

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 8 megapixel input to 8 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 8 megapixel (3840 x 2160) images while the VXBOX-133 displays 7 megapixel (3072 x 2304) images.

Up to 8MP input
3840 x 2160

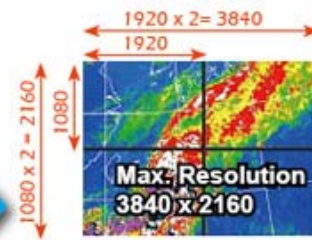


1 Dual-Link
DVI Input



VWBOX-122

4 Single-Link
DVI Output



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

Up to 7MP input
3072 x 2304

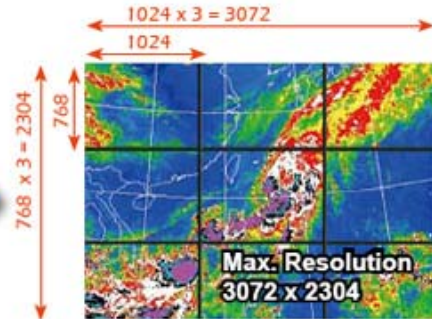


1 Dual-Link
DVI Input



VWBOX-133

9 Single-Link
DVI Output



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

Feature 2: Cost-Effective Large Screen Display Advantage

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.



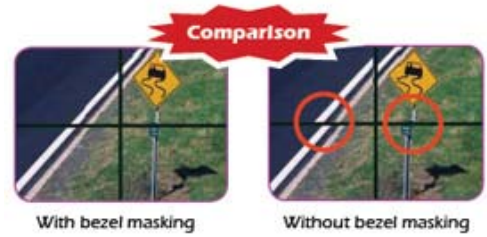
IEI Video Controller Creates High Resolution Large Display Solution through Low-Cost Small Size Displays



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.



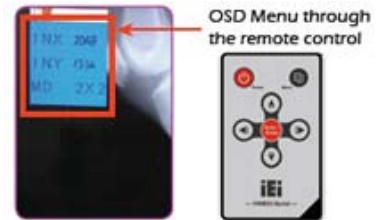
Feature 4: Color Matching Function

The automatic color matching function optimizes the image quality on all displays. The uniform calibration enables the optimal color temperature of each pixel, allowing the best display result. With the color matching function, the display images can be more vivid and more colorful for video wall application.



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.



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



*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 | VWBOX-133 |
|-------------|---|---|
| Features | 1. Mode choice 2. Software OSD 3. Remote control 4. Color adjustment 5. Automatically optimized image | 1. Mode choice 2. Software OSD 3. Remote control 4. Color adjustment 5. Automatically optimized image |
| Box Size | Height: 47 mm (with rubber foot: 53.4 mm) Depth : 178.2 mm Width : 229.5 mm | Height: 47 mm (with rubber foot: 53.4 mm) Depth : 188.6 mm Width : 294.75 mm |
| 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 |
| | 1 x DVI input | 1 x DVI input |

