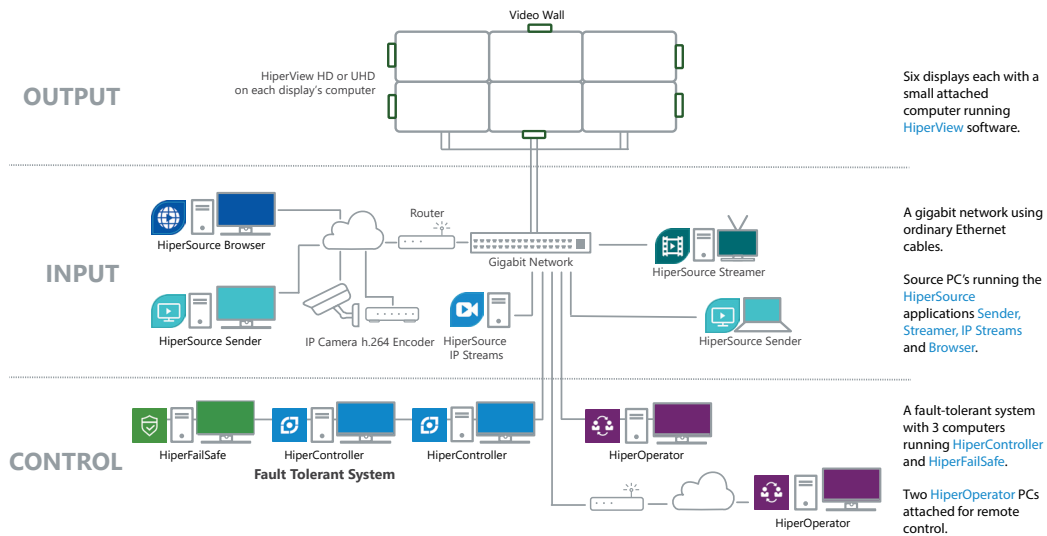


Hiperwall[®] TECHNOLOGY BRIEF

Hiperwall Recommended System Specifications



The PC build recommendations below have been selected to meet the needs of most Hiperwall customers. If a high-performance system is required (IE. UHD capture, UHD display or more than 4 sources per display) please contact Sharp/NEC support for assistance.

All Hiperwall PCs require Windows 10 or 11 (32 or 64 bit) and Gigabit Ethernet unless otherwise stated. Hiperwall only supports Intel or Nvidia GPUs.

HiperController

OS: Windows 10 or 11, 64 bit
 CPU: 8th Generation Intel i5, 2.5 Ghz (Base clock)
 RAM: 8 GB dual channel
 GPU: Intel UHD630, or Nvidia Quadro P620
 Network: Gigabit Ethernet
 Monitor: 60 Hz display or EDID emulator, with vertical resolution of at least 900 pixels. *Wide-format display and 1920x1080 pixels or larger, preferred.*
 Storage: At least 20 GB free storage plus room for local content

HiperOperator

OS: Windows 10 or 11, OSX with Java 14, or Linux with Java 14.
 CPU: Dual core
 RAM: 2 GB
 Network: Gigabit Ethernet, Fast Ethernet (100Mb) or 802.11N wireless

HiperView and HiperView+

OS: Windows 10 or 11
 CPU: 7th Generation Intel i5, 2.5 Ghz (Base clock)
 RAM: 8 GB dual channel
 GPU: HiperView: Intel UHD630 (1 1080p display);
 HiperView+: Nvidia Quadro P620 (1 UHD display or up to 4 1080p displays in a rectangle layout)
 *Nvidia GPU required for HiperView+
 Network: Gigabit Ethernet
 Storage: At least 20 GB free storage plus room for local content

HiperView Quantum

OS: Windows 10 or 11, 64 bit
 CPU: 8th Generation Intel i7, 2.9 Ghz (Base clock)
 RAM: 16 GB dual channel
 GPU: Nvidia Quadro RTX4000*
 Network: Gigabit Ethernet
 Sync: Nvidia Quadro Sync II card
 * Each PC can drive up to 4 LCD displays, or 4 dvLED Controllers.

