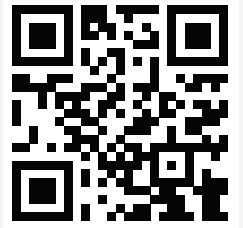


AN EXCLUSIVE MAGAZINE FOR THE SMART HOME INDUSTRY.

SMARTHOME WORLD

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Smart Home Security Market's Positive Growth and New Technologies

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Ar. Arjun Rathi

Shares his views on technology-driven lighting designs



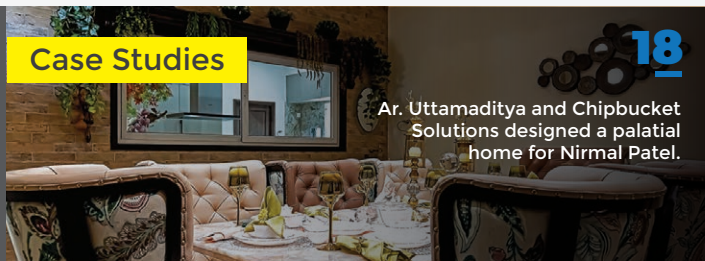
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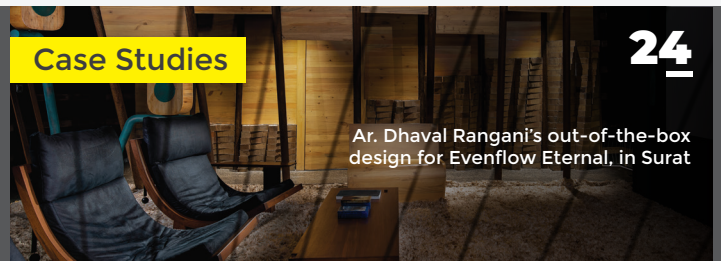
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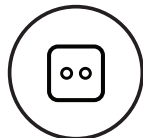


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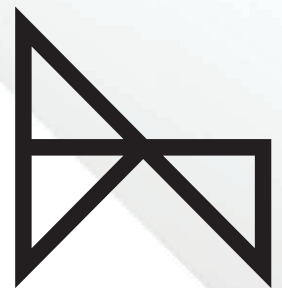
HOGAR APP



VOICE COMMANDS VIA ALEXA/GOOGLE



TALK TO OTHER SMART HOME DEVICES



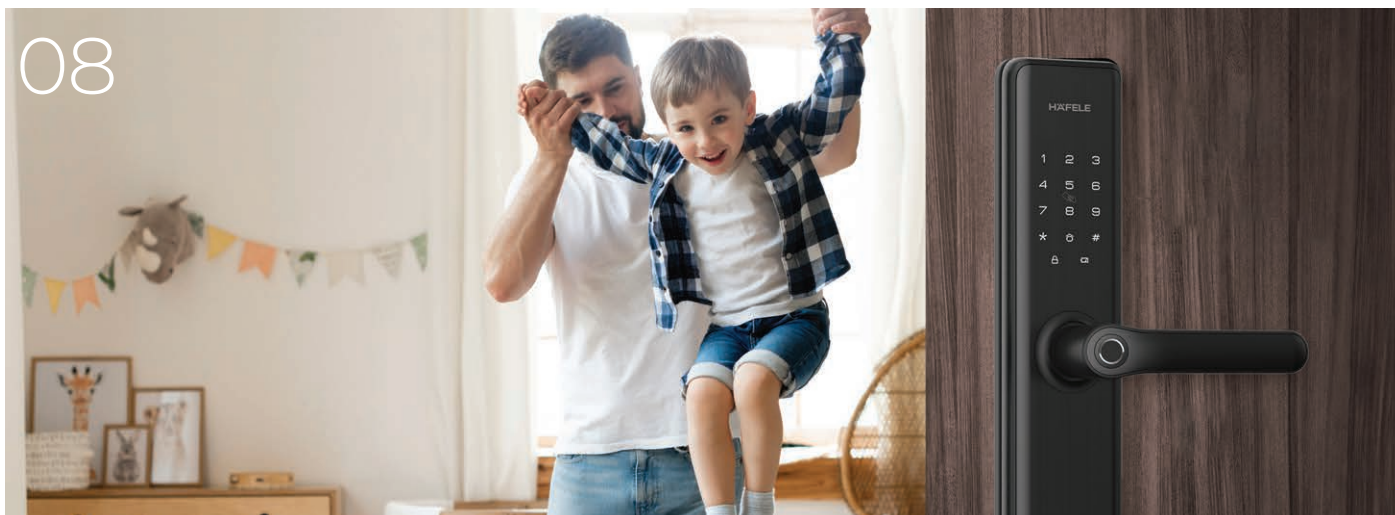
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SWATI BALGI

FROM THE EDITOR

There is a paradigm shift in the way we perceive security. Over the years, the demand for home security systems is witnessing rapid growth. The present scenario demands sophisticated security solutions like access control systems, IP-based video surveillance, digital CCTVs and remote-monitoring solutions. In this issue, we give you an overview of the market size, driver, and innovative product ranges.

This issue has projects that are diverse in scale, solution, and typology, with many lessons for the professional to take in. In our case study section, we have featured a project designed Ar. Uttamaditya and Chipbucket Solutions and Ar. Dhaval Rangani's out-of-the-box design for Evenflow Eternal, in Surat. Plus, In Conversation has Ar. Arjun Rathi sharing his views on technology-driven lighting designs, while In Focus showcases Smato Technologies' Experience Studio in Pune, which displays state-of-the-art home automation solutions.

The Expert View section has Brian Bishop, President of Open Connectivity Foundation (OCF) writing about the benefits of open IoT standards and the incorporation of IoT technology for smart cities.

Enjoy this issue and get back to us with your comments...

Inviting Brands, Store Owners and System Integrators to showcase their projects in Smart Home World. Send us your videos and images at: sandeep@smarthomeworld.in

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Chief Editor:
Swati Balgi
swati@smarthomeworld.in

Tech Journalist:
Sunny Sawant
sunny@smarthomeworld.in

Marketing Head:
Sandeep Singh
sandeep@smarthomeworld.in

Assistant Manager - Sales:
Monika Agnihotri
monika@smarthomeworld.in



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Extra Security and Innovative Solutions



An insight into Smart Home Security solutions, the latest technologies, benefits, advantages, smart features and more... that will help you monitor your home when you aren't around.

Smart Home Security systems are no longer a luxury! Over the years, the perception and demand for smart home security solutions have changed. Whether you want to check up on the housekeeper, monitor your home while vacationing, check on the kids when you are away, or keep tabs on your second home, there are a plethora of Smart Home Security devices that can help.

Positive Industry Outlook and Growth Drivers

According to research, the global smart home security market size is expected to grow from \$2.69 billion in 2021 to \$3.27 billion in 2022 at a compound annual growth rate (CAGR) of 21.6%. The change in the smart home security systems market growth

trend is mainly due to the companies stabilizing their output after catering to the demand that grew exponentially during the COVID-19 pandemic in 2021. The market is expected to reach \$6.81 billion in 2026 at a CAGR of 20.1%.

The smart home security market is driven by increasing crime rates across the globe. Consumers are increasingly focusing on safety and security systems with increasing crime rates, especially in residential areas. Smart home devices such as smart alarms, smart cameras, and smart lockers are preferred by households to be safe and secure. According to home burglary statistics, 88% of all burglaries are residential and there is a 300% possibility of theft in homes without security systems. Furthermore, the use of smart home

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Discreet Solutions Pvt. Ltd.



Mr. Alok Parmar, Director, Discreet Solutions Pvt. Ltd.



Discreet Solutions Pvt. Ltd.

security devices in luxury villas, luxury apartments, mid-range apartments, and mid-range homes is acting as a driver of the market.

Smart Home World speaks to six brand heads to give our readers a holistic view of this segment.

“We have seen steady growth in demand for security solutions with the increase in acceptance of IoT solutions for homes. Though the market is fragmented right now, the need for superior technical solutions for home security and the growth of major players in the sector will help

consolidate the market. Right now the market is restricted to metros, IT hubs like Bangalore, Pune and Hyderabad, as well as parts of Gujarat and Punjab with a higher concentration of HNIs. But we will soon see adoption in tier-2 cities across the country. This will not just be driven by consumer demand, but by strategic decisions of the real estate sector, to provide security solutions as a part of their product offerings as well as government regulations for better safety standards that will be enforced across the country.” says **Mr. Alok Parmar, Director, Discreet Solutions Pvt. Ltd.**



Ajax Systems

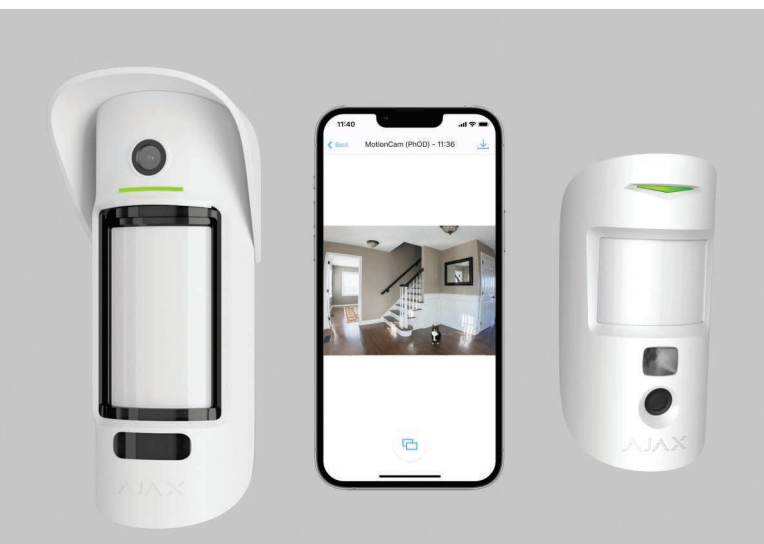


Ajax Systems

“The smart home security market is witnessing rapid growth in India. Smart home wireless security alarm systems, fire alarms, security Wi-Fi cameras and Wi-Fi-based wireless access control systems, face recognition systems (FRS), door locks, video door phones, and video intercom systems will be the major categories driving this market. Due to the high cost of products, Home Automation & Security is currently considered affordable only by Individuals with higher net worth. Hence, it is regarded as a luxury. Today, there are 182,000 millionaire households in India. This number is set to grow to 294,000 in the next 4-5 years.” says **Shivaram Rampelli, Head of Sales – India, Ajax Systems**



Mr. Shivaram Rampelli, Head of Sales – India, Ajax Systems



Ajax Systems



Godrej Locks and Architectural Fittings and Systems



Godrej Security Solutions.



Mr. Pushkar Gokhale, Business Head, Godrej Security Solutions.



Mr. Shyam Motwani, Business Head, Godrej Locks and Architectural Fittings and Systems

“Security solutions will gain prominence for homeowners. We can already see the security infrastructure provided by the builder emerging as a key selling point for several real estate projects in metros. Similarly, the millennials and Gen Z have a fair grip on technology. Thus, more intuitive solutions based on AI, connected security, and those where privacy takes prominence shall witness a higher growth prospect.” says Mr. Pushkar Gokhale, Business Head, Godrej Security Solutions.

“The digital locking market has a potential to almost double in size and thereby go beyond 10% in the next 2 to 3 years. The lock market in India is evolving in terms of technology and design with keyless and digital safety devices emerging as a preferred consumer choice. Digital locks have just been around for over six years in the market and the product range has already diversified noticeably. Interest for digital locks, particularly among designers and architects from top metros such as Mumbai, Delhi and Bengaluru has been growing steadily.” says Shyam Motwani, Business Head, Godrej Locks and Architectural Fittings and Systems



“Home security system products are now in the introduction phase. As a company, we think this is a great opportunity to expand into this market. The age group and the availability of affordable IT infrastructures coupled with excellent internet access, unlike in some other countries, are two of the main causes of this growth.” Says **Adarsh Bhooshan, Product Manager, Häfele Smart & Glass Fitting**



Häfele Smart & Glass Fitting



Häfele Smart & Glass Fitting



Mr. Adarsh Bhooshan, Product Manager, Häfele Smart & Glass Fitting



Häfele Smart & Glass Fitting



Prama Hikvision India Pvt. Ltd.



