

## 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 is an unprecedented installation combining a 4D vision display technology and an interactive LED floor. Created by award winning Japanese 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:

#### ***Nature's Rhythm***

This show mode expresses the primitive biological mechanism that causes flocks of fishes and birds to move in a unified purpose. In this mode, a flock of birds fly freely through the light sculpture, while thousands of fish swim across the gradient blue LED floor symbolizing the ocean. The fish get stained in different colours as users interact with them, and react with the birds flying above.

#### ***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.

#### ***Festive Celebration***

The main star of this mode is the interactive 4D vision light sculpture, which allows users to activate three-dimensional imageries made of light crystals, simply by connecting to an exclusive on-site WiFi using their smart phones. Users can decorate the light sculpture by sending three-dimensional festive ornaments to the teamLab Crystal Tree, or set off over 30 different animated teamLab Crystal Fireworks and light displays. This mode is only activated during celebratory seasons.

# Fact Sheet



## Fast Facts

- The Digital Light Canvas is a multi-sensory experience that enlivens the retail space and makes technology-driven art accessible to the public.
- Japanese 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 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.
- 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 is open from 11am to 9pm daily.
- General admission to the attraction is S\$5 (complimentary for children 2 years old and below).
- Future World exhibition ticketholders also enjoy complimentary access to the attraction.
- The price of a unique serial code required to customise a message on the Digital Light Canvas is S\$50. The code is valid for 14 days upon registration at the ticketing counter.
- For more information, visit [MarinaBaySands.com/DigitalLightCanvas](https://MarinaBaySands.com/DigitalLightCanvas).