AN EXCLUSIVE MAGAZINE FOR THE SMART HOME INDUSTRY.

## SMARTHOME VOL4 · NO 10 FEBRUARY 2025



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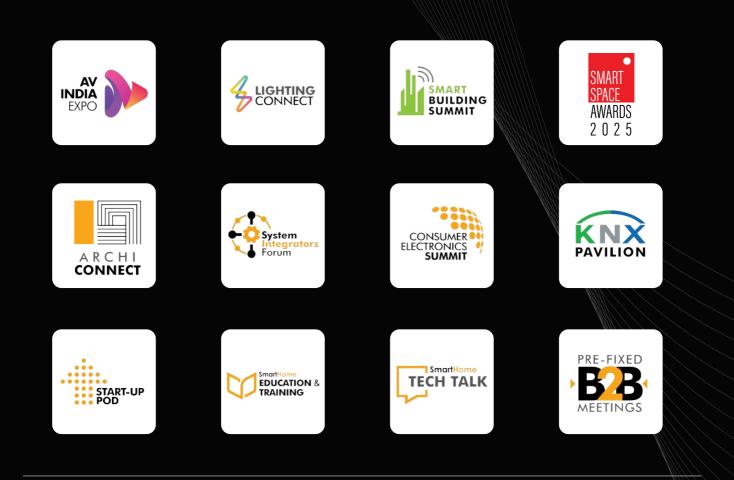
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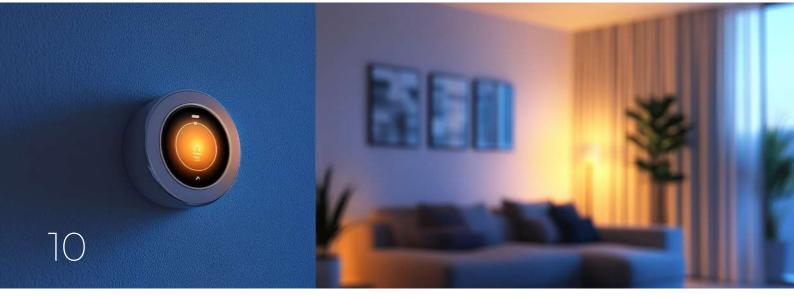
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Smart Home World showcases the latest breakthroughs in AI-powered assistants, IoT-enabled devices, and the future of home automation in 2025, highlighting a shift from simple connectivity to personalized innovation.

#### **Feature Article**

Smart home security systems are advancing quickly, bringing innovations along with increasing concerns about data security and privacy. We reach out to leading brands to gain their expert insights and explore their product offerings.

#### **Case Studies**

The Reverie (Sky City) apartment, designed by Studio SB, seamlessly integrates sophisticated interiors with advanced smart home technology.

Modern Indian, designed by Studio Osmosis, is a luxurious apartment that seamlessly combines family heritage with cutting-edge smart technology, creating a personalized and functional living experience.

#### **Interviews**

Ar. Rhea and Truptesh Sawant share their experience with integrating smart technology, advanced automation, and sustainable solutions in their projects

Avi Rosenthal, Chairman, Z-Wave Alliance, discusses the exciting developments and future direction of Z-Wave, highlighting the pivotal role of the Open Source Working Group in driving advancements and reinforcing Z-Wave's position as a leading smart home standard.



#### **Special Report**

ISE 2025 showcases groundbreaking product launches and innovations across the AV and smart technology sectors.

**Brand Connect** 

In this section, we showcase Smato Technologies, a leading provider of smart home and audio solutions in India, and PRO FX, which is transforming spaces with innovative audio, video, and automation solutions.



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The Marantz Horizon Luxury Wireless Speaker combines exquisite craftsmanship with cutting-edge performance.

BenQ offers a range of innovative and design-rich tech products including Projectors, Monitors and Interactive Display Panels.

Enjoy cinema-quality visuals at home with the Formovie Theater Premium UST projector, equipped with advanced ALPD® technology for an immersive movie and gaming experience.

The new SIM2 ULTRANERO4 projectors made their world debut at ISE 2025, offering high-performance image quality for large home cinemas, gaming setups, and medium-sized venues.

#### News

Discover the latest innovations in home automation, smart lighting, security cameras, and audio-video solutions.



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#### FROM THE EDITOR



SWATI BALGI

A decade ago, smart homes were a luxury reserved for the elite. Today, however, the adoption of smart home technology in India has increased multiple folds driven by increasing consumer awareness and a growing demand for convenience, security and energy efficiency.

