UNDERSTANDING CONFIGURATION CAPABILITIES

9- & 4-Ouput Leyard Video Controllers

Overview

9-Output vs 4-Output Leyard Video Controller

The new 9-Output Video Controller has some advantages that will be of benefit to many customers:

Rack space required is reduced by 50-66%
Power usage for the entire video wall is reduced by requiring fewer Video Controllers
Less heat generated and fewer points of potential service at the rack
Lower quantity of spare Leyard Video Controllers needed

In certain video wall configurations, using the 4-Output Video Controller will be advantageous. Configuring a video wall with 4-Output Video Controllers will require more Video Controllers and therefore more rack space, power and points of service, but has two main benefits:

More inputs
More zone parts or windows of content supported on the video wall

In summary, the 9-Output Video Controller is the better choice for video walls using Planar Big Picture Plus or a relatively small number of sources. Additionally, the 9-Output Video Controller is a great choice if a matrix switcher or video processor with 4K outputs will be used in the system.

The 4-Output Video Controller will be the best choice where rack space is not a concern and a larger number of directly-attached sources are required and where more content zones or windows on the video wall are desired.

What is a Zone?

Definitions

Zone — a rectangular area of the video wall where you can place one source

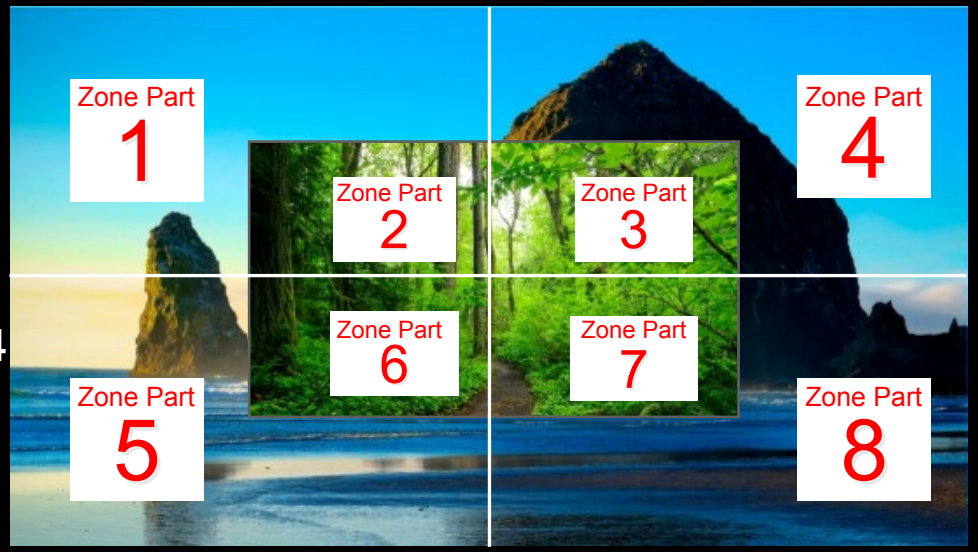
Zone Part — the portion of a Zone within one display

Zones can be:

- Set to any size or position
- Smaller than one panel or bigger
- Even bigger than the video wall
- Overlapped with some limitations

Each VC is limited to 9 zones or zone parts across the 4 displays (4-Output VC) or 9 displays (9-Output VC) that it is driving

Each part of a zone that crosses more than one display counts against this limit, so a single zone that crosses all 4 panels of one 4-Output VC makes 1 zone, comprised of 4 zone parts

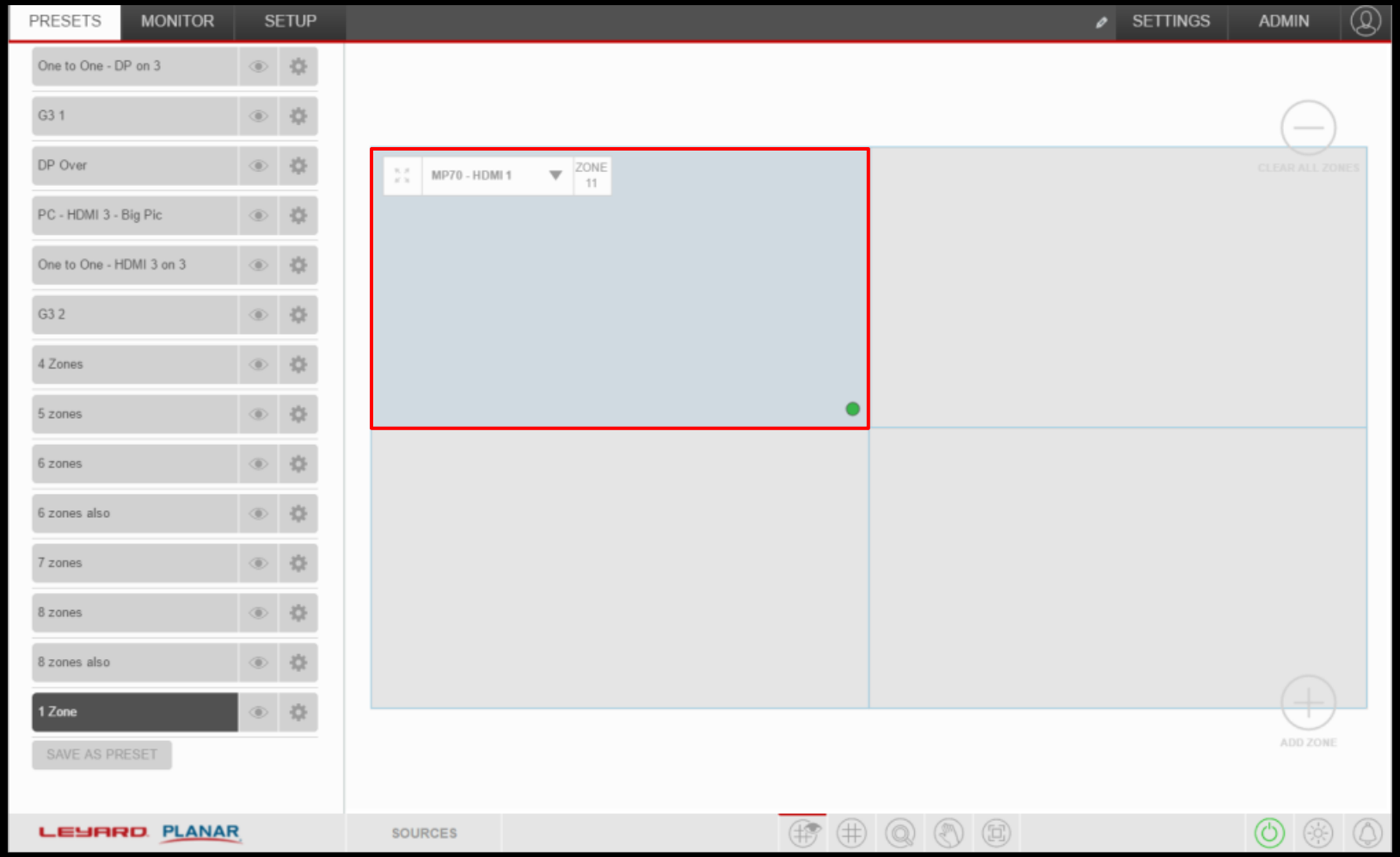


Clarity Matrix G3 2x2 layout

UNDERSTANDING ZONES & ZONE PARTS

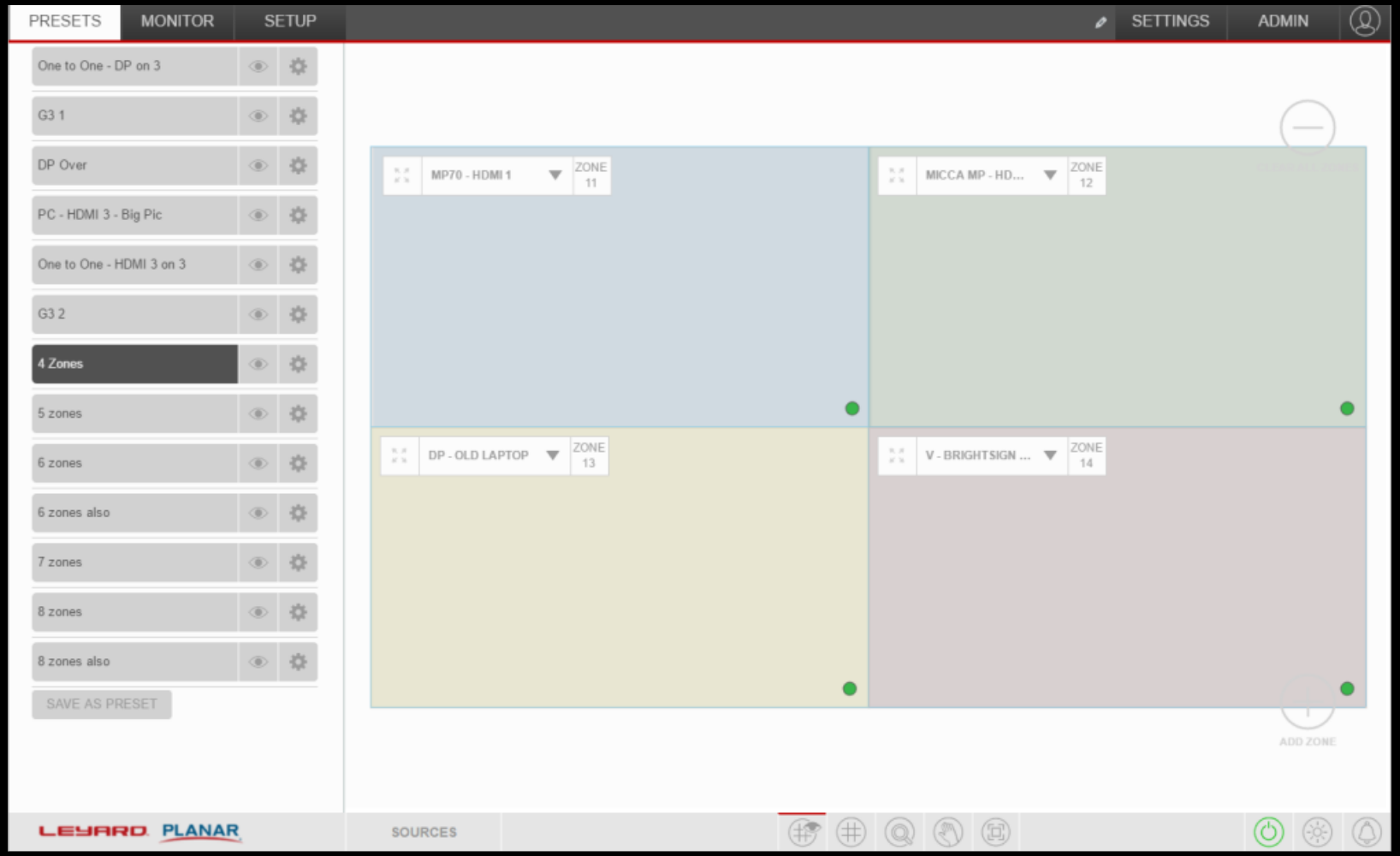
Examples

One Zone



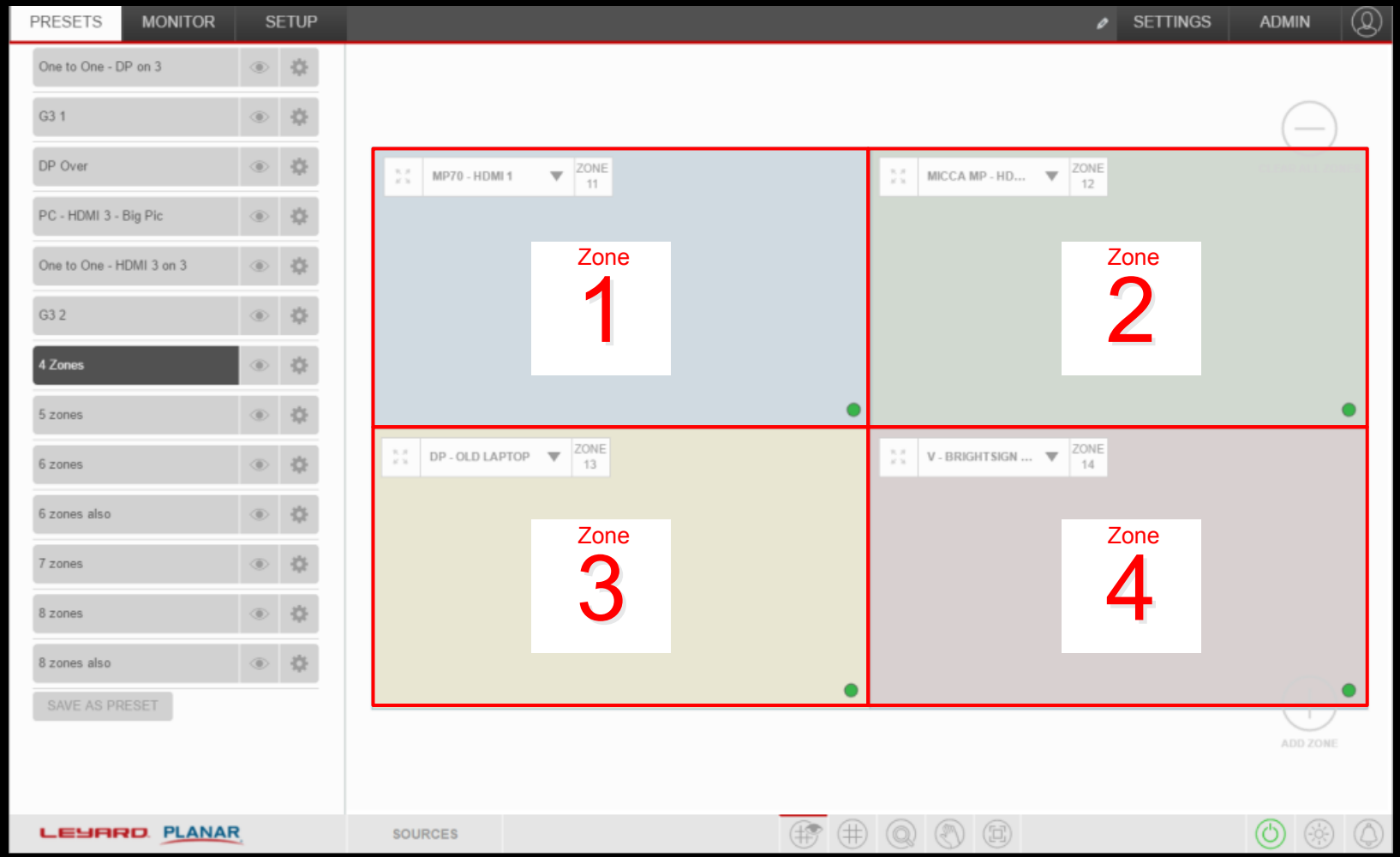
Native 4K 2x2 layout in Leyard WallDirector Software

