

This guide provides information regarding the possible limitations (based on product series) encountered when building video walls with N-Series products.

N2300

The N2300 series has a built-in video wall function that is used to crop the image. The video wall function has a built-in limitation of 16x8 (rows x columns).

The video wall for the N2300 has been tested and passed under the following circumstances from a 1x1 to a 16x8 video wall:

1. 2160p30 input with Decoders scaled to 1080p60
2. 2160p30 input with Decoders scaled to 2160p30
3. 1080p input with Decoders scaled to 1080p60

N2400/N2050

The N2400 series and N2050 series have no known video wall/crop limitations. Video walls up to 10x10 have been successfully tested as well as single digit crop references. It is recommended that any attempts at a wall greater than 10x10 should be verified before installation/purchase.

N1x22/N1x33 MPC/Non MPC and N2x22/N2x35

The following limitations were found using Wall Builder within N-Command, with either an input of 1080p60 with the Decoders scaled to 1080p60 or an input of 720p60 with the Decoders scaled to 720p60:

Non-square video walls can have a higher number of rows or columns as long as one of the values is the max value or lower (i.e., you could setup a 10x12 wall but not an 11x12 wall). A maximum value is currently not known for a non-square video wall.

TABLE 1 Video Wall Size Guide (1080p Input Resolution)

N-Series	Square Wall Size (Max)	Non-Square Wall Limitations
N1000 MPC	10x10	Yx10 or 10xY (where Y is any number)
N1000 Non-MPC	10x10	Yx10 or 10xY (where Y is any number)
N2x22	10x10	Yx10 or 10xY (where Y is any number)
N2x35	10x10	Yx10 or 10xY (where Y is any number)

TABLE 2 Video Wall Size Guide (720p Input Resolution)

N-Series	Square Wall Size (Max)	Non-Square Wall Limitations
N1000 MPC	7x7	Yx10 or 10xY (where Y is any number)
N1000 Non-MPC	7x7	Yx10 or 10xY (where Y is any number)
N2x22	7x7	Yx10 or 10xY (where Y is any number)
N2x35	7x7	Yx10 or 10xY (where Y is any number)

Lowest Crop Parameters

The lowest crop parameters for the N1000 MPC/Non-MPC, N2x22, and N2x35 series are outlined below.

- For a 1080p input resolution with Decoders scaled to 1080p:
 - x2 value must be a minimum of 32 higher than the x1 value.
 - y2 value must be a minimum of 102 higher than the y1 value.
- For a 720p input resolution with Decoders scaled to 720p:
 - x2 value must be a minimum of 46 higher than the x1 value.
 - y2 value must be a minimum of 154 higher than the y1 value.

Should you encounter any problems not covered by these guidelines, please contact technical support via email (svsisupport@harman.com) or call 256.461.7143 x9900.