In this issue, our cover story shares exciting updates on Al-powered assistants, IoT-enabled devices, and the future of home automation. What's truly fascinating is the shift we're witnessing – from simple connectivity to a more personalized and innovative approach. Our homes are no longer just connected; they are tailored to our unique needs, enhancing both comfort and functionality.

Our Feature Story highlights the growing popularity of Smart Home Security and the growing concerns surrounding data security and privacy. To provide expert insights, we reached out to top industry brands to explore their offerings and understand how they are addressing these concerns.

In our Case Study section, one of the standout experiences was a visit to The Reverie (Sky City) apartment, designed by Studio SB. This luxurious space is a stunning blend of sophisticated interiors and cutting-edge smart technology. Equally impressive is the Modern Indian apartment, a project by Studio Osmosis. This design combines family heritage with futuristic smart technology, creating a living space that is not only deeply personal but also incredibly functional. It strikes a perfect balance between tradition and innovation, providing a glimpse of what the future of smart homes can look like in India.

Avi Rosenthal, Chairman, Z-Wave Alliance, shared his perspective on the future of smart homes, emphasising the role of the Open Source Working Group in shaping Z-Wave's evolution.

In Brand Connect, Smato Technologies and PRO FX are revolutionizing the smart home and audio space in India. These brands have devices that seamlessly blend innovation with everyday functionality.

Stay Updated and get back to us with your feedback.



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## **Emerging Trends in Home Automation and Smart Technology For 2025**

In 2025, AI-powered assistants and the next generation of interconnected IoT devices are taking innovation to new heights. This article highlights the latest advancements reshaping the home automation and technology industry.

Every year, home automation and smart technology continues to evolve, offering something new and transformative. In this ever-advancing industry, we've witnessed innovations that have moved beyond mere enhancements, fundamentally reshaping the way we live. As we enter 2025, we're seeing the rise of AI-powered assistants and the next generation of interconnected Internet of Things (IoT) devices that are pushing the boundaries of what's possible. This new wave of technology is taking our homes to new heights—making them smarter, more intuitive, and highly personalized. Around the world, brands are racing to adopt Al-driven systems, recognizing the transformative power of this technology. We already see established brands enabling users to control multiple devices seamlessly through voice assistants or smartphone apps. Platforms such as Amazon Alexa, Google Assistant, and Apple Sirileverage Al algorithms to understand natural language commands, allowing users to carry out tasks ranging from adjusting thermostat settings to controlling lighting with just their voice. These advancements are not just about convenience but creating a smarter, more interconnected home environment.



One of the latest developments that has caused a significant buzz in the industry is Apple's unveiling of an innovative table lamp. Unlike traditional lamps that merely provide light, this one interacts with users in ways that mimic human-like behavior. Apple's engineers recently published a paper on the arXiv preprint server, detailing the design and features of the lamp. The company also shared several videos showing it in action, demonstrating the new approach to smart technology. This breakthrough is indicative of the industry's move beyond mere functionality-pointing to a future where automation and smart tech are more focused on personalization. It signals a shift towards creating devices that not only respond to commands but engage with users in a way that feels more human and intuitive. Samsung is also making significant strides in the realm of AI. Recently, the company hosted the Galaxy Tech Forum, where they showcased how Samsung Electronics is reimagining smart homes through the concept of Home Al. This new vision of smart living goes beyond the basic needs of users and focuses on delivering hyper-personalized experiences. In one of the sessions at the Tech Forum, titled "Understanding Home, Understanding You: Rethinking the Role of the Home in the Era of AI," the transformative potential of AI in smart home innovation was explored. It was emphasized that the key to delivering the promise of Home AI lies in collaboration. Jaeyeon Jung from Samsung Electronics stated, "The SmartThings platform is 10 years in the making, and while the concept of a smart home isn't new, AI technology is what is truly creating the intelligent home." He elaborated on how the shift from a device-centric approach to an AI-powered, user-centric one offers users a personalized, connected experience that feels like home—no matter where they are.

On the same platform, Tobin Richardson, President and CEO of the Connectivity Standards Alliance (CSA), added, "Building blocks for AI in the home are grounded in seamless connectivity, with AI relying on device interoperability to thrive. A common language like Matter enables devices to communicate effortlessly, setting the stage for AI innovation." Samsung's efforts are helping pave the way for a new era of intelligent, connected homes that integrate seamlessly into every aspect of daily life, making smart homes more intuitive and adaptable.

