



Up to 9.2MP Ultra-High-Resolution Image Input

Video Wall Controller



**Ultra-High Resolution
for Large Screen Display Applications**



VWBOX-133

1 Input with 9 Output



VWBOX-122

1 Input with 4 Output

IEI Ultra-High-Resolution Video Controller

Best for Medical Image Review, Satellite Imagery and Billboard Display Solution

The IEI's ultra-high-resolution video controller successfully maintains a 9.2 megapixel input to 9.2 megapixel output data flow without any image loss. The multiple output design enables large-screen display solutions through only one video controller, providing a cost-effective advantage. The OSD keypad located at the front enables an easy-control interface while all the video outputs and power located at the rear brings the advantage of convenient cabling. The IEI video controller is designed to drive LCD, DLP screens, video wall cubes and projectors, making it perfect for all kind of display applications.

Feature 1: Ultra-High-Resolution

Pixel-to-Pixel mapping without any resolution loss

The unique IEI video wall controller creates a no-resolution-loss image flow through the pixel-to-pixel mapping function. The VWBOX-122 is able to display 9.2 megapixel (3840 x 2400) images while the VXBOX-133 displays 8.8 megapixel (3840 x 2304) images.

Up to 9.2M Input
3840 x 2400

Ex:

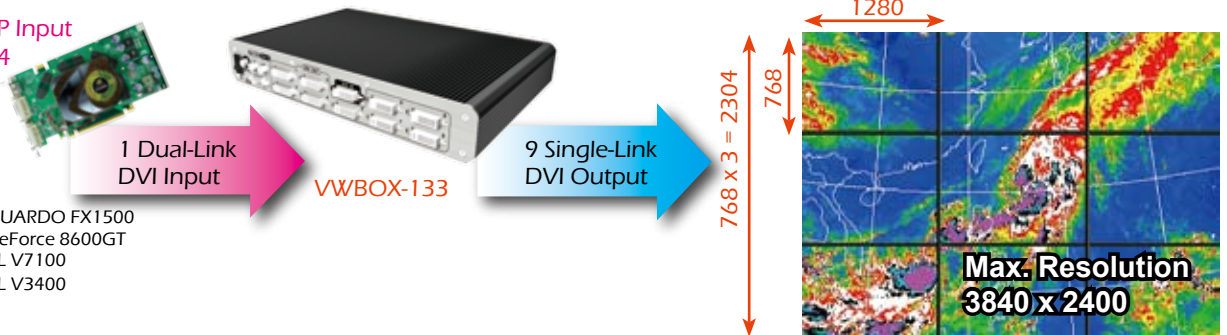
- nVIDIA QUARDO FX1500
- nVIDIA GeForce 8600GT
- ATI FireGL V7100
- ATI FireGL V3400



Up to 8.8MP Input
3840 x 2304

Ex:

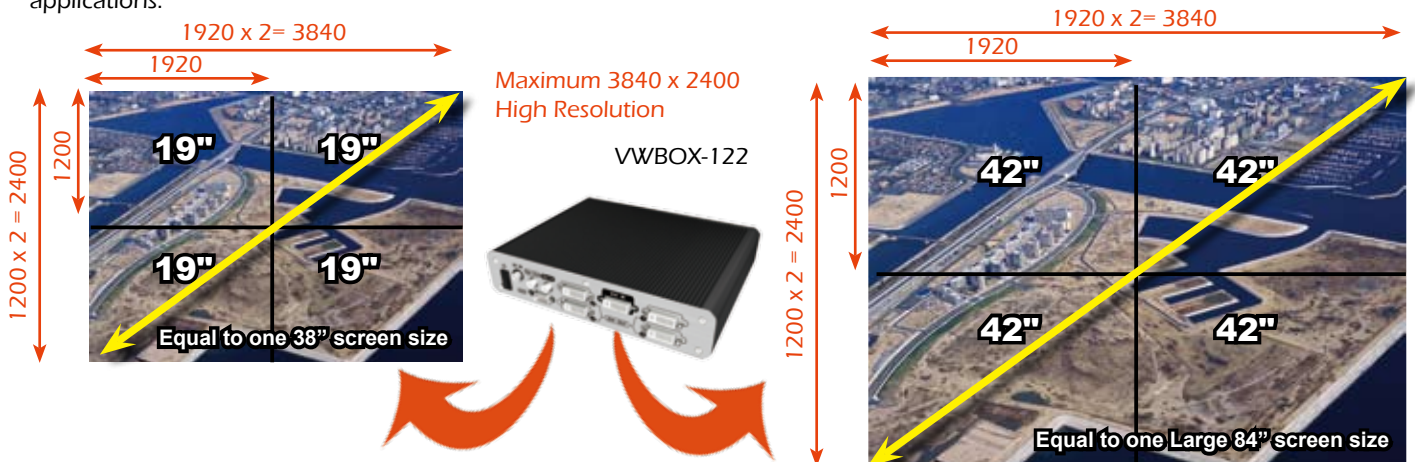
- nVIDIA QUARDO FX1500
- nVIDIA GeForce 8600GT
- ATI FireGL V7100
- ATI FireGL V3400



