- 1 input with 4 outputs (4x1)
- Support (4x1) & (3x1) output selection
- Up to 4096 x 768 high-resolution input



VWBOX-114P

- 1 Dual-link DVI Input to 4 DVI Outputs (4x1 & 1x4)
- Support Up to 4096 x 768 / 1360 x 3072 High-Resolution Input

Model		VWBOX-114-R10				VWBOX-114P-R10			
Dimensions(mm) (W x D x H)		230 x 130 x 47				230 x 180 x 47 (W x D x H)			
Cooling		Fanless				Fanless			
Front Panel	LED Light	6 x LED (1x Input, 4x Output, 1x Power)				6 x LED (1x Input, 4x Output, 1x Power)			
	Keypad	6 Keys				6 Keys			
	IR Receiver	Yes				Yes			
Rear Panel	Input	1 x DVI dual-link Input				1 x DVI dual-link Input			
	Output	4 x DVI single-link Output				4 x DVI single-link Output			
	Power Switch	1 x Power (in) with lock				1 x Power (in) with lock			
	RS-232	1 x RS-232				1 x RS-232			
Resolution		Input	Output	Output Vertical Frequency (Hz)	Output Horizontal Frequency (kHz)	Input Resolution	Output Resolution	Vertical Hz	Horizonatal kHz
		Full Mode (4 x 1)				Landscape mode (4 x 1)			
		3392x480	(4x848x480) *1	60	31.02	3392x480	4 x 848x480	56	29
		3200x600	(4x800x600) *1	60	37.08	3200x600	4 x 800x600	61	38.4
		3840x600	(4x960x600) *1	60	36	3840x600	4 x 960x600	61	38.4
		4096x768	(4x1024x768) *1	51	48.36	4096x768	4 x 1024x768	60	48.36
		Full Mode (3 x 1)				Landscape mode (3 x 1)			
		2544x480	(3x848x480)*1	60	31.02	3072x768	3 x 1024x768	60	48.36
		2400x600	(3x800x600) *1	60	37.08	3840x800	3 x 1280x800	58	48.2
		2880x600	(3x960x600)	60	36	3840x1024	3 x 1280x1024	51	55.4
		3072x768	(3x1024x768)*1	51	48.36	4080x768	3 x 1360x768	57	45.32
						Portrait mode (1 x 4)			
						1024x3072	4 x 1024x768	60	48.36
						1280x3200	4 x 1280x800	58	48.2
						1280x4092	4 x 1280x1024	51	55.4
						1360x3072	4 x 1360x768	57	45.32
						Portrait mode (1 x 3)			
						1024x2304	3 x 1024x768	60	48.36
						1280x2400	3 x 1280x800	58	48.2
						1280x3072	3 x 1280x1024	51	55.4
						1360x2304	3 x 1360x768	57	45.32
Power Consumption		10W				10W			
Power Supply	Connector	DC Power Jack				DC Power Jack			
	Input	90VAC to 264VAC/47Hz to 63Hz				90VAC to 264VAC/47Hz to 63Hz			
	Output	12V DC				12V DC			
OSD Function		1. Output resolution selection 2. Power On/Off				1. Output resolution selection 2. GeniMask bezel masking control 3. Power On/Off			
Temperature		0℃ ~ 50℃				0℃ ~ 40℃			
Safety and Emission		CE, FCC				CE, FCC, and CCC			

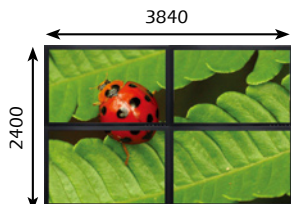
IEI VWBOX Matrix & System Architecture

Full HD Resolution



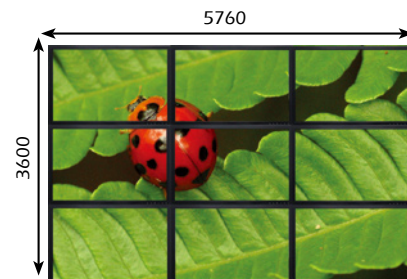
VWBOX-E122

- 1 input with 4 outputs (2x2)
- Input: Max. 1920 x 1200
- Output: Scale to max. 3840 x 2400



VWBOX-E133

- 1 input with 9 outputs (3x3)
- Input: Max. 1920 x 1200
- Output: Scale to max. 5760 x 3600



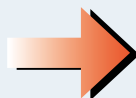
Full HD Input Content Support (Input Up to 1920 x 1200)



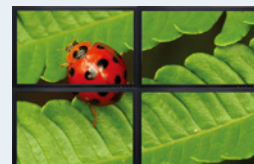
- Digital Signage
- Blu-ray Player
- PC (*None HDCP)

Supported Output Resolution:

2048 x 1536, 2720 x 1536, 2560 x 2048, 2800 x 2100,
3320 x 2100, 3200 x 2400, 3840 x 2400...etc



VWBOX-E122



Full-Screen Display on the
2x2 video wall

Ultra High Resolution



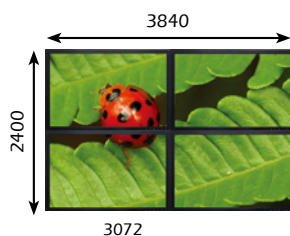
VWBOX-114

- 1 input with 4 outputs (4x1)
- Input: Max. 4096 x 768
- Output: Max. 4096 x 768



VWBOX-122A

- 1 input with 4 outputs (2x2)
- Input: Max. 3840 x 2400
- Output: Max. 3840 x 2400



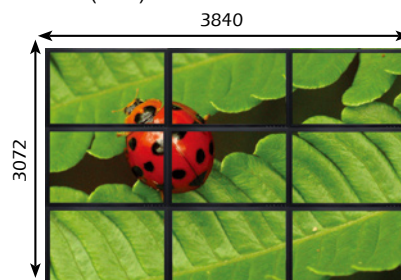
VWBOX-114P

- 1 input with 4 outputs (4x1)
- Input: Max. 4092x768/1360x3072
- Output: Max. 4096x768/1360x3072



VWBOX-133A

- 1 input with 9 outputs (3x3)
- Input: Max. 3840 x 3072 (5:4) / Max. 4080 x 2304 (16:9)
- Output: Max. 3840 x 3072 (5:4) / Max. 4080 x 2304 (16:9)



High-Resolution Input Support

STEP 1: PC receives the VWBOX's EDID information via DDC interface on DVI port



PC & 1 graphic card



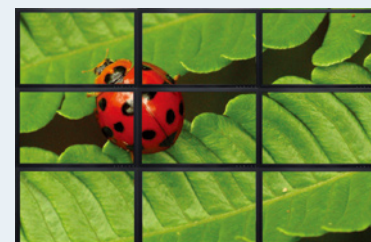
Dual-link DVI-D

VWBOX-133A



Single-link DVI-D

STEP 2: User sets up the matching resolution on PC's graphic card based on VWBOX's EDID information



High-Resolution Image on the
3x3 Video Wall

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