

## Information Sheet

# New Features by Version - 4.5 and above

Software Version	4.5**	4.6**	5.0**	5.1	6.0	7.0	8.0	8.5	9.0
Initial Release Date	Feb 2017	Aug 2017	Dec 2017	Jun 2018	Mar 2019	Jan 2021	July 2022	Feb 2023	Jan 2024
Latest Iteration	4.5.1	4.6.0	5.0.0	5.1.0	6.0.3	7.2.1	8.0.0	8.5.2	9.0.0
Latest Iteration Release Date	Jun 2017	Aug 2017	Dec 2017	Aug 2018	Feb 2020	Nov 2021	Sep 2022	Aug 2023	Jan 2024
<b>Technology Updates</b>	Works with key format 5.0 or B.2.1 <sup>1</sup> Software version 4.5.x and above								
Settings and Backup: a new benefit for HiperCare customers that makes recovery from hardware failures or replicating configurations straightforward.									x
HiperOperator gets SmartSnap®. HiperSource Sender gets table-based UI to show wall configurations and supports different DPI settings in multi-display systems.									x
Labels and Borders: Labels: allows users to place a text label on shared content. Borders allows shared objects to have a user-defined border color on the video wall.									x
HiperController's wall configurator now integrates the robust video wall layout flexibility of HiperLayout standard. Customers will no longer need a separate HiperLayout license.									x
HiperOperator UI Upgrade with Drag-and-Drop and Drag-and-Swap function, and SmartSnap to wall grids and zone grids; Adds HiperZones support to HiperOperator; Streamlined connections between HiperOperator and Controller PCs								x	x
Drag-and-Drop and Drag-and-Swap with SmartSnap to wall and zone grids added to HiperController; New Dark Mode added to HiperController UI								x	x
HiperZones adds multi-zone environments and ability to rename saved HiperZones while maintaining all zone settings and automations								x	x
Enhanced HiperSource Streamer+ PC KVM functionality from HiperController and HiperOperator								x	x
HiperZones zone and permission control, HiperCast Pull simplified sharing between walls, HiperSource Streamer+ outputs 4K60 content, Zero-cost HiperView+ license upgrades.							x	x	x
Volume controls for screens, individual objects; TCP support for RTSP streams in HiperView IP Streams; H.264 playback support for HiperView Browser.						x	x	x	x
Milestone and Genetec VMS plug-in support, fail-safe content, HiperKVM available in HiperController, HiperOperator can save environments.						x	x	x	x
<u>Improve source acquisition and management:</u> VMS interface, source tab on control panel, HiperSource IP Streams enhancement.						x	x	x	x
<u>dvLED wall support:</u> HiperView Quantum, Wall Grids						x	x	x	x
Continuous content delivery, auto snap, source snapshot						x	x	x	x
HiperSource Browser -- displays ultra-high resolution web content and multiple web pages from a single PC.					x	x	x	x	x
HiperView LED add-on -- eliminates the mismatch between actual and reported LED display resolutions.					x	x	x	x	x
Added new coordinate system to HiperLayout, allows for scaling and rotation of displays.					x	x	x	x	x
Added control in HiperAccess, improved navigation and design tools in Controller, built-in KVM windows.				x	x	x	x	x	x
HiperAccess -- a user-authentication system with user access control, tracking tools, authorization levels.			x	x	x	x	x	x	x
Anchored resizing and multi-select for objects in Core and Premium Hiperwall Controllers.			x	x	x	x	x	x	x
Faster HiperSource Streamer with h.264 encoding		x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>
New nomenclature/SKU reduction, introduction of Hiperwall Premium and Core Suites	x	x	x	x	x	x	x	x	x
Flexible HiperSource licensing, HiperView HD and UHD	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>	x <sup>2</sup>
HiperSource IP Streams	x	x	x	x	x	x	x	x	
Fault tolerance, video engine	x <sup>1</sup>	x <sup>1</sup>	x <sup>1</sup>	x <sup>1</sup>	x <sup>1</sup>	x <sup>1</sup>	x <sup>2</sup>	x <sup>2</sup>	

1 - Included in the Hiperwall Premium Suite (or FT). HiperFailSafe available for à la carte purchase with HiperController.

2 - If you are upgrading from version 4.5 or older, you might need to upgrade your hardware to use this feature. Please see the System Requirements document for the hardware requirements for HiperSource Streamer, HiperView and Controller PCs.