Mr. Ashish P. Dhakan, MD & CEO, Prama Hikvision India Pvt. Ltd.

“The Smart Home Products and Solutions have a great potential in India due to cheaper data, higher disposable income, and reduced hardware costs. All these factors have spearheaded India into an advantageous position as the second largest digital market in the world. India ranks in the third position in terms of Smart Homes around the world. Smart Home is the fastest growing trend. In its myriad categories, Security, Control and Connectivity, Smart Appliances, Comfort and Lighting, Energy Management and Home Entertainment are showing an uptick in the Indian market.” **Mr. Ashish P. Dhakan, MD & CEO, Prama Hikvision India Pvt. Ltd.**

Häfele

Devices and Functions

Smart security cameras can automatically start recording when they detect motion, and they can be programmed to send push notifications to your phone so you can watch the live feed. Security cameras with remote video monitoring can protect your property, from thieves and trespassers. Remote video monitoring also boasts additional safeguards for fire and life safety, checking on children arriving home, and monitoring elderly loved ones living independently.

Benefits of Video Monitoring

Remote video monitoring is also known as video surveillance and can be viewed, recorded, and playback indoor and outdoor footage. Necessary equipment includes closed-circuit television (CCTV)- or IP-based cameras, Network Video Recorders (NVRs), and Video Management Software (VMS). While both (CCTV) and IP models are suitable, the latter is more common for household settings. With proactive alerts and real-time responses perhaps the biggest allure of remote video surveillance, other advantages include strategically placed security cameras throughout your property. General Security recommends installing these around high-activity areas, such as front-door and porch areas, backyards and pools, garages, kitchens, and entryways.

Supporting Devices

Smart home security systems are based on the centralized control of home gateways, wherein intelligence has shifted onto cloud networks. Cloud-based services decrease the complexity of software issues with devices and diminish the interoperability of devices more simply. Most residential users are rapidly adopting cloud-based home security solutions that are user-friendly and self-monitoring and that can be operated from a remote location.

Attracted by this rapidly expanding market and underlying latent demand, several players are planning to invest in the global smart home



security market. Right from manufacturers of camera display panels to manufacturers of smart security devices, companies across industries are making efforts to strengthen their foothold in the global smart home security market.

Some of the key players operating in the smart home security market are Panasonic, ABB Ltd, Legrand, Onetouch, Savant Systems LLC, Siemens AG, Johnson Controls, Inc., Control4 Corporation, Godrej Security, Godrej Locks, Schneider, Hoger Controls, Crestron Electronics, Ozone, Honeywell, Häfele, Yale, Dormakaba, Hikvision, Yale, Ajax to name a few. Various business strategies are being adopted by the leading players. Companies are focusing on expanding their business by developing strategic partnerships and offering innovative solutions.

Smart Devices and Components

The Smart Home Security Systems include smart alarms, smart cameras and monitoring systems, smart locks and sensors and smart detectors. The components of smart home security systems are (a) Hardware (b) Software (c) Service.

The hardware segment includes; video surveillance, access control and authentication, electronic locks, sensors detectors, and alarms.

Video surveillance comprises; IP cameras, analog cameras, storage and recorders, encoders, and CCTV monitors.

The access control and authentication segment include; biometrics, card-based, and RFID.

The services segment includes technical support, installation/integration, cloud-based services, and consulting.

Advanced Smart Home Components

Advanced smart home components include IoT sensors, gateways, protocols, firmware, cloud computing, databases, middleware and gateways. IoT cloud can be divided into a platform-as-a-service (PaaS) and infrastructure-as-a-service (IaaS).

Operating Framework

OpenHAB is a framework, combining home automation and IoT gateway for smart homes. Its features: rules engine, logging mechanism and UI abstraction. Automation rules that focus on time, mood, or ambiance, easy configuration, and common supported hardware:

Domoticz architecture: very few people know about the architecture of Domoticz, making it extremely difficult to build applications on it without taking unnecessary risks in building the product itself. For example, the entire design of general architecture feels a little weird when you look at the concept of a sensor to control an actuator. Building advanced applications with Domoticz can be done using OO based languages.

Deployment of blockchain into home networks can easily be done with Raspberry Pi. A blockchain-secured layer between devices and gateways can be implemented without a massive revamp of the existing code base. Blockchain is a technology that will play a role in the future to reassure them with revolutionary and new business models.

IoT Frameworks in Home Automation

Smart home security is a major technological



advancement in home security and surveillance. The inroads made by the internet of things (IoT)-connected devices in smart security have underpinned the evolution of smart home automation. The ecosystem of smart home security spans wide covering wide paraphernalia of smart home entities and devices that you can monitor and control. The remote controlling and automated features are two of the compelling propositions that have driven the expansion of demand in the smart home security market. Door locks, thermostats, motion sensors, intrusion alarm systems, fire alarm systems, and video surveillance cameras and a myriad of things can be monitored and controlled remotely using the smart framework. The ease of access through any smart device such as smartphones and apps, and tablets has raised the convenience factor a notch higher with the use of IoT. Over the past few years, the need for customization is a key trend that has expanded the canvas for companies in the smart home security systems to launch new technologies. The pace of innovation is also influenced by advancements being made in network protocols used for home automation, such as the use of Wi-Fi, Z-Wave, Zigbee and Thread. This has also helped in customization of features.

New products and Features:

Hikvision India offers a wide range of Analog and IP Cameras embedded with ColorVu, Acusense and AI Technologies. It also offers MinMoe Face Recognition Terminals, Analog and IP Video Door Phones and AX Hub Kit (intrusion alarm systems). Hikvision also has the most advanced AI-enabled cameras under DeepinView Series and DeepinMind NVR series.

Häfele offers a RE-Push Digital Lock dual with features like authentication, Smart Elevated Handle and Intrusion Alarm, while RE-INSPIRE has multiple access modes, Smart Etiquettes and

Smart Door Handle. RE-TWIST Digital Lock ensures the utmost safety and has the functionality of a doorbell within the lock body - thereby eliminating the need of installing a separate doorbell module. Other products offered by the brand are RE-INFORCE with a built-in Wifi Key. RE-SPLIT, RE-AL, RE-MOTE and RE-TRO.

Godrej Security Solutions offers Ace Pro a WiFi-enabled home camera, that provides 3MP HD video quality, a built-in mic and speaker for 2-way audio, and crystal clear vision in the dark. While 7" Seethru Contactless Video door Phone includes built-in WiFi capability, which allows users of the SeeThru Pro+ app on smartphones to see and communicate with people at their doorway. SeeThru contactless video door phone comes with unique features such as Wifi, contactless calling, mobile connectivity, live feed and motion recording and 16 local language support for the contactless features.

Eagle I NXT Alarm System is the latest generation alarm system that connects to the internet via WiFi or LAN cable, and also offers SMS backup. It has 2-way motion sensors, doors and windows sensors, smoke alarms, remote, vibration sensors, hooter cum strobe. The extended features include coverage up to approx. 300 Meter, supports SIM cards for text messages only and LAN cable connection and also can be connected remotely via app.

Godrej Locks and Architectural Fittings and Systems has a wide range of Digital Door locks for all applications. Some of the key ones include Spacetek Pro and Advantis Revolution are premium locks for the main door; Rimtronic, RF and Verti are rim locks for the main door; Advantis Crystal for Glass Doors; Digital cabinet lock for Wardrobes and Catus Touch and Touch Plus as an affordable range of digital Locks. Catus Touch Plus is the most advanced 4-in-1 digital door lock for homes with 360° Fingerprint Recognition, the sensor recognizes up to 99 fingerprints at any angle, RFID Card and Privacy Function on, the lock can't be





opened from outside by Finger Print, RFID Card or PIN, only mechanical override and master password is possible. Advantis locks have Privacy Function, Emergency battery, Break In Damage Alarm, Auto Locking and Fire Sensor.

Discreet Solutions Pvt. Ltd. Offers OT-IP-VDP-V4, which is Onetouch Android-based SIP Indoor Panel that can host smart home APP's from all mainstream automation Brands. It also hosts a built-in IPPBX for 15 extensions for in-house intercom using Onetouch IP Phones. Onetouch C9 model is an unmanned SIP-based Video entry station that can integrate with Gate Automation authorised people can get direct time-based access using Face Recognition, Biometric or Card Access. OT-300R/B Onetouch digital door locks come with biometrics, RFID Card, Touch Keypad, Mechanical Key, Strong Mortise, Low Battery Alarm and Emergency Mini USB Port.

Ajax Systems offers MotionCam and MotionCam Outdoor are wireless detectors with a photo camera to verify the alarms. While also having a wired range of devices called Fibra, Ajax is widely known for its wireless Jeweller product line. Ajax wireless devices communicate via Jeweller radio protocol developed by Ajax Systems. This protocol ensures two-way communication with an operational range up to a record 2000 m and provides high energy efficiency – the batteries in the detectors live up to 5-7 years.

Cyber Security & Precautions:

A professional and technically certified system integration backed by a well-planned security design can help in preventing all types of security breaches and cyber security challenges. The Smart Home is a highly sensitive segment, so the system Integrator and the consultant should mitigate all possible risks with a proper plan and implementation strategy. Some basic tips and practices to protect your network and keep your security devices protected. Create strong passwords and change them regularly; Set only the firewall rules you need and update your firmware promptly; Encrypt your data and define clear access permission policies for all users.

Moreover, growing trends and development in the acceptance of artificial intelligence, fast adoption of current technologies by young folks, and quick development of IoT are expected to boost the market. IoT enables the internet to be accessed by any device. Several big important businesses are making investments in R&D to bring forward advancements in existing technologies. Smart Dust, security drones, and 3D vision have the potential to revolutionize the way we look at securing our homes in the future. 3D face recognition smart lock, wireless doorbell, security drone along with smart dust can be used to create a robust invisible geo-fencing and secure the house pro-actively. Furthermore, as consumers' discretionary income has increased, so has their desire for a smarter and more secure lifestyle.

A Perfect Fusion of Decor Styles and Smart Home Automation Systems



Striking the right balance between Modern and Zen decor styles, Ar. Uttamaditya, CEO & Founder, U & I Interiors along with systems Integrator Chipbucket Solutions Pvt. Ltd., has designed a palatial home for Nirmal Patel.



*Ar. Uttamaditya,
CEO & Founder,
U & I Interiors*

Adani Shantigram, North Park is a palatial home of Nirmal Patel spread over an area of 11,400 sq ft that exemplifies 'Modern Zen'. Designed by Ar. Uttamaditya, CEO & Founder, U & I Interiors along with systems Integrator Chipbucket Solutions Pvt. Ltd., this luxurious home is designed to be a personal retreat for the Patel family.

Apart from the plush aesthetics, the owner wanted his home to be integrated with smart automation systems, including high-tech security measures, remote or censored lighting, and a home theatre. Plus, the designer has worked on reducing the cost associated with regular maintenance and providing easy access to essential functions when the family is away from home.

The high-tech indoor home theatre with its surround sound and recliner chair arranged in theatrical seating arrangement recreates a commercial silver screen experience. All the curtains and lights are remotely controlled through an application on a smartphone or even a computer screen, which helps in keeping unwanted light out while preserving natural sunlight during the daytime. The lights used also have the colour temperature adaptability, which can be adjusted as per the mood or activities.

