

GENIUS WALL PROCESSOR WHITEPAPER



UNLOCKING YOUR DIGITAL EXPERIENCE

Total Channel empowers you to seamlessly manage your digital media across diverse platforms, from dynamic digital signage to immersive LCD and LED video walls, IPTV, mobile, and all managed by a simple browser based user interface.

Page 1 | Total Channel Genius Video Wall Processors

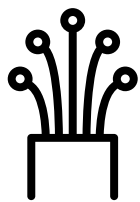
► Important Note

Our Genius wall processors, seamlessly operate on an IT network, requiring minimal cabling only for network and internet connectivity. The magic of streaming enables incredible versatility. If live inputs are needed, they can be easily converted into H.264 streams using affordable encoders.

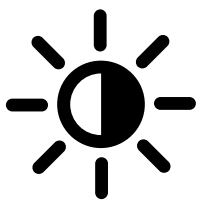
These live inputs, ingested onto the network as streams, can originate from anywhere in the world, even across continents. Operating within a network environment means that live inputs, if necessary, are virtually limitless. For instance, a recent Genius Wall installation integrated 24 encoded laptop sources to feed a Cyber Security Operation Center video wall. Using a custom tablet running Total Channel software, the CSOC proctor can instantly create subgroups from the 24 laptops and route them to the wall in under a second. This capability extends seamlessly to larger scales, accommodating scenarios involving 240 laptops.

Genius represents next-generation technology, supporting unlimited live inputs and distinguishing itself from legacy video wall technology with fixed input limitations.

One Genius Wall Processor manages:



Up to
28 screens



Lighting



Audio



User
Tablets



Presenter
Tablets

The Genius Wall Processor not only creates high-resolution images in any pixel count or custom aspect ratio, and also stores all content for playback.

Genius Single Input!

Total Channel's Genius Wall Delivers Infinite Input Expandability—Leaving Competitors' Outdated Systems in the Dust!

Total Channel's Genius Wall is the **only solution on the market that offers infinite input expandability** through a **single network input**. You can grow and scale your system without ever touching your hardware.

Competitors? They'll lock you into rigid systems with multiple hardwired inputs, forcing you to guess what your needs will be years from now and leaving you scrambling when it's time to expand.

Why risk that? With Total-Channel's Genius Wall, inputs can be encoded into H.264 streams—**meaning you can add more inputs whenever you need, with zero downtime and no expensive hardware upgrades**. This isn't just a feature; it's a game-changer.

The competition simply can't offer this level of flexibility and future-proofing. Their systems are designed for yesterday's needs, while Genius Wall is built for tomorrow's. **The question is simple: Do you want a system that will grow with you, or one that will hold you back?**

Make the smart choice. Total Channel's Genius Wall is ready to scale as you grow—giving you the power to expand without limits and stay ahead of the competition.



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Revolutionary Technology

Total Channel introduces the next revolution in video wall processing and management with Total Channel Genius. This next-generation technology is distinct from legacy video wall systems, breaking away from fixed limitations on live inputs. After 8 years of development and testing, Total Channel Genius is a modern reimagining of video wall technology, offering unprecedented capabilities.

Unmatched Features

Total Channel Genius transcends traditional hardware-based platforms by leveraging the world's fastest computer workstation. This powerhouse not only delivers super high-resolution pixel-mapped images but also serves as a comprehensive content creation, management, storage, and playback solution.

Remote Management and Flexibility

In a landscape dominated by LED video walls, content freshness is paramount. Owners require efficient remote management capabilities, a challenge seamlessly addressed by Genius. Our feature-rich, professionally supported networked system empowers sophisticated remote content management, production, and complete remote oversight of LED walls worldwide.

Versatile Capabilities

A basic Genius model can locally manage up to 4 separate walls with resolutions of 24K, applicable across LED, LCD, or projected walls. Our scalable Total Channel servers can oversee hundreds or thousands of walls from a single server, whether deployed on-premise, in the cloud, or adjacent to the wall processor.

Experience Total Channel Genius today. Contact us at sales@total-channel.com for an online demo.

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Total Channel's Mission Control platform empowers users with the ability to change content dynamically and securely from any location with internet access, offering dual-factor login and optional active directory integration for enhanced security. The Active Folders feature simplifies content management by allowing operators to effortlessly drop new content into designated folders, automatically populating playlists. This multi-tenant system creates separate login portals tailored for unlimited clients, departments, companies, or users, with access control managed by the server owner or User Admin.

Mission Control ensures granular control over user permissions and system features, with unlimited Departments and Users each having specific permissions and exclusion settings. The platform includes robust permission settings and an automatic approval system for new content before publication, ensuring a streamlined workflow. Supporting various media file types simultaneously on-screen without requiring conversion, Mission Control enables seamless content integration and playback.

Operators can monitor live content playback globally by logging into the portal, while real-time health monitoring of server units provides instant insights into CPU usage, memory usage, drive storage, and other parameters. Automated monitoring features within Mission Control facilitate remote restarts of Genius wall players during power outages and send alerts via email for any operational issues.

Additionally, Mission Control features a collaboration tool that fosters communication and content collaboration among users and creative talent, enhancing workflow efficiency and creativity. Total Channel Genius walls are powered by the Windows operating system, while Mission Control Servers support both Windows and Linux OS, ensuring compatibility and flexibility for diverse environments.

Page 4 | Synchronize Your Media Universe with Total Channel

Total Channel empowers you to seamlessly manage your digital media across diverse platforms, from dynamic digital signage to immersive LCD and LED video walls, IPTV, mobile, and all managed by a simple browser based user interface. Built on the pillars of top-tier software, cutting-edge hardware, and unwavering support, Total Channel offers a tailored digital media solution infused with timeless values.

WHO WE ARE

At Total Channel, we are on a mission to redefine the landscape of integrated IPTV and digital signage solutions. Our team is comprised of technology experts, seasoned consultants, trusted manufacturers' representatives, software specialists, and audiovisual technology integrators. Together, we pave the way for the next evolution in digital media creation, management, and delivery through our innovative platform—Mission Control.

OUR MISSION

We collaborate closely with leading technology providers to bring your digital vision to life. Our approach marries top-notch software with best-in-class hardware, underpinned by round-the-clock, perpetual support. We are committed to ensuring that your digital presence not only meets but exceeds expectations.

WHAT WE DO

Total Channel offers end-to-end support, from inception to execution, for all your digital media endeavors. Whether you're looking to enhance sales strategies, streamline operations, or seek technical guidance, we've got you covered. Our expertise spans digital media content creation, meticulous management, and seamless networked delivery using IPTV, traditional digital signage, remote-controlled LCD and LED video walls, and internet broadcast TV channels.

OUR VISION

Elevate your digital journey with Total Channel, a partner dedicated to transforming your digital landscape. Gain access to unparalleled technology solutions tailored specifically to your unique needs.