## Detailed Description of Features Added by Version

### Version 9.0

Initial Release - January 2024

Current Release v9.0.0

1. HiperLayout is now standard on all systems and no longer requires a separate license. Now all customers can benefit from the robust custom video layout customization features of HiperLayout. The inclusion of HiperLayout for all users allows every system to be arranged and customized in powerful, useful, and impactful ways. This feature allows multiple walls, wall and display scaling and rotation, customer-defined display computer naming, and more.
2. Labels and Borders integrated into HiperController, HiperOperator and HiperInterface: Labels feature allows users to place a text label on content shared to the video wall to help provide context to what is being shared. Borders allows objects to have a user-defined border color. Emphasizes content shared to a video wall to draw attention.
3. HiperOperator and HiperSource Sender facelifts and capability improvements: HiperOperator gets SmartSnap® HiperSource Sender gets improved support for different DPI settings in multi-display systems, and a new table-based interface to show video wall configurations.
4. Settings and Backup – a feature only available to HiperCare customers, helps with system management and recovery. This makes recovery from hardware failures or even replicating configurations straightforward. It currently supports HiperController and HiperSource Sender - more components will be supported in future releases.

### Version 8.5

Initial Release - February 2023

Last Release v8.5.2

1. HiperOperator Enhancements: An all-new UI design that makes finding and placing content easier than ever. HiperOperator now seamlessly supports HiperZones and multiple video wall systems. v8.5.0 adds Drag-and-Drop functionality with SmartSnap™ to wall grids and zone grids. Introduces SmartSwap™ - allows users to drag new content on top of existing wall/zone content to automatically swap it out. New streamlined process for connecting HiperOperator with HiperController PCs – makes multi-system management painless

2. HiperController adds support for Drag-and-Drop and Drag-and-Swap with SmartSnap™ to wall grids and zone grids. A new Dark Mode visual theme option added to UI.

3. HiperZones received updates to support multi-zone environments. This update allows users to save and load environments that consist of content placed within multiple zones. Multi-Zone Environment works with scheduler for more powerful content automation. HiperZones adds the ability to rename saved HiperZones without compromising saved environments, settings and scheduled content

4. HiperSource Streamer+ access and control updates allows HiperSource Streamer PC desktop content to be opened in a new window on HiperController PCs. Users can KVM control Streamer PC from that window; with 8.0 Streamer+ this could only be done in the control screen in HiperController. HiperSource Streamer+ desktop content can now also be viewed in a new window or in a new tab within the HiperOperator window on HiperOperator PCs. Users can KVM control Streamer PC from either view option.

### Version 8.0

Initial Release - September 2022

Last Release (v 8.0.0)

1. HiperZones: Hiperwall software now allows video wall administrators to define multiple access-controlled zones on a single video wall – turning one video wall into a group of several smaller video wall regions. This feature is ideal for maintaining order within a control room, especially during mission-critical operations, as it enables only designated operators to access, share content to and manipulate their assigned zone of the video wall. Combined with a HiperOperator license, a user can remotely access and share content to their assigned zone from any Windows PC or tablet. Admins with full permissions can access all regions, move objects between them, and take over the entire wall when necessary.

2. HiperCast Pull: simplifies HiperCast configurations (HiperCast connects Hiperwall video wall systems no matter where they are in the world), making it capable of sharing content between an organization's various Hiperwall-powered video walls, without any network or server changes.

Users will now find a 'HiperCast Pull' button at the bottom of the sources tab. Clicking this button brings up a menu of

in-network video walls to connect to, and once connected it users can select which sources they require from all available sources, reducing clutter of unnecessary content sources in the sources tab.

3. HiperSource Streamer+: maximizes the visualization capabilities of Hiperwall Certified HiperView PCs from Seneca, and modern UHD displays by now supporting seamless output of 4K content at 60 frames per second. Because of the upgraded foundational technology that HiperSource 4K60 Streamer is based on, content streams are more efficient than ever, allowing Hiperwall video walls to support more concurrent content streams from a single HiperSource Streamer PC.

4. HiperView+ is a no-cost license upgrade for customers with HiperView PCs equipped with NVIDIA graphics cards. Based on HiperView Quantum technology, HiperView+ delivers high-performance content drawing and synchronized video decoding that enhances HiperView PC performance and video playback capabilities.

#### **Version 7.2.1**

Initial Release - Oct 2021

Last Release (v 7.2.1) - Dec 2021

1. Audio control: Hiperwall has added volume controls for HiperView PCs and individual objects. The user can adjust w/wthe overall volume level of a HiperView PC or granularly adjust volume for specific objects on the wall. Volume can be adjusted from the Controller, HiperOperator, or HiperInterface.
2. TCP support for RTSP streams in HiperView IP Streams. Quality improvement.
3. H.264 playback support for HiperView Browser. Live streams and videos using H.264 will now play in HiperView Browser. Live streams from YouTube enabled.

#### **Version 7.1**

Initial Release - Jun 2021

Last Release (v 7.1.1) - Jul 2021

1. Plug-ins that work with the Milestone and Genetec VMS software to easily connect camera streams from VMS systems to the Hiperwall system.
2. Fail Safe Content--Redundancy for highly important content in case of a source failure.
3. HiperView KVM now available in HiperController.