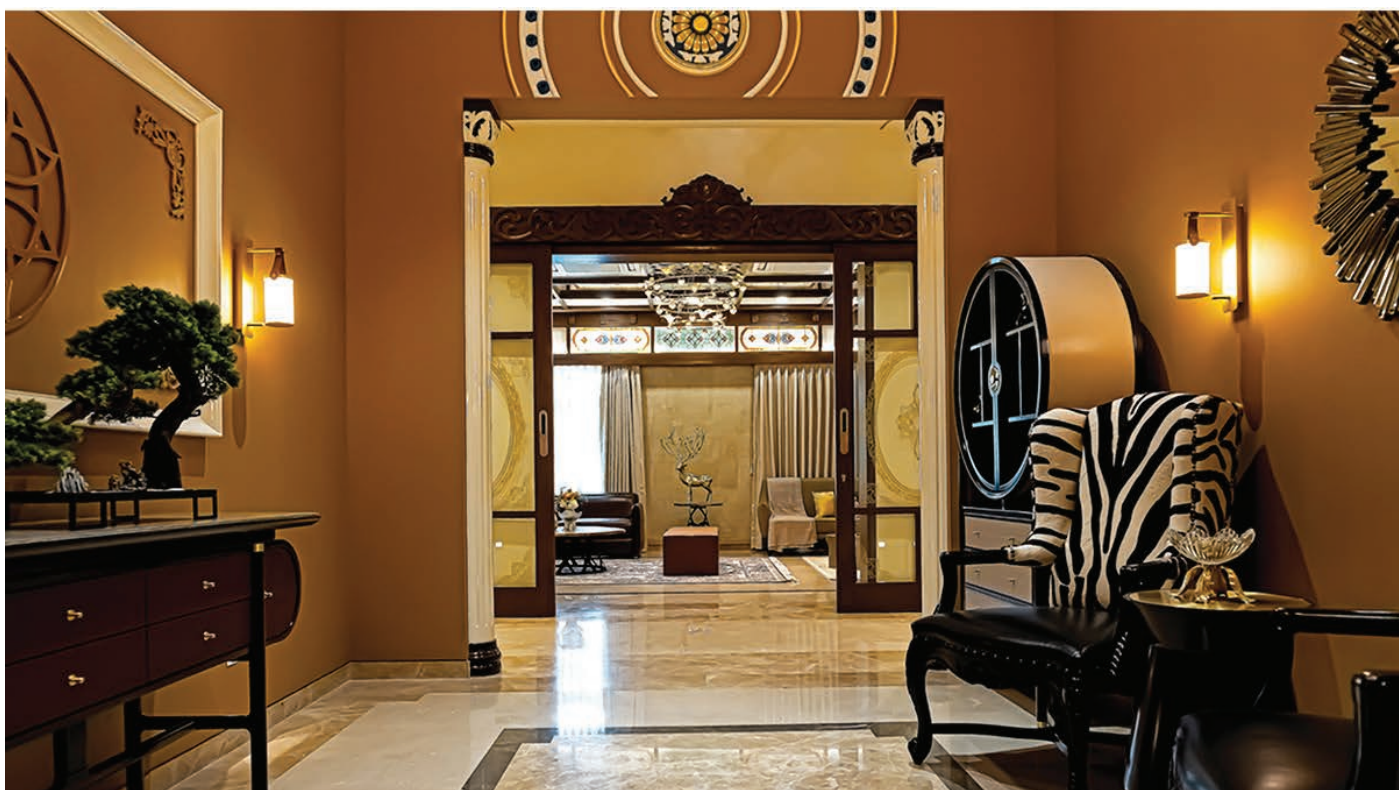
The indoor grooming and rejuvenation areas includes a personal salon spa, a massage parlour, and an illuminated mirror that serves as the need of the hour. The main entrance has state-of-the-art smart security solutions like video surveillance cameras with facial recognition which enhances the comfort levels of the family members by providing an additional layer of safety by vigilantly monitoring the surroundings.



Smart Home Automation Products Used

By integrating smart home technology into their design, the client was able to save both time and money. The designers opted for smart lights and appliances using the homeowner's smartphone app. This allowed them to avoid having to go through the hassle of turning off all the lights at once when they left for work each morning. Automatic lighting and temperature control in all rooms, as well as access to key features from any device that they had registered with the homeowner's portal.

In addition, by automating various tasks such as watering plants or turning off appliances when they left for work, they were able to reduce the time spent on household chores. The client's security was enhanced as devices were installed that monitored their environment and alerted them if there was an issue. Additionally, by incorporating sensors in key areas such as entryways and bedrooms, they could automatically adjust temperature settings based on the weather outside. These features made their homes more comfortable and saved them money on energy bills.





Energy Efficiency

Energy efficiency was one of the important factors while designing this building. Explaining in detail the designer says, "We ensured that the equipment is efficient and used low-energy technologies like LED lighting and motion sensors. We installed insulation and air sealing throughout the building so that the heat could be trapped inside during the winter months. Plus, we have optimized climate control measures using natural

ventilation techniques or thermal storage systems. By doing all of this while keeping an eye on our energy consumption, we were able to achieve very significant reductions in our overall electricity bill.

Challenges Overcome

When working on the smart home project, one of the biggest challenges the designer faced was ensuring that all the devices were compatible with





each other. This required a lot of trial and error, as well as some creative solution-finding. Additionally, we had to create an easy-to-use interface so that users could control their devices from anywhere in the world. And lastly, we needed to make sure that my system was robust enough to handle a large volume of traffic - both streaming data and voice commands.

Overall Experience and Takeaways

“Overall, our experience working on the smart home project was both challenging and rewarding. While there were some hiccups along the way (mainly related to electronics), I’m glad that we persisted and eventually got things done. The key takeaway for me is that it’s important to be organized and have expectations set from the beginning so that not much surprises you down the road. Additionally, stay committed to your project, don’t give up easily, and remember that communication is key.”

Advice for incorporating Smart Home Designers

If you are interested in becoming a smart home designer there are a few things that you should keep in mind. First and foremost, it is important to have design skills up your sleeve. This means that you not only understand how homes function technically but also know how to communicate with clients and manage expectations. You will also need to be





passionate about the subject matter and have a good understanding of current trends. Second, it is essential to develop relationships with suppliers so that you can get the best products at competitive prices. It's also important to stay abreast of new technologies so that you can incorporate them into your designs as they become available commercially. Lastly, it's always beneficial to train regularly so that you don't fall behind on evolving standards or technology advances within the industry. With these tips in mind, aspiring smart home designers can make sure that their careers progress smoothly and successfully!

SHW

Reference Guide

Architect/Interior Designer:
Uttamaditya, CEO &
Founder, U & I Interiors

Systems Integrator:
Chipbucket Solutions Pvt.
Ltd.

Built-up Area: 11,400 sq ft

Brands: Panasonic and
Schneider Electric India

Lighting Controls: Dali

Security System: Ajax & One
Touch

Software: Apple Home &
Control 4

System Integrator:
Chipbucket Solutions Pvt.
Ltd.

Projector: Benq

Home Theatre: Sonance

CCTV Camera: Aqua vision

Other Brand Used: Asian
paint, Hettich, Century
Ply, Durian Laminates and
Greenlam veneer





Ar. Dhaval Rangani Breaks The “Normal” Barrier to Provide a Superior Audio/Video Experience

Evenflow Eternal, an Audio Visual specialist based out of Surat, Gujarat had a simple brief for Ar. Dhaval Rangani, where they wanted their studio to aesthetically display their high-end product range and also provide a unique experience to the customers.

Breaking away from the typical showroom design, Ar. Dhaval has skillfully created an interactive space where the project provides a superior audiovisual experience to the customers.

Scope of Work

Evenflow Eternal theatre is intended to be dynamic, as opposed to the rigid form of their prior theatre.



Dhaval carried out the concept by designing spaces with minimal enclosures and unconventional materials that are not generally considered audio-friendly, yet produce the ideal audio-visual experience. The elemental ethos is based on how the human senses work in a fixed space.

The Client's Vision

The client desired a new and upgraded theatre that would provide a premium experience to its clients. Their objective was to offer an unparalleled experience. The customer wanted Dhaval to design a studio that challenges the visitor's perception of what is normal. As a result, unconventional materials were used in the project, such as absorptive and diffusive materials like vehicle dampening substances on metal.

The client requested that smart automation technologies be deployed to ensure the hassle-free operation and to create a seamless environment. It was intended to provide users more control over different ambiances at the touch of a button, making it more user-friendly.

Project Planning and Implementation

Dhaval treated the space like a blank canvas, where major civil changes were executed, especially in terms of the flooring. After careful analysis, planning, and meticulous preparation, Dhaval and his team established a plan to execute the one-of-a-kind spatial narrative based on the elemental ethos of



human senses:

To begin with, the spaces were organised in a way that the entrance area acts as a pause point and the service areas are sheltered behind a twisted brick wall. "The brick walls symbolise the theatre's having a traditional foundation while emerging as a contemporary expression," explains Dhaval.

The listening area had the function of active entertainment while the lounge space was rendered with a relaxed and passive demeanour. Both spaces exuded different moods and were divided by a partition designed with seven metal members and strings. These members are symbolic of the seven notes called Saptak, which comprise a musical scale in Indian Classical music. Strings and lighting were used to segregate both spaces to allow a smooth transition between the state of mind of an occupant using both spaces.

To create a variation in level, the floor was raised with bricks to create a sunken theatre, which was laid with carpet to bring warmth and luxury to the

CASE STUDY



space. Parts of the flooring were done in concrete with calculated grinding and polishing to generate the desired finish.

The intention was to create an experience for the visitors through their different senses. Further, to enhance that experience, the space was detailed with speakers and projector mountings made out of metal and wood in such a way that it could be adjusted as per the client's needs.

Smart Automation Integration

Audio Video

- a. ArchiTech Premium Range Dolby Atmos Audio Speakers (SC-602f - 6-1/2" 2-way Round In-Ceiling / Wall): To provide an enhanced auditory experience, Dhaval installed Dolby Atmos Audio with SC-602f. This home theatre demo setup relies on audio objects and involves a Dolby Atmos-enabled audio-visual receiver (AVR).

The receiver will automatically know how many speakers are being used, what type they are, and where they're positioned. From there, the object audio renderer (OAR) unpacks any metadata to scale each audio





object appropriately and relay it through the designated speaker. This is all done instantaneously.

- b. ArchiTech Premium Range Audio Speakers (SE-LCRSf - 5-1/4" 2-way In-Wall Loudspeaker): Keeping in mind the human senses' elemental ethos, Dhaval chose the ArchiTech Premium Range Audio Speakers. Every ArchiTech model loudspeaker is 'timbre-matched' ensuring sonic uniformity throughout the line.

This means all models used in the installation have been carefully engineered to have a family sound; this is also referred to as 'voice matching'. As special effects from movie soundtracks move about the room, timbre-matching ensures a consistent tonal balance throughout the sound space. This creates a convincingly realistic three-dimensional spatial image, which completely absorbs the viewers into the cinematic experience.

- c. JVC Projectors (D-ILA Projector with 3D Viewing - DLA-X7900BE): JVC's cutting-edge technologies for high-quality, high-definition images have realised the full potential of 4K; a dense, high-definition image of pristine quality, projected across every inch of a





Benefits of Integration

1. The adaptability of Dolby Atmos in this home theatre demo setup is one of the major advantages. Dolby Atmos may be played on any speaker arrangement with up to 34 speakers. With additional speakers, audio objects may be placed more precisely. Evenflow Eternal may always improve their system with this option.
2. There are a plethora of benefits to using high-quality audio speakers in this project.
 - a. Kevlar Woofers: The strength of Kevlar helps deliver a smooth and accurate response. The Kapton voice coil former and butyl rubber surround ensure that these woofers will provide years of consistent, reliable performance.
 - b. IR Receiver Knockouts: The loudspeakers feature a mounting provision for a remote-control signal receiver behind the loudspeaker grill. This allows discrete integration with an infrared receiver/repeater system.
 - c. Phase Plug Technology: The phase plug pole piece extension improves driver performance and clarity by deflecting delicate midrange audio out into the sound space and minimising distortion-producing collisions.
3. Lutron and Casadigi automate the entire area, from start to finish. Casadigi is an AI powered premium entertainment platform that scales to match the visitor's lifestyle and mood. The system is fast to implement and has tools to make it exceptionally easy to manage and troubleshoot remotely. The entire design is simple to deploy, scalable to fit into any space, and flexible enough to address the individual needs of the client.

massive screen.