Four Zones



Native 4K 2x2 layout in Leyard WallDirector Software

Four Zones

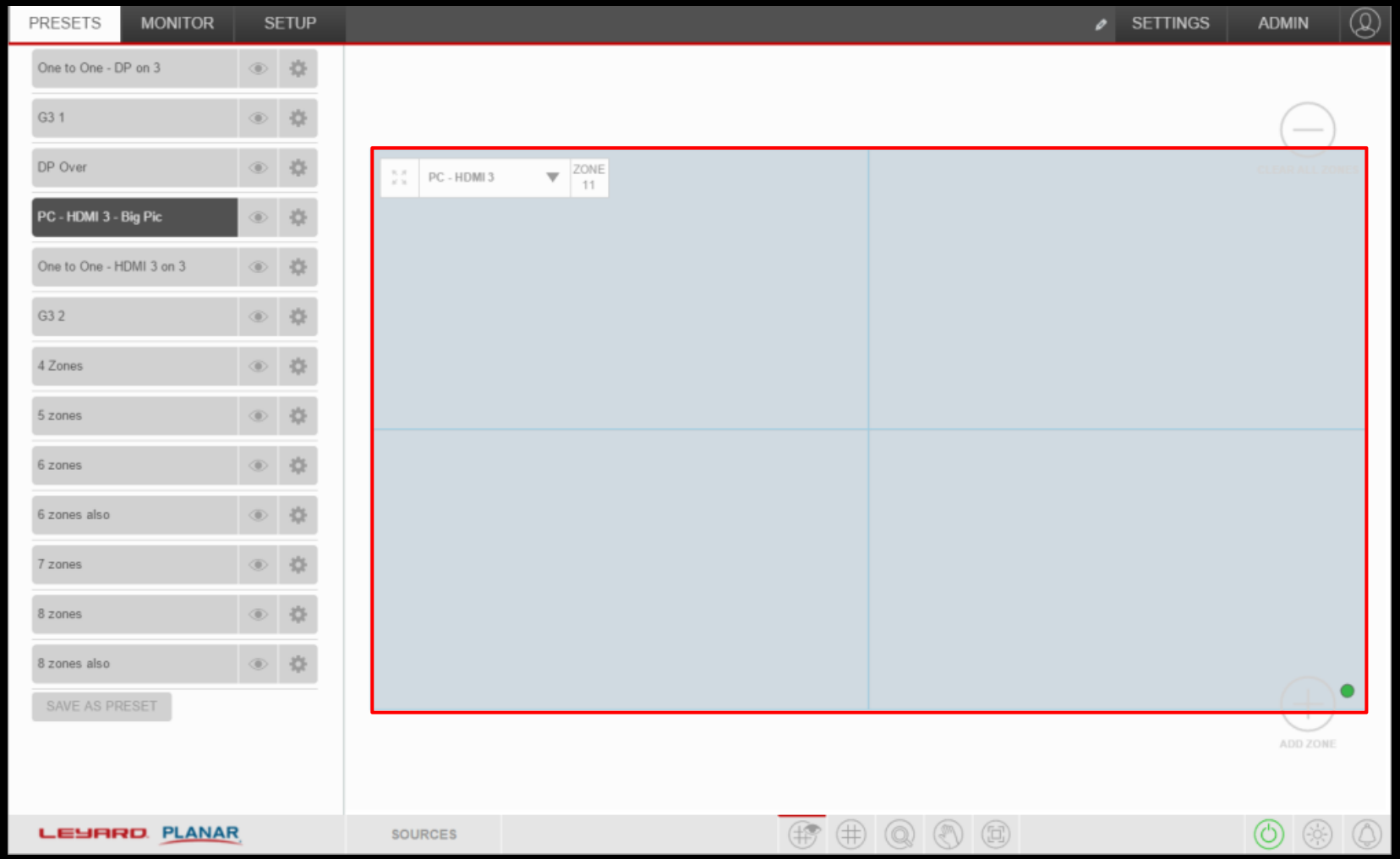


Native 4K 2x2 layout in Leyard WallDirector Software

Four Zones

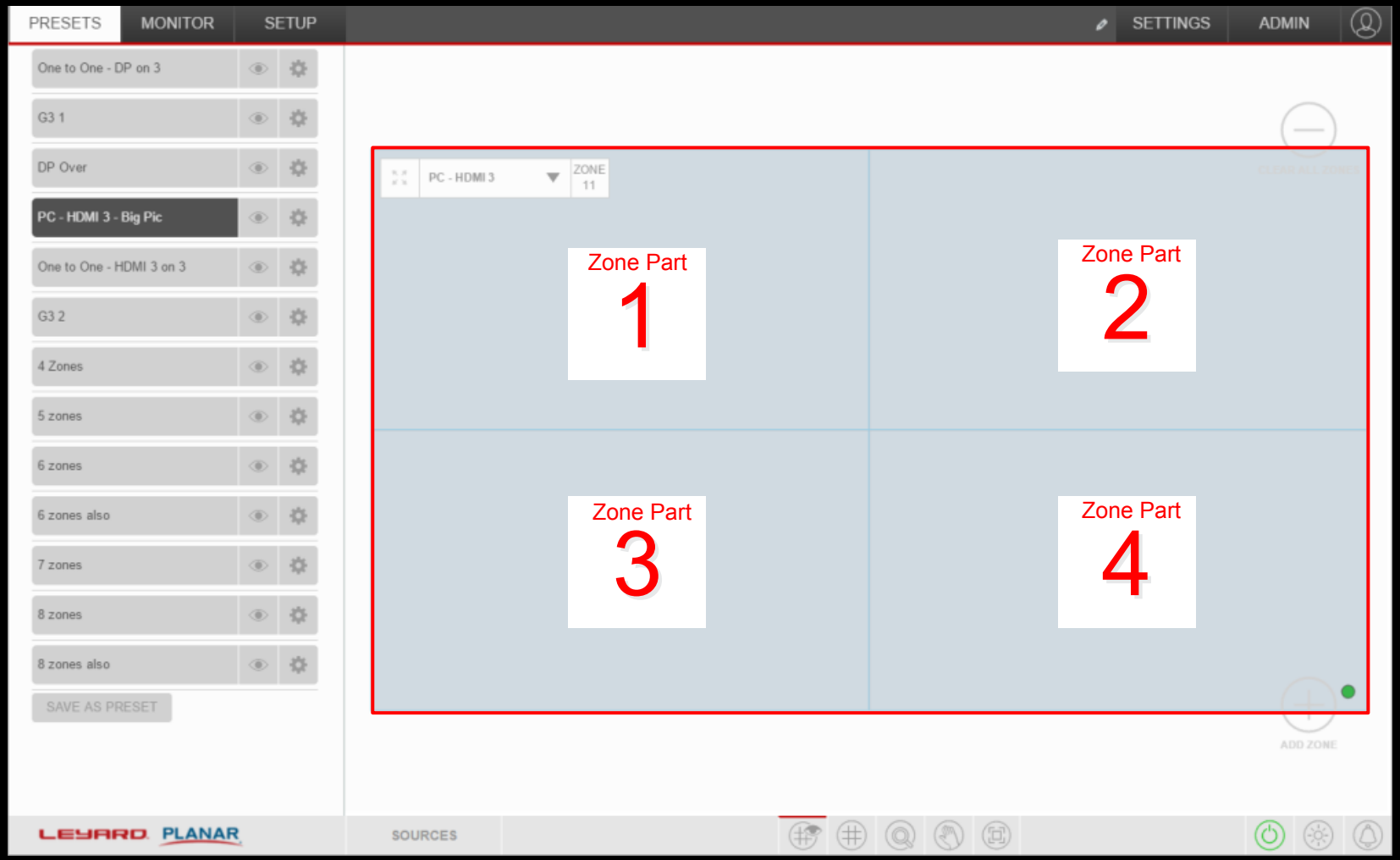
Matrix G3 2x2 wall example

One Zone Using Four Zone Parts



Native 4K 2x2 layout in Leyard WallDirector Software

One Zone Using Four Zone Parts

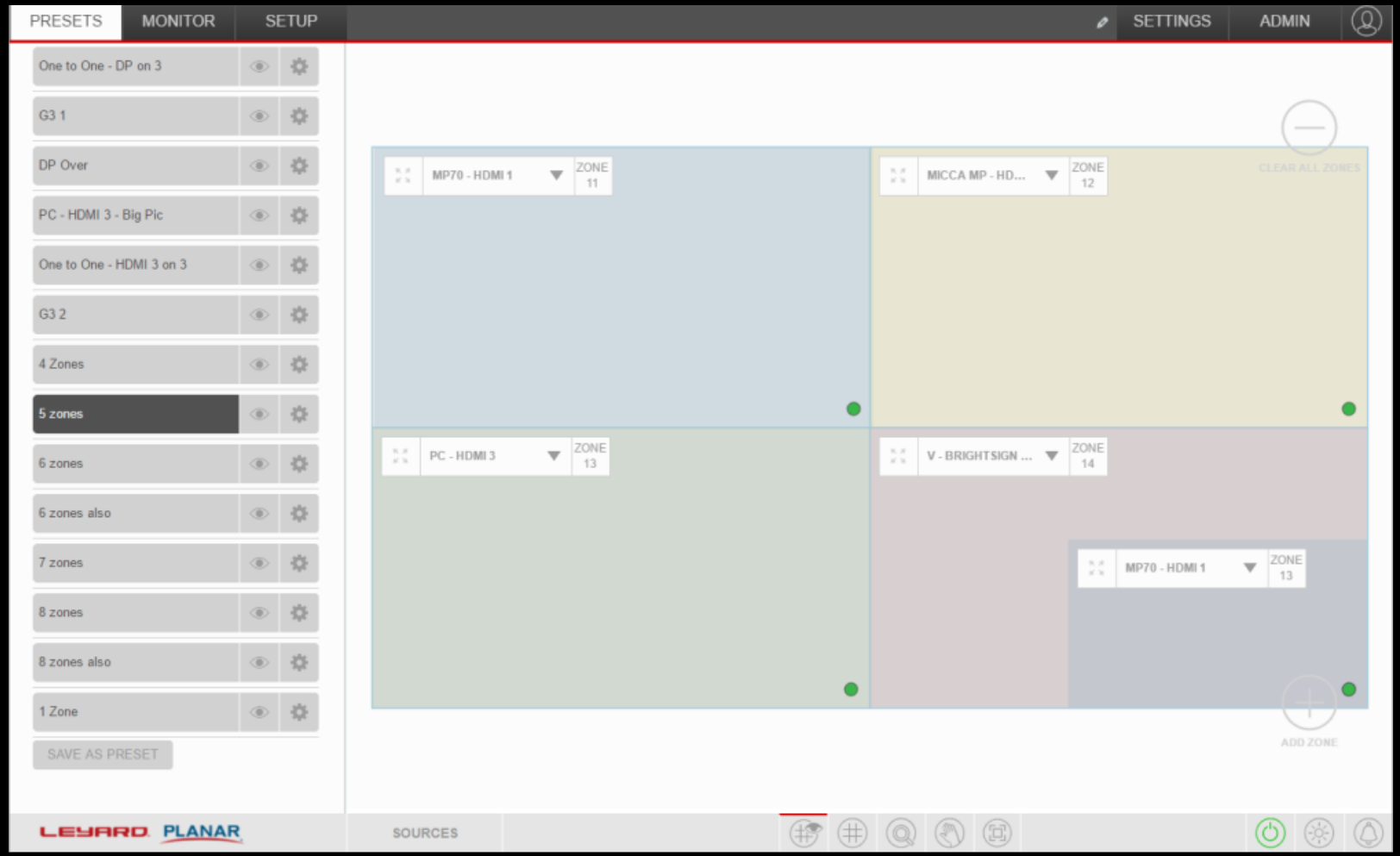


Native 4K 2x2 layout in Leyard WallDirector Software

One Zone Using Four Zone Parts

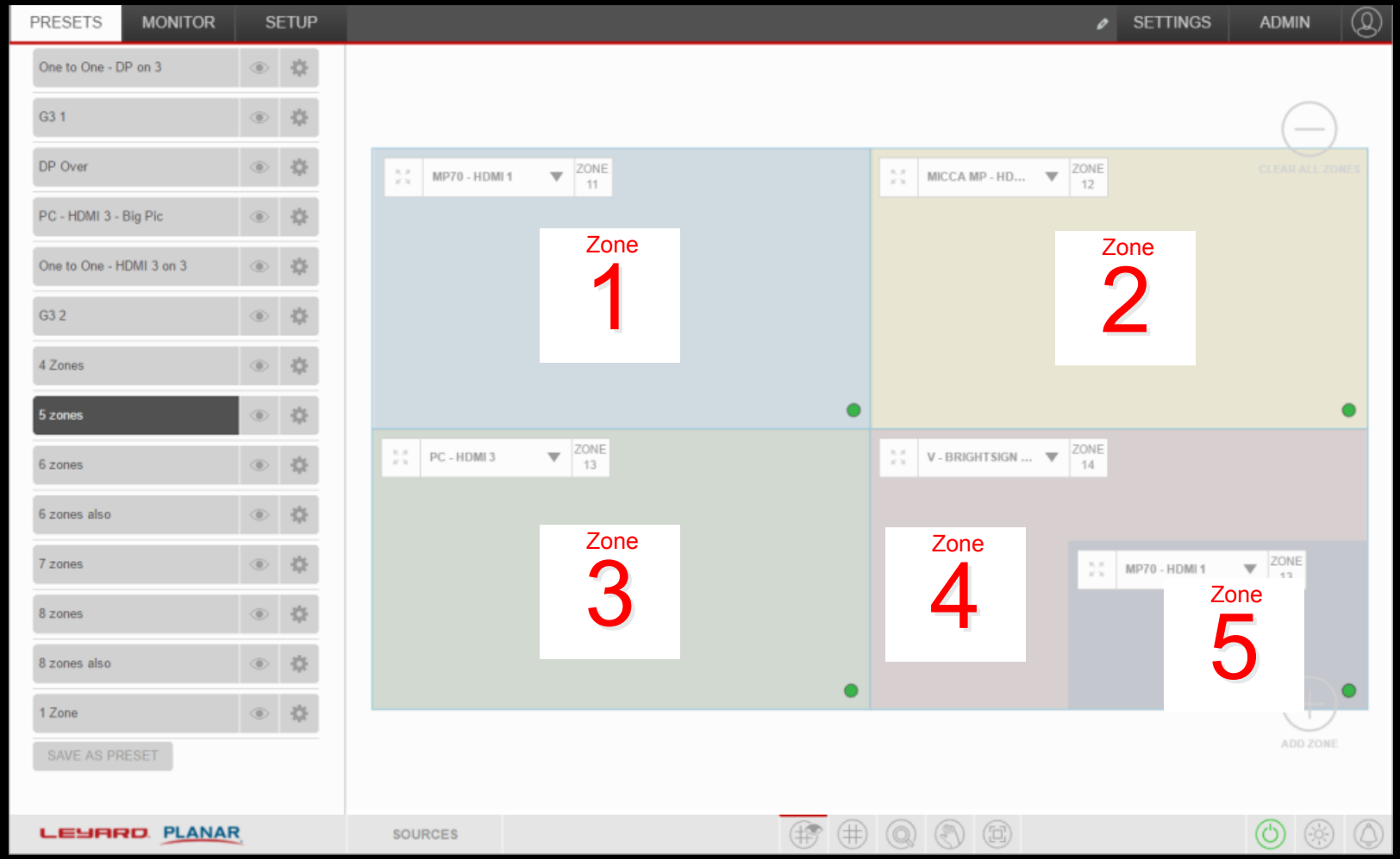
Matrix G3 2x2 wall layout

Five Zones



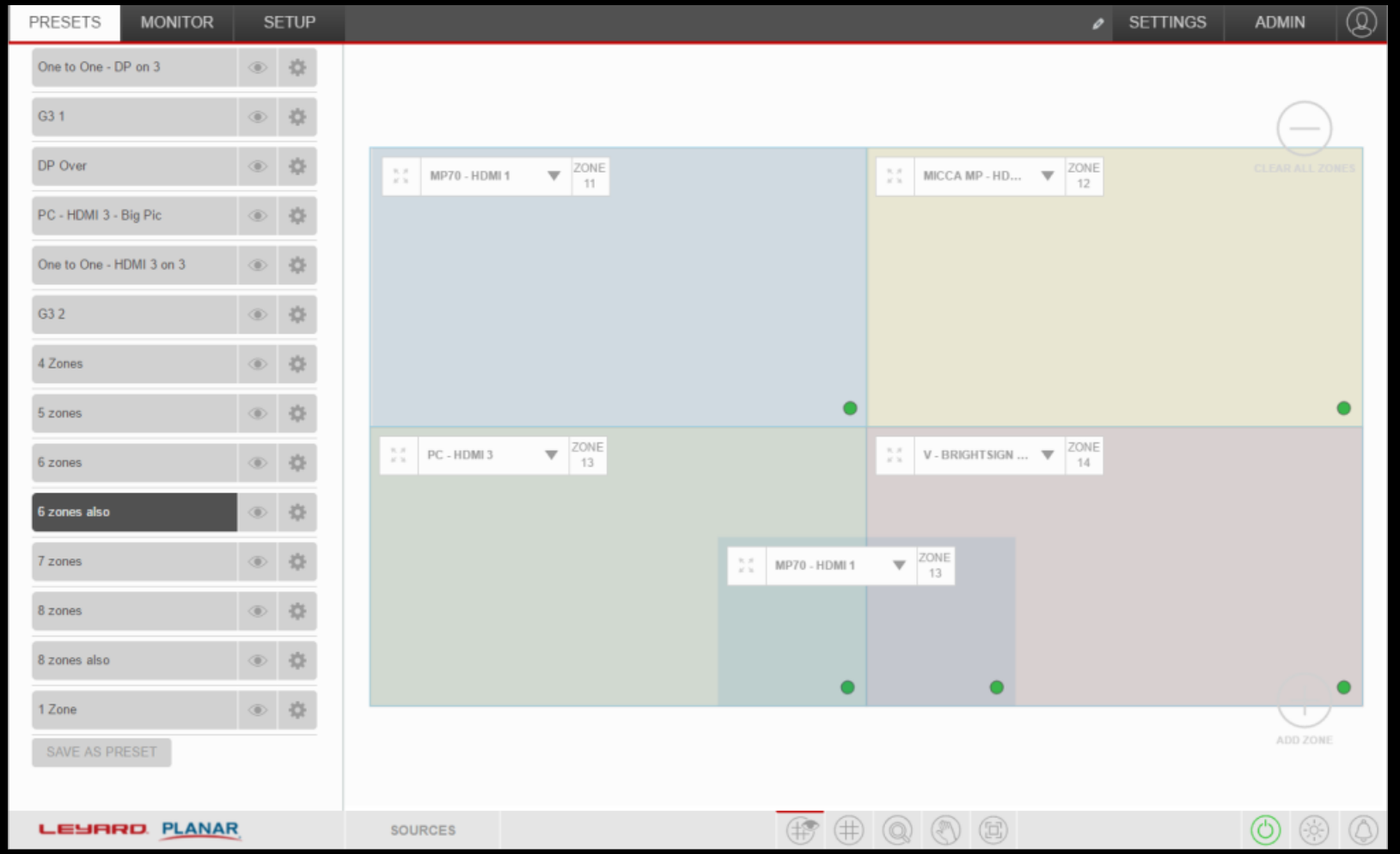
Native 4K 2x2 layout in Leyard WallDirector Software