4. HiperOperator has the ability to save Environments.

#### **Version 7.0**

Initial Release - Jan 2021

Last Iteration (v 7.0.0) - Jan 2021

##### Improved source acquisition and management:

1. Using Hiperwall's HiperInterface application, the user can now access all sources available on a Video Management Systems (VMS) such as Milestone and Genetec. This capability enables the display and management of many sources with fewer HiperSource licenses.
2. Centralized control of sources via a new source manager tab on the control panel which provides convenient and powerful management of sources and source applications. Users can access and browse a list of all available sources, control sources via KVM, create new RTSP streams and open browser windows directly from the Hiperwall Control Panel.
3. Performance improvements within the HiperSource IP Streams application significantly increase the number of source acquisitions from 25 to 80 per IP stream computer which enables existing hardware to manage more sources.

##### dvLED video wall support

1. HiperView Quantum provides state-of-the-art synchronization across multiple LED controllers resulting in a superior visual experience for even the most demanding multimedia content when viewed on a large, high resolution dvLED video wall where multiple LED controllers are required.
2. Wall grids -- Users can now define snap-to grids on a video wall's entire canvas and are not limited by display bezels. This is particularly useful on bezel-free LED video walls and also works in an LCD display configuration.

##### Addition enhancements

1. Continuous content delivery -- minimizes disruptions resulting from a hardware failure. If a display PC or a fail-safe (shadow) controller PC needs replacement, content that was on the failed PC will automatically be delivered to the replacement PC and shown on the wall when the hardware becomes available.
2. Auto Snap -- When users drag and move content, the content will SmartSnap™ to the surrounding snap-to grid automatically. Users will see a preview of the final position before it snaps in place.
3. Source snapshot -- As a way of recording event history,

users can quickly capture a static image of an event for later examination.

### **Version 6.0**

Initial Release - March 2019

Last Iteration (v 6.0.3) - February 2020

HiperSource Browser, a powerful tabbed browsing application. Ultra-high resolution web content support. Send several web pages at once for simultaneous display from a single computer.

HiperView LED add-on allows Hiperwall to drive every pixel of any LED video wall and eliminate any cropping issues that arise from the mismatch of actual vs. reported display resolutions.

Enhanced HiperLayout adds support for different size and resolution displays, as well as rotation to any angle.

MPEG2 Video Support.

### **Version 5.1**

Initial Release - June 2018

Last Iteration (v 5.1.0) - August 2018

Added control in HiperAccess – Allows the administrator to control who can access specific named environments.

A mini-map in the Controller viewer window provides a small zoom-able view of the entire video wall system. This feature simplifies navigating, viewing, and controlling Hiperwall systems with multiple walls, very large array walls, or very spread out video wall layouts. (Only available in the Hiperwall Premium suite, or the Core Suite with the HiperLayout add-on.)

Secure, built-in KVM windows allow direct management and maintenance of computers dedicated to HiperView. (HiperView software controls the video wall's display devices). This eliminates the need to use outside software to manage the system which streamlines operation and improves security.

A real-time, searchable content list in the software's control

panel makes it easier to quickly access the document or tool needed.

Tree expand/collapse buttons in the system's control panel's content tree frees up space.

Easy content swap – Quickly swap the size and position of two objects on the Hiperwall Controller. Stage content in small windows and swap them with larger content on display.

Improved SmartSnap capabilities with anchor point snapping. Clicking one corner of an object will snap that corner to the grid while maintaining the opposite corner's position. This adds another level of precision in positioning an object.

Content targeting – Send a piece of content to a specified wall. Allows greater layout control and prevents disruption of other walls in the system.

### **Version 5.0**

Initial Release - December 2017

Last Iteration (v 5.0.0) - December 2017

HiperAccess, a powerful user authentication capability. Anchored resizing and multi-select for objects. Cursor drawing and vertical/horizontal flipping for HiperSource Streamer with HWV encoding. Many improvements to existing features.

### **Version 4.6**

Initial Release - August 2017

Last Iteration (v 4.6.0) - August 2017

New Streamer h.264 encoding option reduces bandwidth, and takes advantage of hardware acceleration.

Each stream can be configured independently of the others (IE: 1 desktop stream could be HWAssist, while a capture card input could be h.264).

New application icons.

## Version 4.5

### Introduction of Hiperwall Premium and Core Suites

Initial Release - February 2017

Last Iteration (v 4.5.1) - June 2017

(Requires an new no-charge license with upgrade.)

Simplified and clarified product names.

New names include Hiperwall Premium Controller and Hiperwall Core Controller, HiperView, HiperOperator, HiperSource, and HiperCast.

More flexible licensing for HiperSource makes it possible for customers to continuously adjust the combination of Streamers, Senders, and IP Streams in use to satisfy their multimedia requirements.

New software: IP Streams, the HiperSource component for streaming 4K video from IP cameras and RTSP sources, and choice of HD and UHD capability for HiperView software.

HiperCast (formerly Share) is now an option for sharing content with multiple Hiperwall systems.