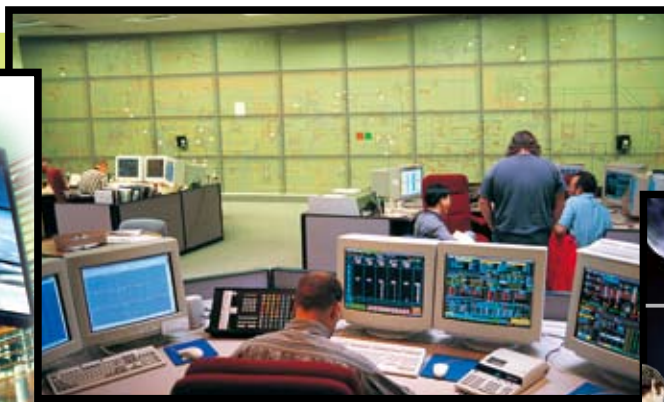
Feature 2: Cost-Effective Large Screen Display Advantage

Pixel-to-Pixel mapping with ultra-high resolution

IEI's pixel-to-pixel mapping function enables the original high-resolution image displays in super large screens without any resolution loss, ensuring the most delicate display images. IEI's video wall controller allows users to flexibly choose various screen sizes for the display solution to leverage the high-resolution advantage and significantly reducing total cost of ownership for large screen display applications.



IEI Video Controller Creates High Resolution Large Display Solution through Low-Cost Small Size Displays



Utility Command Center



Medical Image Review

Multimedia Billboard

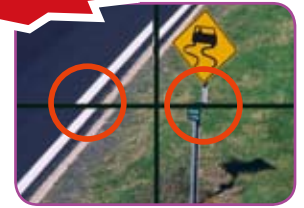
Feature 3: Bezel Mask Function

The bezel design of each display usually segments the original images into several parts. The non-continuous images are difficult to view. IEI's bezel mask function uses pixel smoothing to ensure the images are fine tuned to eliminate the effect of magnified blocks from the display. IEI's cost effective VWBOX-122 and VWBOX-133 video controller ensures the best display quality.

Comparison



With bezel masking



Without bezel masking

Feature 4: Smart Software OSD for Remote Management

IEI smartOSD is an intelligent and easy to use proprietary On-Screen-Display(OSD) software. It delivers excellent performance and flexibility to adjust the settings of video control box.

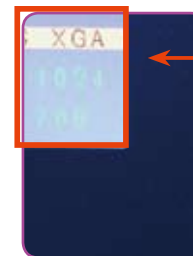
The smartOSD allows some functions as below:

- Power on/off
- Output resolution selection
- Bezel mask function adjustment



Feature 5: Remote Control Function

Every IEI VWBOX is packed with a remote control, ensuring easy configuration remotely. Hot-keys on the remote control includes power control, selection of display modes, and adjustment of all video parameters. All IEI unique display features, such as bezel masking and color matching, can be adjusted easily through the remote control.



OSD Menu through the remote control



Feature 6: Enhanced Display Advantage

The IEI video wall controller creates a large display wall through connection with multiple VWBOXs. The Syn In and Syn Out sockets on the rear panel of VWBOX-122 and VWBOX-133 can be connected continuously, enabling cost-effective large display solution for video wall applications. Through the connection of Syn In and Syn Out sockets, the two VWBOX-133 creates a large display wall of maximum 18 units, bringing the cost-effective advantage of display applications



Cost-Effective Large Display Solutions!

*The output from one IEI VWBOX has to be connected to the input of the next one.

The Syn In socket of the first unit and the Syn Out socket of the last unit should not be used.