Five Zones



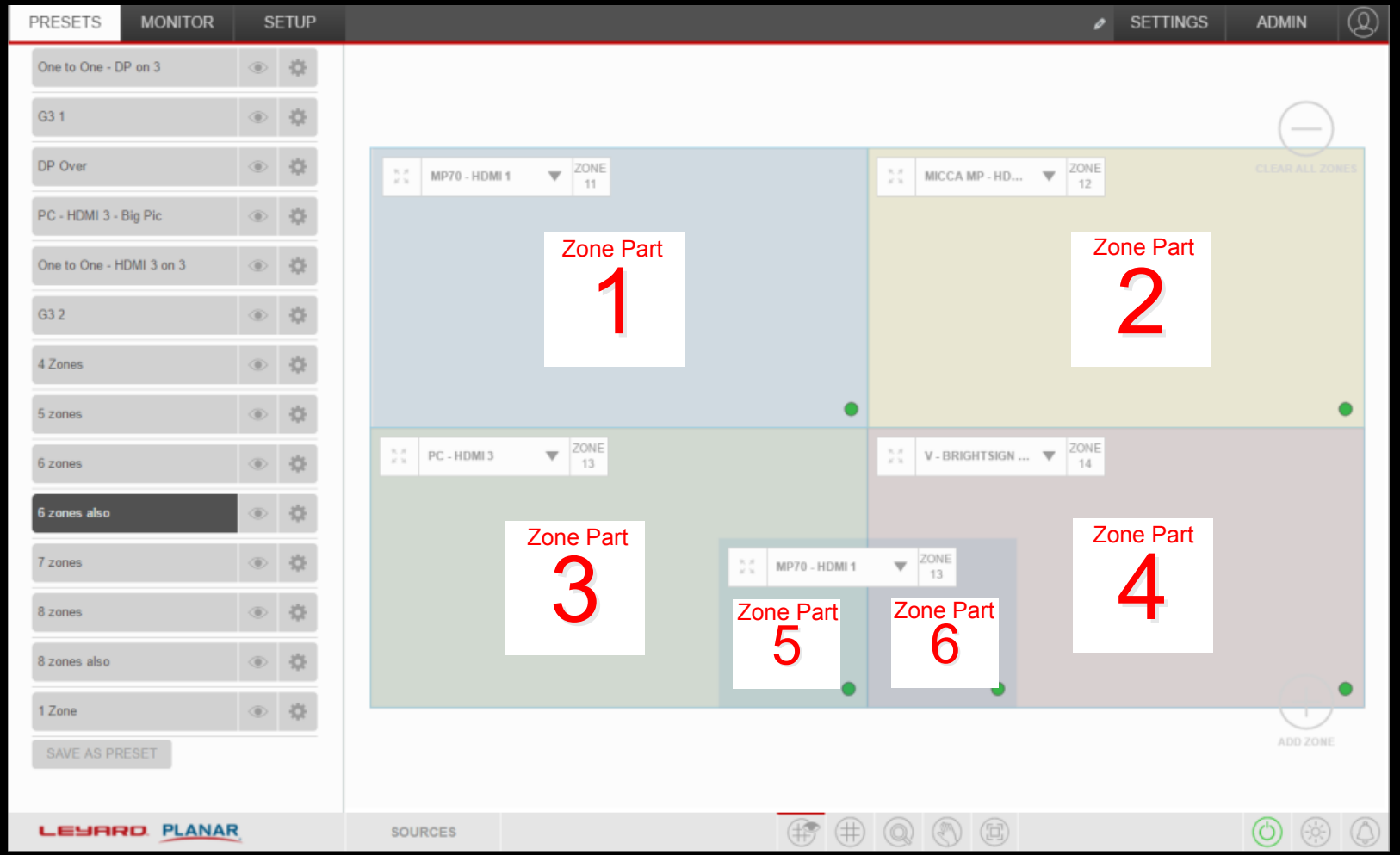
Native 4K 2x2 layout in Leyard WallDirector Software

Five Zones Using Six Zone Parts



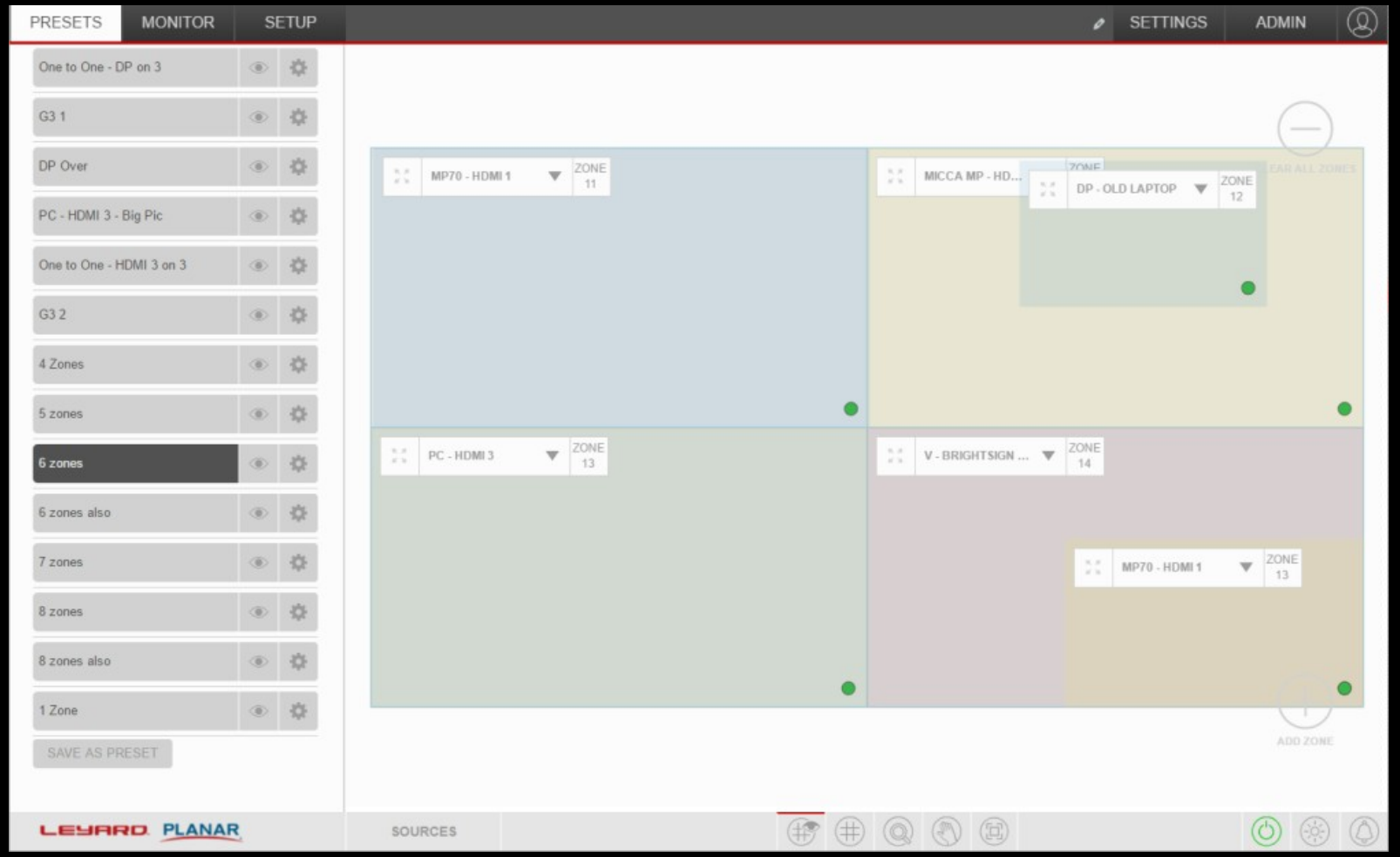
Native 4K 2x2 layout in Leyard WallDirector Software

Five Zones Using Six Zone Parts



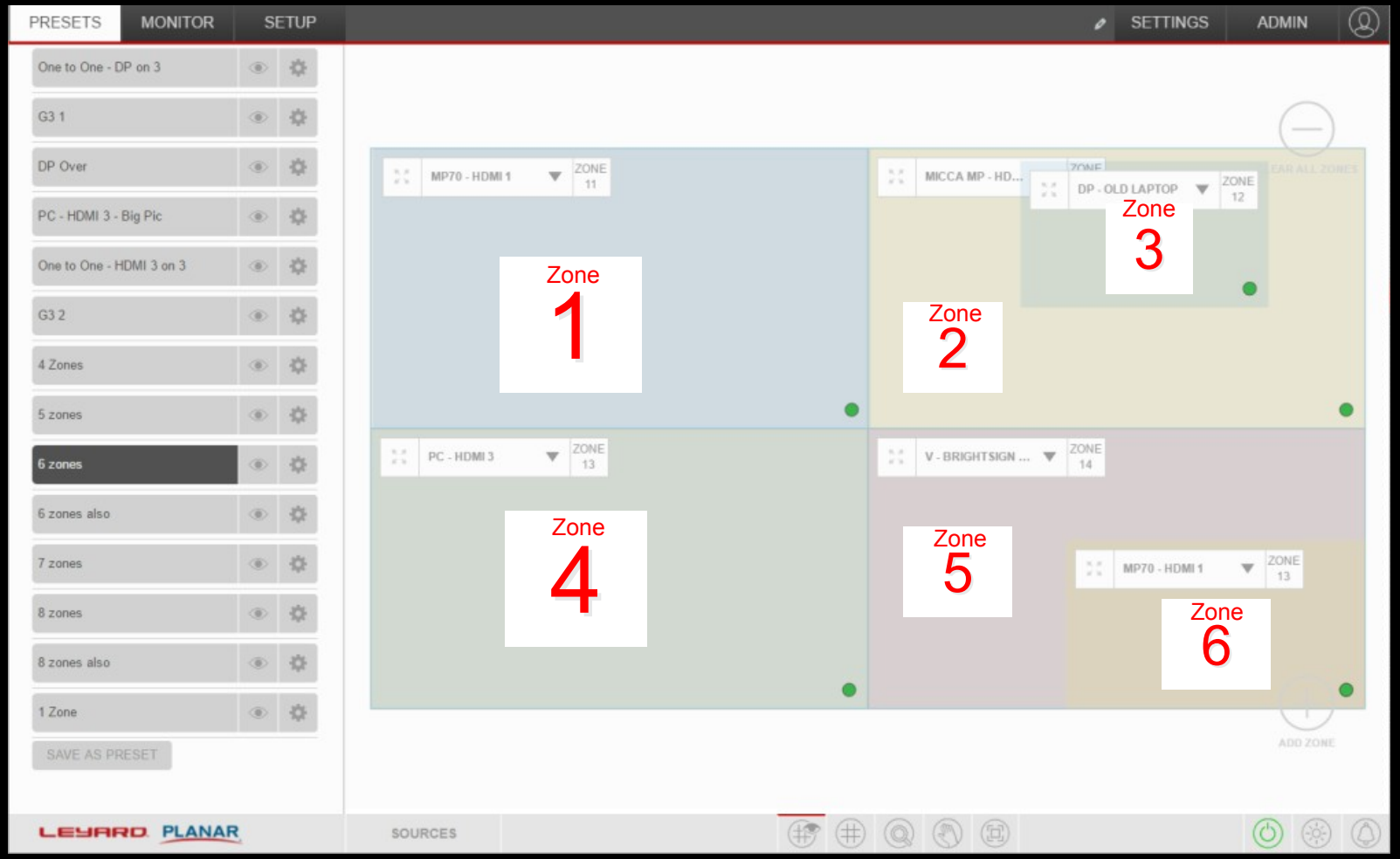
Native 4K 2x2 layout in Leyard WallDirector Software

Six Zones



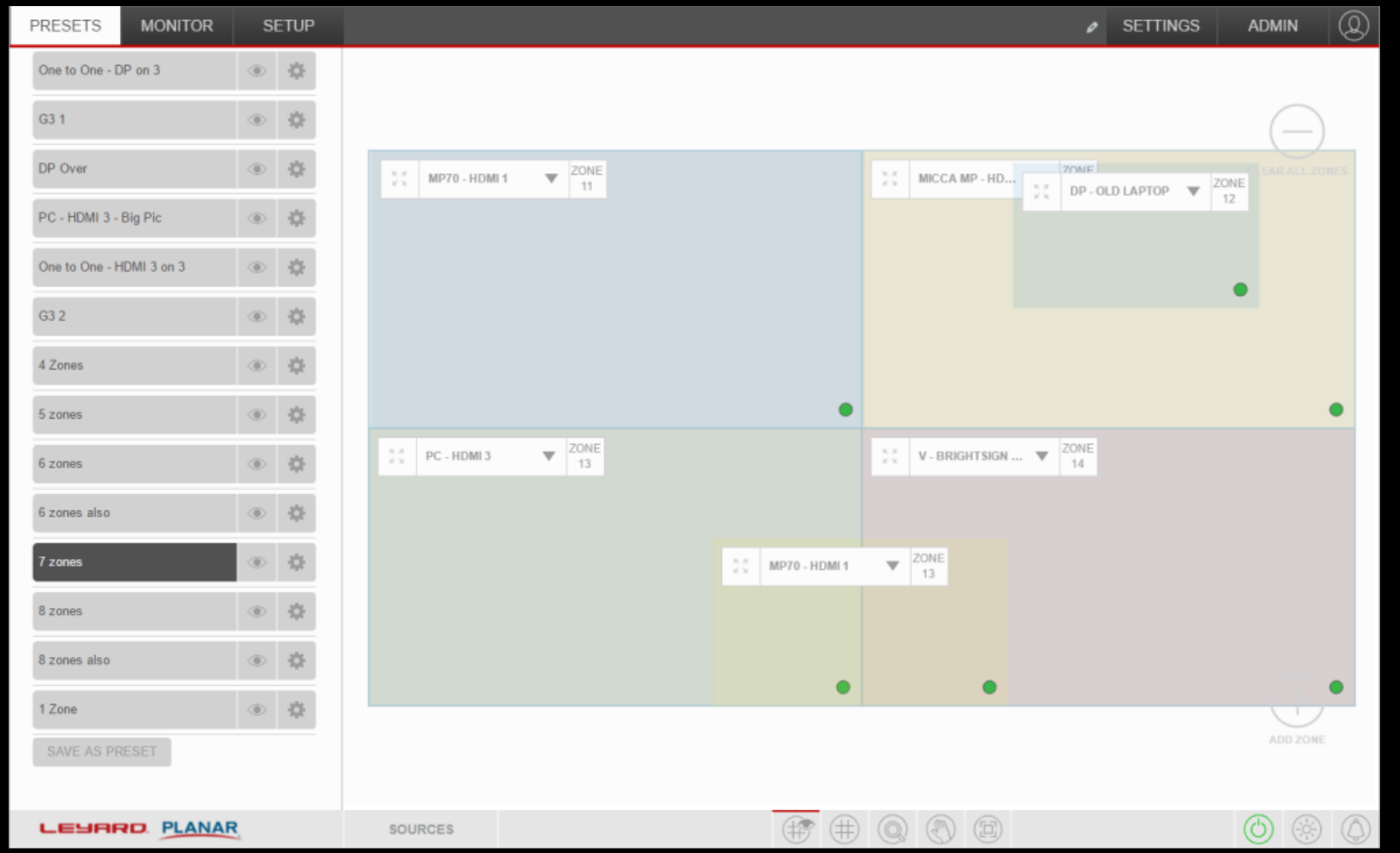
Native 4K 2x2 layout in Leyard WallDirector Software

Six Zones



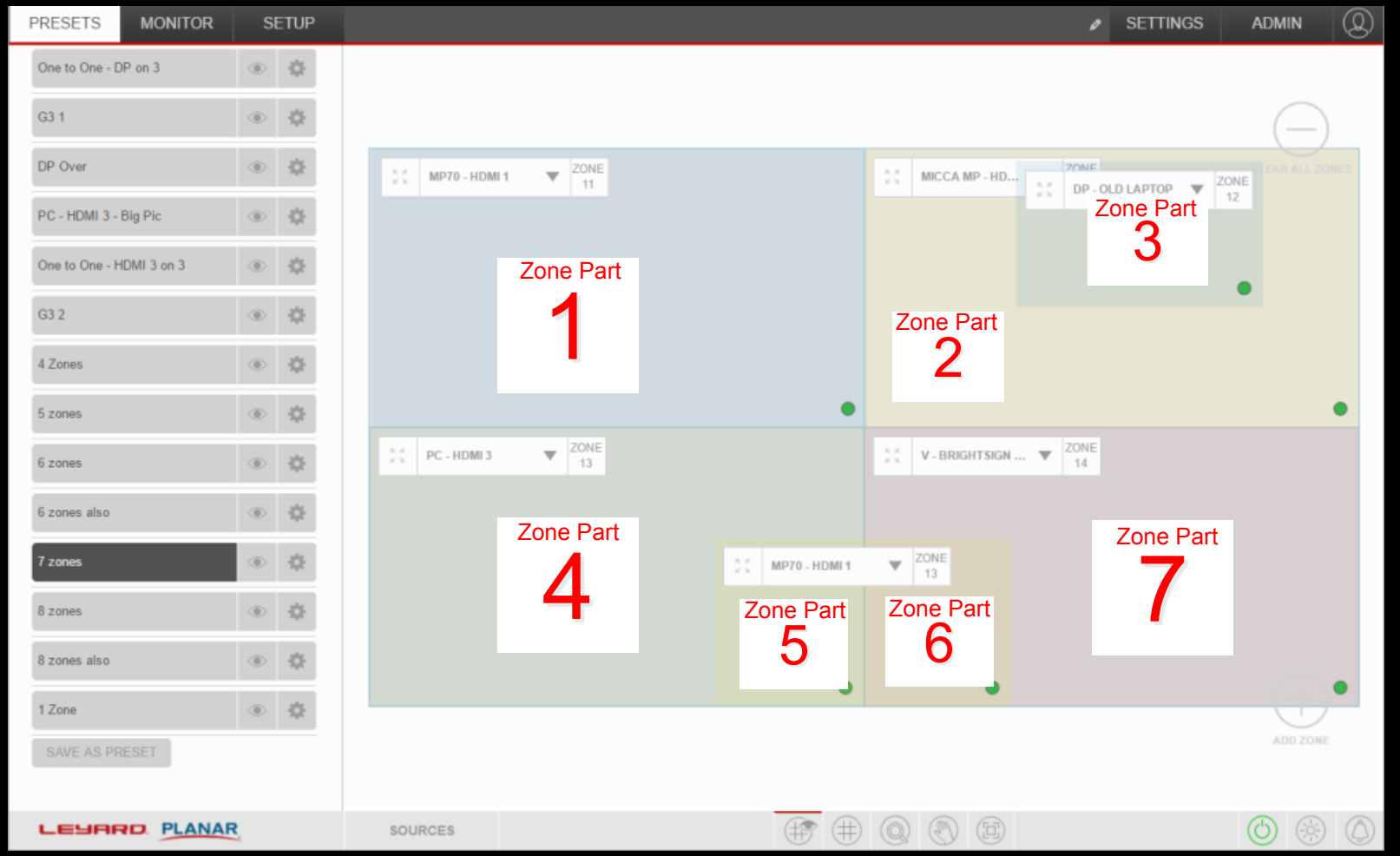
Native 4K 2x2 layout in Leyard WallDirector Software

