

NANOLUMENS® PERFORMANCE SERIES™ DISPLAYS PROVIDE THE ULTIMATE DIGITAL CANVAS FOR STUNNING VISUALS AT SINGAPORE CHANGI AIRPORT'S NEW TERMINAL 4

Beating out the competition, NanoLumens designs a custom Nixel™ solution for one of the world's largest indoor airport displays.

ATLANTA, GEORGIA, September 7, 2017 — Singapore's Changi Airport regularly tops the list of the world's best airports, featuring a wide range of facilities to inform and delight passengers and soon, with the imminent launch of the new T4 terminal, robotic "housekeepers", a full suite of self-service options from check-in, immigration to boarding, plus two state-of-the-art **NanoLumens® Performance Series™** LED displays that will captivate passengers with high-definition digital content 24 hours a day. Selected as the best digital display solution from a large pool of competing manufacturers, the NanoLumens LED displays allow the beautiful, enthralling visuals created by **Moment Factory** to achieve their maximum impact for all airport passengers and visitors.

Located above T4's centralized security screening area, the "Immersive Wall" is an impressive 70 meters wide by 5 meters tall with a 6mm pixel pitch and has been dubbed one of the largest indoor airport displays in the world. Additionally, NanoLumens was chosen for a 10-meter-wide by 6-meter-tall, 4mm pixel pitch display in the departure transit area's Heritage Zone, which is built directly into a shophouse facade with several faux building fronts that highlight the island nation's architectural evolution from the 1880's to the 1950's.

Chosen because of their ability to meet strict RFP specifications, NanoLumens created a custom solution specifically for Changi based on a redesign of their proprietary Nixel Series™ technology that was able to accommodate the demanding Moment Factory content. The solution required several mechanical enhancements in order to overcome EMI, EMC and other strict RFP specifications. The new rigid Nixel™ technology is truly optimized for being flat with a larger diode for the highest brightness and is rear serviceable. Being able to access the displays from a high vantage point through rear service will keep traveler visibility of the displays at an absolute maximum.

Both displays run throughout the day, with the Immersive Wall displaying flowing, geometric waves of 3D animations, picturesque life-like scenes from throughout Singapore, and a funny, playful animation of the imaginary journey luggage takes after check-in. The Heritage Zone display, on the other hand, is integrated convincingly into the zone's facade, comprising the second floor of two of the buildings and

showing *Peranakan Love Story*, a dramatic original film set in 1930s Singapore. The video seems to blend right into the buildings, giving passersby a seamless view into the country's cultural history. All of the digital content was produced by Moment Factory. According to NanoLumens Vice President of Sales Almir DeCarvalho, the gorgeous final product is the result of successful collaboration and a highly detailed bidding and engineering process.

“This project was one of the most rigorous, competitive bidding processes we've ever been part of, and the resulting installation shows exactly why NanoLumens was the winner,” DeCarvalho said, beaming with pride. “After a series of grueling demonstrations, investors, executives and government representatives all scored the displays on visual appeal and underlying technology, and unanimously voted NanoLumens the best of the best. We met or beat every spec they required, including weight, power draw, brightness, viewing angles, electromagnetic compatibility and electronic magnetic interference limits.”

Electronics & Engineering PTE LTD, (E&E) one of the leading electronic integrators in the Asia Pacific region, completed the installation of the NanoLumens displays, along with much of the other innovative technologies in T4. CEO Mr. Ronald Goh, was recently listed as one of the top 50 influencers in Singapore as part of the SG50. One of the most striking results of this installation was that NanoLumens and E&E delivered every part of the product and installation on schedule, which is rare for a project of this magnitude and complexity. The on-time completion reflects both companies' strict dedication to the project and corporate culture that prioritises every client's satisfaction.

“With roughly a year of just the bidding process, not to mention the actual installation, this was a highly complex project with many, many moving parts,” said Martin Leclerc, Director of International Sales. “Working with E&E was a great partnership that produced fantastic on-time results, which industry insiders know isn't always the case with contractors, particularly on large jobs, even this specific one. When one considers the consistent, rigorous testing we performed to ensure our specs were accurate and lived up to Moment Factory's requirements, it's obvious everyone involved was focused on every detail, every step of the way.”

Terminal 4 was open to the public for an open house from August 7 – 22, 2017 with the terminal expected to be operational later this year.