

DB-VRC4H

4K HDMI Compact Video Wall Controller with 45 degree screen rotation

The DigiBird® DB-VRC4H Video Wall Controller is the simplest and most cost-effective solution to build an eye-catching and creative video wall. It is an ideal video wall solution for retail stores, shopping malls, restaurants, sport bars, hotel lobbies, trade shows and entertainment venues.



The DB-VRC4H breaks the limitations of the traditional video wall alignment. Unlike traditional video wall controllers or processors, each DB-VRC4H output can be independently flipped or rotated 45°, 90°, 135°, 180°, 225°, 270° or 315°. It also supports the alignment of varying resolutions and display sizes to build an asymmetrical, distinctive video wall. The DB-VRC4H is a compact video wall controller/processor that features one 4K HDMI input which provides stunning 4K UHD input capability, flexibly routing the input to four full HD output displays.

Key Features of the DB-RC4 Video Wall Controller

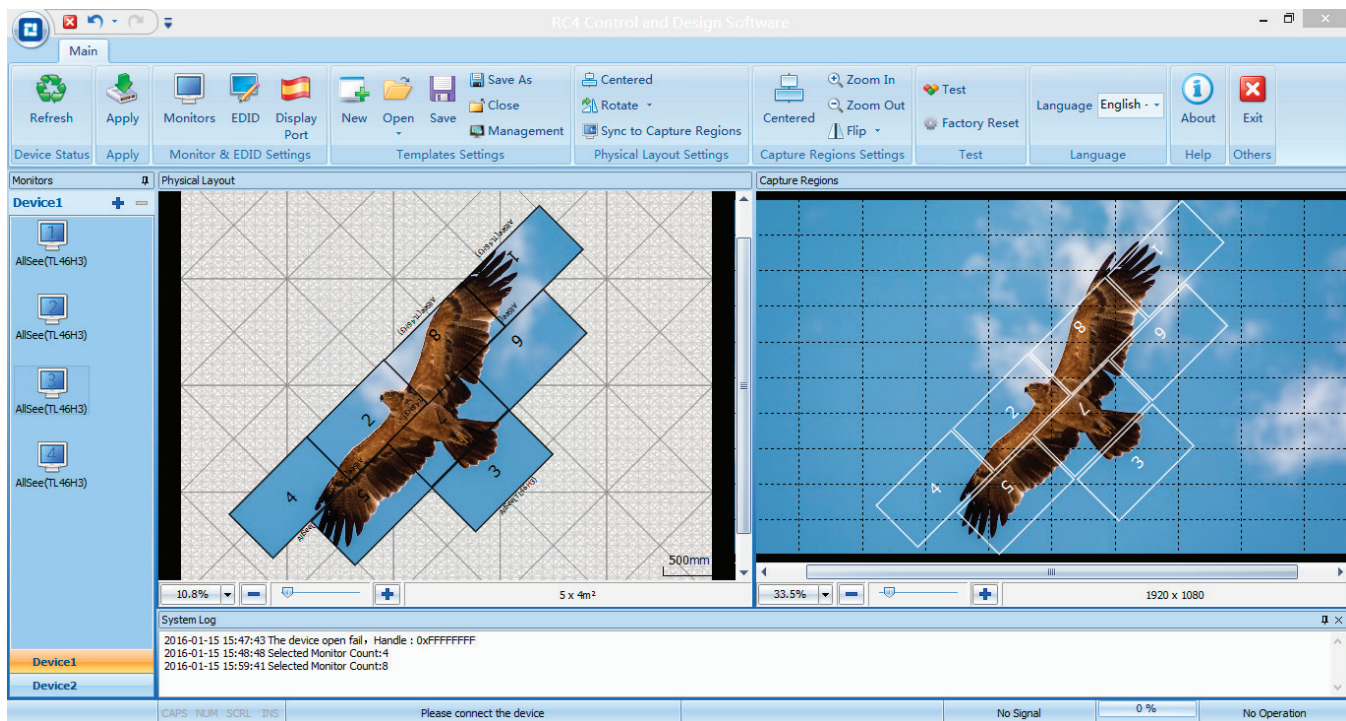
- Controls up to four displays in a wall configuration.
- Cascades multiple units to create walls with more than four displays using the HDMI 1.4 loop out port.
- Automatically compensates for the screen bezels of the video wall.
- Supports image rotation and mirroring. Each output can be independently rotated 45°, 90°, 135°, 180°, 225°, 270°, or 315° and flipped or mirrored horizontally or vertically.
- The displays aligned in the video wall can be of different sizes and of native resolution.
- Supports automatic frame lock. When the timings of the four monitors are the same, genlock will be activated. The genlock feature guarantees fluid motion video and minimizes latency to a single frame.
- Accepts HDMI 1.4 input signal format, HDCP 1.4 compatible, maximum resolution up to 3840×2160@30Hz
- Supports connections to four HDMI displays, and all VESA resolutions up to 1920×1200@60Hz.
- The input source can be cropped at the user's discretion and copied to output monitors. The smallest cropping area is one pixel.
- Embedded HDMI Audio
- Supports flexible EDID management.
- Automatic input and output signal detection.
- Configured using Windows-based software (Windows® XP, Windows® 7, Windows® 8 compatible) installed on a PC connected via USB.
- Durable, steel chassis.

