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DIGITAL LIGHT CANVAS

Introduction

Located at The Shoppes at Marina Bay Sands, the Digital Light Canvas is a permanent attraction that takes immersive experiences to new heights through a multi-sensory combination of two highly interactive technologies.

Launched in December 2017, the Digital Light Canvas by teamLab is an unprecedented installation combining a 4D vision display technology and an interactive LED floor. Created by award winning international art collective teamLab, the attraction features a majestic 14-metre tall light sculpture suspended from the ceiling, over a dynamic LED floor that interacts with its audience. It aims to evoke in visitors a sense of wonder through the convergence of light and nature.

Throughout the day, the ticketed attraction at The Shoppes at Marina Bay Sands features three different show modes accompanied by unique soundtracks. Users will also be able to activate a series of special effects through their personal mobile devices.

The Three Show Modes:

Graffiti Nature

This large-scale installation transforms the digital ecosystem into a menagerie of animals that roam freely alongside blooming flowers as they are brought to life from drawings made by visitors. Their drawings will come to life on a dynamic LED floor through innovative digital technology, captivating audiences of all ages as they interact with the animated flora and fauna moving freely around their feet.

Each of the flowers, reptiles, insects, and amphibians depicted in the installation are endangered species from the Red List of the International Union for Conservation of Nature. In addition to the Siamese Crocodile, visitors can draw and learn about the Cave Racer Snake, Southern Torrent Frog, Borneo Birdwing Butterfly and the Calypso Orchid among many others.

Additionally, the artwork forms an ecosystem where visitors can experience the intrinsic ties between all living things. The creatures drawn by visitors will multiply if they eat others, but will disappear if they do not eat enough, or are eaten by other animals. In that sense, the artwork

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explores the circle of life within nature, and invites visitors to consider the fragility and richness of the natural world.

Sketch Factory

Drawings created in *Graffiti Nature* can be made into uniquely personal memorabilia for visitors to take home with them at Sketch Factory. These souvenirs include a tin badge, t-shirt, and tote bag. Orders can simply be made at the order terminal in the Sketch Factory, and items will be fabricated right on the spot.

Strokes of Life

This artistic form of storytelling uses a contemporary form of traditional Japanese calligraphy, birds, butterflies, and flowers to depict life. This 4-min show mode, which runs every 30 minutes from the start of the hour, presents beautiful strokes of calligraphy on the LED floor when people stand on it. Thereafter, these deep, bold, and powerful brushstrokes of calligraphy spring to life, and are illuminated in the cylinder within the light sculpture.

An extension of *Strokes of Life* also allows users to express their wishes via three-dimensional calligraphy. From anniversary and birthday greetings, to wedding proposals, this mode allows users to cast a message on the LED floor via their smart mobile devices using a paid, one-time unique serial code. Users have the option of providing a name to complement the message, which will be written in beautiful calligraphy on the floor, with a burst of fireworks in the light sculpture.

Fast Facts on Digital Light Canvas

- The Digital Light Canvas by teamLab is a multi-sensory experience that enlivens the retail space and makes technology-driven art accessible to the public.
- International art collective teamLab, the creator behind ArtScience Museum's permanent exhibition *Future World: Where Art Meets Science*, was commissioned by The Shoppes at Marina Bay Sands to develop this unique digital installation.

The Technology

Digital Light Canvas by teamLab combines 4D vision display technology and an LED floor.

- The installation utilizes proprietary 3D rendering software, and LED strips and panels.
- It measures a total height of 20 metres in its entirety, including a 14-metre tall light sculpture suspended six metres above ground.

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- The light sculpture measures seven metres in diameter, while the LED floor spans 15 metres in diameter.
- The light sculpture consists of over 401,000 full-coloured LEDs, strung within 608 tubes hanging within the cylindrical sculpture. The number of LEDs is more than twice that in the Crystal Universe exhibit in *Future World: Where Art Meets Science*.
- These LEDs are energy efficient, yet able to produce an output three times brighter than normal LEDs, to enhance visibility during the day.
- The LED floor consists of more than 7.7 million individually controlled LEDs. Graphics on the floor are rendered in real time in reaction to people's behavior and movement.
- Visitors located within the vicinity are able to cast elements such as fireworks and festive ornaments on the installation via their own mobile devices simply by scanning a QR code.

Visitor Information

- Digital Light Canvas by teamLab is open from 11am to 9pm daily.
- General admission to the attraction is S\$8.55 for Sands LifeStyle members (complimentary for children 2 years old and below), while non-Sands LifeStyle members can purchase their tickets via [Fever](#).
- The price of a unique serial code required to customise a message on the Digital Light Canvas by teamLab is S\$50. The code is valid for 14 days upon registration at the ticketing counter.
- For more information, visit MarinaBaySands.com/DigitalLightCanvas.