Visitors at Evenflow Eternal are able to fully enjoy beautiful picture quality with a powerful lifelike sense of realism for all types of video content, from movies to sports, music, documentaries, 3D etc.

The projector also supports next-generation technologies such as high dynamic range (HDR) content and video at 4K resolution.

Smart Automation

- a. Lutron Lighting Automation: Lighting plays an important role in the spatial experience of this theatre. It is designed to guide the movement of the visitor through the spaces and control the visibility in order to avoid any visual distractions from unnecessary elements and to help accentuate other senses than just the visual. Lutron Lighting automation is imbibed to control this experience of the space. Various lighting moods have been designed for visitors depending on the functionality.

A Lutron HomeWorks processor and a Universal Phase Cut Dimmer control all of the lights.



Using the Home Server Module and Casadigi's unique programming protocols, the lights can be automated in tandem with the rest of the space.

- b. Casadigi Automation: The Casadigi application, combined with the Casadigi Home server and AV Module, controls the complete media system, allowing guests to have a highly smooth experience, obtaining value above normal, and creating an incredible atmosphere for their senses

CasaDigi supports iOS and Android platforms, making it an easy choice for Dhaval and his team. The solution supports wireless media transfers, playback, and search functions that allow visitors to quickly search by keyword, tags, and even location.

- c. Yale Lock (YDR 414 Smart Lock): the team has opted for Yale YDR 414 to ensure the safety of the expensive technology on display at the Evenflow Eternal Showroom. The YDR 414 secures the premises with various access solutions: fingerprints, pin codes, remote control and mechanical keys override.

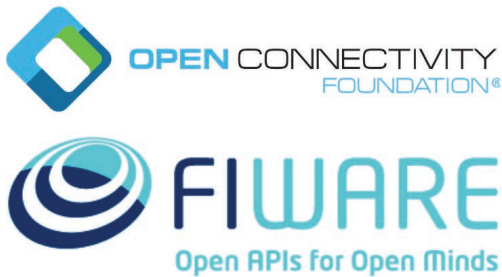
Experience and Take Away

Clients are blown away by the complete experience when it comes to exhibiting items at the Evenflow Eternal. They are left speechless in this architecturally sophisticated studio space due to the ease of automation, the impact of the audio system, and the stunning picture projection from the projector. The Entertainment system and end-to-end automation integration take the effect of this stunning room to a whole new level.



A New Standard for a Smarter Future

Brian Bishop, President of Open Connectivity Foundation (OCF) writes about the benefits of open IoT standards and the incorporation of IoT technology for smart cities.



There's no doubt that Internet of Things (IoT) technology can offer great value for public sector and individual consumers alike. From exploring and addressing urbanization challenges, such as the impact of pollution on public health, to the convenience of viewing a baby monitor from a smartphone; smart cities and homes offer tremendous opportunities to promote public health, environmental sustainability, and modern convenience.

Yet, for smart cities and homes to offer these benefits to their inhabitants, they must first and foremost be secure. Without security standards in place, the increasing amount of sensitive data flowing across the internet between devices and clouds can easily land in the wrong hands.

At the Open Connectivity Foundation (OCF), we focus on promoting IoT security by fostering collaboration across the IoT ecosystem. Our more than 500 members work together to ensure that IP-connected IoT devices and services are developed with interoperability, secure communication, and trust in mind - and that they can communicate securely over IP, regardless of



Mr. Brian Bishop, President of Open Connectivity Foundation (OCF)



form factor, operating system, service provider, transport technology or ecosystem.

We do this by driving further adoption of the OCF's freely available ISO/IEC specifications, including our Secure IP Device Framework, our open-source reference implementation, and an industry-recognized certification program. This enables new secure IoT use cases and user experiences to reduce development costs for IoT devices and services, reduces integration complexity and time to market, and simplifies regulatory compliance to IoT security and privacy baselines.

Government adoption of IoT security standards

As the public sector increasingly deploys IoT technology in support of smart city initiatives, governments will be required to assume more responsibility for the associated IoT infrastructure – this will, in turn, make the adoption of interoperable security standards even more important. The use of international standards, like the Secure IP Device Framework, assures leaders about the due process and transparency during the development of IoT technologies, which helps avoid proprietary lock-in and perceptions of bias in selecting solutions.

And cities are already realizing the value of the OCF's Secure IP Device Framework. For instance, in December 2021, Korea Land and Housing Corporation (LH), a semi-government-owned corporation responsible for the development of land in cities and the maintenance and management of housing, announced that it had adopted OCF's standard as the foundation for its national Smart Home Platform.

As part of the initiative, a secure- and private-by-design IoT smart hub will be deployed in LH homes to collect and analyze IoT big data. The

hub features built-in fine dust and CO2 sensors and gives residents control of 15 different types of devices via an OCF-compliant Smart Home app. If successful, the project will continue to expand into public housing, with more than 223,000 connected households estimated by 2025.

The LH project aims to enhance residents' living experiences through access to smart healthcare, intelligent safety systems, greater convenience through automation, and improved energy management and control. It will shape how people in Korea live and interact with their surroundings for years to come. The project also defines a framework for other countries seeking to securely digitize homes, buildings and cities to enrich living experiences for their citizens.

Progress made towards the secure development of smart cities

OCF's Secure IP Device Framework has seen significant adoption in the smart home sector to date and proponents of the framework are now working for it to be recognized as the default standard for smart city infrastructure. Taking an important step in this direction, OCF recently entered into a mutually beneficial partnership with FIWARE Foundation, an open standard non-profit.

The partnership between OCF and FIWARE Foundation offers both sets of members increased access to over 800 smart data models. These data models provide the common technical ground needed for the development of secure, interoperable IoT deployments. From the partnership, the OCF gains access to FIWARE's building blocks, reference architectures and smart city and industrial models – all of which will be brought into OCF's ISO/IEC standard over time.



In return, FIWARE members gain access to OCF's smart home and smart building data models for use cases such as air quality testing, carbon dioxide detection and blood pressure monitoring.

The OCF-FIWARE partnership also serves to prevent smart city technology from developing in domain silos that inhibit them from connecting with other devices and clouds. For example, traffic management systems and pollution monitoring systems have not necessarily been designed to interoperate seamlessly. By using IP-based technologies, such as the OCF's Secure IP Device Framework, and well-defined and adopted smart city data models, such as those from FIWARE, the barriers of communication between domain silos can be broken. This process allows for much more efficient use of data. For example, it can allow urban planners to dynamically route traffic through a city in such a way as to minimize pollution. This allows multiple stakeholders to collaborate, enabling new business models and greater innovation in the field of smart cities.

Benefits of truly open IoT standards

Governments that adopt open and secure standards will be at the forefront of smart city development. They will also accelerate economic growth, entice new business, build new supply chains, create new learning opportunities, and enable the next generation of IoT entrepreneurs.

In addition, they have the opportunity to foster inclusive growth through SME engagement and inspire new government-led accelerator programs and developer programs.

This type of innovative collaboration only happens when smart technology developers use the blueprints provided by standards when developing new IoT devices and services. Standards that are independent of any consumer ecosystem help the infrastructure and associated data to be controlled, managed and regulated according to local requirements.

Beyond convenience, standardization just makes good business sense. It can open up access to new markets, reduces development costs, reduces integration complexity and time to market, simplifies regulatory compliance, enhances supply chains, and even inspires further IoT innovation.

Ultimately, secure and open standards can multiply the beneficial impact of IoT technology by preventing proprietary models and technology 'lock-in'. These standards also offer peace of mind to consumers and citizens alike, inspiring trust and confidence as IoT becomes more intertwined with every aspect of our personal and public lives.

For more information about OCF's ISO/IEC adopted specifications, strategic roadmap and current deployments, visit <https://openconnectivity.org/>.

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Smato: Transforming Integrated Living

The Pune-based Smato Technologies' Experience Studio showcases cutting-edge home automation technology in an opulent setting. Their state-of-the-art smart technology solutions for all categories make them the perfect one-stop-shop for professionals and walk-in customers. The Smart Home World team was invited for a studio walkthrough by Shubham Bidasaria, Co-Founder of Smato Technologies.



Auro Motion Sensors by Basalte



Chopin by Basalte

We take our professional reader on a walk-through with Shubham Bidasaria, Co-Founder of Smato Technologies, explaining the products available and how they can improve our lifestyles. Shubham says, “We are a bunch of technology enthusiasts and entrepreneurs, who are offering innovative solutions for residential and commercial projects.”

Expertise and Services offered

Smato specialises in providing automation integration for homes and offices. They also provide comprehensive engineering and design services for the development of individualised home automation products and systems. In addition to this, they

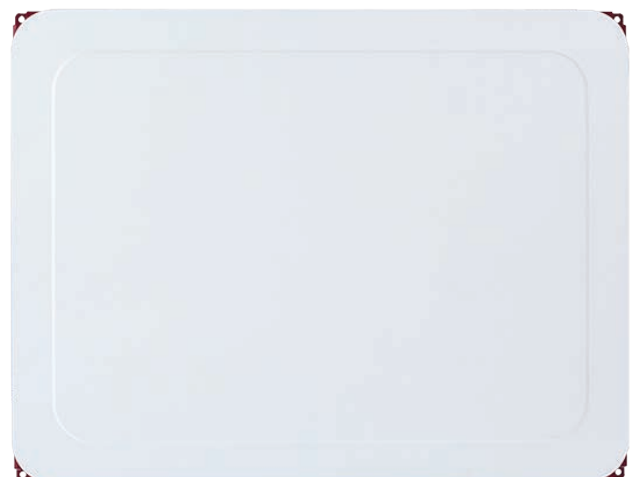
provide consulting services for any and all aspects of the smart home, including smart lighting, smart speakers, smart curtains, smart door locks, smart mirror TVs, control systems, and so on.

The goal of their studio in Pune is to give customers a virtual experience. The store displays Smato’s comprehensive selection of cutting-edge products in three major categories, i.e., Automation, Audio & Bespoke. To demonstrate how their product functions in a domestic setting, this studio has designed a mock-up of a home that helps the customer understand and experience the automation system.

Upon entering the ground floor of the three storied building, The Auro, a small, fast, and almost invisible



Deseo by Basalte



Edge5i Invisible Speaker by Amina Sound



EPHESUS KNX Push Button Panel

motion sensor by Basalte, detects your presence and warmly welcomes you by lighting up the entrance and the corridor leading to the elevator. After detecting no movement for a predetermined amount of time, the motion sensor signals the fixture to dim down and conserve energy.

Living Room

A stylish 60-inch Mirror TV from MirrorVue with 4K Ultra HD capabilities and an OLED display is located in the circular seating area to the right as one enters the experience studio on the first level. MirrorVue, a

premier mirror TV technology, allows users a wide range of personalization possibilities, resulting in a mirror TV that is both elegant and practical. Visitors may personalise the vanishing Mirror TV and then watch it in crystal clear UHD.

“These televisions are extremely versatile and may be customised to meet the demands of any consumer. They may be manufactured in any size and form. They may be customised to any finish, including mirror, tinted black, or chrome. The only limit is your own imagination; we can make a 55-inch TV in the shape of a pineapple if that’s what you’re envisioning. These TVs also feature a wealth of possibilities, such as touch screen automation, audio, and everything built in,” explained Shubham.

Audio from the mirror TV is delivered from a two way PP6 and a two way PP8 Phantom Series in-ceiling speakers by TruAudio via the URC HDA 4100, a 4 Source, 4 Zone (stereo) Multi-Zone Amplifier. This multi-zone amplifier is an ideal residential audio system that delivers different volume levels in different rooms, allowing different or the same audio sources to be played in different rooms simultaneously and able to remotely control amplifiers in different rooms.

