



StypeLand XR

SPECIFICALLY DESIGNED FOR LED VOLUMES
TO ASSIST WITH XR PRODUCTION

Television
Academy



PROUD WINNER OF THE
GEORGE WENSEL TECHNICAL ACHIEVEMENT
EMMY® AWARDS

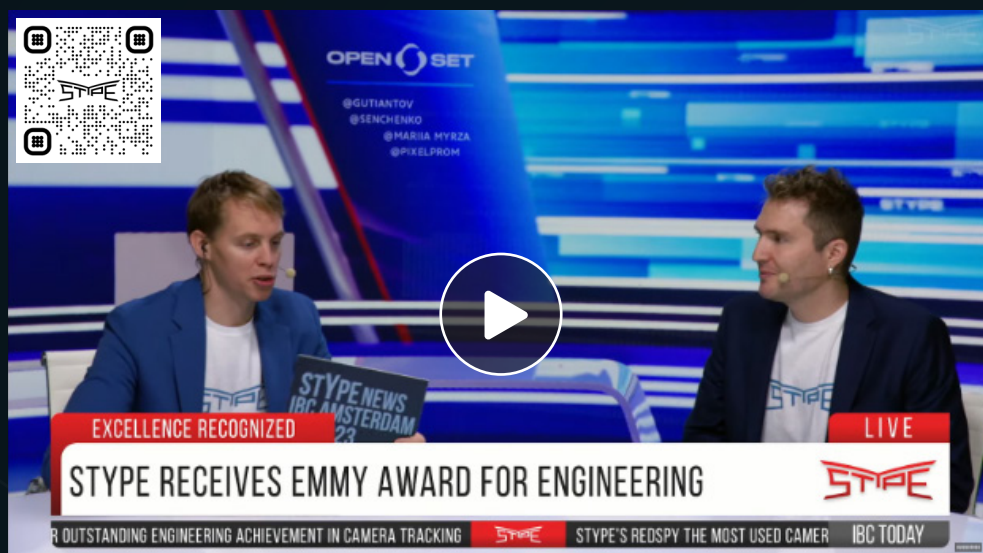


StypeLand XR is a cutting-edge Virtual Production plugin for Unreal Engine from stYPE that sets a new standard in LED volume production, delivering industry-leading results that are unmatched in visual quality and realism.

StypeLand XR identifies and solves the biggest challenges in LED volume production, taking it to the next level.

It allows graphics to be mapped onto LED panels for XR environments, while also solving these complex challenges:

- Color matching calibration of all LED panels in the studio, regardless of their physical position and orientation
- Realistic Virtual Set extensions
- Smooth and reliable multi-camera workflows



COLOR CALIBRATION

Color calibration is a crucial feature in StypeLand XR, ensuring that the colors on the LED walls appear consistent from any viewing angle. When constructing XR sets with multiple LED panels, especially at sharp angles, color discrepancies can often occur at the seams.

To deliver a truly immersive XR experience, these inconsistencies must be minimized. StypeLand XR eliminates such issues, providing a seamless and visually accurate environment.



Color Calibration OFF



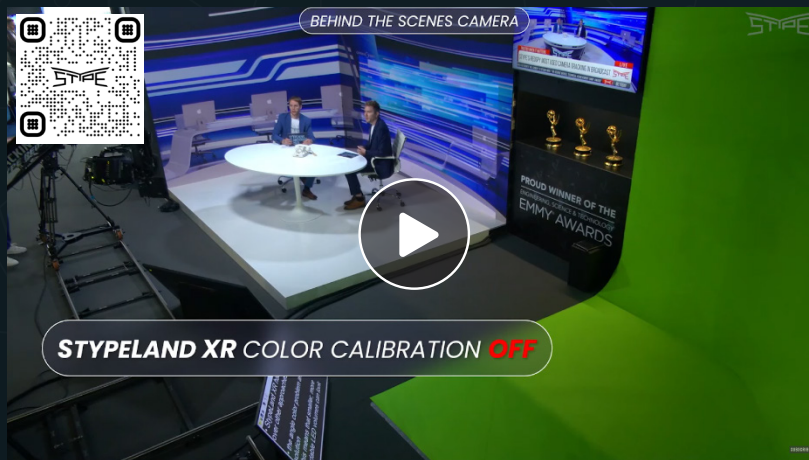
Color Calibration ON



Color Calibration OFF



Color Calibration ON



*Check out the linked video to learn more about
Color Calibration.*



USING SET EXTENSION

When working with limited studio space, StypeLand XR's Set Extension feature offers a powerful solution. By defining the boundaries of your physical LED volume, we can project an AR overlay that seamlessly extends your set.

