

Dominic Harris' Immersive Art Projects Enhanced by Newnex's FireNEX™-80G

Background

Dominic Harris, a leader in immersive and interactive art, creates installations that engage viewers through dynamic responsiveness. To enable seamless connectivity across their large-scale projects, Harris' team selects the Newnex FireNEX™-80G USB 3.2 Fiber Optic Extension System, a solution that is critical for reliably **integrating multiple Microsoft Azure Kinect 3D cameras into these projects.**

Solution

FireNEX™-80G's Multi-Camera Support and Scalability

The Newnex FireNEX™-80G is chosen for its ability to support multiple cameras without bandwidth sharing, ensuring **independent, high-quality data streams for each camera**—an essential feature for maintaining responsiveness in Harris's interactive projects.

FireNEX™-80G also offers unmatched scalability, allowing the team to start with one Remote Unit and add more units as needed. This modular setup **simplifies project expansion**, requiring only the connection of additional units to the original Local Unit.

With FireNEX™-80G, Harris' team successfully implemented multiple installations with **up to eight Azure Kinect cameras running 24/7**, without any issues. The system's incremental expandability provides flexibility in camera placement and helps streamline setup costs, maximizing creative freedom.

*"For us, the FireNEX™-80G is the perfect product in terms of **price, reliability, and simplification** of the extension process."*



Gorka Cortazar
Immersive Team Lead, Dominic Harris

Challenges

Harris' installations require several Kinect Azure 3D cameras working together to capture complex 3D data, such as depth and skeletal tracking. Standard USB extenders encounter **challenges with data bandwidth sharing, interference, and frame drops** when multiple cameras run simultaneously. Additionally, as projects grow, the team often needs a scalable solution for easy expansion without reconfiguring the entire setup.

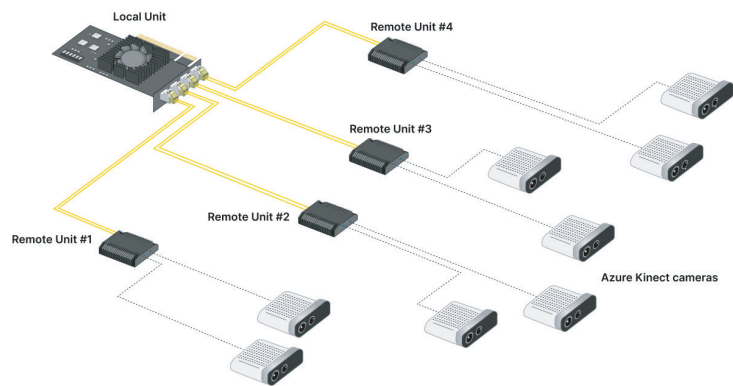


Diagram of FireNEX™-80G System Setup

Conclusion

Dominic Harris' immersive art projects showcase **optimal performance of FireNEX™-80G in fast data transferring, reliable, and scalable multi-camera setups**, without bandwidth sharing.

Newnex also offers a comprehensive range of USB connectivity solutions—including cables, extenders, and more—to meet diverse project needs. For those seeking high-performance USB connectivity solutions, Newnex is here to help bring their vision to life.