The living room features a 7-inch tabletop touch screen controller, the TDC-7100 Total Control by URC. This premium tabletop touch screen controller includes a built-in camera and microphone (for room-to-room intercom) as well as a charging station. The LCD displays vivid images of the attractive graphical user interface plus live video for room-to-room intercom with compatible door stations and surveillance cameras.



GHT Series by TruAudio used in the Media Room



Icarus Stand Alone Speaker

Total Control by URC in the brain of the Smato's system. It is a highly advanced system controller that coordinates all connected gadgets into a single intelligent system. 'Total Control' regulates the environment of the experience studio's living area, including the lights, scenes, shades, and entertainment system.

Combined with the TDC-7100 is the TRC-1480 Handheld Remote with Voice Control. Designed for residential applications, this high-performance remote with an ergonomic design delivers two-way control of Total Control and third-party products for the ultimate smart home experience. A built-in microphone provides for easy voice control with Alexa, Siri, or Xfinity.

But perhaps the highlight of this extravagant living area is the handcrafted Icarus Stand Alone Speaker by Architettura Sonora. As a B&C Speakers Group division, Architettura Sonora's speakers pride themselves on offering the truest sound in addition to their beautiful aesthetics and natural materials.

The Icarus Stand Alone provides an all-in-one solution, offering extra wide coverage in a visually elegant and refined audio system. Icarus is composed of a high-performing and compact subwoofer, supporting a metal frame with two satellites that can be calibrated in terms of emission width thanks to their adjustable mechanics. This ultra-compact system delivers a crystal-clear sound produced by the two adjustable 3.5" satellites, supported by deep, uncompressed bass, even at high output levels, released by its 8-inch woofer.



Media Room

"Each AS speaker is a one-of-a-kind piece of sound art, handcrafted by expert craftsmen in Tuscany, Italy, that combines superior sound with innovative and expressive design. These speakers are made of natural earth elements such as marble, terracotta, and granite, which are all excellent sound carriers that alter and provide diverse effects and sensations depending on the material," added Shubham.

Shubham then presented the KNX-compatible keypads manufactured by i-Luxus GMBH. "i-Luxus is all about making a statement piece. They approach things differently. They have cockpit switches, pushed button switches, and brushed brass switches. They are available in a variety of finishes and may be used with any other automation system," explained Shubham. "They are competitively priced and of high quality. Simultaneously, you may use these keypads to do a wide range of operations, whatever your mind demands," he added.

Bedroom Setting

The bedroom mock-up next to the living area is the standout feature of the experience studio. This space is designed as a display showcasing Basalte's state-of-the-art home automation systems, such as those used to manage lighting, scenes, window treatments, music, climate, and security.

Basalte products are designed to keep things simple, intuitive and elegant, both in form and function. Streamlined down to its most essential



Natural Material Used to Make Architettura Sonora's Speakers

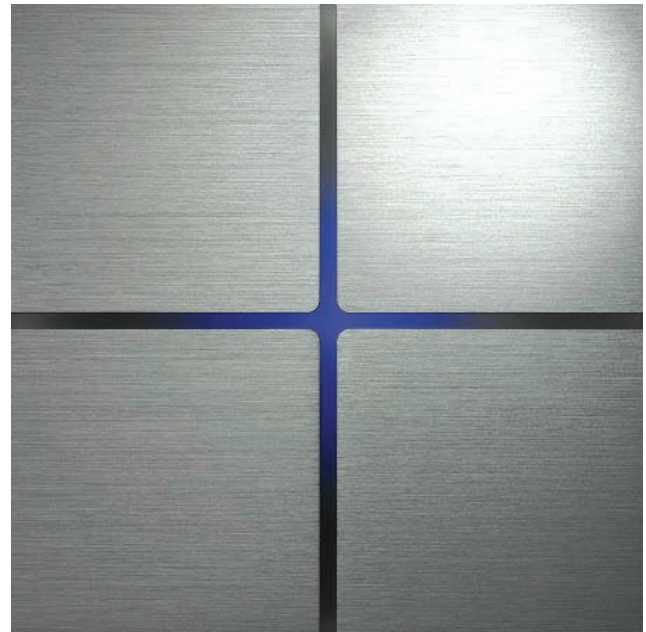
components yet always with the goal of enhancing the convenience of contemporary living spaces, the unified design language ensures that they will integrate nicely with the style of your interior space. Featuring precision-machined components and superior finishes, each piece is crafted by hand in Belgium. Basalte's flagship offerings, the Sentido Keypad, the Deseo Intelligent Thermostat, and the Ellie Control Panel, are all on display within the room.

The Sentido is a minimalist and multi-touch keypad that is available in three different styles, namely Aluminium, Classic, and Fer Forgé. On the other hand, the Deseo, combines innovative touch-sensitive technology with a 1.7" multicolour OLED display in an attractive and innovative design. It is available in two versions: as a pure thermostat or as a complete room controller.

Ellie is the most refined intelligent home touch panel. This compact and minimalistic 5.5" OLED display panel is packed with power and convenience. This smart panel can control lights, shades, scenes, music, HVAC, door phones, and cameras at your fingertips. You can get Deseo and Ellie in the same three different styles that the Sentido offers.

Another innovative solution is showcased besides the flagship products. A two-lever keypad to control everything from lights and drapes to temperature and audio. Named Chopin, it is a reference to the great Polish pianist and composer Frédéric Chopin. This high-quality fixture of levers also comes in horizontal or vertical 2-gang configuration for sockets or USB.

Apart from the display of Basalte's products, the audio system within the room is from Amina Sound, specifically the Edge5i. The Amina Edge5i offers smooth low-frequency extension and increased low-mid performance, resulting in a dynamic and engaging listening experience that has never



Sentido by Basalte

before been heard from an invisible loudspeaker. Building on the groundbreaking performance of the Edge5 loudspeaker, the Edge5i features brand new Excelsior class high frequency drivers as well as Amina's OptiDamping, OptiDrive, Reduced-Resonance Exciter technology, and the new patented ToneRelief panel technology, all built into a plaster up-to design.

The Invisible Speaker Company from the United Kingdom believes in removing the aesthetic aspect of speakers to allow complete focus on audio as an art form. This concept is based on reducing 'aesthetic-clutter' with the use of VPT (Vibrational Panel Technology).



TRC 1480 Hand Held Remote



TruAudio PP6 In-Ceiling Speaker



URC TDC 7100

“These speakers may be installed behind walls, marble cladding, or wood cladding under false ceilings. Once installed, they’re completely invisible, and the best part is, once you watch a movie or listen to your favourite music, you will feel as if nothing could be better. Amina gives you studio-like performance music without the speaker being seen,” added Shubham.



URC HDA 4100 Back



URC HDA 4100 Front

Media Room

The moment you enter the media room, one would feel they have entered a new world of their own. The sound-treated room is there for only one purpose, to show the superiority of TruAudio. TruAudio, an American manufacturer of cutting-edge custom speakers, offers products that blend into the room’s decor while delivering unforgettable, life-like sounds.

The media room is outfitted with two different audio systems to display the versatility of TruAudio. First, a Dolby Atmos enabled 5.1.2 system, consisting of three GHT-66P in-wall LCR speakers, two GHT-SUR-P in-wall surrounds, two G72 in-ceiling speakers for atmos, and a SS -12 subwoofer.

The second system is again a 5.1.2 in-ceiling system consisting of three REV72 in-ceiling angled LCR

speakers, two REV72SUR in-ceiling angled surrounds, two G72 in-ceiling speakers for atmos, and a CSUB-8 subwoofer. Both systems are manufactured by TruAudio and distributed exclusively in India by Smato.

Complete control of the media room is controlled by the TKP-5600 in-wall touch screen controller by URC. This next-generation user interface allows for primary, whole-house control of up to 32 rooms, including entertainment, lights, cameras, door locks, thermostats, motorised blinds, pool, and other features. For the ultimate smart home experience, it provides simple two-way control of Total Control and compatible third-party items.

As Shubham Bidasaria wrapped off his studio tour, he elaborated, “We want to be a customer-centric company and spark transformation in the smart home and office automation industry through disruptive thinking, innovation, and partnering with leading brands around the globe who share the same vision and compassion as us.”

We are sure this walkthrough will help our readers make the right choice.

(Inviting Brands, Store Owners and System Integrators to showcase their store/experience store in Smart Home World. Send us your videos and images at: sandeep@smarthomeworld.in. The entries will be shortlisted through selection criteria)



Smart Lighting Needs and Solutions

Ar. Arjun Rathi shares his views on technology-driven lighting designs, optimized lighting and the future of the lighting industry with Smart Home World.





Arjun Rathi is a Mumbai-based architect running a multi-disciplinary studio working across Architecture & Lighting Design called Arjun Rathi Design. Through his studio's work, he interprets space through the lens of lighting, designs fixtures and installations. He is also the co-founder of the Rural Modern Glass Studio in Mumbai, which is India's first art-glass studio exploring hand-blown glass across glass-art, home accessories, objects and tableware. Smart Home World takes his on the latest lighting technology and design trends.

Lighting and interiors go hand in hand, can you explain how lighting plays a crucial role within the design process of all your projects?

As a studio, we mainly explore lighting design through the design and execution of decorative fixtures and installations to illuminate spaces. We always aim to capture the client's imagination through the exploration of materials, shapes, and forms to define or accentuate the room, combined with lighting effects and shadows generated by the materials to create the ambience. We offer a high level of customisation even to our standard products, from material finishes, glass colours, and size customisation, allowing our products to be used across different aesthetics and living/working

patterns. Fixture formats like Ceiling Flushmounts, Wallscones, Hanging Pendants, Standing and Table Lamps, Lighting Installations, and Mobils are some typologies we try to implement with the required aesthetic, functionality and materials to create the necessary ambience.

Another change in this segment is wireless lighting control. This is now becoming mainstream. How do you incorporate this technology into your projects?

Since most of our work is customised in design and fabricated for the clients, interior designers and architects, we can incorporate automation and other smart home system modules within our fittings. Sensor technology and automation give us a range of dimmable and colour-changing features which add value to our customised works.

An increasing number of drivers and light engines from various manufacturers are now available in India. How do you incorporate their clever technology, and how do you adopt this in your project?

Regarding Drivers, Ballasts and other light



technologies, the market is flooded with a lot of brands, local and international. So firstly, it is important to segregate which brands work with the site compatibility we are supplying to, and the availability of spares and services in the long term. Many times, our selections are also based on which branded fittings can be incorporated into our fixtures in the most invisible manner, such that the focus is mainly on the decorative fixture and not the technology components powering it. As a studio we always try to integrate LED fittings within our fixtures, which helps us eliminate the need for bulbs and short-term maintenance, making it user-friendly.

What are your views on lighting controls, the benefits, and the science behind them?

Lighting controls and automation have added a new dimension to convenience when operating decorative or technical lighting for home and office space. We design for a variety of sizes and different client bases.

What are the most important considerations you make when collaborating with a system integrator?

Since the majority of the studio focuses on designing and building decorative lighting fixtures, we tend to design our products around the



technological components we use. We always look for companies which make the required components as invisible as possible and which can offer the best service or replacement warranty for the future. It is also important to note, that many brands are compatible with each so we tend to see which ones are readily available in different parts of the country or the world, where the products are being supplied. This process gives us a lot of flexibility and does not restrict us to the limitations of any brand or control system.

Successful luminaire design will always depend on technical innovation and material. What are your views on the same?

Our products are generally exploring a variety of materials and production processes, many times we combine hand-made crafts from different parts of the country with industrially produced components; as a studio we work as much as possible with local vendors and have upskilled the craft and fabrication community to cater to our lighting design requirements. Sustainability for us has always been to upskill and support the craft and artisan communities, and combining these handmade/fabricated components with modern lighting technology defines the fixtures we produce.

What is the biggest innovation in the lighting sector? How has it revolutionized the entire industry and contributed to the lifestyles of the urban mass?