Achieving color consistency between the physical set and the AR overlay can be a challenge due to the inherent differences in how the two are captured. The physical set is shot by the camera, which captures the real-world light and color information. In contrast, the AR overlay is rendered directly in a computer, using digital algorithms to simulate the appearance of real-world objects and environments. This difference in capture methods can lead to discrepancies in color and lighting, making it challenging to achieve a seamless transition between the two elements.

However, StypeLand XR's advanced algorithms ensure a seamless transition, delivering a cohesive and immersive XR experience. This is the smoothest your XR set will look.



nDisplay

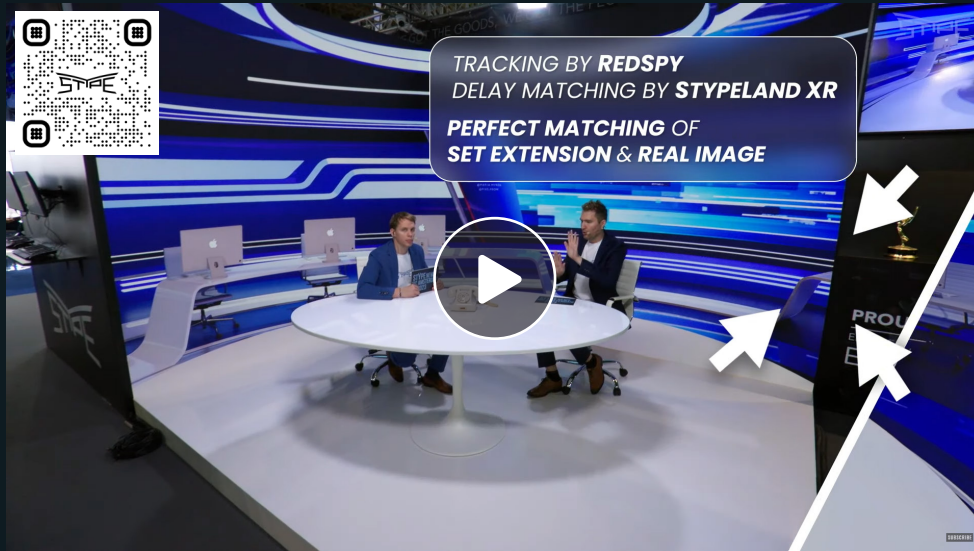


Set Extension with nDisplay



Set Extension with StypeLand XR





Check out the linked video to learn more about Set Extensions.

MULTI-CAMERA WORKFLOW TECHNOLOGY

What if you need to shoot with multiple cameras in the same LED volume? An LED panel can typically only display graphics from one angle, right? Yes, but there's a twist.

StypeLand XR enables you to shoot with multiple cameras within the same LED volume. It achieves this through frame remapping technology, where the LED volume alternates between frames—one frame is displayed for one camera, the next for another, and so on, depending on how many cameras you're using simultaneously.

StypeLand XR algorithms adjust shutter timings, allowing each camera to capture its own unique image and perspective of the virtual set, making multi-camera workflows possible even in LED volume productions.

This multi-camera approach not only reduces installation and production times but also allows for "real-time post-production" with free positioning and camera movement, all within a near-zero latency environment.





Check out the linked video to learn more about Multi-camera Workflow Technology.

HARDWARE SPECIFICATIONS

StypeLand XR recommended hardware specifications stand out significantly because we integrate Genlock directly through a video I/O card, eliminating the need for expensive Quadro Sync technology. Instead, we utilize the Nvidia GeForce RTX 4090 graphics card, making our solution both more efficient and cost-effective.





NFL Sunday

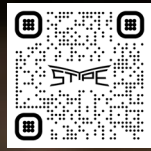
FOX Sports NFL Sunday production utilized StypeLand XR, an AR extension for LED screens. Featuring the Follower motion tracking system and GhostFrame technology, this project set a new standard, winning the 2023 George Wensel Technical Emmy Award.



Veles Productions Elections 2023

Our team was honored to participate in a historic event: the 2023 Polish Election Night. The event was broadcast live on national television in Poland by Telewizja Polska. Our simple objective was to create an immersive and dynamic viewing experience for the audience. This was the first use of live TV multicam XR GhostFrame production for live elections.



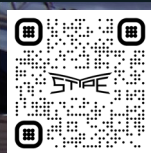


XITELABS XR - DEMO 01

SECRET TEMPLE

XiteLabs

"Secret Temple" was filmed with a small XR setup, showcasing seamless integration of physical and virtual worlds. StypeLand XR's precise color matching on LED panels brought every set extension to life, creating a truly photorealistic experience



EURO 2024 Germany

In Berlin, two stunning studios have been set up: an outdoor terrace and an indoor studio. Inspired by the Brandenburg Gate, the architectural elements create a cohesive "Berlin museum" feel, all made possible by the power of stYPE Virtual Production Solutions





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