

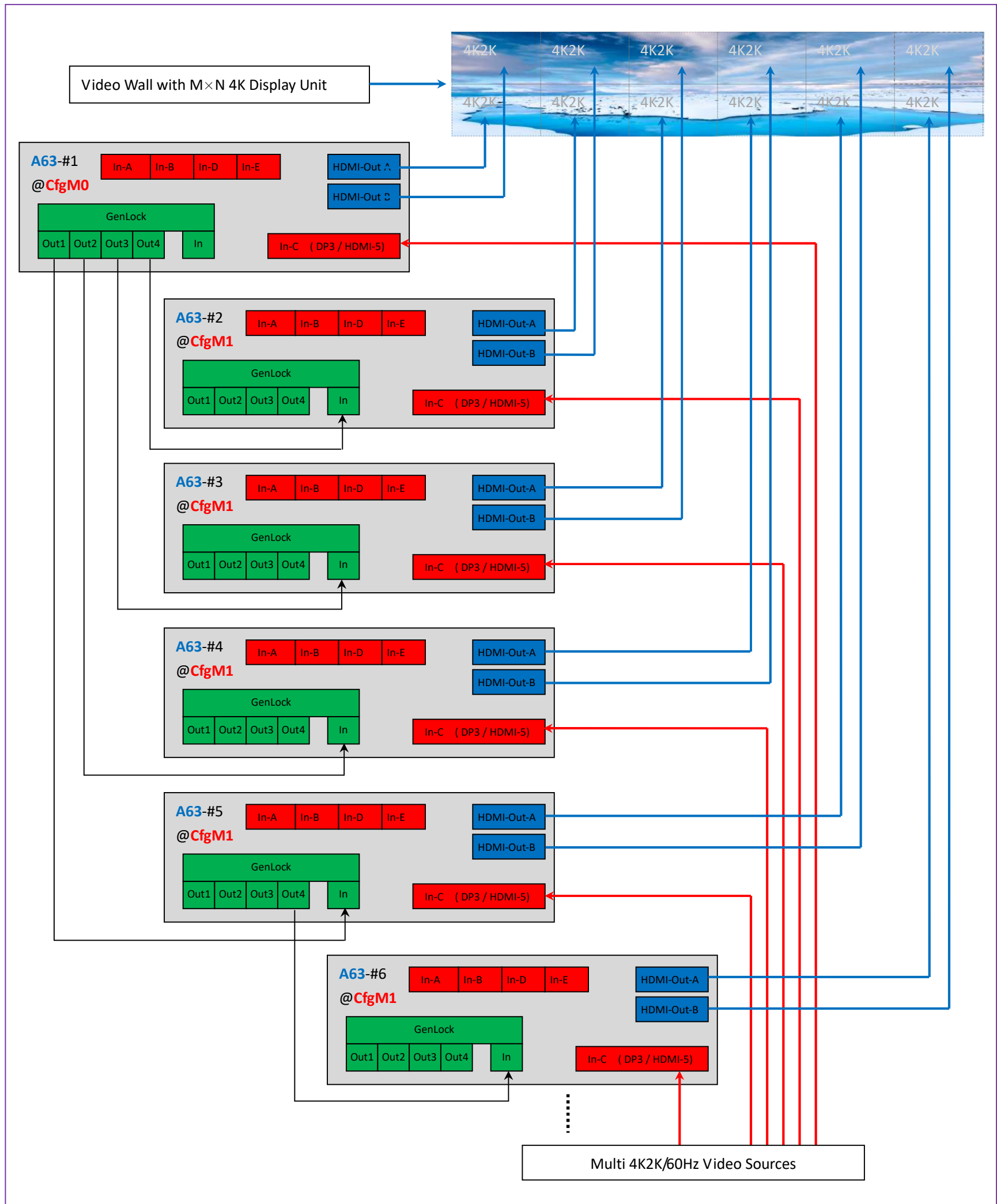
A63 --- 4K Multi-Image Processor

GenLock Cascading Description

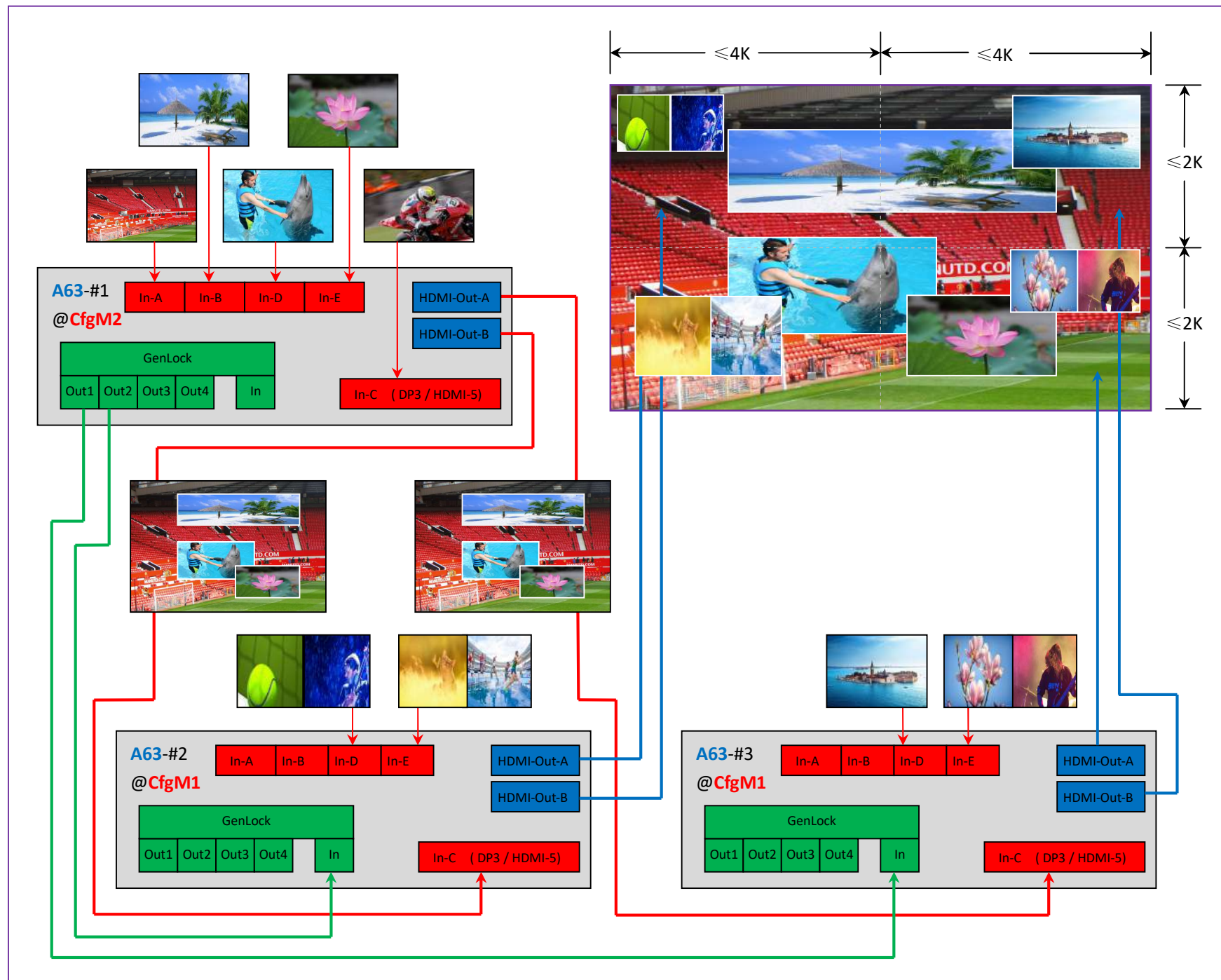


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- 1、A63 provides 8 4K2K@60Hz inputs, including:
In-A input card: HDMI2.0 \times 2 + DP1.2 \times 1
In-B input card: HDMI2.0 \times 2 + DP1.2 \times 1
In-C input card: HDMI2.0 \times 1 + DP1.2 \times 1
- 2、A63 supports 2 4K2K@60Hz outputs, defined as: Out-A 、Out-B. In **Configuration Mode 1 (CfgM1)**, 2 HDMI 2.0 outputs jointly realize 8K2K driving