Currently, the LED revolution has been defining consumption and innovation in the lighting sector. Power efficient lighting and long-lasting fixtures are the need of the hour and LED has been the solution in recent decades and maybe in the years to come. Also, the flexibility of LED, when it comes

to colour changing or control-related features, has enhanced the user experience. The technology is implementable in a variety of sizes, indoor and outdoor applications which most of us experience in a day-to-day setting.

What is the current demand for smart lighting in India?

Smart lighting is in high demand in Tier I and developing Tier II and Tier III cities. Clients have become increasingly educated on available systems and the convenience they offer; hence there is a high demand to integrate them in projects across various budget categories.

According to you, in which sector (hospitality, commercial, residential), traditional lighting is getting rapidly replaced by smart lighting?

Due to the high requirement for artificial lighting, smart lighting technology has seen a lot of success and innovation in hospitality and commercial application. Designing technical lighting which is



flexible to different users, and living and working formats have been the biggest success of smart lighting.

In what ways smart lighting is capable of promoting better health both physically and mentally?

Whether a workspace's light source is natural, artificial, bright and blue, or dim and yellow, the type of light that employees are exposed to not only impacts mood, circadian rhythms and physical health, but also affects productivity and creativity. In general, warm yellow lights are better for relaxing and unwinding while cool blue-white lights are better for waking up, working and concentrating. Creatively, you are at your best when you are well rested, alert and energised, and the right lighting can put you in the right state. But lighting that is too dim can strain your eyes and make you feel drowsy and tired. Too harsh lighting on the other hand can be harsh to your eyes and disrupt your sleep.

Your views on the future of the lighting industry, what can we expect from the firm in the future of design?





Many of us spend majority of our time living and working in different environments lit by artificial light. Through our fixtures, we aim to create magical stories through a play of colour, shadows and darkness; which formed the fundamentals Light. Form(s). Post-covid we started exploring Indian-inspired, pop-colour whimsical lighting collection; we started exploring nostalgia with Indian candies and desserts. As a country known for its rich culture, bright and vivid colours, a lot of our modern design shy-ed away from it. We wanted people to be overwhelmed with light and colour in a way they have never experienced, and started the Rural Modern Glass Studio, to help us explore hand-blown art-glass lighting, something new to the space of Indian lighting.

Can you share projects, where you have incorporated this technology and how the projects have benefitted from it?

One of our creations The Gulmohar Bloom is an installation comprising of casted brass branches with glass rondels inspired by the Indian gulmohar flower. The hand-blown glass mix colours of vermillion, gulmohar yellow and orange, with marble-finished glass globes to balance out the lighting designed for the pre-function area of the Almond Banquet, designed by Morph Lab, located in Kolkatta. The botanical installation spans 1,300 sq ft of ceiling area in two diagonally incremental branch systems, incorporating over 200 light fittings controllable by the automation system. Each of the 183 hand-blown glass flowers has dimmable LEDs along with warmer tone filament bulbs used in the



54 marbled- glass bubbles; attached to a control system and tuned as per various mood settings required in the pre-function area of the banquet. We have used LED Vendor - Chloros Eco Solutions and driver we have opted for Osram.

SHW

Architects & Interior Designers Contribute to the Rapid Adaption of the Concept of Smart Spaces.



Smart Homes were in the past viewed as a luxury, with their primary purpose being to serve as a showpiece for the owners. This reality has changed substantially, both because of the development of newer technologies like Internet of Things (IoT) and Artificial Intelligence (AI), and also because of simultaneously occurring social changes that are occurring in our everyday lives. Today professionals are now rapidly adapting Smart Home Automation Systems in their projects.

Smart Home World took the initiative to initiate an interactive session to discuss the adaptation of Smart Technology in their projects.

Moderated by Ar. Khozema Chitalwala, Founder and Principal Architect, Designer Group. The other panelist included Ar. Alhad Gore, the founder and Managing Director of the architecture firm, Beyond Design and Santa Gour, Co Founder, Infinitti Design Studio.

Khozema Chitalwala opened the discussion by sharing how technology has influenced our lifestyle in a positive way. There are a lot of things that can be controlled by a panel, remote or through app. But at the same time, if overused you can face a few negative effects.

Starting the discussion Khozema asked the



Ar. Khozema Chitalwala, Founder and Principal Architect, Designers Group.

member panelist, What do you feel about the technology and smart spaces? What comes to your mind first?

Taking her first question Santa said, "My take on technology is we need to have a balance in life. Technology is a necessity, but we should know where to use it and when to use it."

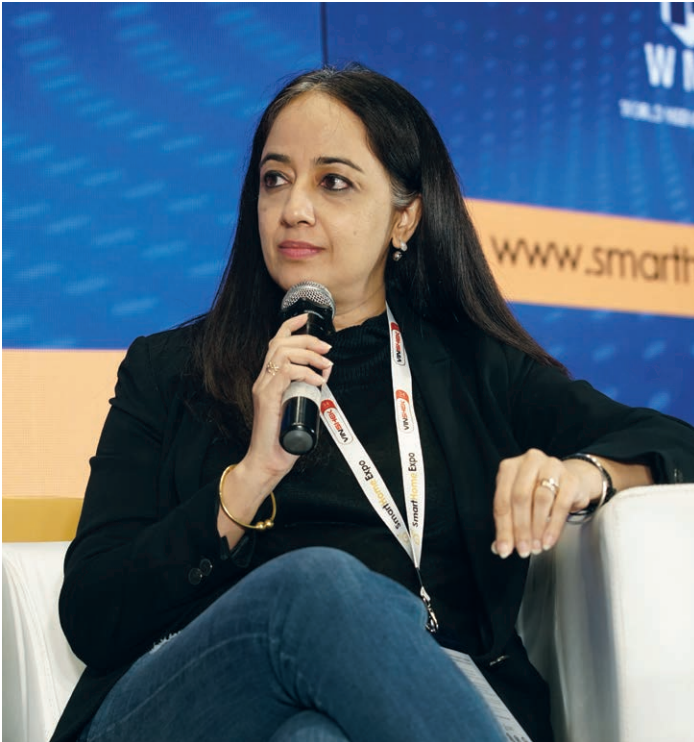
Adding further insight on the same topic, Alhad Gore said, "Today, we have access to the latest technology. With smartphones, we already have the power in our hands. There are two possibilities either we use it in excess or don't make the right use. What we will have to decide is that technology doesn't have brains. It only works on AI and algorithms. It only works on certain logic that humans have given it. So, we have to decide, what should be the part of technology in our lives and where we need to stop."

Adding her insights on the Smart Cities, Santa adds, "So many Smart Cities are coming under Smart City Mission. For me, it's a holistic way of looking at things at a city level. Smart lighting, recycling and many features will help in conserving energy and cost in long term."

Khozema Chitalwala asked the panelist their views on, "What are the thoughts that come to your mind about Smart Automation, as an architect? Putting across his thought process, Alhad says, "There are



Ar. Alhad Gore, Founder and Managing Director, Beyond Design Architects & Consultants.



Ar. Santa Gour, Co Founder, Infiniti Design Studio.

two aspects to this productivity and green norms. We have the power of changing the dynamic of this industry, so when it comes to Smart Automation, it is our responsibility to educate and fit in only that which is necessary.”

Santa says, “Generally, clients look at the intangible benefits but it is our responsibility to educate our clients. If we study the client’s requirements and

incorporate these, the clients will over a period of five years definitely benefit from the cost saving.”

Khozema says, “We work on hospitality projects and in these projects, the logic behind the Smart Technology is definitely not to create a ‘Wow’ factor but save the cost. There is meticulous thinking and planning.”

Discussing the client’s reaction to adopting smart technology, “We can use technology in layers, in corporate projects, people are very receptive to desk booking, touchless points, lighting etc. are well-integrated and the clients in the corporate are very clear about employee’s experience and productivity.”

Adding her insight on adopting smart automation in the residential projects Santa adds, “We are designing celebrity homes, who are investing in high-end speakers and when it comes to residential the ‘WoW’ factors is deciding factor in most of the projects. In the residential, the deciding there is a huge demand for home theatres and high-end audio speakers.”

Khozema concludes the session by saying, “That we as architects should take it upon ourselves to strike the right balance when it comes to using Smart Automation Systems. Firstly, we meticulously study the requirements of each client. Educate them about the importance and I am sure they would be open to the idea of adopting them in either their workspace or personal space. We architects have the power and vision to change the dynamics of social economy behavior, but we have a lot of other powers by virtue of our logical planning, logic, and creativity. So he had his last word saying “Smart Technology is a boon if used in the right manner. **SHW**



Philips Dynalite Announces the Launch of Revolution EU

Smart Home World gives its readers a preview of soon to be launched Revolution EU, a premium user interface (UI) from Philips Dynalite.



Philips Dynalite will soon launch the Revolution EU, a premium user interface (UI) that will revolutionise the way its users interact with light. Philips Dynalite believes that Revolution EU marks a shift in the industry towards dynamic fixtures that have the capacity to evolve with the needs of users over time. The UI is appreciated for its modular design, which offers interior designers countless

customization options, including multiple colour choices, button configurations, and RGB backlit labeling.

Plus, the sleek, contemporary exterior can be tailored to suit various environments, with multiple button configurations, colour choices, custom engraved labeling, and RGB backlights. Internal environmental sensors and seamless connectivity

elevate Revolution beyond lighting control, enabling it to communicate local conditions to the Dyalite network and provide valuable opportunities for HVAC integration.

Adding further insight Daniel Walker, Global Hardware Product Manager, Philips Dyalite

says, "I'm proud to say that we have developed a feature-rich, contemporary lighting control UI that seamlessly leverages the features and functions found natively within the Philips Dyalite system. One push of a button can transform a room, a floor, or an entire site, such is the power of this revolution."

Product Features and Functions

- Field effect technology detects the presence of an approaching user and lights up the keypad to encourage interaction.
- RGB backlit buttons can be independently configured from an endless colour palette, responding dynamically to a button press or system event. The backlights fade when Revolution is not in use, enabling the panel to blend into its environment, reducing light pollution, and conserving energy.
- Supplied as two components - The Application Module contains buttons, rim, base, and mounting plate, which can be mixed and matched to suit the decor. The Communication Module (DACM) contains logical and network functions and can be pre-programmed off-site, allowing commissioning to commence prior to finalizing rim and button options.
- Integrated temperature and humidity* sensors contribute location-specific environmental data to the system, eliminating the need for third-party BMS or HVAC sensors and controls.
- Modular architecture allows the communication module to be pre-commissioned offsite and installed separately, before the frame and button options are finalized.
- Multiple languages and icon labeling - Button labeling language choices Arabic, Chinese, English, Hebrew, Japanese and Korean with font and size options, as well as an extensive icon library that transcends language barriers. Custom button engraving - Available on request.
- All indicators and sensors are completely hidden, giving a sleek and minimalist aesthetic.
- Decor-matching options - Buttons and rims are available in a range of attractive glass-look polycarbonate finishes. It combines style and durability. It is scratch and fingerprint resistant, and can withstand the use of hospital-grade cleaning agents. The switch is available in two-button, four-button and eight-button options.
- 64-channel DMX Tx support - Can be factory-set to DMX instead of DyNet, to communicate directly with DMX fixtures.

Product Application Area:

Residential and commercial spaces.

About Philips Dyalite:

has empowered smart buildings across the globe for over 30-years with its suite of connected lighting solutions. More than just lighting control, the Dyalite System offers all the powerful integration tools you need to bring your next project to life. Suitable for any project at any scale, this innovative system will help you to transform environments and enhance people's lives. Philips Dyalite is a global brand of Signify, the world leader in lighting for professionals, consumers, and lighting for the Internet of Things.



(The official release date for Revolution is in early September, however, pre-orders are currently available through the Dyalite Design Studio.)

CEDIA EXPO's Innovation Hub

CEDIA Expo has announced the return of the Innovation Hub, a platform that will feature emerging technologies and industry-trending presentations from show exhibitors. The Innovation Hub will feature topics focused on 'Resimercial', work from home, outdoor living, lighting, security solutions, and many others.

