

Video Wall Controller C4



The Video Wall Controller C4 is a stand alone display wall controller that accepts a standard single or dual-link DVI input and can flexibly display this across four output monitors.

Each output can be driven as DVI or analog RGB, and can represent an arbitrary crop region of the original input image. The output resolution and frame rate does not need to be related to that of the input as the Video Wall Controller C4 will optionally upscale and frame-rate convert each cropped region independently. Additionally, each output can be independently mirrored or rotated through 90°, 180° or 270° to support creative mixes of landscape and portrait monitors.

Features

- Supports full bezel width and height correction for all types of displays.
- Ideal for use with edge blending projectors – supports image overlapping.
- Accepts Dual Link DVI, Single Link DVI or HDMI* input. (*HDMI input requires the optional DVI/HDMI Adapter)
- The input EDID is programmable to allow arbitrary input resolutions and frame rates.
- Flexibly drives four displays, each from any selected region of the input image.
- Stand alone operation supports auto-detecting of input resolution and output monitor native resolutions. Output screen configuration is defined by internal non-volatile memory.
- Output configuration is programmable via a USB connection to a PC. Graphical utility allows easy control of cropping, scaling, rotation and gaps.

Genlock

The Video Wall Controller C4 will auto-sense input and output frame rates and automatically genlock when possible. Four identical output monitors will automatically be driven genlocked and if the input timings match they are additionally genlocked and clock-locked to the source signal.

Dual-Link DVI Input supports high resolutions

Dual-Link DVI input will support high resolution pixel-perfect source images for display. The Video Wall Controller C4 can additionally present a default native resolution to the source to allow still higher custom resolutions at reduced frame rate, but still remain within the capabilities of the Dual-Link interface. Most standard graphics card sources will output at this native resolution. Since the Video Wall Controller C4 will scale and frame-rate convert, using a triple-buffered capture architecture, the output monitors can still be driven at their preferred frame rates and resolutions.

Easily Configurable

The Video Wall Controller C4 supports simple editing of custom input and output configurations via a USB connection to a PC. Once configured, the Video Wall Controller C4 will run stand-alone, without the need for the USB connection, and will auto detect input resolutions and adjust internal scaling appropriately to drive the output monitors in a consistent manner.



Supports creative monitor arrangements

Each output monitor can take its input from any region of the input DVI image, since all the required cropping, scaling, rotation and frame-rate conversion is handled by the C4 hardware. These regions can overlap to allow any output to replicate another, or they can be configured to support any creative splice of the source material. This allows the support of many non-rectangular screen arrangements with uneven gaps, and any mix of monitor orientations.

Technical Specifications

Physical	235 x 175 x 44mm
Operating Temperature Range	0 - 35 DegC
Power Requirements	5V DC, 18W
USB 2.0	Full speed (12 Mbit/s)
Video-Input	1x Dual link DVI up to 330Mpixels/s
Video-Output	4x Single link DVI or analog RGB up to 165Mpixels/s

HETEC Datensysteme GmbH
 Franz-Josef-Delonge-Straße 5
 81249 München, Germany
 Tel.: +49 (0)89 - 89 43 67 - 0
 Fax: +49 (0)89 - 89 43 67 - 99
 Email: info@hetec.de
 Web: www.hetec.de