| | | | | |
|-------------------------|---|------------------------------|---|------------------------------|
| Rear Panel | 4 x DVI output 1 x Power (in) with lock 1 x RS-232 1 x Power switch 1 x Syn in 1 x Syn out | | 9 x DVI output 1 x Power (in) with lock 1 x RS-232 1 x Power switch 1 x Syn in 1 x Syn out | |
| Resolution | Input | Output | Input | Output |
| Clone | 1920 x 1080 @ 60Hz | (1 x 1920 x 1080 @ 50Hz) * 4 | 1920 x 1080 @ 60Hz | (1 x 1920 x 1080 @ 50Hz) * 9 |
| Clone | 1920 x 1200 @ 60Hz | (1 x 1920 x 1200 @ 50Hz) * 4 | 1920 x 1200 @ 60Hz | (1 x 1920 x 1200 @ 50Hz) * 9 |
| Split | 2048 x 768 @ 60Hz | (2 x 1024 x 768 @ 60Hz) * 2 | 3072 x 768 @ 41Hz | (3 x 1024 x 768 @ 60Hz) * 3 |
| Split | 2560 x 1024 @ 60Hz | (2 x 1280 x 1024 @ 60Hz) * 2 | 3840 x 1024 @ 30Hz | (3 x 1280 x 1024 @ 60Hz) * 3 |
| Split | 3840 x 1080 @ 40Hz | (2 x 1920 x 1080 @ 50Hz) * 2 | | |
| Split | 3840 x 1200 @ 40Hz | (2 x 1920 x 1200 @ 50Hz) * 2 | | |
| VideoWall | 2048 x 1536 @ 60Hz | (4 x 1024 x 768 @ 60Hz) * 1 | 2048 x 1536 @ 60Hz | (4 x 1024 x 768 @ 60Hz) * 1 |
| VideoWall | 2560 x 2048 @ 50Hz | (4 x 1280 x 1024 @ 60Hz) * 1 | 2560 x 2048 @ 50Hz | (4 x 1280 x 1024 @ 60Hz) * 1 |
| VideoWall | 3840 x 2160 @ 24Hz | (4 x 1920 x 1080 @ 50Hz) * 1 | 3840 x 2160 @ 24Hz | (4 x 1920 x 1080 @ 50Hz) * 1 |
| VideoWall | 3840 x 2400 @ 25Hz | (4 x 1920 x 1200 @ 50Hz) * 1 | 3840 x 2400 @ 25Hz | (4 x 1920 x 1200 @ 50Hz) * 1 |
| VideoWall | | | 3072 x 2304 @ 30Hz | (9 x 1024 x 768 @ 60Hz) * 1 |
| VideoWall | | | 3840 x 2400 @ 25Hz | (9 x 1280 x 800 @ 60Hz) * 1 |
| Power Consumption | 10W (max.) | | 17W (max.) | |
| Power | DC power jack | | DC power jack | |
| Communication Interface | RS-232 control interface | | RS-232 control interface | |
| OSD | 1. Screen number control 2. Support command 3. Switch on/off 4. Color temperature setup 5. Multi-screen display control(real-time) 6. Automatically optimized image 7. Scaling down, Scaling up | | 1. Screen number control 2. Support command 3. Switch on/off 4. Color temperature setup 5. Multi-screen display control(real-time) 6. Automatically optimized image 7. Scaling down, Scaling up | |
| Temperature | 0°C~60°C | | 0°C~60° | |
| Safety & Emission | Meet UL, CE, FCC and CCC | | Meet UL, CE, FCC and CCC | |
| Power Adapter | | | | |
| Power Input | 90VAC~264VAC/ 50Hz~60Hz | | 90VAC~264VAC/ 50Hz~60Hz | |
| Power Output | 12V, 2.1A (max.), 25W | | 12V, 2.1A (max.), 25W | |

Ordering Information

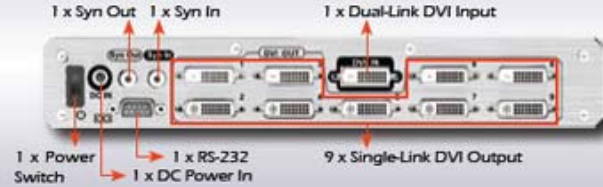
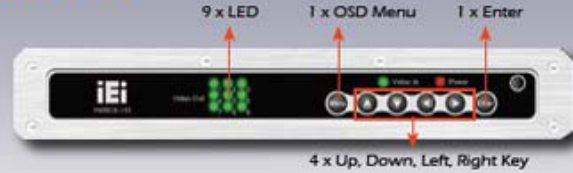
| Model Name | Descriptions |
|---------------|---|
| VWBox-122-R10 | High Resolution Video Wall Control Box, 1 x Dual-Link DVI Input, 4 x Single-Link Output, 2 by 2 display |
| VWBox-133-R10 | High Resolution Video Wall Control Box, 1 x Dual-Link DVI Input, 9 x Single-Link DVI Output, 3 by 3 display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

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. | Description |
|-----------------|--------------------------------------|
| 32000-115700-RS | Dual-link DVI cable (length: 1.8M) |
| 32000-086600-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) |

VWBOX-122**VWBOX-133**

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