Six Zones Using Seven Zone Parts



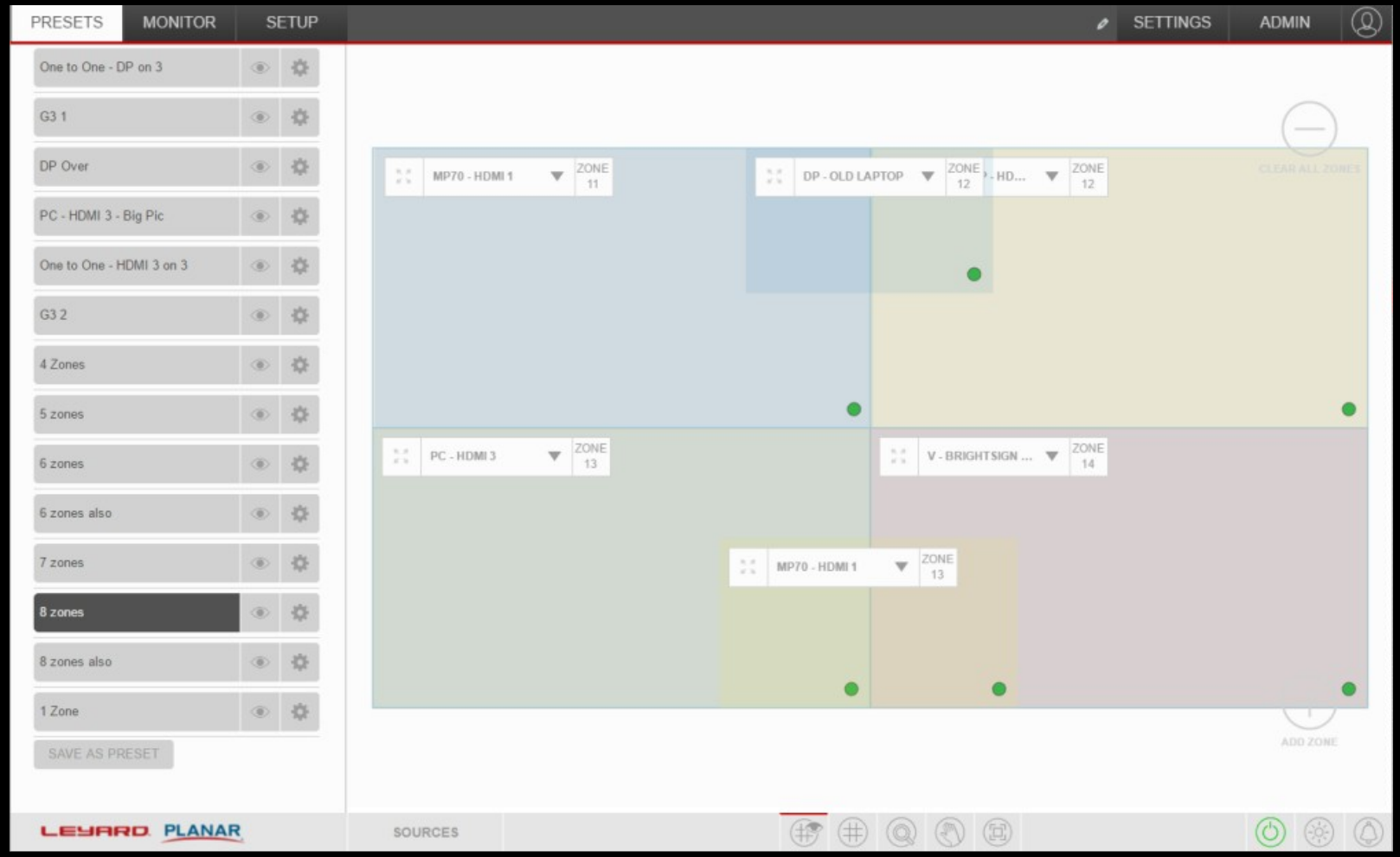
Native 4K 2x2 layout in Leyard WallDirector Software

Six Zones Using Seven Zone Parts



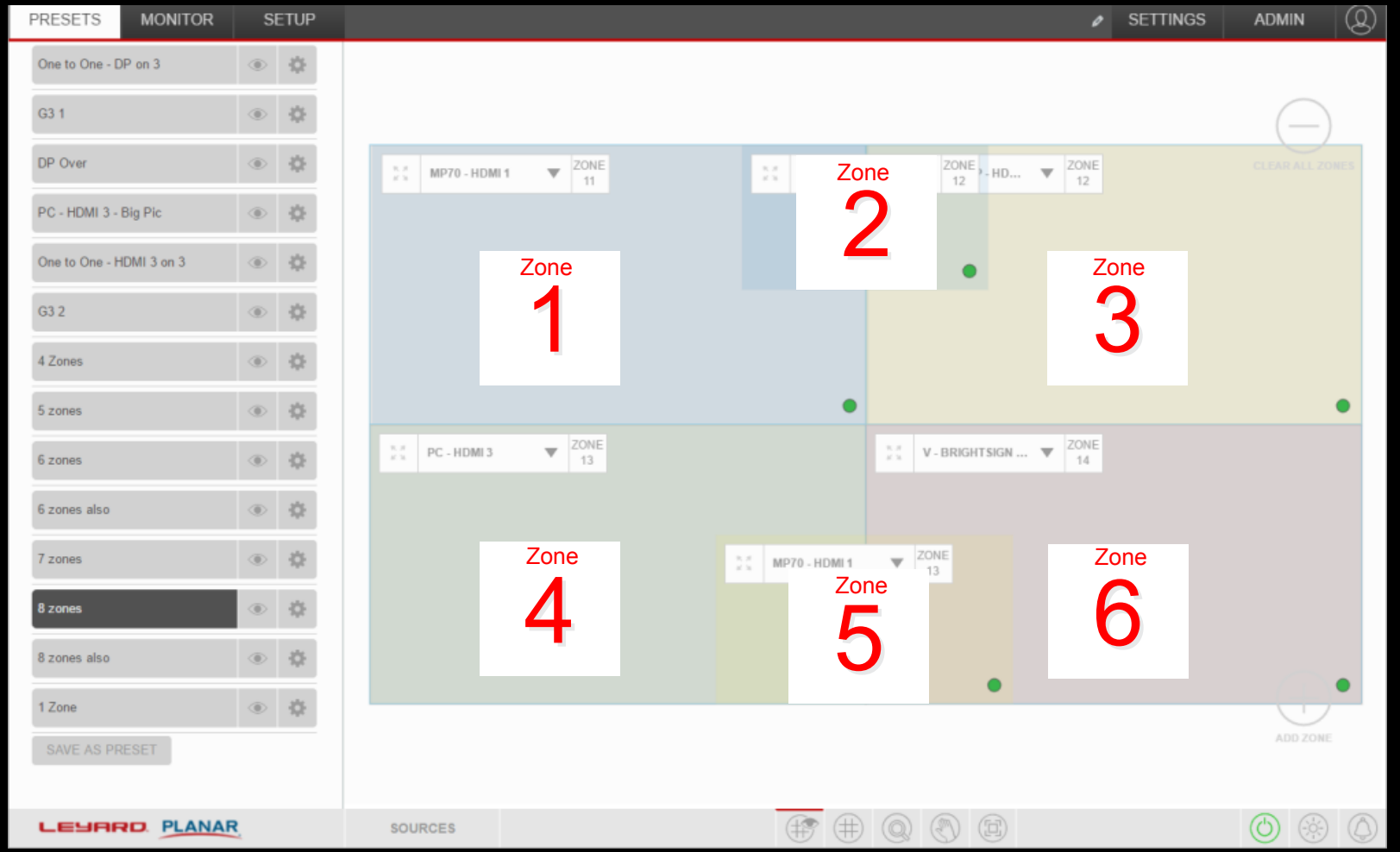
Native 4K 2x2 layout in Leyard WallDirector Software

Six Zones



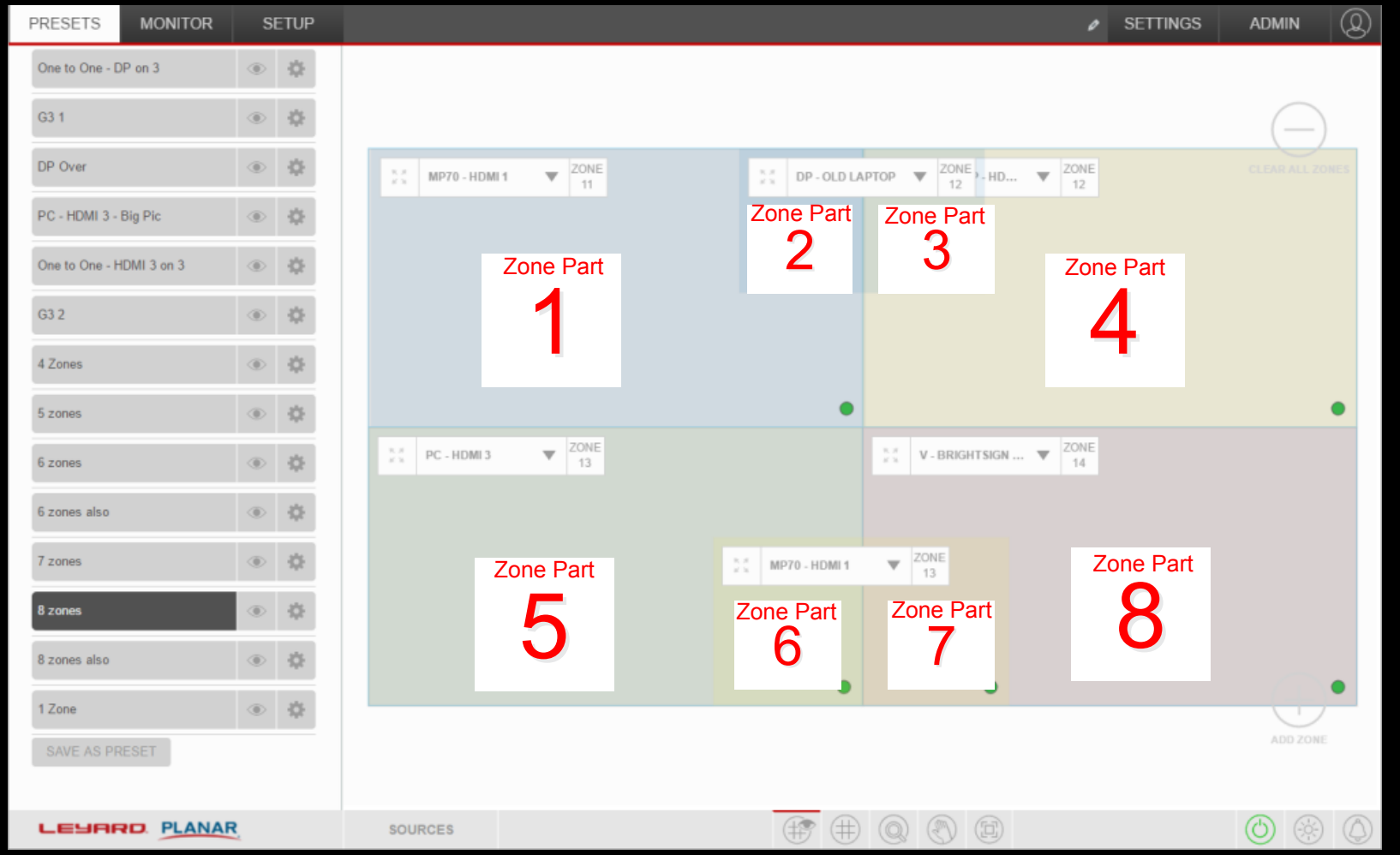
Native 4K 2x2 layout in Leyard WallDirector Software

Six Zones



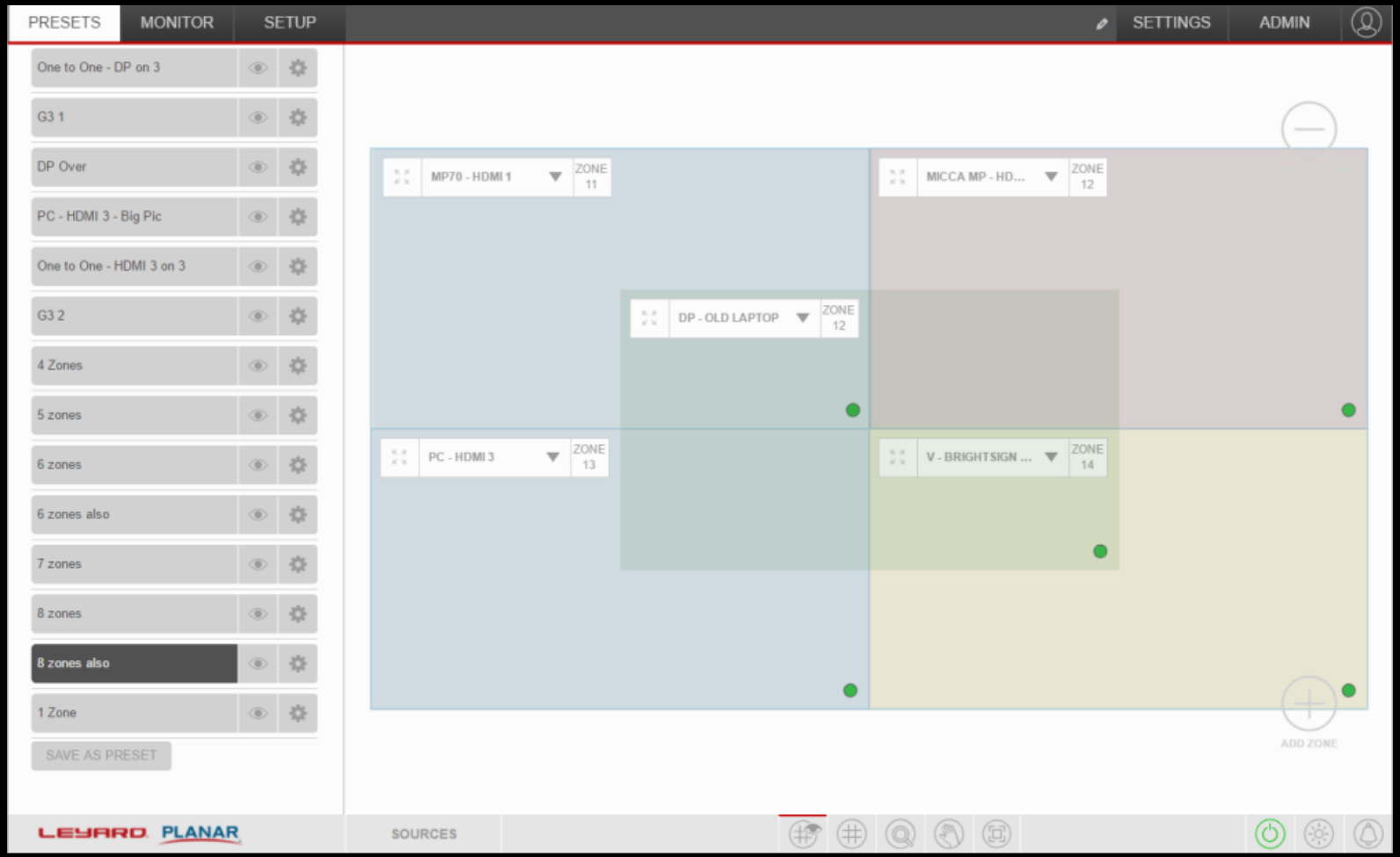
Native 4K 2x2 layout in Leyard WallDirector Software

Six Zones Using Eight Zone Parts



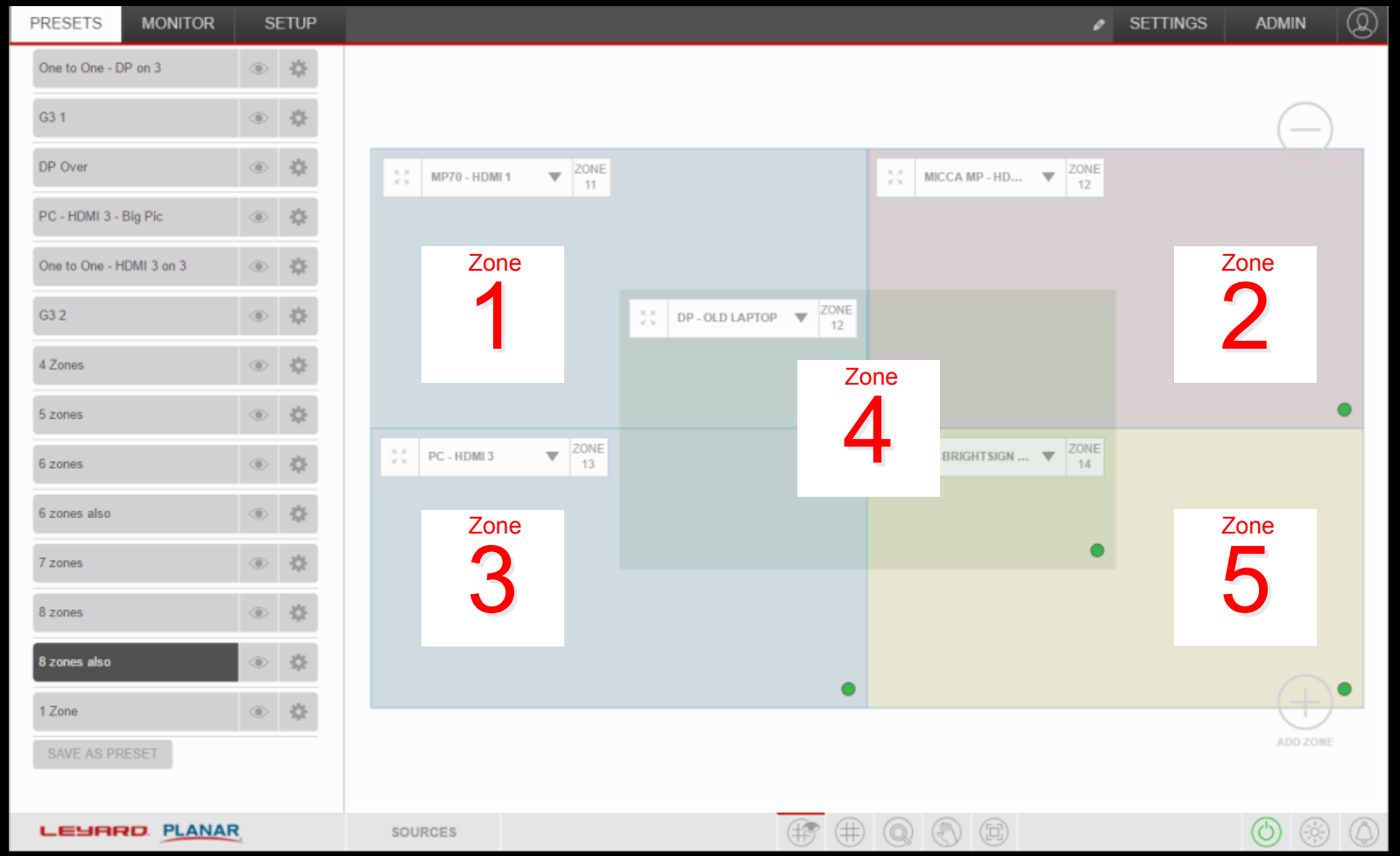
Native 4K 2x2 layout in Leyard WallDirector Software