The Innovation Hub is designed as an all-in-one platform to provide attendees with insights surrounding emerging trends. The Innovation Hub will present more than 25 sessions over three days. Industry influencers will guide the daily programming, which will begin with data from the CE Pro "Deep Dive" research on channel crossover and resimercial shifts. The sessions will offer unique insights from brands and organizations that have experienced success in new market segments, including



AVPro Global, Broan-NuTone, Delos Living, Dynamat Inc., HAB Home Intelligence, Hubitat Inc., IMCCA, Jabra, Living in Place Institute (LIPI), VOC Instrumentation, and many

others.

CEDIA Expo has identified key growth areas for the residential technology industry to develop sessions focused on emerging technologies and trending market segments. The crossover between residential and commercial integration has created an increased opportunity. Emerging technology application segments, including work from home, outdoor living, lighting, and security, are offering new business expansion opportunities. To support these new growth categories, CEDIA Expo has created the Innovation Hub specifically designed to present technology application case studies to help illuminate new business and technology areas for CEDIA Expo attendees.

For more information, visit cediaexpo.com.

Google is Recruiting Testers.

Google rolled out an update for the Google Home app with a redesigned home tab earlier this year. The new home tab layout made it easier for users to control their connected smartphone devices, but it doesn't seem like Google is done redesigning the app. The company is reportedly working on a "next generation design of the Google Home app," and it's currently looking for testers to take it for a spin ahead of its final release.

According to a recent post on Reddit (via 9to5Google), the Google Nest Trusted Tester program is taking Cerntercode's help to recruit "a group of highly engaged testers that are willing to help Google Nest test an unreleased product." The recruitment page states that



Google Home

the testing program "will focus on the next generation design of the Google Home App." Although the page doesn't reveal any information about this next generation design, it adds that testers who enroll in the program must sign a non-disclosure agreement (NDA).

The recruitment page further highlights a set of requirements for willing participants. Testers

applying for the program are required to have a Google Nest product, including thermostats, networking devices, speakers, displays, cameras, doorbells, locks, Nest Protect (smoke alarms), or Chromecasts. In addition, they must also use "either the Google Home app or the Nest app" to control these products.

ioXt Jointly Launches Global Cybersecurity White Paper with RCGCG

The global standard for IoT security, ioXt together with the Research Center for Cyberspace International Governance (RCGCG), recently launched the Global IoT Security White Paper. The White Paper is the world's first security white paper on the IoT industry, proposing a set of twelve guidelines to better safeguard global IoT security. The organizers convened a virtual conference of global security experts to announce the findings and initiatives of the 2022 Global IoT Security White Paper, identify industry challenges across geographies and point the way forward to cybersecurity solutions. Speakers included guests from the White Paper research group, MIT, Observer Research Foundation America, the Carnegie Endowment for International Peace, the Centre for Humanitarian Dialogue, and other distinguished guests.

“IoXt’s security standards elevate product manufacturers to meet the extraordinary number of threats to their products and brand, ensuring brands are safer for the problematic world.” said Craig Miller, Director of Intellectual Property at ioXt.

The White Paper points out that IoT devices have infiltrated all areas of consumer life and critical infrastructure. According to the international think tank Groupe Speciale Mobile Association (GSMA), global IoT connections reached 13.1 billion in 2020, while wired IoT devices are expected to hit 23.3 billion by 2025. In the face of this rapid expansion, many firms and organizations have failed to keep up the pace of comprehensive IoT security, leading to large security risk exposures. Global IoT security is further complicated by the international nature of supply chains amidst a contentious geopolitical environment, including the challenges caused by



acrimonious Sino-U.S. relations.

The White Paper suggests that such divisiveness is lose-lose and that countries need to forge a consensus on technology and national security, to facilitate cybersecurity advancement in the face of increasing threats. The research group advises that cybersecurity requires a holistic approach across the industry on device security, data security, and personal privacy protection, covering all stages of the product lifecycle from product design, technical standards, compliance certification, to security governance. The paper highlights corporate case studies in cybersecurity best practices including Eurotech, Tuya Smart, SDT Inc., and Happiest Minds Technologies.

“The future security and sustainability of the IoT industry will depend upon the collaboration and joint response from governments, private companies, and non-governmental organizations. The release of the 2022 Global IoT Security White Paper demonstrates that all main actors in the IoT market

can work together to develop clear, tangible and measured initiatives that will create a robust and safe IoT industry. It is my hope that we will build on this White Paper and continue to work with more key players to ensure the future security of the fast-growing IoT market,” said Dr. Lu Chuanying, director and senior fellow at the RCGCG.

To accelerate the construction of global IoT security systems and improve governance, the White Paper proposes twelve guidelines to enhance public confidence, improve IoT cybersecurity governance, encourage industry innovation, and further develop the global digital economy.

Guidelines include recommending

- Stronger international trust and cooperation
- Encouraging corporations to spearhead in-house cybersecurity initiatives
- Fortifying international cybersecurity standards
- Building an open IoT security

industrial chain

- Investment in R&D for innovative cybersecurity solutions
- Enhancing public awareness on cybersecurity safety
- Growing the cybersecurity professional talent pool.

While the global complexities of the IoT supply chain make it challenging to construct security

systems, the research group sees a path forward through the twelve guidelines and deeper international cooperation. Cybersecurity is an incredibly pressing and relevant issue. According to anti-virus and computer security service provider Kaspersky, IoT cyberattacks more than doubled year-over-year in the first half of 2021 with 1.51 billion breaches of IoT devices from January to June 2021, increasing from 639 million in the same period

of 2020. Because IoT devices collect such a wide array of data, reinforcing global standards and cooperation on cybersecurity will protect not just personal privacy, but also business secrets and national security. The vulnerabilities caused by this fragmented global system requires cooperation between international standards, research institutions, private industry and governance groups.

Josh.ai and Somfy Partner for Motorized Control

Josh.ai continues to expand the power and range of artificial intelligence in the home through integration with Somfy, the world's largest manufacturer of tubular motors for interior window coverings and exterior shading solutions.

The partnership between the two well-known brands in the custom integration channel will benefit the design-build community. This venture will provide multiple shading and screening fabricators with a recommended voice control platform. The added advantage for the clients will be to adjust the degree of daylight warming their homes or conveniently automate a theater screen, Josh.ai now provides them with a natural and privacy-oriented means of control.

Starting with the Tahoma interface, Josh.ai has targeted wireless and retrofit applicable installs with their first iteration of Somfy integration. Support for Somfy's low voltage offerings, including UAI+, will be coming in a future update.

Integrators will enjoy an efficient deployment process for Wi-Fi-connected Tahoma bridges after enabling third-party integration for Josh.ai in the Somfy app. Once authorized, Josh.ai will automatically begin pulling in the following devices from Somfy for native control: Shades, Blinds, Draperies, Exterior Screens, Awnings, Rolling Shutters, Pergolas,



Projection Screens, and Zigbee Smart Plugs.

By communicating directly to each device within a project, the Josh.ai integration ensures a user-friendly experience. The case of shade grouping applies to not only a room's shades, but sub-types like sheers and blackouts as well.

Utilizing Josh.ai's advanced device aliasing capabilities will enable clients to experience more convenience when interacting with their homes. Natural language commands like, "Ok Josh, close the blackout shades and lower the theater screen," as well as, "Ok Josh,

raise the first-floor solar sheers halfway," are now possible with this new Somfy integration.

"When combined, voice control and solar shading add an aspect to daylighting that allows an occupant's space to react to their needs at any given moment. Whether it's exposing views, providing shade, or protecting valuable artwork, the combination of movement and voice control is something to experience, and not soon forget," said Brittany Mier y Terán, Somfy's partnership and CI channel manager.

KNX Association Sets a New Benchmark Through 2022 Awards Nominees



The most coveted awards in the Smart Automation category instituted by KNX Association announced the 2022 Awards Nominees. The KNX Association, the creator and owner of KNX technology – the worldwide standard for all applications in home and building control, proudly declared that this year the high-quality entries received from across the globe reflect the superior quality and innovation of KNX Smart Home and Smart Building projects all over the world.

Nominees from across the Globe:

Smart Home – Africa, America, Australia:

- Smart Apartment in Nasr City by Circuit One (Egypt)
- Rafik Sarkis by Gila Al-Tawakol-Electric (Egypt)
- JMS Villa in Iguassu Falls with KNX Technology by Arqtech Automação (Brazil)
- AD Residence by JMM Proyectos y Tecnologia (Mexico)
- Specialist disability accommodation (SDA) Park House by Syncwise (Australia)

Smart Home – Asia:

- Future city of China Resources Land by Hangzhou EaseMore Technology Co., Ltd (China)
- Villa with Infinity Pool by Matt & Massimo G.K. (Japan)
- Msheireb Down Town by Qatari Computer Systems WLL (Qsoft) (Qatar)
- Baku White House by Okal Electric (Azerbaijan)
- Mahestan Ultra-Modern Villa by Tanootas International (TICO) (Iran)

Smart Home – Europe:

- Downtown apartment by cognitive (Greece)
- Smart Living am Nockherberg by cojacon GmbH (Germany)
- La Folie Boulart by Lionel Armand (France)
- Villa 101 – Adeje, Tenerife by Leonardo García Rufinoa (Canary Islands)
- KNX Controlled Smart Home by Proel AS (Norway)

Smart Building Award – Africa, America, Australia:

- Hotel Seybousse Annaba by DTEK (Algeria)
- Torre Sigma by Cinergia Infraestructura Eficiente SAS (Colombia)
- El Nasr Housing & Development (NHD) Headquarters by Entech (Egypt)
- Etéreo by Auberge, Riviera Maya's success Building Automation Project by Estévez | Grupo MAI | Migdal Arquitectos | Mayer Davis (Mexico)
- The New Maitland Hospital by mySmart (Australia)

Smart Building Award – Asia:

- Iraqi home foundation for creativity by El-Nukhba Engineering Company (Iraq)
- IKEA Navi Mumbai by Entelechy Systems (India)
- Al Messila, a Luxury Collection Resort & Spa, Doha by PAC International, Doha (Qatar)
- F1 Control Command Centre, Singapore – KNX Lighting Control System by Illuminating Asia SG Pte Ltd (Singapore)
- Expo 2020 Dubai Pavilions by Controlium Building Technology (United Arab Emirates)

Smart Building – Europe:

- XLNC Leipheim by Bematec Gebäudetechnik e.K. (Germany)
- Botaniq Tura Castle by Elektro-Kamleithner Kft. (Hungary)
- Old Post Station & Farm Store by FDE Electric (Belgium)
- Conference Hotel in Leverkusen by Klaus Geyer Elektrotechnik Inh. Sarah Geyer (Germany)
- Automatisation Complète de la Maison

Administrative de la Province de Namur by Prelude (Belgium)

Energy Efficiency:

- Mosaic Englefield Road by Mosaic (United Kingdom)
- Smart Residence in Leon by PROINGENIUM (Mexico)
- Positive Energy Family House by swithc Maciej Kapica (Poland)
- Smart Home in Patras by TESCON (Greece)
- Sports Centre Kerenzerberg by Soltris GmbH (Switzerland)

Innovation:

- Fishermen's Club by BMS Group (Ukraine)
- Mauro Suites Self-Managed by KNXCONSULTORES (Spain)
- Greenspace Darling Park by In Control Automation Pty Ltd (Australia)
- Martinhal Residences by Projedomus (Portugal)
- Efficient Energy Management in Residential Buildings by Expert Petric (Austria)

Publicity

- SmartHome/KNX-Showroom in Deutschland eröffnet by Alexander Bürkle GmbH (Germany)
- KNX showroom where sanity and perception meet by Chongqing Saville Technology Co. (China)

- Elektro Hieber Showroom by Elektro Hieber (Germany)
- Princess Andriana Resort & Spa by PGS IKE (Greece)
- Mercure Hotel Timisoara by IntelligentBuildings (FELT SRL) (Romania)

Special:

- House of the Rising Sun by DMC Technology (United States)
- Al Wakrah Stadium by Gazzaoui & Partners - Qatar (Qatar)
- The KNX Indoor farm by Earth Goodness Ltd (Israel)
- The smartest home ever in Japan by SUMAMO by SUMAMO co., ltd. (Japan)
- A Medieval Castle at the Sea by GDS Digital Systems Ltd. (Greece)

Education:

- KNX Training Videos during COVID-19 for Ministry of Education by Artman Smart Energy Solutions (Iran)
- KNX-Trainingcenter.com Corona Solution by KNX-Trainingcenter.com (Germany)
- Mega Full KNX Training by Porto Smart (Egypt)
- KNX Basic + HVAC + Advance Book in Persian (Farsi) Language by stcenter.ir (Iran)
- IKNX Prime Video by IKNX School (Spain)

Philips launches a New LED TV in India

Philips 7900 Ambilight Ultra-HD Android LED TV series is recently launched in India. The television range is available in three sizes - 55 inches, 65 inches, and 75 inches - with all televisions in the range having Ultra-HD (3840x2160-pixel) LED screens, with support for HDR up to the Dolby Vision format, and Dolby Atmos. The Ambilight TV range features built-in three-sided LED lights behind the screen, which replicate the colours on screen for a unique viewing effect. The televisions will be available through Philips' sales and distribution network, which includes online and offline multi-brand electronics retail stores.