- 3、On occasion LED screen resolution exceed 8K2K, Multi-A63 provide GenLock Cascading function, achieve extended output resolution
- 4、A63 GenLock Cascading function also extend input resolution in accordance with output resolution, so as to achieve pixel to pixel display, bring amazing display effect
- 5、A63 GenLock Cascading provides completely synchronized processing and output
- 6、The following schematic diagram illustrates A63 Cascade processing procedure:



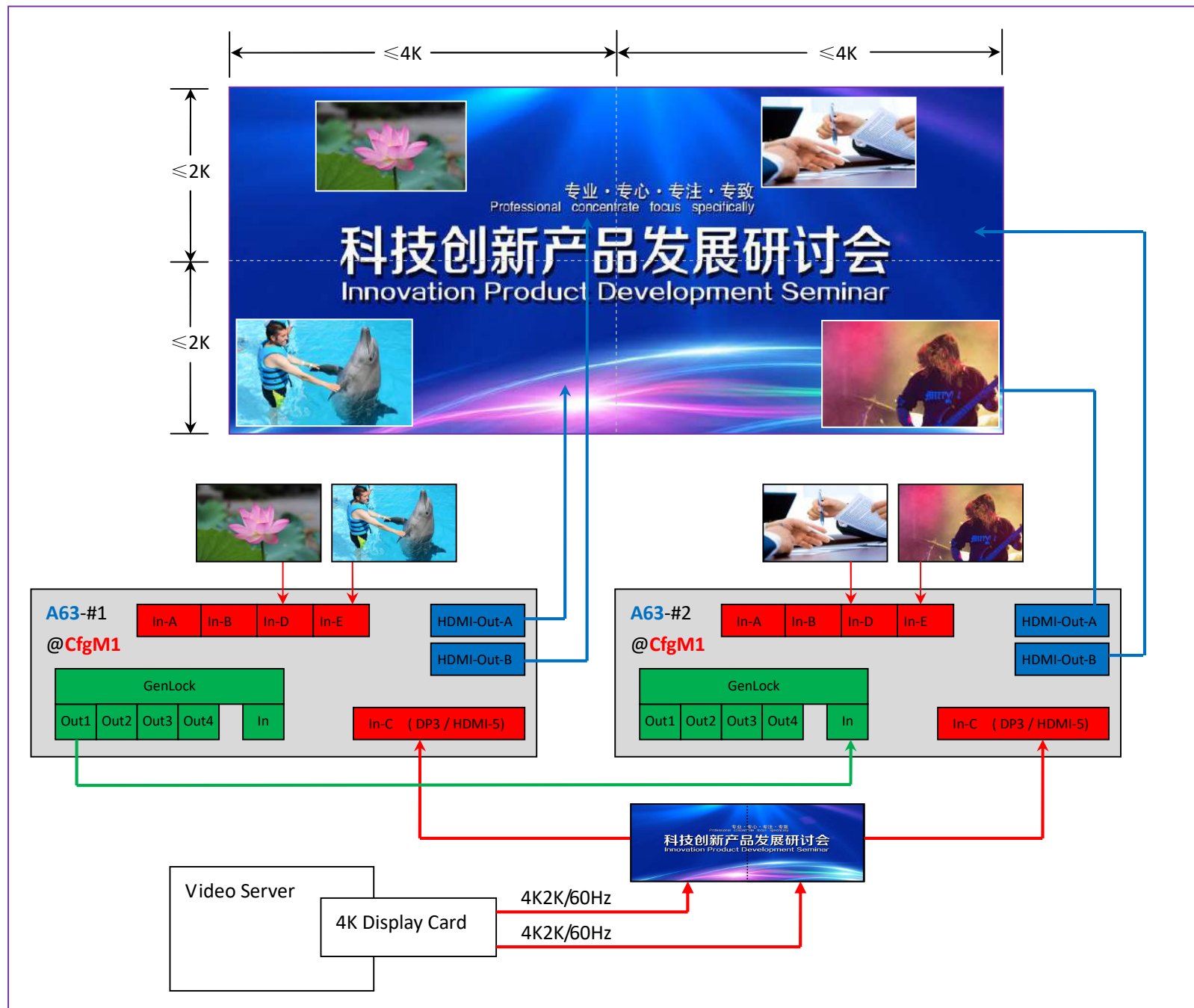
- 7、 **A63** in cascading mode, all input 4K2K@60Hz signal must access to HDMI-5 or DP-3 of In-C
- 8、 In cascading mode, all signal should be synchronized before accessing to **A63** In-C card
- 9、 Single **A63** contains 4 GenLock output, supports 5 A63 Cascading
- 10、 A63 supports multi-level cascading, the slave A63 also can operate as second level primary control processor, total solution supports maximum 21 A63 Cascading
- 11、 The following diagram shows 3 A63 Cascading procedure:



Description:

- 1) Configure **A63** #1 to **CfgM2(4 image mode)**, in this mode, A63 2 HDMI outputs identical image
- 2) Configure **A63** #2 and **A63** #3 to **CfgM1(Mosaic mode)**. 2 HDMI outputs of each **A63** jointly display one 8K2K image, then **A63** #2 and **A63** #3 will be capable to drive 4 4K2K unit screen, so as to achieve 8K4K screen driving
- 3) A63 Genlock function guarantee **A63** #2 and **A63** #3 completely synchronized display, avoid image crack during splicing
- 4) **A63** #1, 4 images can randomly roam among 4 unit screen without restriction
- 5) **A63** #2, In-D and In-E can randomly roam on HDMI –OutA or HDMI –OutB, any size&position setup
- 6) **A63** #3, In-D and In-E can randomly roam on HDMI –OutA or HDMI –OutB, any size&position setup
- 7) In-D 、 In-E of **A63** #2 and **A63** #3 supports PIP function (dual image display)
- 8) Therefore, as the above diagram, 3 **A63** cascading offers 12 images display, among which 4 windows can randomly roam on 8K4K screen without limits

12、The following diagram shows input resolution extension via 2 A63 GenLock Cascading:



Description:

- 1) Configure A63 #1 and A63 #2 to CfgM1 (Mosaic mode) . 2 HDMI output of each A63 works in splicing mode, A63 #1 and A63 #2 can jointly drive 4 4K2K unit screen, so as to achieve 8K4K screen driving
- 2) The video server in the solution should be equipped with 4K graphics card, the server outputs 2 synchronized 4K2K/60Hz signal to A63 #1 and A63 #2, thus extend the input resolution to 8K2K/60Hz
- 3) Use GenLock function to realize synchronized processing of A63 #1 and A63 #2
- 4) A63 #1 In-D and In-E can randomly roam on HDMI –OutA or HDMI –OutB, any size&position setup
- 5) Similarly, A63 #2 In-D and In-E can randomly roam on HDMI –OutA or HDMI –OutB, any size&position setup
- 6) In-D 、In-E of A63 #1 and A63 #2 supports PIP function (dual image display)
- 7) Therefore, 2 A63 GenLock Cascading can extend input resolution to 8K2K/60Hz, meanwhile open 4 window images