Five Zones



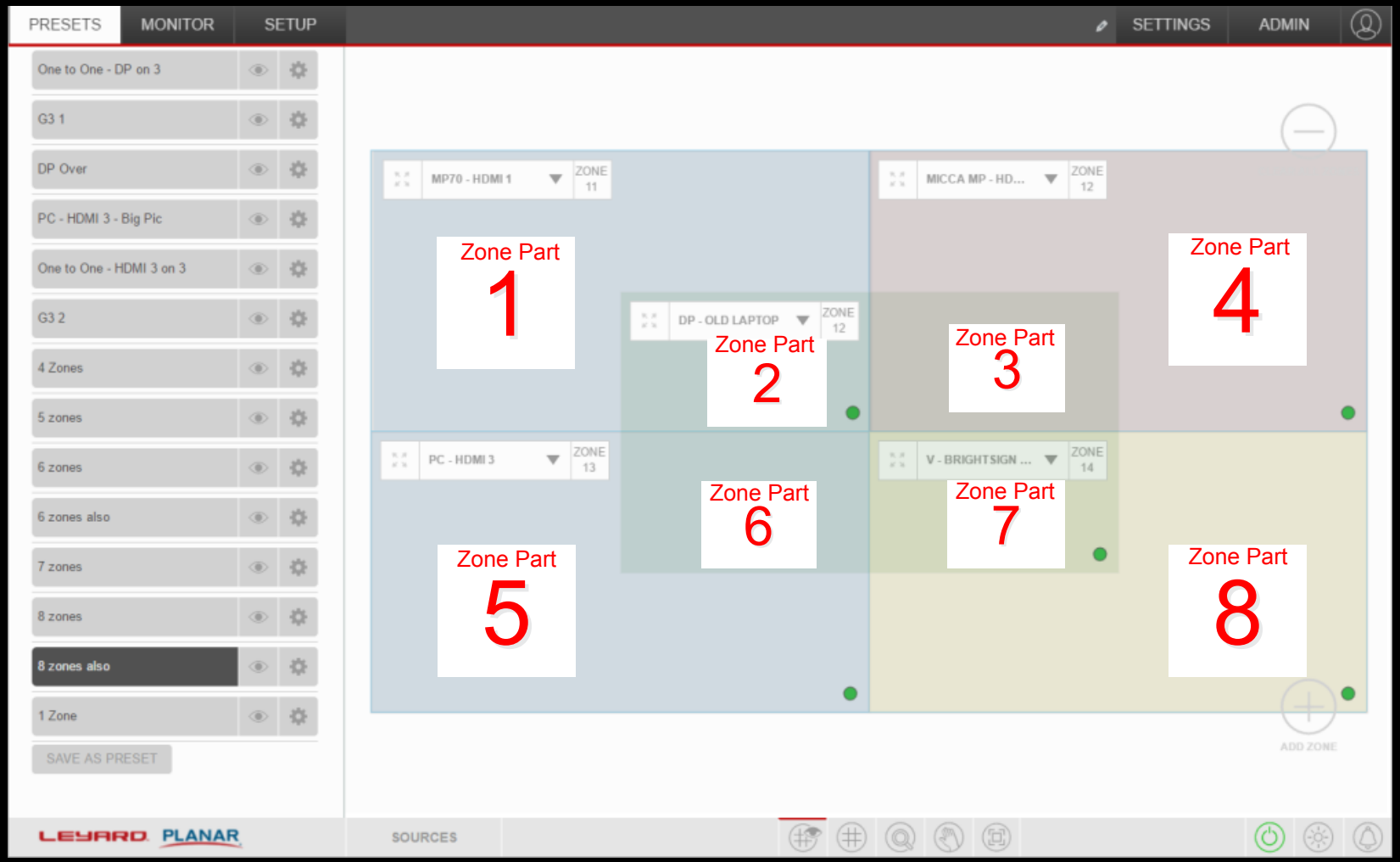
Native 4K 2x2 layout in Leyard WallDirector Software

Five Zones



Native 4K 2x2 layout in Leyard WallDirector Software

Five Zones Using Eight Zone Parts



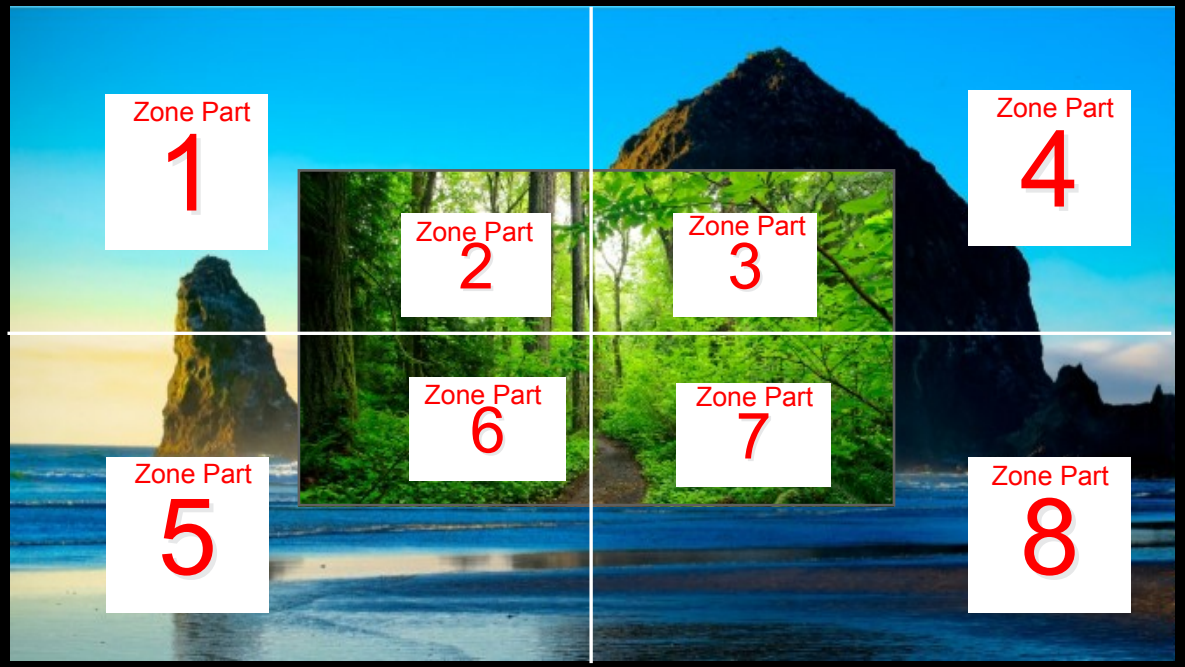
Native 4K 2x2 layout in Leyard WallDirector Software

Two Zones

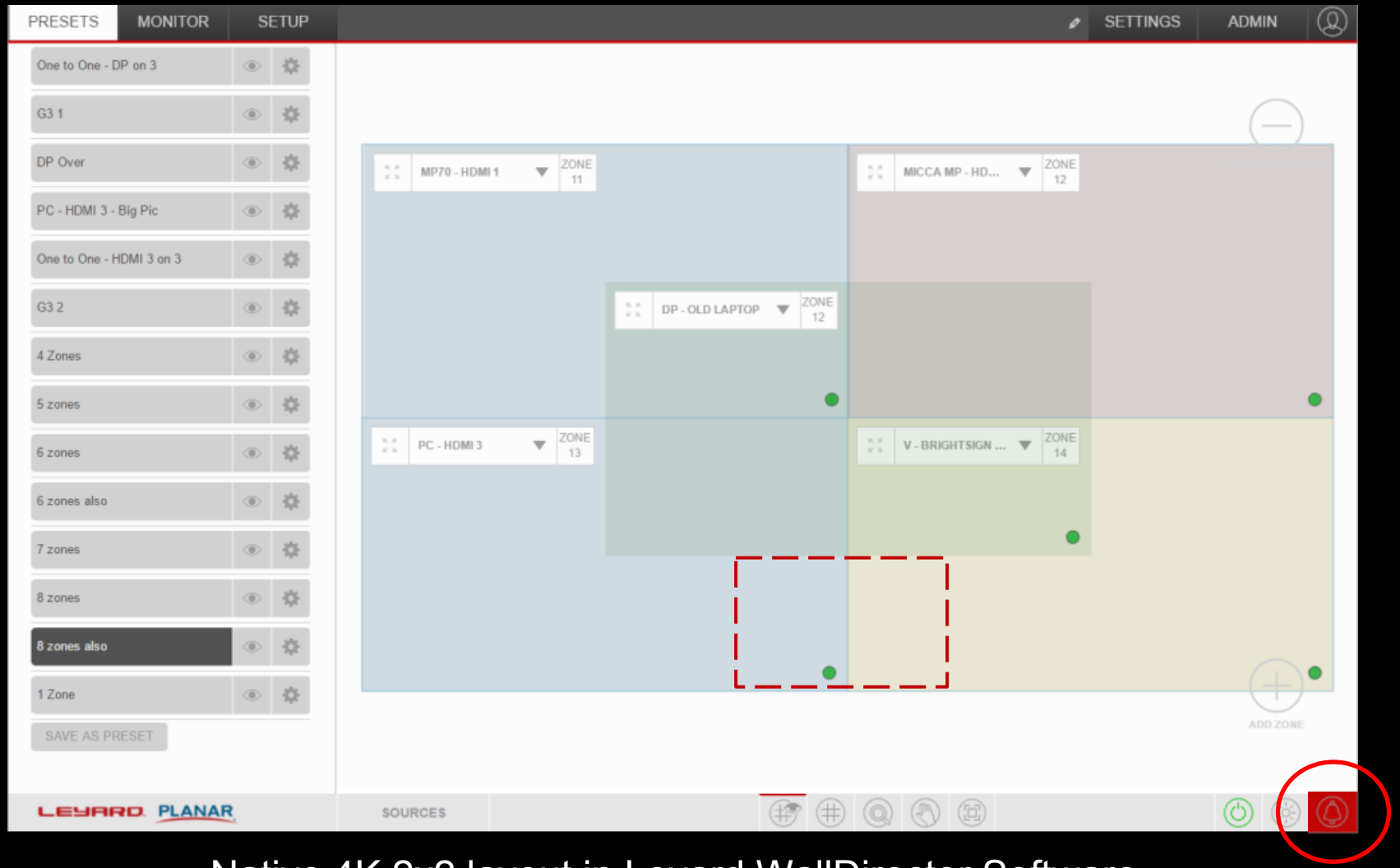
Clarity Matrix G3 2x2 wall layout

Two Zones Using Eight Zone Parts

Clarity Matrix G3 2x2 wall layout



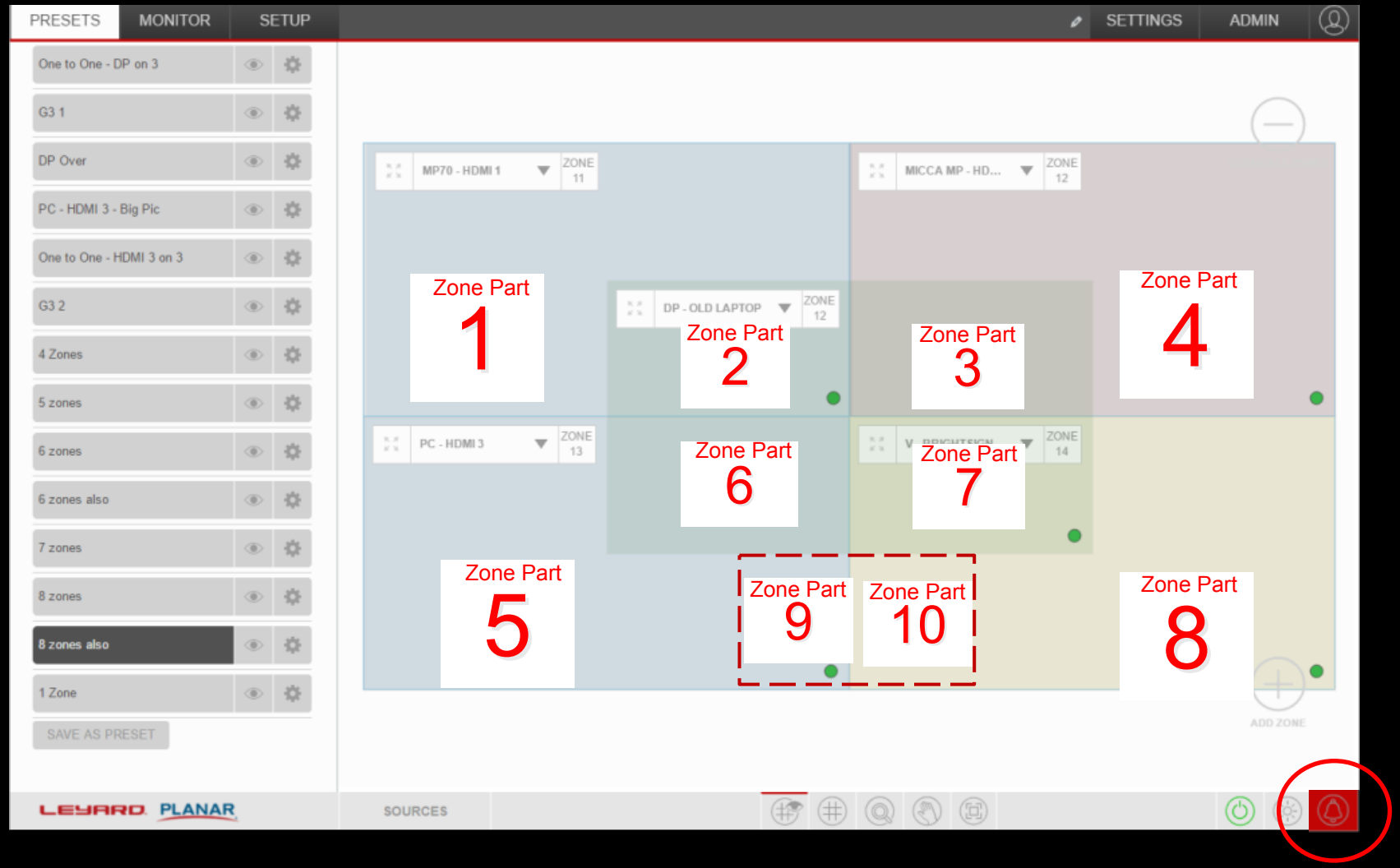
Exceeding Nine Zone Parts



Native 4K 2x2 layout in Leyard WallDirector Software

Exceeding Nine Zone Parts

- Alert notification will appear in lower right corner of Leyard WallDirector Software window, some sources or zone parts may go black or become intermittent



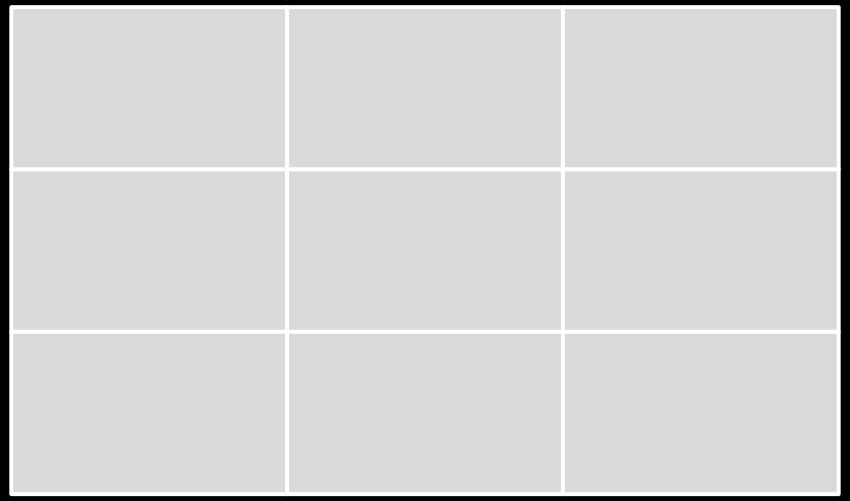
Native 4K 2x2 layout in Leyard WallDirector Software