Speaking of interoperability, the latest release of Matter 1.4 marks a significant step forward in the smart home ecosystem. According to the Connectivity Standards Alliance, Matter continues to expand its coverage with each new iteration, and the latest version is no exception. Matter 1.4 brings several enhancements, including expanded energy management capabilities. It now supports devices such as solar panels, batteries, heat pumps, and water heaters, ensuring a more efficient and sustainable smart home ecosystem. Furthermore, the update improves the role of home routers and access points by allowing them to function as both Wi-Fi access points and Thread border routers. This will ensure more reliable network infrastructure for devices that are Matter-compatible, which is essential for a smooth smart home experience. Additionally, Matter 1.4 introduces enhanced multi-admin support, which is crucial for households with multiple users, allowing better control and management of devices in shared environments.

As we move deeper into the realms of Al, loT, and edge computing, the recent CES 2025 and ISE 2025 events have showcased several groundbreaking advancements that are set to redefine smart home automation. These technologies are converging to make homes smarter and more interconnected, enabling systems to communicate seamlessly with one another, resulting in heightened efficiency and convenience. Edge computing, in particular, is poised to reduce latency and improve the performance of smart devices. Coupled with strong cybersecurity measures, these advancements will improve the reliability and security of interconnected systems. Furthermore, Augmented Reality (AR) and Virtual Reality (VR) technologies are expected to play a pivotal role in transforming the way users interact with and maintain these systems. The push toward sustainability will also influence the adoption of ecofriendly technologies, while innovations like Digital Twin technology will enable predictive maintenance, helping users stay ahead of any issues and further expanding the possibilities of smart homes.

One of the most exciting and innovative trends in the smart home sector is the development of batteryless, energy-harvesting devices. The Z-Wave Alliance is at the forefront of researching and developing devices that generate their own power through kinetic energy harvesting, thus eliminating the need for traditional batteries. This means that devices like door locks, sensors, and switches could operate without batteries, relying entirely on the movement of the device itself. Unlike other wireless technologies, which often face tradeoffs in range or bandwidth to make energy harvesting feasible, Z-Wave's innovations aim to maintain full-range functionality across





both Z-Wave Classic (mesh) and Z-Wave Long Range (ZWLR). This breakthrough marks a significant step forward in terms of sustainability, reliability, and maintenancefree smart home solutions, offering a more eco-conscious and efficient approach to home automation.

In parallel, the Wi-Fi industry is undergoing a transformation to support the growing demand for faster, more reliable, and secure connectivity in smart homes. The Wireless Broadband Alliance (WBA) has predicted that Wi-Fi will play a key role in the smart home ecosystem by becoming more integrated and capable of supporting a new generation of connected devices. Advancements in Wi-Fi technology will lead to a more seamless and dependable experience for users as they interact with their smart home systems, from entertainment devices to security systems, ensuring that devices stay connected even in high-demand environments.

On the energy front, EcoFlow's Oasis system is revolutionizing how we manage energy in our homes. Powered by AI, Oasis provides homeowners with real-time insights into their energy usage, helping them make smarter, more sustainable decisions about how to use and store energy. The system also includes the EcoFlow Assistant, an AIdriven chatbot that offers energy-saving tips, such as recommending the optimal times to run appliances or advising on when to use stored energy during peak pricing periods. The seamless integration of AI into energy management is paving the way for smarter, more efficient homes that not only respond to user commands but actively help reduce energy consumption.

Finally, MediaTek, in collaboration with Google, is developing a new connectivity chipset that supports Thread, Bluetooth, and Wi-Fi technologies to enhance the user experience in smart homes. This new chipset, part of MediaTek's Filogic family, promises to enable faster, more reliable, and always-on connections across multiple wireless technologies, helping to improve the smart home ecosystem. It will also support Matter, a global standard that simplifies communication between devices from different manufacturers. By enabling interoperability between these devices, Matter and Thread will ensure that smart homes become more seamless and secure, setting the stage for a truly interconnected future.

The future of smart homes is being reshaped by AI, IoT, and advanced connectivity, offering more personalized, efficient, and sustainable living. Innovations like Matter 1.4, energyharvesting devices, and AI-driven energy management are enhancing functionality while promoting eco-friendly solutions. The future of smart living is here, and it's more connected and personalized. FEATURE STORY

## The Future of Smart Home Security: Innovations and Challenges in Data Security and Privacy

Smart home security systems are rapidly evolving. **Smart Home World** examines the changing landscape, the challenges surrounding data security and privacy, and the future prospects.

