



Suntec City Singapore holds Guinness World Record



In 2013, Suntec Singapore Convention and Exhibition Centre entered the Guinness World Records for the Largest High Definition Video Wall in the world. The digital video wall covers 556 sqm (5,986 sq. ft.) with its 664 units of 55 inch HD screens.

This is just part of Suntec Singapore's efforts to be the best in everything it does. As you walk through its halls and passages, you will be amazed at what you see there - from exhibitions of modern art to some of the best coffee that you can find anywhere. The entire facility is so much more than a convention centre - it is a lifestyle experience!

And as part of his vision of building a state of the art convention centre, CEO Arun Madhok implemented a cutting-edge video analytics system to do everything he needs, from managing crowds to detecting potential issues. In this video, Mr. Madhok shares his experience of implementing the system and the benefits that Suntec Singapore have reaped since - <https://youtu.be/eowNe6FDFm0>



30 PATENTS

*across **10** technology families*

*across **4** geographies*

Larsen and Toubro Limited (L&T) partners with iOmniscient

The Control & Automation Business Unit of **Larsen and Toubro Limited (L&T)** is the world's third largest Systems Integrator in their field. They have a dominant market position across multiple sectors from Oil & Gas, Mineral & Metals to Power Generation and in India, also in Infrastructure development. It is positioning itself as one of the driving forces in India's burgeoning Smart City Program for different solutions including Surveillance Systems.



L&T has decided to partner with iOmniscient to provide intelligent multi-sensor analytics solutions across these markets worldwide. These specially engineered solutions will be offered under L&T's own **i-Vision** brand.

Mr. Chattopadhyay, who heads the Control & Automation Business Unit that will drive this relationship said, "L&T is in the business of offering solutions to the market that will work well and deliver real value to our customers. We evaluated many solutions and determined that the majority were very simple & would not cope with the complexity of our customers' environments. We selected iOmniscient because we wanted to offer a solution of the quality and sophistication that our customers would expect from L&T. So we were focussed on getting the Best in Class. And there was nothing that came close to the iOmniscient offering."

Dr Kanga, iOmniscient CEO emphasized that L&T's extensive and widely distributed engineering team would ensure that very large projects could now be implemented seamlessly.

iOmniscient is now with Microsoft's CityNext

iOmniscient has joined Microsoft's CityNext initiative designed to help governments, businesses, and citizens reimagine what is next for their cities.

It is a "people-first approach to city innovation," empowering city governments, businesses and citizens to address challenges, spur economic growth, and transform where they work and live. This partnership will help iOmniscient and Microsoft to leverage from each other's expertise and make our cities safer, more secure and more efficient.

iOmniscient's iQ-Smart City is at the center of this partnership. It is a comprehensive portfolio of capabilities for managing people and traffic in a modern city using intelligent video, sound and smell analytics. Incorporating its new, patented Rapid Automated Response technologies a city can now offer its citizens much higher levels of service at ever decreasing costs. Using Big Data concepts, the system is able to process large quantities of real time and forensic information to enable the user to predict events and to manage a large city with limited resources.



"Our participation in Microsoft's CityNext initiative demonstrates our commitment to helping cities innovate and modernize for the future. Microsoft solutions will provide us with greater opportunities to help city customers transform their operations through familiar, secure technology and devices and engage their citizens and businesses through social media and apps," said Ivy Li, iOmniscient's MD.

SMART CITY PLAZA SMART CITY EXPO, BARCELONA

Microsoft is the Platinum sponsor of the Smart City Expo World Congress to be held in Barcelona shortly (see below). We are honored to be one of the very few companies invited to support their CityNext Program by showcasing a range of technologies LIVE in the Smart City Plaza being set up at the show.

Amongst other things we will be showing our unique Face Recognition in a Crowd system. Another new innovation which will be demonstrated is our highly accurate counting system for crowded environments using the new depth sensor cameras.

Upcoming Event

Smart City Expo, Barcelona

Nov 17-19, 2015

Booth: Microsoft Booth and Smart City Plaza

Venue: Fira de Barcelona (Recinto Ferial Gran Via)

See a Live demo of our Face Recognition in a Crowd and 3D People Counting system

Book a Meeting

Innovations from 2015



After a decade and a half, iOmniscient's rate of innovation continues to accelerate. One major new capability each year would be considered the norm for most players in the industry; iOmniscient has released the following over the last 18 months:

- Automated Response (Patented): Ability of the camera to find nearest First Responder and send him the event information with instructions for response – reducing response times by 80%
- Multi-sensor analytics (Patented): Integrated analytics based on video, sound and smell increasing the reliability of observations
- iQ-Optimizer (Patented): Ability to separate and store important information in High Resolution and less important information in Low Resolution – saving 90% of storage requirements.
- iQ-Mobile - Control: The Smart Phone based control room improving user efficiency while reducing manpower.
- iQ-Mobile - Discovery: Face Recognition on a Smart Phone increasing user productivity.
- Accurate Counting System (Patented): Ability to count with 99% accuracy in crowds.
- Dwell Time Management (Patented): Technology for determining how long a person spends in an environment improving business intelligence.
- Advanced Smoke and Fire Detection (Patented): Ability to detect smoke and fire in crowded environments with high ceilings where traditional detectors do not work - increasing safety.
- Safety system based on Depth Sensing Cameras (Patented): Currently targeted at the Healthcare market - helping to care better for our aged and sick.

In addition significant improvements were made with respect to accuracy and robustness of many of the existing products.

Worldwide Engineering Manager, Bala Rajendran discusses Development Platforms

iOmni News:

What types of platforms does iOmniscient use?

Bala:

All our systems use some form of Windows as the Operating System. For our databases we tend to use Microsoft's SQL database. We also use some Microsoft hardware of the type they have developed for the gaming industry. We have international patents on the use of these in various types of security and safety systems. Finally all our technology is Azure enabled.



iOmni News:

So essentially you are a Microsoft shop. Why?

Bala:

It is a mutually symbiotic relationship. We find their building blocks are comprehensive and provide us with a number of enabling technologies that we need. We are experts in Artificial Intelligence. They are experts in platforms. It is a good synergy.

iOmni News:

Do you run on the latest versions of everything?

Bala:

There is always some time lag because once we upgrade we do have to put our entire system through a rigorous Quality Assurance process. However there is an incentive for us to move to the latest versions as we can then take advantage of the latest new features in the system.

iOmni News:

We have heard it said that Linux based systems are much more stable compared to Windows.

Bala:

There are many myths in the industry and that is one of them. We have used Microsoft platforms in production systems for 15 years and I don't believe our customers have had any problems with instability in that time.

iOmni News:

Also Linux is supposedly free.

Bala:

You get what you pay for. If you want systems that are well engineered you are going to have to pay for them.

iOmni News

Do you use any other platforms at all?

Bala: :

Sure. We do where it makes sense. For instance for our Smart Phone based systems we use Android.

iOmni News:

What about the other major platform and database suppliers.

Bala:

We do work with multiple suppliers. However at this stage we tend to build bridges to them.

iOmni News:

Thanks Bala.

Winner - Global Security Challenge for Crowded Places