

π

PI Video Wall



The

World's First Ever-Living, Ever-Growing Monument to π

PI Video Wall

The PI Video Wall is an unprecedented fusion of mathematics, technology, music, and art — a continuously calculating, ever-expanding visual and auditory representation of the digits of π (Pi). This interactive installation will be accessible globally through mobile apps, the internet, and future technologies, while also offering a tactile, walk-up experience for local visitors. Now is the ideal time to bring this vision to life. Advances in high-performance computing, large-scale display technology, and app connectivity make it possible to create a truly unique, globally accessible monument to mathematics. The PI Video Wall will place its sponsoring organization at the center of a worldwide STEM conversation, while creating an enduring cultural landmark. With a projected budget of \$2,750,000, the PI Video Wall will be housed in a publicly accessible space provided by a sponsoring organization. The partnership will deliver worldwide exposure, long-term educational enrichment, and unparalleled co-branding opportunities.

Vision

I am Michael Droste, a retired technology teacher and musician from Illinois. My dream is to create a Calculating Wall of PI that will continue computing and displaying the digits of π long after my lifetime — an eternal mathematical heartbeat visible to the world.

This project will merge:

- Advanced computing technology
- Artistic video wall design
- Interactive mobile control
- Live-streamed music generated from PI's digits
- Global educational outreach

Benefits for the Sponsoring Organization

- Perpetual Global Branding — Prominent display of the organization's name on all apps, livestreams, websites, and promotional material, ensuring ongoing visibility for decades.
- Exclusive Venue Rights — Host up to 250 events per year at the installation, with global livestreaming capability.
- Quantifiable Audience Reach — Estimated annual foot traffic of 50,000+ visitors; potential online audience in the millions through global streaming and mobile access.
- Tourism & Revenue Potential — Attract STEM enthusiasts, students, educators, tourists, and media coverage, positioning the organization as a cultural and educational leader.
- Prestige in Education & Innovation — Become the permanent home of the world's most advanced public PI installation, supporting STEM learning and creative expression worldwide.
- Long-Term Content Control — Influence software updates, educational programming, and events to align with the organization's mission.

Project Objectives

1. Core Technology

- Triple-Redundant Scientific-Level Computers with Error Correcting RAM, independent storage, and cloud backup — all calculating π in parallel for data integrity.
- Automated failover and data verification to ensure uninterrupted operation for decades.

2. Global Access

- Free mobile apps for all platforms, synchronized to the PI Wall's real-time calculation.
- Control interface for remote users to select visual templates, audio settings, and calculation speed.
- Live streaming of the wall via multi-angle webcams.

3. Immersive Experience

- 1,000 animated visual templates for PI display.
- Base 10 music system mapping digits (0–9) to musical tones, creating an evolving “Song of PI.”
- Hundreds of selectable tones to personalize the PI music, adjustable tempo in sync with calculations.
- Local Control Terminal with a brushed aluminum dial and granite base for on-site interaction.

4. Educational Outreach

- Curriculum and resources from beginner-level explanations to advanced mathematical theory.
- Ability to transform the PI Wall into an educational display, while continuing to stream digits at the bottom.
- Potential for hosting lectures, seminars, and artistic events.

Resources Required

Equipment

- 36+ 4K 55" displays with aluminum mounting structure.
- Multi-system video switching hardware & cabling.
- Redundant high-performance computing systems with multiple GPUs.
- Audiophile-quality sound system.
- Full webcam streaming setup.
- Plexiglass protective front panel.
- Black wall construction to frame the installation.

Personnel

- Redundancy-specialized Computer Programmer
- Mobile App Developer
- Multimedia & Web Developer
- Video Consultant
- Sign Programmer
- Construction & Electrical Teams
- Ongoing operations staff for monitoring and maintenance. Budget Estimate Total Projected Cost: \$2,750,000 Includes all equipment, software development, staffing, construction, and initial 3-year maintenance plan.

Pledge Levels (PIE Levels)

Level	Amount	Recognition
Blueberry PI	\$50	Name on supporter webpage
Pecan PI	\$250	Name on special supporter webpage
Cherry PI	\$500	Name on wall by the machine + special webpage
Apple PI	\$1,000	Name on contributor wall + special webpage
Strawberry PI	\$10,000	Name on plaque on PI wall + special webpage
Lemon Meringue PI	\$100,000	Special plaque on PI wall + special webpage
Key Lime PI	\$1,000,000	Name on front of PI Wall + special webpage

Conclusion

The PI Video Wall is more than a technological project — it's a cultural and educational landmark, a living artwork, and a bridge between mathematics and music. It will inspire students, captivate visitors, and connect a worldwide community of math lovers. Contact me today to schedule a presentation and explore how your organization can be the home of the PI Video Wall.