In today's fast-paced world, ensuring the safety of your home has become more accessible and efficient, thanks to the advancement of smart home security systems. Today the Indian market has witnessed a substantial increase in the adoption of smart security solutions. According to a report by Mordor Intelligence, the India Electronic Security Market is expected to reach USD 3.16 billion in 2025 and grow at a CAGR of 23.57% to reach USD 9.11 billion by 2030. The report also suggests that this growth is driven by factors such as rising disposable incomes, urbanization, and



a growing awareness of the benefits of smart home technologies.

Apart from the factors mentioned in the



Mordor Intelligence, there are various technical advancements like AI and Machine Learning that have revolutionised smart home security, with devices like smart cameras offering facial recognition and adapting to user behaviour. IoT integration also creates a connected security ecosystem, enabling devices to work together, such as lights turning ON or doors locking when motion is detected. Cloud storage ensures footage is safe and accessible remotely, while smart locks and sensors provide remote control and enhanced convenience. The latest innovation launched this year at CES 2025 and ISE are the touchless Smart locks that unlock by detecting the speed, direction and intent of the users.

However, challenges such as data security and privacy concerns, high initial cost, lack of standardisation and unreliable connectivity are the major challenges. Now manufacturers and brands are working on providing foolproof solutions by designing a robust system for their devices that protects them against cyber threats by adopting advanced cybersecurity measures and ensuring consumer confidence in smart home solutions.



Smart Home World speaks to manufacturers and brand leaders to discuss how they're delivering secure, reliable smart home security solutions, and how their technically advanced devices are designed to build consumer confidence and trust.



Aditya Khemka, Managing Director, CP PLUS (Aditya Infotech Ltd)

#### What are the Primary Cybersecurity Challenges Your Brand is equipped to Handle in Connected Security Home Products?

In a world where the concept of `home' transcends physical walls into the digital realm, CP PLUS stands as a synonym for CCTV and dependability, crafting connected security home products that are not just innovative but also impervious to emerging cybersecurity threats. For each challenge that we confront in this domain, we offer sophisticated solutions to help secure your sanctuaries.

For Unauthorised Access and Hacking Challenges: The specter of cybercriminals breaching devices or systems looms large, threatening the sanctity of personal security.

Solution: CP PLUS fortifies its products with multi-layer authentication, robust password protocols, and secure login mechanisms. These defenses act as digital sentinels, barring the gates against unauthorized intrusions.

When it comes to Data Privacy and Encryption Challenge: The interception of sensitive data during its journey, be it in live streaming or storage, is a pressing concern.

Solution: Employing end-to-end encryption protocols like HTTPS, TLS, and HLS, CP PLUS

ensures that every data packet travels under an unyielding cloak of security. From cloud uploads to live feeds, your privacy is never compromised.

#### Firmware Vulnerabilities

Challenge: Outdated firmware is often a welcome mat for cyber exploits.

Solution: CP PLUS addresses this by enabling regular firmware updates and OTA patches, empowering its devices to adapt swiftly and thwart new vulnerabilities. In our ecosystem, no weakness lingers unchecked.



#### Weak Network Security

Challenge: Insecure networks can compromise even the most advanced devices.

Solution: CP PLUS products are designed to function seamlessly within secured environments, supporting protocols like WPA2 for Wi-Fi and encrypted remote communications, ensuring your network remains a fortress.

#### Malware and Botnet Attacks

Challenge: The insidious threat of devices being co-opted into botnets casts a long shadow.

Solution: Armed with device-level firewalls, CP PLUS devices vigilantly monitor for malicious activities, severing any attempt to exploit them for nefarious purposes.

#### IoT Integration Risks

Challenge: Integrating third-party IoT ecosystems often brings unforeseen vulnerabilities.

Solution: CP PLUS upholds rigorous standards by enabling secure API interfaces and partnering exclusively with trusted platforms. This creates a harmonious yet impervious IoT ecosystem, where every integration prioritizes security.

User Awareness and Configuration Errors Challenge: The most robust technology can falter if users are unaware of best practices or configure devices incorrectly.

Solution: Through intuitive user interfaces, step-by-step configuration guides, and educational resources, CP PLUS empowers users to fortify their security, transforming them from passive adopters into proactive defenders.