Technical Specifications

Input Connector	(1) HDMI Type A, 19-pin, female, locking
Input Format	HDMI 1.4
Input Resolution	3840×2160@30Hz
Input Clock Rate	297MHz
Input Bandwidth	8.91Gbps
Input/output Sync	Yes, 2 × Ethernet Port
Output Connectors	(4) HDMI Type A, 19-pin, female, locking (1) power connector female (1) USB-B female (1) HDMI Loop Out (1) Ethernet Port
Output Format	HDMI 1.3
Loop Out	HDMI Type A, 19-pin, female, locking, HDMI 1.4
Output Resolution	Up to 1920x1200 60Hz
Output Display Sizes	Different display size for each output channel
LED Indicators	Power, Input, Status
Features	45°, 90°, 135°, 180° 225°, 270° or 315° rotation Unlimited up-scaling for original cropped area EDID management Bezel compensation Cropping Flipping Cascading
Control	USB-B connector (USB 2.0)
Control Software	Windows-based GUI software
Power	Input: 100-240 VAC, 0.8 Amps Output: 12 VDC, ≤ 2 Amps Consumption: ≤ 24 Watts
Operating Humidity	90% non-condensing
Operating Temperature	32° to 104°F (0° to 40°C)
Dimensions (without rackmount)	1.75"H x 8.07"W x 8.39"D (44.5mm x 205mm x 213mm)
Dimensions (with rackmount)	1.75"H x 9.92" W x 8.39" D (44.5mm x 252mm x 213mm)
Package Dimensions	3.74"H x 17.72"W x 12.20"D (95mm x 450mm x 310mm)
Net Weight	2.09 lbs / 0.95 Kg
Shipping Weight	6.33 lbs / 2.87 Kg

DB-VRC4H Control & Design Software

The DB-VRC4H Control and Design Software is a Microsoft® Windows®-based application that is used to control the DB-VRC4H Video Wall Controller from your computer via a USB cable with the DB-VRC4H processor. DB-VRC4H Control and Design Software is included with the DB-VRC4H and available for download at digibirdtech.com.



Features of the Control and Design Software

- The user interface is organized into a series of tasks so that you can easily navigate through them and set up the video wall.
- Supports quick setup. Once the dimension and position of the monitors are set up, the software is able to calculate the display area automatically.
- The monitors in the physical layout and the white frames in the capture regions can be moved by using the up (↑), down (↓), left (←), and right (→) arrows on the keyboard.
- The DB-VRC4H Control and Design Software provides a monitor database, and most well known manufacturers are already included at launch. Users can add their own monitors as well.
- Monitor information such as screen dimensions (in pixels and millimeters), bezel sizes and refresh rates are all included.
- Supports arbitrary cropping of input sources and supports previewing of cropped regions.
- A virtual canvas provides on-screen layout for the video wall where monitors are positioned and rotated.
- Custom video wall configurations can be saved as templates for future use.

Video Wall Layout Examples



Windmill



Doughnut



Asymmetric



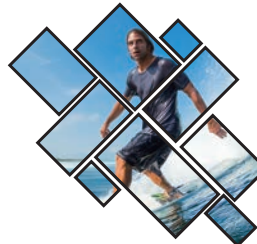
2x2 Layouts



Windmill



Doughnut



Asymmetric



45°



135°



135° & 225°



135° & 315°



Crop Layouts



Matrix Mode



Landscape and Portrait

Connection Diagram

6 screen video wall with 45 degree rotation