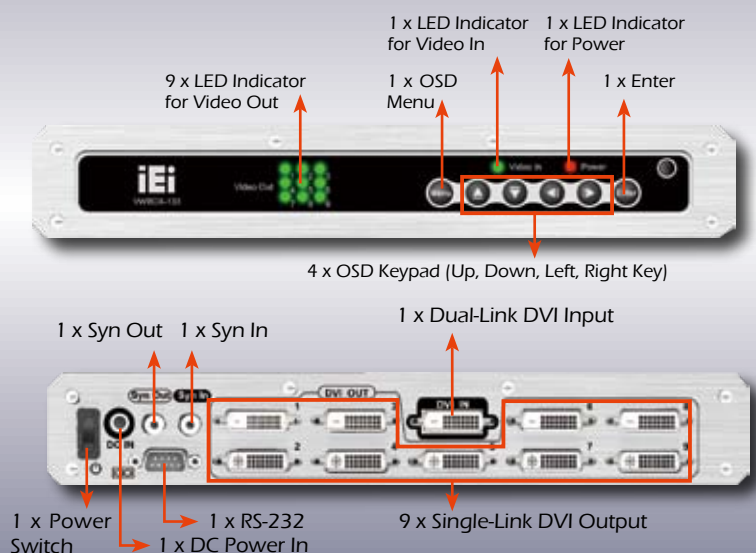
Specifications

Model Name	VWBOX-122-R10	VWBOX-133-R10
Features	1. Mode Choice 2. Software OSD 3. Remote Control 4. Bezel Mask Function	1. Mode Choice 2. Software OSD 3. Remote Control 4. Bezel Mask Function
Box Size	Height : 47mm (with rubber foot 53.4mm) Depth : 178.2mm Width : 229.5mm	Height : 47mm (with rubber foot 53.4mm) Depth : 178.2mm Width : 229.5mm
Cooling	Fanless	Fanless
Front Panel	6 x LED (1xInput, 4xOutput, 1xPower) 1x 6 keys 1 x IR receiver	11 x LED (1xInput, 9xOutput, 1xPower) 1x 6 keys 1 x IR receiver
Rear Panel	1 x DVI Dual-link Input 4 x DVI Single-link Output 1 x Power (In) with locked 1 x RS-232 1 x Power switch 1 x Syn In 1 x Syn Out	1 x DVI Dual-link Input 9 x DVI Single-link Output 1 x Power (In) with locked 1 x RS-232 1 x Power switch 1 x Syn In 1 x Syn Out
Resolution	Clone Mode	
	Input	output
	1920x1080 @ 60Hz	(1 x 1920x1080 @ 50Hz) * 4
	1920x1200 @ 60Hz	(1 x 1920x1200 @ 50Hz) * 4
	Vertical Replication Mode	
	Input	output
	2048x768 @ 60Hz	(2 x 1024x768 @ 60Hz) * 2
	2560x1024 @ 60Hz	(2 x 1280x1024 @ 60Hz) * 2
	3840x1080 @ 40Hz	(2 x 1920x1080 @ 50Hz) * 2
	3840x1200 @ 40Hz	(2 x 1920x1200 @ 50Hz) * 2
Full Mode		
Input	output	
2048x1536 @ 60Hz	(4 x 1024x768 @ 60Hz) * 1	
2560x2048 @ 50Hz	(4 x 1280x1024 @ 60Hz) * 1	
3840x2160 @ 24Hz	(4 x 1920x1080 @ 50Hz) * 1	
3840x2400 @ 25Hz	(4 x 1920x1200 @ 50Hz) * 1	
Power Consumption	10W	17W
Power Connector	DC Power Jack	DC Power Jack
OSD	1. Power On/Off 2. Output resolution selection 3. Bezel mask control 4. Output Sync On/Off	1. Power On/Off 2. Output resolution selection 3. Bezel mask control 4. Output Sync On/Off
Temperature	0°C~40°C	0°C~40°C
Safety & Emission	Meet UL, CE, FCC, and CCC	Meet UL, CE, FCC, and CCC
Power adapter		
	Power input 90VAC to 264VAC/47Hz to 63Hz Power output 11.52V to 12.48V, 2.1A, 25W	90VAC to 264VAC/47Hz to 63Hz 11.52V to 12.48V, 2.1A, 25W

VWBOX-122



VWBOX-133



Packing List

Video Wall Box	1	RS-232 Cable	1
Power Adaptor	1	Dual-Link DVI Cable (length:1.8M)	1
Power Cord (US)	1	User Manual / Utility CD	1
Power Cord (EU)	1	Mount Bracket	2
Remote Control	1	Screw Kit	1

Options

Part No.	Descriptions
32000-115700-RS	Dual-link DVI cable (length: 1.8M)
32000-116000-RS	Single-link DVI cable (length: 1.8M)
32000-115800-RS	Dual-link DVI cable (length: 5M)
32000-114100-RS	Single-link DVI cable (length: 5M)
32000-115900-RS	Dual-link DVI cable (length: 10M)
32000-114101-RS	Single-link DVI cable (length: 10M)

Ordering Information

Model Name	Descriptions
VWBox-122-R10	High Resolution Video Wall Control Box, 1 x Dual-Link DVI Input, 4 x Single-Link Output, 2 by 2 display
VWBox-133-R10	High Resolution Video Wall Control Box, 1 x Dual-Link DVI Input, 9 x Single-Link DVI Output, 3 by 3 display



VWBOX-133



VWBOX-122



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