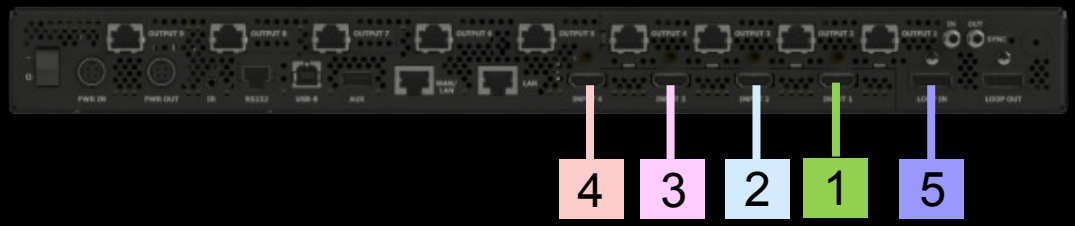
LAYOUT EXAMPLES

3x3 Configurations & 3x2 Configurations

3x3 Layout Examples

3x3 Clarity Matrix G3 LCD video wall

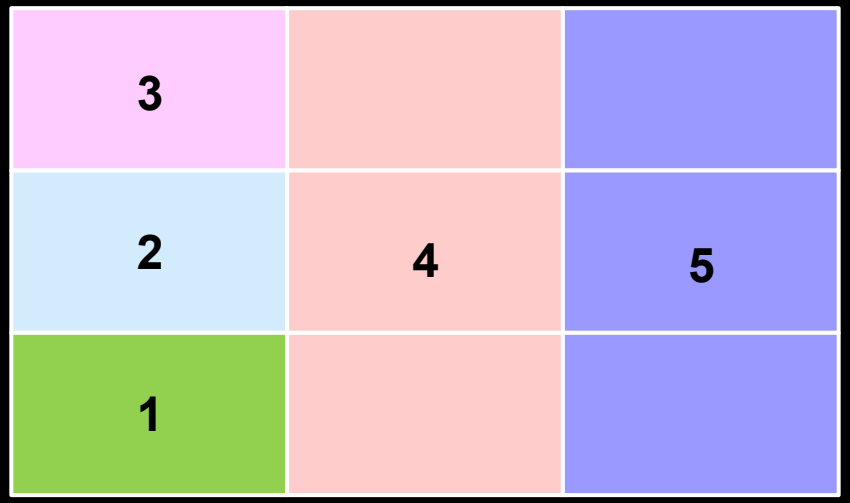




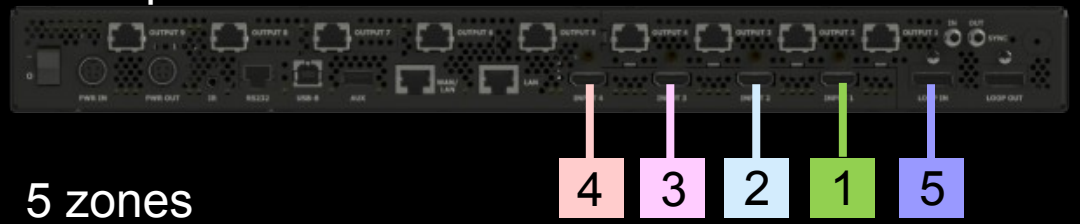
Input sources

3x3 Layout Example #1

3x3 Clarity Matrix G3 LCD video wall



9-Output VC

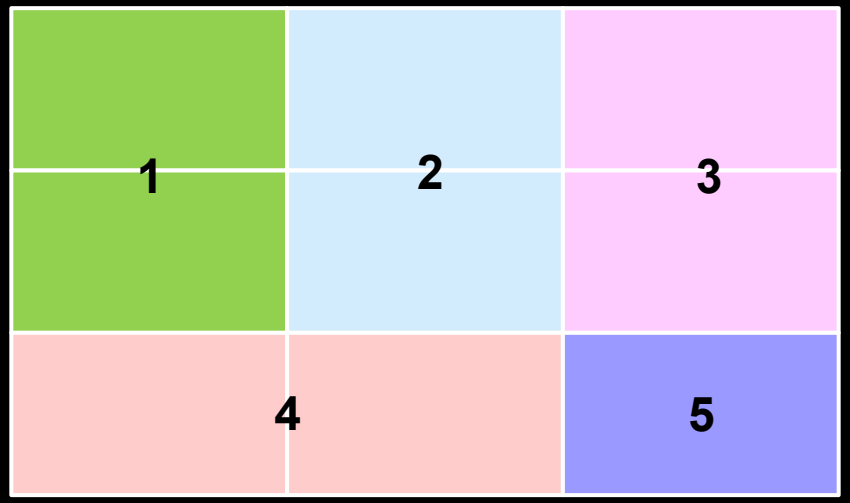


Input sources

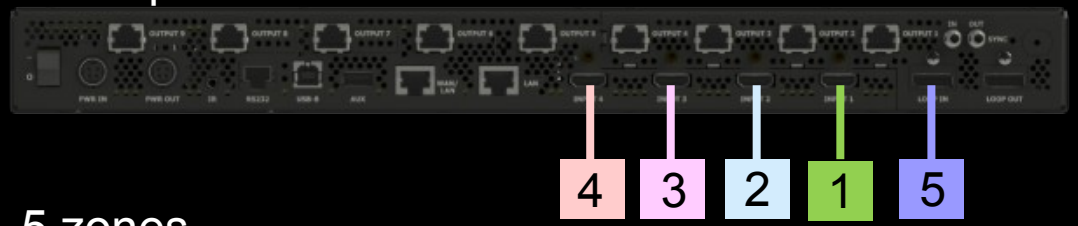
5 zones
9 zone parts used
9 outputs used

3x3 Layout Example #2

3x3 Clarity Matrix G3 LCD video wall



9-Output VC

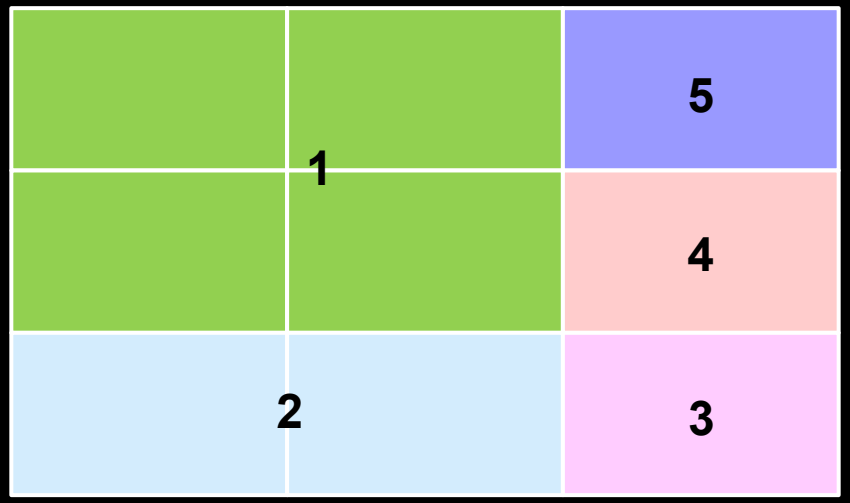


Input sources

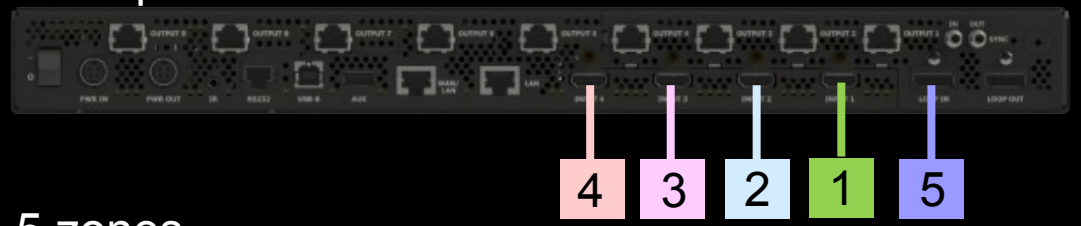
5 zones
9 zone parts used
9 outputs used

3x3 Layout Example #3

3x3 Clarity Matrix G3 LCD video wall



9-Output VC

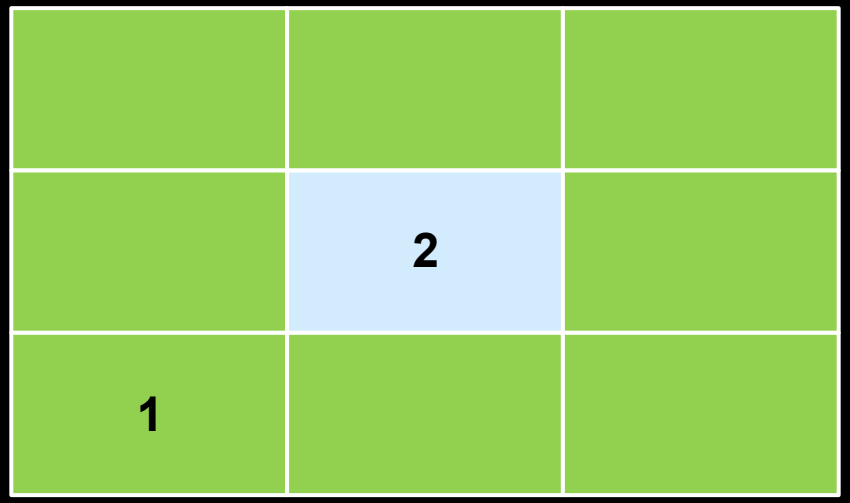


Input sources

5 zones
9 zone parts used
9 outputs used

3x3 Layout Example #4

3x3 Clarity Matrix G3 LCD video wall



9-Output VC

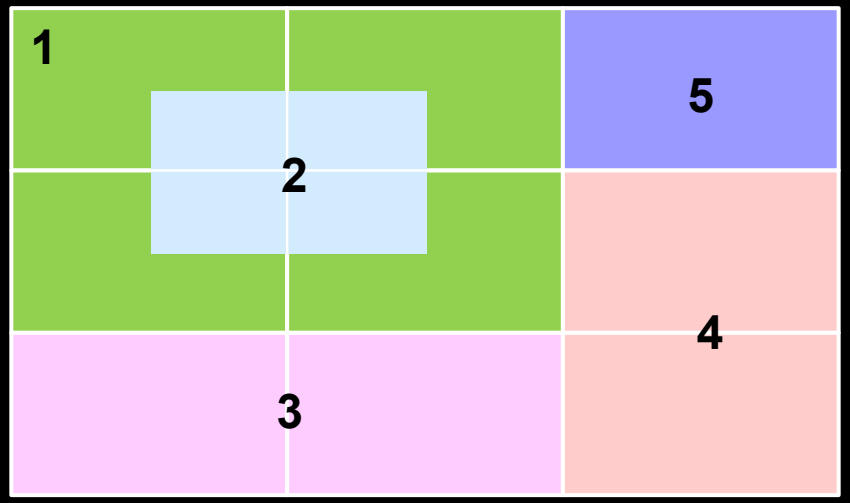
Input sources

2 zones
9 zone parts used
9 outputs used

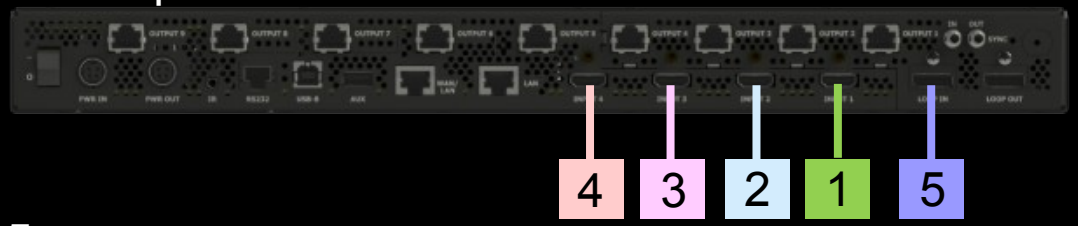
3x3 Layout Example #5

Not possible with (1) 9-Output VC

3x3 Clarity Matrix G3 LCD video wall



9-Output VC

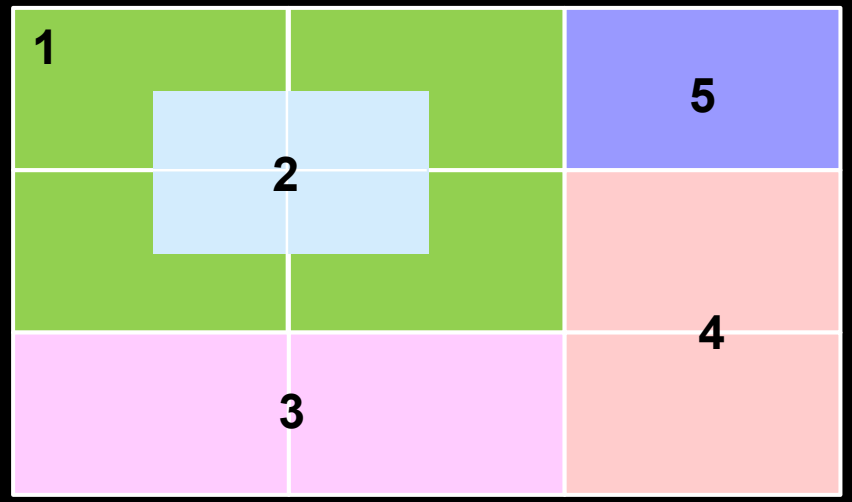


Input sources

5 zones
13 zone parts used
9 outputs used

3x3 Layout Example #5

3x3 Clarity Matrix G3 LCD video wall



4-Output VC #1

2 zones
8 zone parts used
4 outputs used

2 1
Input sources

4-Output VC #2

2 zones
4 zone part used
4 outputs used

4 3
Input sources

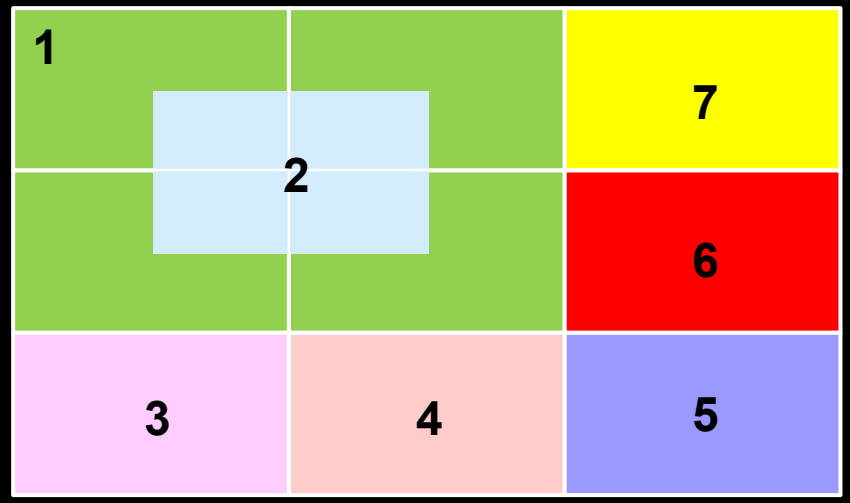
4-Output VC #3

1 zones
1 zone part used
1 outputs used

5
Input sources

3x3 Layout Example #6

3x3 Clarity Matrix G3 LCD video wall



4-Output VC #1

2 zones
8 zone parts used
4 outputs used

Input sources: 2, 1

4-Output VC #2

4 zones
4 zone parts used
4 outputs used

Input sources: 6, 5, 4, 3

4-Output VC #3

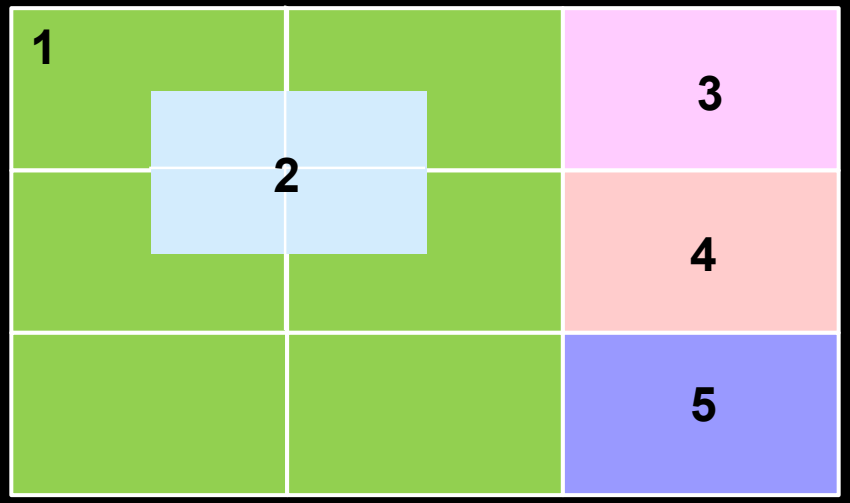
1 zones
1 zone parts used
1 outputs used