CAUTION

- Hiperwall cannot guarantee functionality of daisy-chained displays. Check with your display manufacturer to see if it supports this configuration.
- Hiperwall's wake-on-LAN features may not function on Intel vPro-enabled CPUs.

HIPERWALL - RECOMMENDED SYSTEM SPECIFICATIONS

HiperSource

Sender

OS: Windows 10 or 11, macOS 10+ with Java 14, or Linux with Java 14, virtual machine environments may be used

CPU: Dual Core

RAM: 2GB RAM

Network: Gigabit Ethernet, Fast Ethernet (100MBPS) or 802.11N wireless

** Minimum for 1 1080p screen capture. Increase specs for multiple screens or higher resolutions*

Streamer

OS: Windows 10 or 11, 64 bit

CPU: 8th Generation Intel i5, 2.5 Ghz (Base clock)

RAM: 8 GB dual channel

GPU: Nvidia GTX 1650 for three streams or fewer; Nvidia Quadro P2000 for more than three streams

Network: Gigabit Ethernet

** An EDID Emulator may be required for headless streamer computers.*

Streamer+

OS: Windows 10 or 11, 64 bit

CPU: 8th Generation Intel i5, 2.5 Ghz (Base clock)

RAM: 8 GB dual channel

GPU: Nvidia Quadro P2000

** Certain GTX line Nvidia cards are supported, with a limit to the quantity of streams (IE: a GTX 1650 will support up to 3 simultaneous HWV Streams.)*

Network: Gigabit Ethernet

** An EDID Emulator may be required for headless streamer computers.*

IP Streams

OS: Windows 10 or 11, 64 bit

CPU: 8th Generation Intel i7, 2.9 Ghz (Base clock)

RAM: 16 GB dual channel for 50 streams

Network: Gigabit Ethernet

Browser

OS: Windows 10 or 11, 64 bit

CPU: 8th Generation Intel i7, 2.9 Ghz (Base clock)

RAM: 8GB (up to 10 1080p web browser windows/tabs)

Network: Gigabit Ethernet

HiperCast

OS: Windows 10 or 11, 64 bit

CPU: 8th Generation Intel i5, 2.5 GHz

RAM: 16 GB dual channel

Network: Gigabit Ethernet

HiperFailSafe

OS: Windows 10 or 11, 64 bit

CPU: Dual core, 2 Ghz

RAM: 2 GB

Network: Gigabit Ethernet

Monitor: Vertical resolution of at least 800 pixels, required.

** Time sync (NTP server) is required between both HiperController PCs and HiperFailSafe PC. Windows time sync is fine as, the clocks can be up to 5 min off.*

Network Switch Requirements

Non-blocking Gigabit Ethernet (all ports run at full wire speed with no packet loss).

The Gigabit Ethernet switch should support the following IGMP protocols:

- IGMP Snooping
- IGMP Querier
- IGMP Immediate-Leave (Fast-Leave)

If using multiple switches, use at least a ten gigabit inter-switch (stacking) link.

Managed Layer 2 or Layer 3 switch.

Recommend a dedicated switch or a dedicated VLAN if VLANs are in use.

Switches from Extreme Networks are not recommended because they have known incompatibilities with Hiperwall systems.

The HiperController, HiperFailSafe, HiperView(+), HiperSource Streamers and HiperSource IP Streams computers, should be on the same VLAN and subnet. It is acceptable to use two (or more) NICs to connect to multiple networks if needed.

Other Considerations

Microsoft RDP (Remote Desktop Protocol) is not compatible with Hiperwall PC's. However, any other remote control software, such as Dameware, VNC, TeamViewer, and Dualmon will work fine. If RDP is required, be sure to reboot the PC prior to disconnecting.

Other invasive software such as, security software has the potential to interfere with Hiperwall performance as well. If you suspect that you are having a compatibility problem with other software, it is best to reach out to Sharp/NEC Hiperwall support for information.