






Application Co-installation Matrix

In an ideal Hiperwall setup, each Hiperwall component is installed and runs on its own separate computer. Technically, nothing stops the installation technician from installing multiple Hiperwall applications on the same machine, but running them simultaneously requires careful planning. The table below shows which applications can be combined on the same computer, and which cannot.

| | HiperController | HiperFailSafe | HiperView | HiperSource Sender | HiperSource Streamer | HiperSource IP Streams | HiperSource Browser | HiperCast | HiperOperator |
|-----------------------|-----------------|---------------|-----------|--------------------|----------------------|------------------------|---------------------|-----------|---------------|
| HiperController | Grey | Red | Red | Yellow | Orange | Orange | Orange | Red | Grey |
| HiperFailSafe | Red | Grey | Red | Green | Yellow | Yellow | Green | Red | Green |
| HiperView | Red | Red | Grey | Red | Red | Red | Red | Red | Red |
| HiperSource Sender | Yellow | Green | Red | Grey | Yellow | Orange | Yellow | Orange | Green |
| HiperSource Streamer | Orange | Yellow | Red | Yellow | Grey | Yellow | Yellow | Yellow | Green |
| HiperSource IPStreams | Orange | Yellow | Red | Orange | Yellow | Grey | Orange | Orange | Green |
| HiperSource Browser | Orange | Green | Red | Yellow | Yellow | Orange | Grey | Orange | Green |
| HiperCast | Red | Red | Red | Orange | Yellow | Orange | Orange | Grey | Green |
| HiperOperator | Grey | Green | Red | Green | Green | Green | Green | Green | Grey |

-  All good. No expected problems with this combination.
-  Discouraged. Will run but with careful considerations.
-  Not supported. Will run but will perform poorly.
-  Will not work.
-  Not applicable.

Combinations Marked in Yellow

The combination may be made to work acceptably if special attention is paid to how the software is configured to accommodate the operation of both applications on the same computer. Specifically:

Controller with HiperSource Sender – It is discouraged to run anything else on the Controller to prevent other software from crashing the PC. If you still want to install HiperSource Sender on the Controller, ensure that there is a powerful enough processor to support the Controller application alongside the Sender's desired framerate. Otherwise, you can reduce the resolution (eg. capture area) of the Sender capture, set the performance mode to 'lower resource usage (faster)', or set the throttle bar to 'lower CPU usage'.

Key Node with HiperSource Streamer or IPStreams – The Key Node software is a very small footprint application that uses very little bandwidth allowing it to live alongside a few other Hiperwall applications. If used with HiperCast or HiperSource IP Streams, make sure that there are enough processing cycles to accommodate the Key Node's process. If used with IPStreams or Streamer, make sure that there is enough bandwidth left over to allow the Key Node to maintain heartbeat with the Controllers.

HiperSource Sender with HiperSource Streamer – You may be able to get acceptable performance from a computer simultaneously running HiperSource Sender and Streamer applications if you configure each of them to utilize one resource versus the other. As the Sender is a processor-driven application, you must configure the Streamer application to use its Nvidia graphics card (assuming equipped) by setting it to use the 'HWAssist' performance option (instead of the default processor-intensive HWV setting). At the same time, manage the Streamer's overall framerate to leave some bandwidth available for the Sender to send its frames.

Hiper Source Streamer with HiperSource IP Streams or HiperCast – Install an Nvidia GeForce GTX1050 (or Quadro P4000) and use the HWV encoder setting in the Streamer to greatly reduce bandwidth usage compared to HWAssist. This will allow IPStreams or HiperCast software to exclusively utilize the processor for its processes. Remember, just by themselves, each of the IPStreams and HiperCast applications require very powerful processors (eg. 6th Gen Intel Core i7 3.5Ghz or higher spec) and at least 16GB of dual-channel memory. Therefore, build a powerful hardware platform if you intend to run this combination of applications simultaneously.

HiperSource Browser with HiperSource Sender – Both of these applications are processor-heavy, so while they can both run on the same computer, careful consideration must be taken for the content settings in each application. This refers to the capture resolution and framerate for each content object. This ensures that there is sufficient processor resource to run both Browser and Sender including any local application windows that the Sender is capturing.

HiperSource Browser with HiperSource Streamer – This combination has similar constraints as the HiperSource Sender and Streamer combination described above. You may be able to get acceptable performance from a computer that is simultaneously running HiperSource Browser and Streamer applications if you configure each application to utilize one resource versus the other. Since the Browser is a processor driven application, you can manage processor usage through the webpage resolution and capture framerate settings. On the Streamer application, configure it to use its Nvidia graphics card (assuming equipped) by setting it to use the 'HWAssist' performance option (instead of the default processor-intensive HWV setting). At the same time, manage the Streamer's overall framerate to leave some bandwidth available for the Browser to send its frames.

Combinations Marked in Orange

Combinations in orange are not supported. The software applications in these combinations are found to be too demanding on any one of the computer's resources (processor, memory, or bandwidth) preventing the applications from working optimally. In theory, you could address the combination's deficiency by brute force. That is, build a computer with enough processor and memory specs if facing a processor or memory deficit, or implementing network teaming or link-aggregation (LAGG) to address high bandwidth utilization; but, your mileage may vary. Consequently, installation of applications in these combinations is not supported.