Input sources: 7

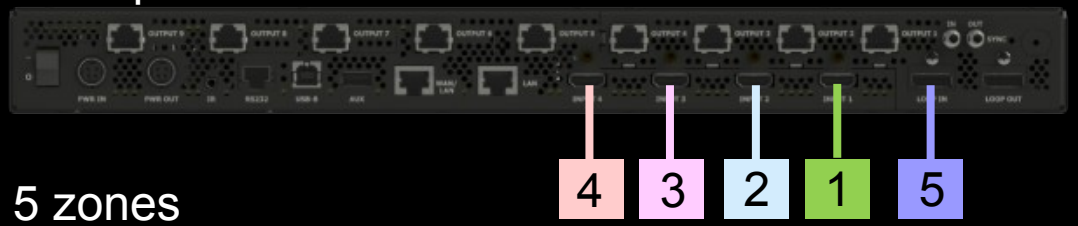
3x3 Layout Example #7

Not possible with (1) 9-Output VC

3x3 Clarity Matrix G3 LCD video wall



9-Output VC

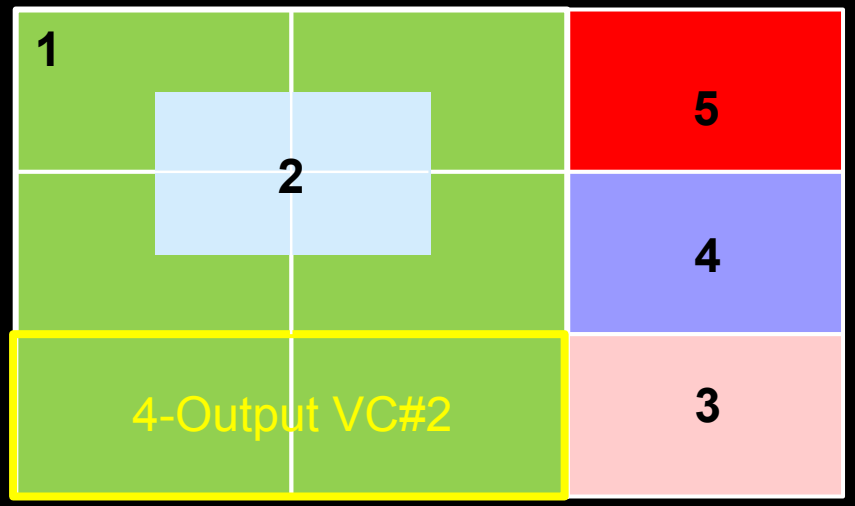


Input sources

5 zones
13 zone parts used
9 outputs used

3x3 Layout Example #7

3x3 Clarity Matrix G3 LCD video wall



4-Output VC #1

2 zones
8 zone parts used
4 outputs used

2 1

Input sources

Input source 1 Loop Out to 4-Output VC#2 Loop In

4-Output VC #2

4 zones
4 zone parts used
4 outputs used

4 3 1

Input sources

4-Output VC #3

1 zones
1 zone parts used
1 outputs used

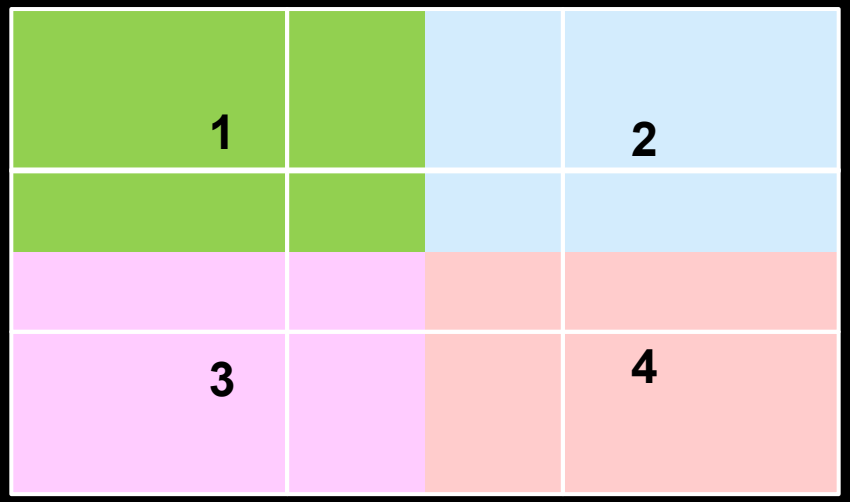
5

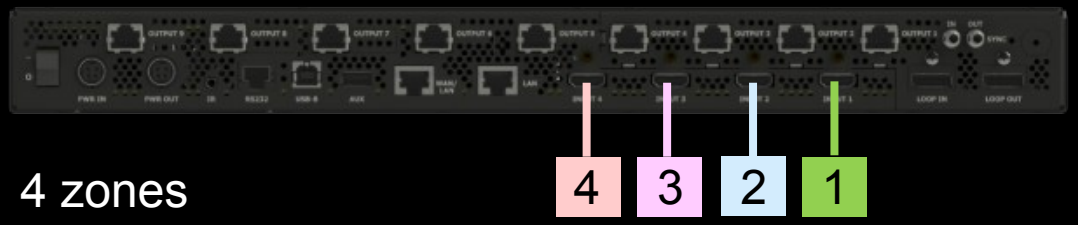
Input sources

3x3 Layout Example #8

Not possible with (1) 9-Output VC

3x3 Clarity Matrix G3 LCD video wall





Input sources

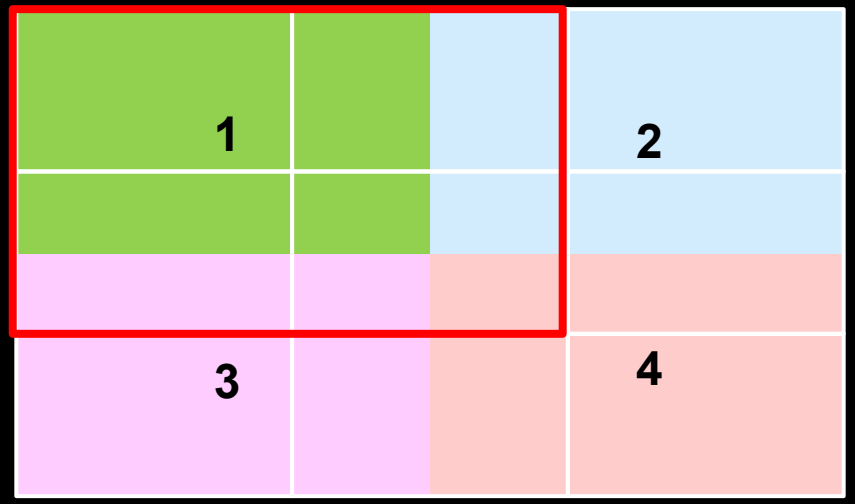
4 zones
16 zone parts used
9 ouputs used

3x3 Layout Example #8

DA or multi-head sources required. Sources 2, 3 and 4 need to be split to VC #2

3x3 Clarity Matrix G3 LCD video wall

VC #1



9-Output VC #1

4 zones
9 zone parts used
4 outputs used

4 3 2 1
Input sources

9-Output VC #2

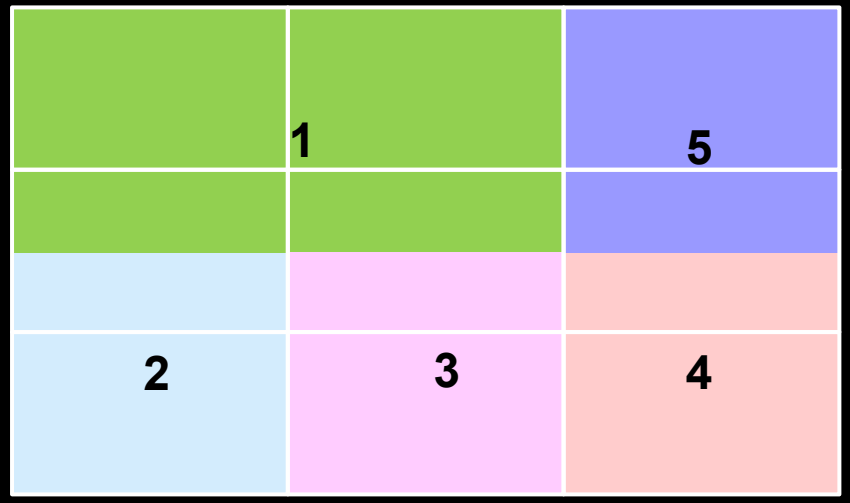
3 zones
7 zone parts used
5 outputs used

4 3 2
Input sources

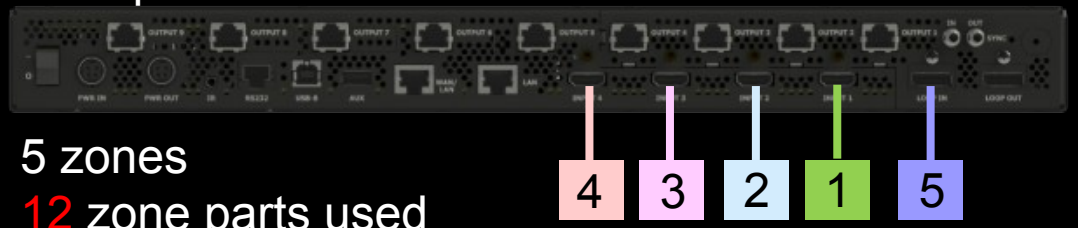
3x3 Layout Example #9

Not possible with (1) 9-Output VC

3x3 Clarity Matrix G3 LCD video wall



9-Output VC

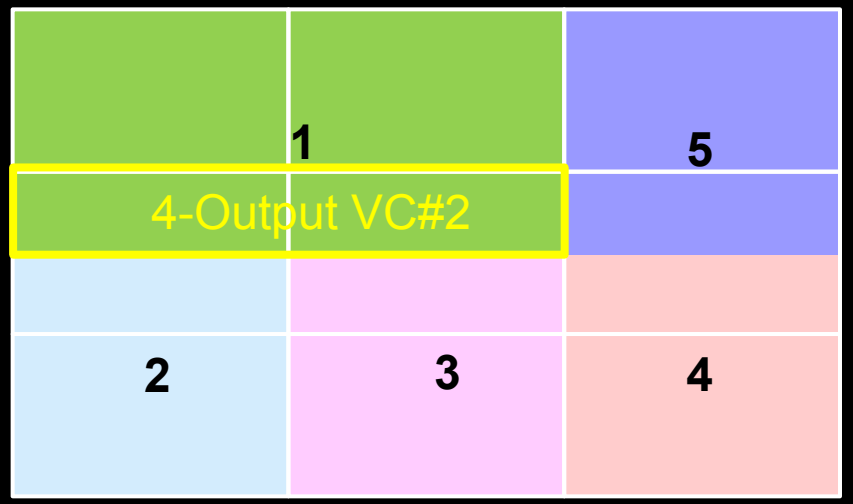


5 zones
12 zone parts used
9 outputs used

Input sources

3x3 Layout Example #9

3x3 Clarity Matrix G3 LCD video wall



4-Output VC #1

1 zones
2 zone parts used
2 outputs used

Input sources: 1

Input source 1 Loop Out to 4-Output VC#2 Loop In

4-Output VC#2

3 zones
6 zone parts used
4 outputs used

Input sources: 3, 2, 1

4-Output VC#3

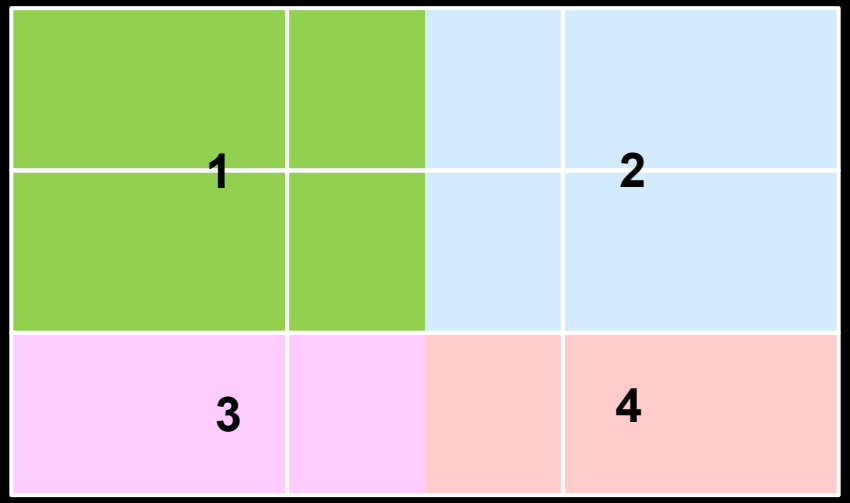
2 zones
4 zone parts used
3 outputs used

