

# iWall

## 4K UHD 4x9 Video Wall Controller

*Model: 409R*





## Overview

The **iWall 409R** is a 4K Ultra HD video wall controller designed by INFOBIT AV. Supports 4x HDMI inputs (1x 4K@60Hz, 3x 4K@30Hz), 1x DP input (4K@60Hz), 9x HDMI outputs (1080p@60Hz), and 1x DP loop out.

A single device, 5 inputs and 9 outputs (compatible with 1 in 9 out), can be combined in any number of video wall layout modes of landscape or portrait installation, and large-scale video wall can be connected by cascading more 409R.

It supports 4 source windows on the whole wall in multiple displaying modes: single image, PIP (Picture in Picture), POP (Picture on Picture), PYP (Picture by Picture: Up-Down or Left-Right side by side) or Quad-view.

It supports maximum input 3840x2160@60Hz and backwards compatible and maximum output 1920x1080@60Hz.

The source can be rotated 90° (only in single picture mode), and the upper image rotated 180° (only under picture by picture side by side by up-down mode).

No stretching, deformation, or compression.

Supports matrix model (single display mode 1x1).

Support IR remote control and serial RS232 control.

Fan-less design: Low power consumption fan-less design.

Inputs can be PC, media player, blue ray, game console and other devices.

Using 40nm high-end programmable FPGA chip, pure hardware real-time processing architecture without delay. Without Window blue screen, virus risks, OS vulnerability, and breakdown. Lower requirements of IT technology background, save your training cost.

## Application

It is mainly used in industrial applications such as ultra-high-definition video surveillance, large-scale video walls, advertising, exhibitions, conference, and digital signage.

## Specifications

<b>Product name</b>	<b>iWall 409R</b>
Input Max. pixel FPS	600MHz
DisplayPort input	1x Display port 1.2 (3840x2160@60Hz)
HDMI inputs	3x HDMI 1.4 (3840x2160@30H)- HDMI IN 1-3 1x HDMI 2.0 (3840x2160@60H)- HDMI IN 4
Output Max. Pixel FPS	165MHz
HDMI outputs	9x HDMI 1.3 (1920*1080@60Hz)
Loop-out	1x Display port 1.2 (3840x2160@60Hz)
Audio output	1x 3.5mm
Control	Remote control, RS232
Factory default resolution	HDMI : 3840*2160@30Hz DP : 3840*2160@60Hz
Support custom resolution	Yes
Operating temperature	0°C-50°C
Power consumption	12W
Power supply	12V@2A AC-DC
Net Weight	840g
Size	270*122.5*20mm WDH
Package list	One DP Cable One 12V@2A AC-DC One remote control
Warranty	3 years

## Supported resolution

Mode	Full screen input resolution	Full screen output resolution	Single screen resolution
1x2	3840x1080@30Hz	3840x1080@60HZ	1920x1080@60HZ
1x3	3840x720@30HZ	5760x1080@60HZ	1920x1080@60HZ

1x4	4096x576@30HZ	7680x1080@60HZ	1920x1080@60HZ
1x5	4080x459@30HZ	9600x1080@30HZ	1920x1080@60HZ
1x6	4032x378@30HZ	11520x1080@60HZ	1920x1080@60HZ
1x7	4032x324@30HZ	13440x1080@60HZ	1920x1080@60HZ
1x8	3968x279@30HZ	15360x1080@60HZ	1920x1080@60HZ
1x9	4032x252@30HZ	17280x1080@60HZ	1920x1080@60HZ
9x1	784x3969@30HZ	1920x9720@60HZ	1920x1080@60HZ
8x1	888x3996@30HZ	1920x8640@60HZ	1920x1080@60HZ
7x1	992x3906@30HZ	1920x7560@60HZ	1920x1080@60HZ
6x1	1184x3996@30HZ	1920x6480@60HZ	1920x1080@60HZ
5x1	1408x3960@30HZ	1920x5400@60HZ	1920x1080@60HZ
4x1	1776x3996@30HZ	1920x4320@60HZ	1920x1080@60HZ
3x1	1920x3240@30HZ	1920x3240@60HZ	1920x1080@60HZ
2x1	1920x2160@30HZ	1920x2160@60HZ	1920x1080@60HZ
2x2	3840x2160@30HZ	3840x2160@60HZ	1920x1080@60HZ

2x3	3840x1440@30HZ	5760x2160@60HZ	1920x1080@60HZ
2x4	4096x1152@30HZ	7680x2160@60HZ	1920x1080@60HZ
3x2	2816x2376@30HZ	3840x3240@60HZ	1920x1080@60HZ
3x3	3840x2160@30HZ	5760x3240@60HZ	1920x1080@60HZ
4x2	2688x3024@30HZ	3840x4320@60HZ	1920x1080@60HZ

Table 2 iWall 409R Cascade Mode Supported Resolution

Mode	Full screen input resolution	Full screen output resolution	Single screen resolution
5x2	2336x3285@30HZ	3840x5400@60HZ	1920x1080@60HZ
6x2	1920x3240@30HZ	3840x6480@60HZ	1920x1080@60HZ
7x2	2016x3969@30HZ	3840x7560@60HZ	1920x1080@60HZ
8x2	1776x3996@30HZ	3840x8640@60HZ	1920x1080@60HZ
9x2	1568x3969@30HZ	3840x9720@60HZ	1920x1080@60HZ
2x5	4080x918@30HZ	9600x2160@60HZ	1920x1080@60HZ
2x6	4080x765@30HZ	11520x2160@60HZ	1920x1080@60HZ
2x7	4088x657@30HZ	13440x2160@60HZ	1920x1080@60HZ
2x8	4096x576@30HZ	15360x2160@60HZ	1920x1080@60HZ
2x9	4032x504@30HZ	17280x2160@60HZ	1920x1080@60HZ
3x4	4096x1728@30HZ	7680x3240@60HZ	1920x1080@60HZ
3x5	4080x1377@30HZ	9600x3240@60HZ	1920x1080@60HZ
3x6	4032x1134@30HZ	11520x3240@60HZ	1920x1080@60HZ
3x7	4032x972@30HZ	13440x3240@60HZ	1920x1080@60HZ
3x8	4096x864@30HZ	15360x3240@60HZ	1920x1080@60HZ
3x9	4032x756@30HZ	17280x3240@60HZ	1920x1080@60HZ
6x3	2640x2970@30HZ	5760x6480@60HZ	1920x1080@60HZ



7x3	2112x2772@30HZ	5760x7560@60HZ	1920x1080@60HZ
8x3	2160x3240@30HZ	5760x8640@60HZ	1920x1080@60HZ
9x3	1728x2916@30HZ	5760x9720@60HZ	1920x1080@60HZ
4x4	4096x2304@30HZ	7680x4320@60HZ	1920x1080@60HZ
4x5	4080x1836@30HZ	9600x4320@60HZ	1920x1080@60HZ
4x6	4032x1512@30HZ	11520x4320@60HZ	1920x1080@60HZ
5x5	4080x2295@30HZ	9600x5400@60HZ	1920x1080@60HZ
2x11	4048x414@30HZ	21120x2160@60HZ	1920x1080@60HZ
2x12	4032x378@30HZ	23040x2160@60HZ	1920x1080@60HZ
2x13	3952x342@30HZ	24960x2160@60HZ	1920x1080@60HZ