Unique Feature

- Philips 7900 Ambilight LED TV series supports high dynamic range content in all the major formats, including Dolby Vision, HDR10+, HDR10, and HLG.
- The television also supports Dolby Atmos sound, with the 55-inch TV featuring a 20W speaker system.



- The Ultra-HD screen has a refresh rate of up to 60Hz, and the television has dual-band Wi-Fi and Bluetooth 5 connectivity.
- The television runs Android TV software, with the new stock Android TV user interface, and access to major apps and streaming services through the Google Play Store. There is also Google Assistant support through the remote, as well as built-in Google Chromecast.

Price: Starting at Rs. 99,990 in India.

4th Edition Of Smart Home Expo 2023 To Be Held At Pragati Maidan In New Delhi On May 4, 5 and 6, 2023.



India's Largest Exhibition & Conference on Smart Home Technology—Smart Home Expo 2023 will be held at Pragati Maidan in New Delhi on May 4, 5, and 6, 2023. Block your dates in advance to witness the show in a much bigger format with new brands, the latest products and conferences. Plus, Smart Home Expo 2023 brings together suppliers and buyers in a design atmosphere. It has been the best platform for companies/brands to enter the Indian markets from across the world.

Smart Home Expo is India's largest comprehensive trade show and conference to showcase Smart Home Technology from across the globe. 200 plus renowned exhibitors will display an array of Smart Home Technology solutions, Home Automation Systems, Smart Lighting & Switches, Consumer Electronics, entertainment audio & video systems, security, Smart Building Solutions, Sensors, and camera systems, and hardware connecting and voice recognition technologies, to name a few. The event will be focused on the future of smart technologies, showcasing

the latest innovations in the Smart Home industry, Home Automation, Energy Saving, Audio Video, Building Automation, Futuristic Home Solutions, and more. The Expo Cum Conference will include an exhibition floor, a conference, and training for the industry stakeholders, plus an Awards Night.

Why Should You Participate?

As an international event and as the only specialized exhibition on Smart Home Technology in India, it will introduce your company/brands to the big players in the sector.

- It will help you connect with systems integrators, developers, contractors, architects, and interior designers from across the world.
- Offers a great opportunity to reach and connect with the construction industry which covers residences, offices, schools, hotels, hospitals, government buildings, military buildings and more.
- With a record footfall of 12,000+ visitors every year, it will help

you showcase your products and services and make new connections at the best time for the sector. It will help you reinforce your brand image and enhance your news value.

Exhibitors' Profile:

- Smart Home Control Systems
- Home Automation Solutions
- Smart Touch Switches/Keypads
- Smart Lighting and Lighting Control Solutions
- Audio-Video | Smart Home Security
- Voice-enabled Solutions
- IoT technology
- Smart Home Hubs
- Motion sensors
- Smart Hotel Solutions
- Technology for connected homes
- Home Entertainment Products
- Home Cinema

- Smart Switchgear & Touch Panels
- Lighting Controls
- Smart Lighting Solutions
- Smart Home Appliances

Why Smart Home Expo 2023?

By joining Smart Home Expo 2023, the only and most comprehensive exhibition in the sector, you will have the opportunity to showcase your products, services, and brands to relevant professionals and enter into new commercial collaborations.

- As an international event and as the only specialized exhibition in the sector in India, it will introduce your company to the right audience.
- It will help you connect with Systems Integrators, Developers, Contractors, Architects, Interior Designers and service suppliers from across the world.
- Offers a great opportunity to showcase your products and services and make new connections at the best time for the sector.
- It will help you reinforce your brand image and create awareness amongst the right audience.

Visitor Profile:

- System Integrators
- Architects
- Interior Designers
- Project Contractors
- Builders & Developers
- Real Estate Purchase Heads
- AV Integrators
- Interior Designers
- Lighting Designers
- Lighting Consultants
- Electrical Professionals
- Smart City Developers
- Hotel and restaurant planners
- Dealers & Distributors of Smart Home Solutions
- Town Planners
- Sports Center Manager
- Private House Owners
- Public Institutions and Organizations
- OEMs



Take Away...from Smart Home Expo 2023

Smart Home Expo 2023 is a golden opportunity for direct contact with brands, companies, top producers, and suppliers of technical equipment. All exhibition visitors will have the opportunity during the short time to find a wide range of products, familiarize themselves with the latest developments in home technology, conduct direct negotiations, etc.

This Expo is a wonderful opportunity to become familiar with and choose products necessary for the decision of business-tasks for specialists on the installation of Home Automation, Smart Home Solutions, safety systems, representatives of the specialized enterprises of wholesale and retail trade, and also engineers, on the exploitation of equipment for providing of Luxury, comfort, safety and security, entertainment and much more.

72% of the visitors confirm the importance of the exhibition for doing market research for a new product or service.

Event Website: www.smarthomeexpo.in

Book your participation here:
Click Here or Call - 7506017744 /7506503881



Snap One Offers New Innovations in its Product Range.

Snap One has recently announced that it will showcase a host of new innovations across its product ecosystem on stand 111 at EI Live! in September. Anchored on its two award-winning business platforms, Control4 Smart Home OS 3 and OvrC Remote Management, the raft of new products encompasses brands in lighting, speakers, amplifiers, multiroom audio, surveillance, power and surge management, film screens, racks, mounts, cables, connectors, and wiring.

The company will demonstrate how Control4 Smart Home OS 3 and OvrC Remote Management provide a strong base for Snap One partners to build high-quality, end-to-end smart home projects.

Control4 Smart Home OS 3 is the operating system that unifies hundreds of connected devices within the home into one intuitive, user-friendly experience. Snap One will show how recent platform improvements can deliver more personalised experiences for

customers.

OvrC, the company's free cloud-based remote management platform, fully supports Snap One's networking brands, Araknis and Pakedge, and its recently enriched feature-set makes the ecosystem better, faster, and more reliable. Every Control4 OS 3 system can be remotely managed using OvrC without any additional hardware required.

The show will also give visitors the chance to discover how they can create colour presets that customers can personalise and include lighting colour as a key element of lighting scenes and programming. In Control4 OS 3, new capabilities include a native lighting colour wheel UI for fast and intuitive control of tuneable white and colour lighting.

Also on display will be the latest products from Triad and Episode, including Triad's new PDX Architectural speakers, which will



make their EI Live! debut. The new speakers provide high-quality audio performance with a simple and efficient installation using PushLock technology.

Episode's new Mini 5.1 Amplifier, 2.1 Active Soundbar/Sub, and the Mega Subwoofer range will also be on show. Snap One will also provide the first showing of the Wattbox brand on the international market with an adapted version of the Wattbox 250 Wi-Fi solution for power conditioning applications.

On both days of EI Live!, Snap One will host technical and sales training in a dedicated theatre. Each hour-long session will provide best practice guidance and actionable advice to drive business success. The sessions are 'Networking for the Modern Day Smart Home' and 'How Smart Technology Can Drive Healthy and Green Living'.

Xiaomi 360 Home Security Camera 1080p 2i

The Xiaomi 360 Home Security Camera 1080p 2i looks similar to its older version. It has a neat ball-shaped matte finished design with a camera that rotates up and down and horizontally with the base. The device is made out of a polycarbonate body and is solid in appearance. On the backside, you will find a speaker grill, a micro USB port for power input, and rubber grips at the bottom. There's a reset button and a microSD card slot which you can access by sliding the

camera lens upwards, the camera rotates horizontally at 110 degrees from its base and vertically at 108 degrees

Model: MJSXJ10CM

- Camera: 2 MP 110-degree wide angle lens (360-degree view in horizontal & 108-degree view in vertical)
- Video Resolution: 1080p
- Video encoding: H.265

- Storage: microSD card up to 32 GB, NAS support, Cloud support
- Connectivity: Wi-Fi 802.11b/g/n 2.4 GHz
- Features: Human Detection, Night Vision, Two-way real-time calls, Motion triggered video clips, Google Assistant + Alexa Support, Sleep mode, Easy installation (upright or upside down), Mi Home app, Xiaomi Camera Viewer (Desktop)

NEWS

- OS Support: Android 4.4 and iOS 9.0 and above
- Power: DC Input (5V, 2A)
- Color: White
- Dimensions: 7.5 cm x 7.5 cm x 10.8 cm
- Weight: 254 grams
- Price: 3,199 (2,999 in offer)



Camera Performance & Features

The Xiaomi 360 Home Security Camera 1080p 2i has a 2 MP 110-degree wide-angle lens that supports a 360-degree view. The camera equips a dual motor head that enables the camera to rotate and capture a full 360-degree horizontal view as well as a 108-degree vertical view. Features of the camera include infrared night vision, human detection, two-way real-time calls, motion-triggered video clips, sleep mode, and supports Google Assistant and Alexa.

Installing the camera is easy, the camera can be installed either upright or upside down, you will need a power connection besides the camera since it works on DC input (5V, 2A). Connect the camera to the power adapter and download the Mi Home app on your phone to set it up and use its features. The camera offers Wi-Fi 802.11b/g/n 2.4 GHz connectivity and no 5 GHz, so you have to shift to a 2.4 GHz Wi-



Fi network if you want to use the Xiaomi 360 camera.

You can view the live footage of your home on the mobile phone using the Mi Home app as well as on the desktop using the Xiaomi Camera Viewer for the desktop which you can download from Xiaomi's website. The live streaming footage of the camera can be viewed with up to 4 screens at a time. The audio output is one screen at a time, which means only when a single-camera screen view is On and not on multiple screens. For viewing on TV, you can access the Mi Home app from the User Centre in PatchWall and control the camera through a TV remote too (specific to MiTVs & Xiaomi TVs).

The camera stores the footage in a microSD card of up to 32 GB which you need to separately insert. You do get more options to save your home surveillance, you can use the NAS (Network Attached Storage) storage as well as upload to the cloud in case you want to keep a backup. The camera records 1080p videos in H.265 codec. motion-triggered video



clips are also recorded, the camera can be motion triggered every 3 minutes to 30 minutes depending on the settings you choose.

The camera has invisible 940 nm

infrared LEDs for enhanced night vision and clear night-time images, the image sensor displays the video in color in low light conditions for detailed view. The camera has certain optimizations, you get an AI human detection feature that effectively filters out false alarms and improves accuracy.

You can use the calling function on the camera and communicate in the room via the two-way real-time calls feature. This feature allows you to make two-way voice calls in real-time which gives you the comfort to speak to people from wherever you like. The camera also supports popular voice assistants, Google Assistant and Amazon Alexa so you can control the camera via voice commands.



NOTES

A series of horizontal dashed lines for writing notes.

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