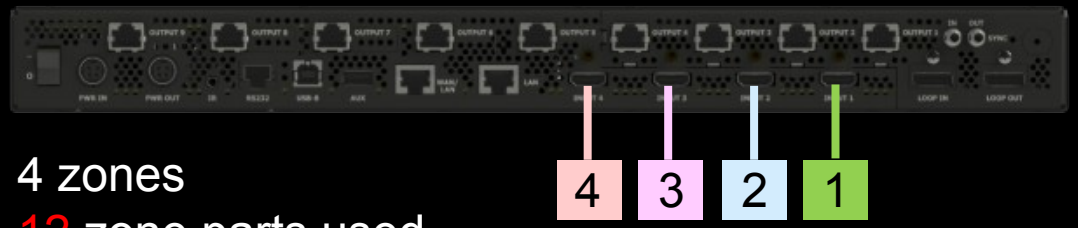
Input sources: 5, 4

3x3 Layout Example #10

Not possible with (1) 9-Output VC

3x3 Clarity Matrix G3 LCD video wall



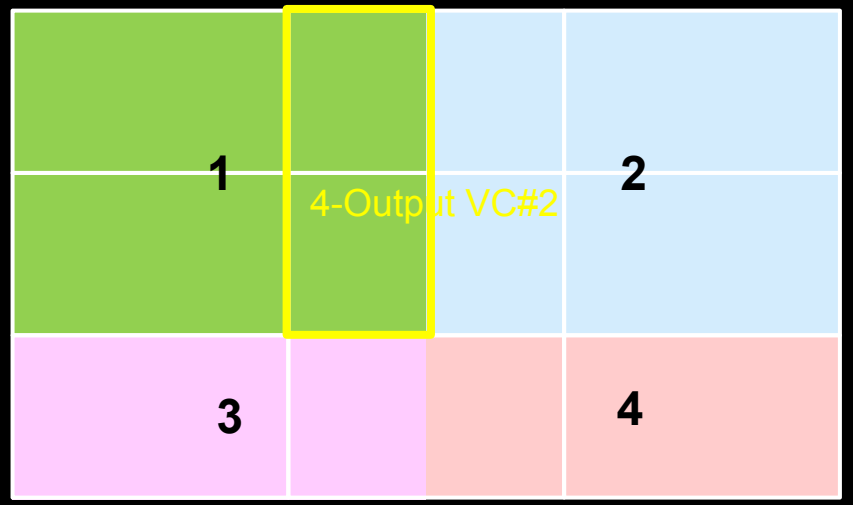


Input sources

4 zones
12 zone parts used
9 outputs used

3x3 Layout Example #10

3x3 Clarity Matrix G3 LCD video wall



4-Output VC #1

1 zones
2 zone parts used
2 outputs used

1

Input sources

Input source 1 Loop Out to 4-Output VC#2 Loop In

4-Output VC#2

2 zones
6 zone parts used
4 outputs used

2 1

Input sources

4-Output VC#3

2 zones
4 zone parts used
3 outputs used

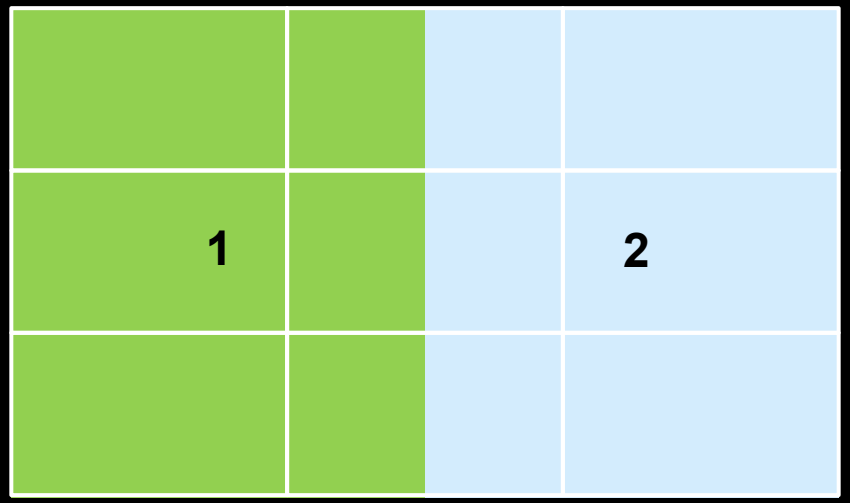
3 4

Input sources

3x3 Layout Example #11

Not possible with (1) 9-Output VC

3x3 Clarity Matrix G3 LCD video wall

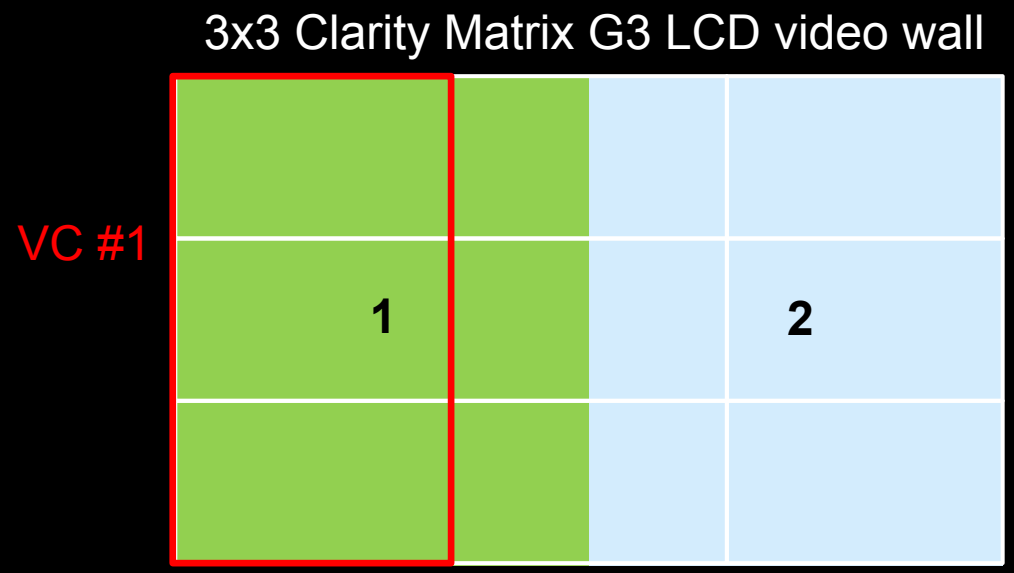


VC1

Input sources

2 zones
12 zones used
9 outputs used

3x3 Layout Example #12



VC1 Input 1 Loop Out to VC2 Loop In

9-Output VC#1

1 zone
3 zone parts used
3 outputs used

1

Input sources

9-Output VC#2

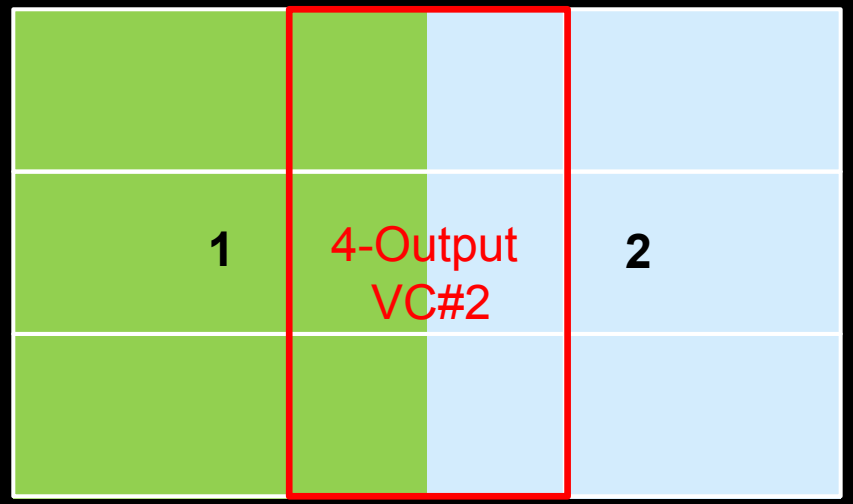
2 zones
9 zone parts used
6 outputs

2

Input sources

3x3 Layout Example #12

3x3 Clarity Matrix G3 LCD video wall



4-Output VC #1

1 zones
3 zone parts used
3 outputs used

1
Input sources

Input source 1 Loop Out to 4-Output VC#2 Loop In

4-Output VC#2

2 zones
6 zone parts used
4 outputs used

2 1
Input sources

Input source 2 Loop Out to 4-Output VC#3 Loop In

4-Output VC#3

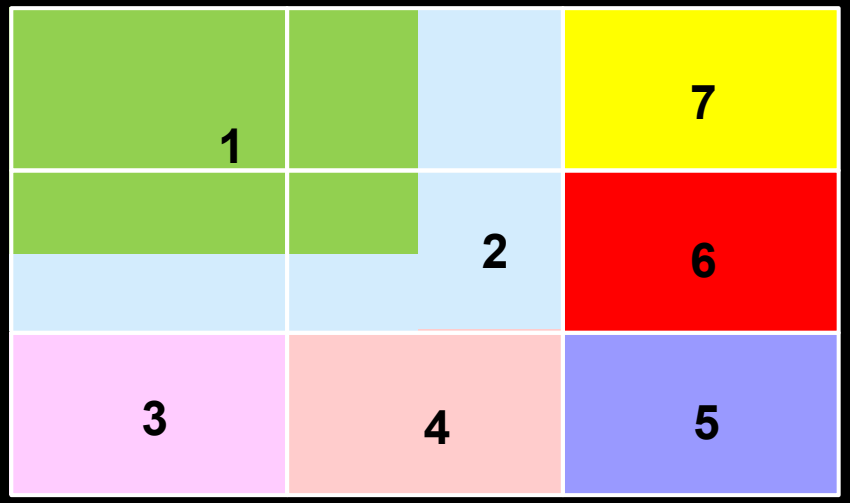
1 zones
3 zone parts used
3 outputs used

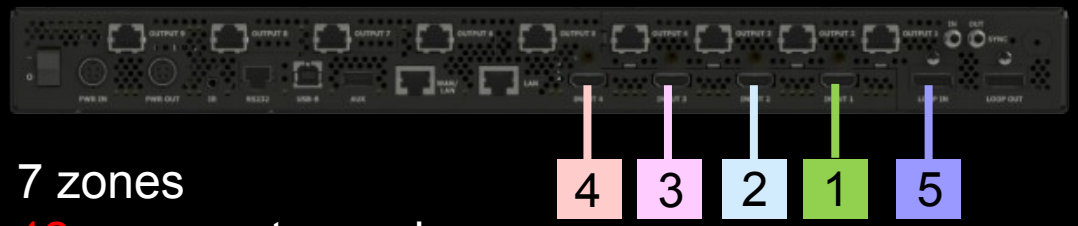
2
Input sources

3x3 Layout Example #13

Not possible with (1) 9-Output VC

3x3 Clarity Matrix G3 LCD video wall



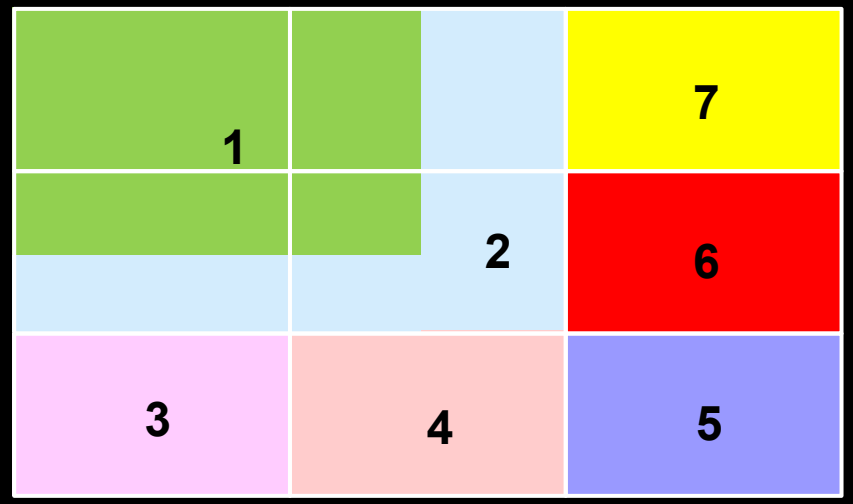


Input sources

7 zones
12 zone parts used
9 outputs used

3x3 Layout Example #13

3x3 Clarity Matrix G3 LCD video wall



4-Output VC #1

2 zones
7 zone parts used
4 outputs used

Input sources: 2, 1

4-Output VC #2

4 zones
4 zone parts used
4 outputs used

Input sources: 6, 5, 4, 3

4-Output VC #3

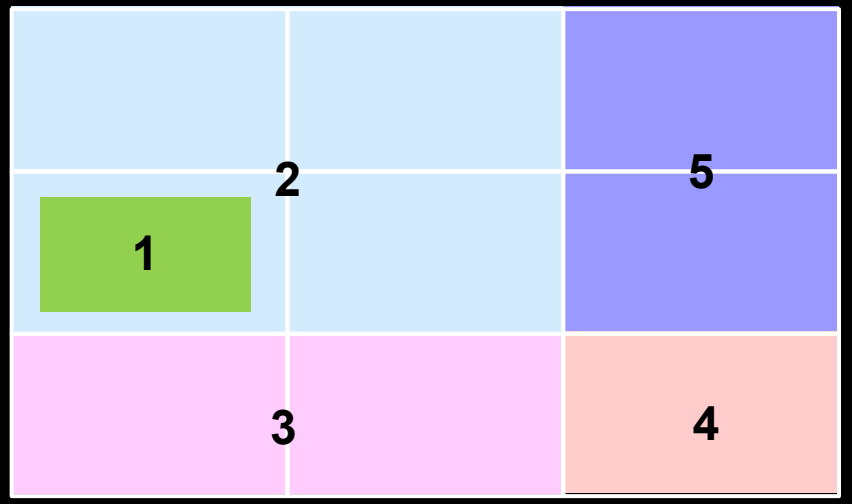
1 zones
1 zone parts used
1 outputs used

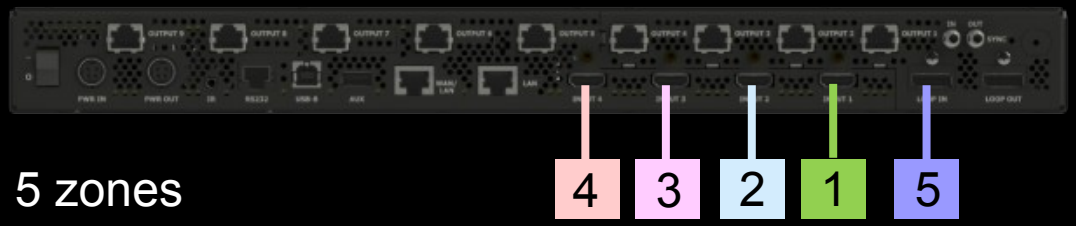
Input sources: 7

3x3 Layout Example #14

Not possible with (1) 9-Output VC

3x3 Clarity Matrix G3 LCD video wall



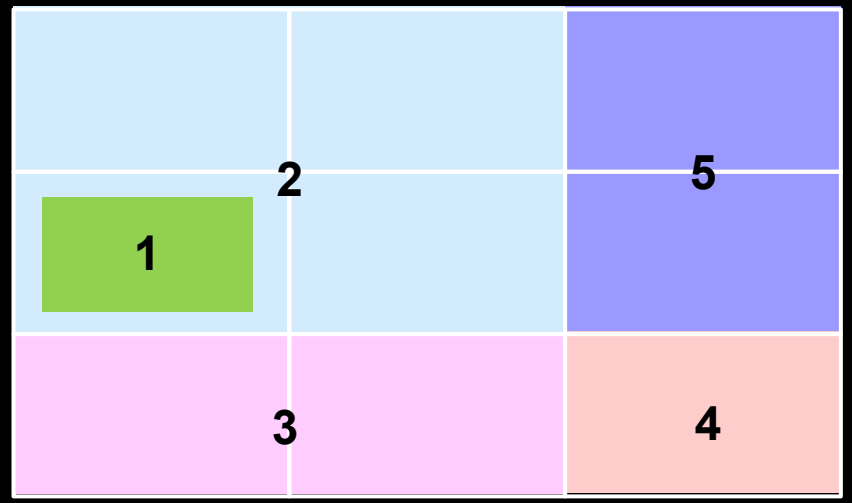


Input sources

5 zones
10 zone parts used
9 outputs used

3x3 Layout Example #14

3x3 Clarity Matrix G3 LCD video wall



4-Output VC #1

2 zones
5 zone parts used
4 outputs used

2 1
Input sources

4-Output VC #2

2 zones
3 zone parts used
3 outputs used

4 3
Input sources

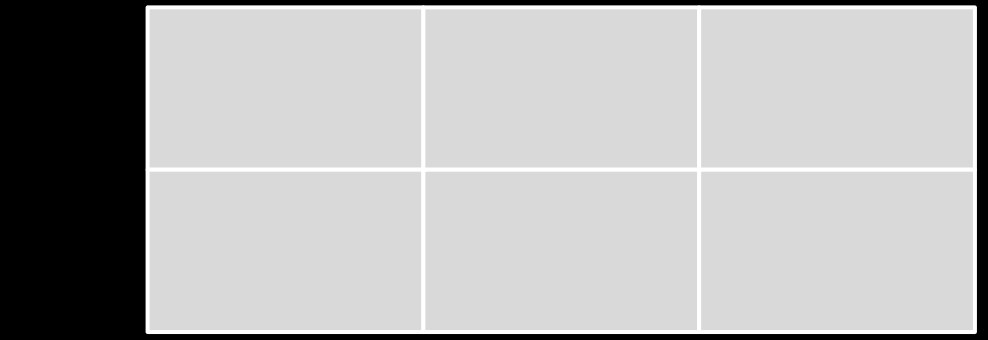
4-Output VC #3

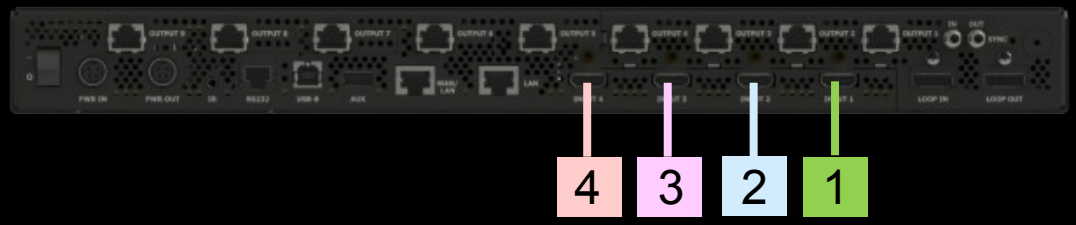
1 zones
2 zone parts used
2 outputs used

5
Input sources

3x2 Layout Examples

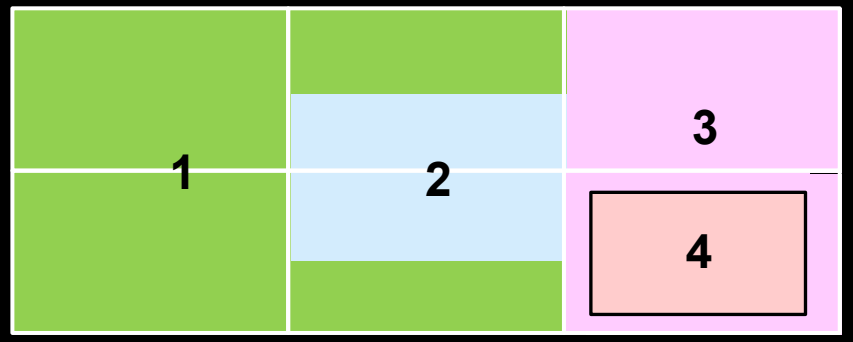
3x2 Clarity Matrix G3 LCD video wall



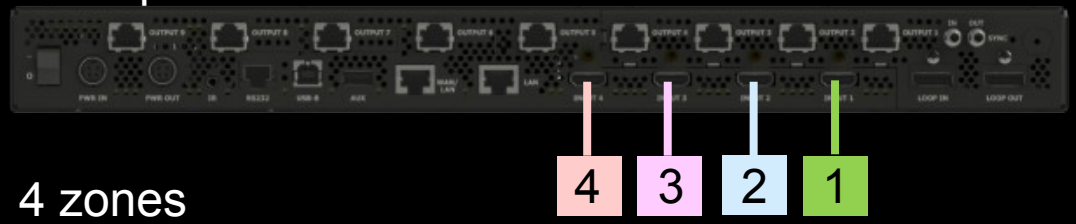


3x2 Layout Example #1

3x2 Clarity Matrix G3 LCD video wall



9-Output VC

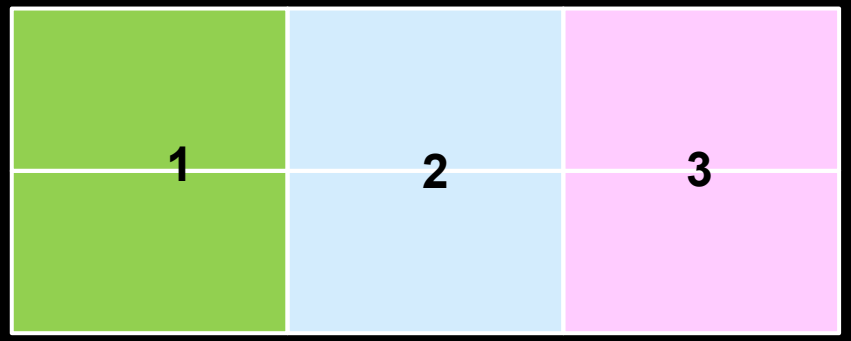


Input sources

4 zones
9 zone parts used
6 outputs used

3x2 Layout Example #2

3x2 Clarity Matrix G3 LCD video wall



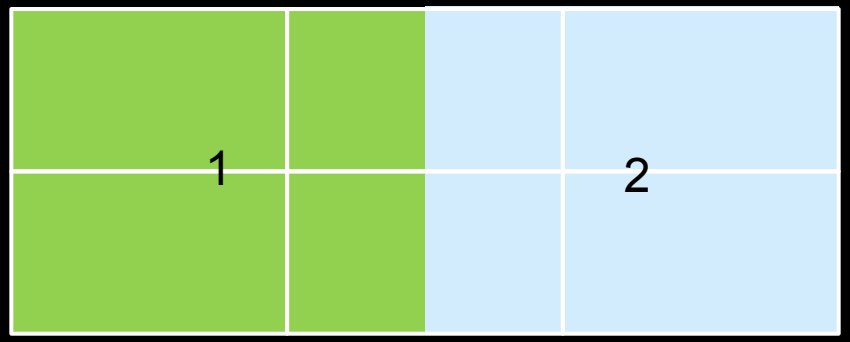
9-Output VC

Input sources

3 zones
6 zone parts used
6 outputs used

3x2 Layout Example #3

3x2 Clarity Matrix G3 LCD video wall



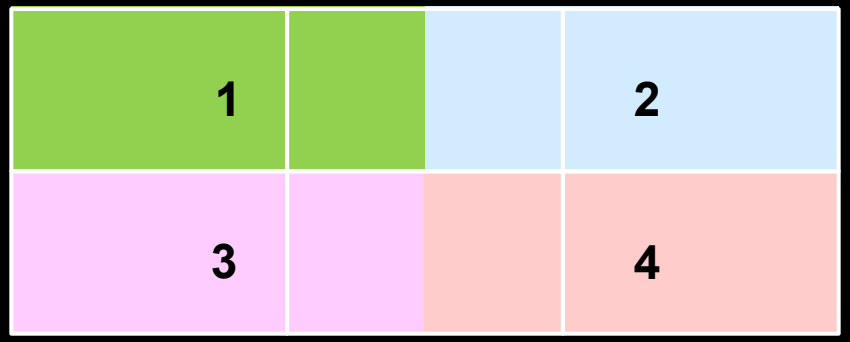
9-Output VC

2 zones
8 zone parts used
6 outputs used

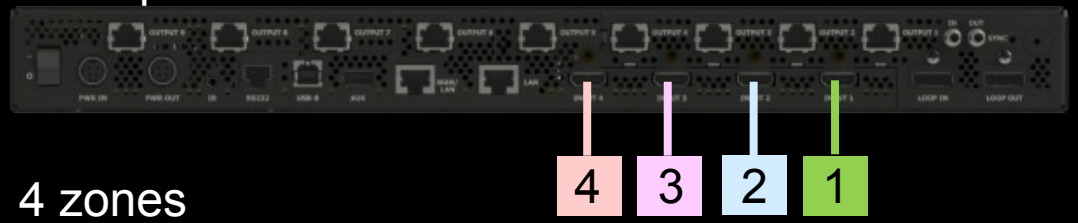
2 1
Input sources

3x2 Layout Example #4

3x2 Clarity Matrix G3 LCD video wall



9-Output VC



Input sources

4 zones
8 zone parts used
6 outputs used

THANK YOU!

LEYARD PLANAR