At CP PLUS, cybersecurity isn't an afterthought, it's the very foundation of our connected security solutions. By addressing these challenges with precision and foresight, we continue to redefine what it means to feel safe in an ever-connected world. Some of the top models that boost high levels of cyber security include CP-E51AR; CP-V44G and CP-Z44R. With CP PLUS, the future of home security is not just smart; it's secure, resilient, and unvieldingly reliable.

#### How do you address cybersecurity risks in the IoT devices you manufacture or distribute?

The world of IoT devices is a marvel of connectivity, offering unprecedented convenience, but it also opens gateways for potential cyber risks. We don't perceive cybersecurity only as a precaution. For us, it is the very architecture on which our IoT devices are built. Every layer of our design, development, and deployment is infused with measures to counteract vulnerabilities, ensuring trust and safety for our users.

Our journey toward fortified security begins with the design of the devices themselves. Each product is equipped with built-in encryption technologies such as TLS and HTTPS, shielding data as it traverses between devices, applications, and servers. Moreover, tamperresistant hardware ensures that physical breaches are met with robust resistance, safeguarding the devices from unauthorized manipulation.

The ever-evolving landscape of cyber threats demands agility, which CP PLUS delivers through automatic Over-The-Air (OTA) firmware updates. These updates act as vigilant sentinels, addressing vulnerabilities the moment they surface. Notifications keep users informed, ensuring their devices are armed with the latest defenses against emerging threats.



Securing access to IoT devices is paramount, and CP PLUS enforces this with strong authentication mechanisms. By implementing robust account protection protocols, we ensure that only authorised individuals can interact with the devices. Coupled with secure network connectivity protocols like WPA2 for Wi-Fi, our devices thrive in fortified digital environments where encrypted communication ensures data remains confidential. Layered security is at the heart of our solutions. Device-level firewalls stand guard, blocking malicious traffic and preventing unauthorized access. Access control further refines this protection by limiting permissions to only what is necessary. These measures combine to create an ecosystem that is both intelligent and impervious to intrusion.

Risks like botnet attacks, which exploit IoT devices for malicious purposes, are neutralized through advanced intrusion detection and prevention systems. Our devices are designed not only to detect but to thwart such threats before they can take root.

Beyond technology, we empower users with knowledge. Our intuitive guides, tutorials, and step-by-step configuration resources ensure that users can set up and maintain their devices securely, making them active participants in the cybersecurity process.

By embedding these measures into every facet of our IoT devices, CP PLUS goes beyond mitigating risks, we create a sanctuary of trust in an increasingly connected world. Whether for homes or enterprises, our devices stand as a testament to our unwavering dedication to secure, seamless innovation. We don't compromise on connectivity and security. Some of the top IoT models that help you stay secure and seamlessly connected include CP-Z43A and CP-V48A.

#### How do you collaborate with third-party partners (e.g., app developers and service providers) to ensure the security of the connected ecosystem in smart homes?

Our approach is not merely collaborative: it is transformative, guided by stringent protocols and an unwavering commitment to safeguarding the connected lives of our users. At the foundation of this collaboration lies the establishment of uncompromising security standards. Every partner, from app developers to service providers, is required to adhere to globally recognized benchmarks such as GDPR and IoT security guidelines. This insistence on secure development practices ensures that vulnerabilities are minimized, setting a strong baseline for our connected ecosystem. Seamless integration with third-party solutions is achieved through meticulously designed secure API frameworks. Communication is safeguarded with encryption protocols like TLS and HTTPS, while token-based authentication and role-based access controls limit interactions to authorized entities. This fortified gateway ensures that no unauthorized entity can compromise the system.

Our commitment to security extends to rigorous testing and validation processes. Before deployment, every app or service undergoes exhaustive penetration testing to unearth potential vulnerabilities. Compatibility checks follow, guaranteeing that third-party solutions align seamlessly with our ecosystem without introducing security gaps.

Privacy, the cornerstone of user trust, is data-sharing through robust preserved agreements. Partners are bound by confidentiality clauses and regional data localization mandates, ensuring that sensitive user information remains private and compliant with regulations.

Cybersecurity is a battle fought on shifting terrain, and CP PLUS stays ahead by fostering a culture of continuous vigilance. Joint monitoring systems, developed in collaboration with partners, provide real-time anomaly detection, while an active exchange of threat intelligence equips us to counter emerging risks proactively.

Updates are a critical aspect of maintaining a secure environment, and we coordinate closely with partners to deliver synchronized firmware and software patches. This unified approach addresses vulnerabilities across the ecosystem, ensuring that no weak links remain.

To solidify these efforts, we have implemented certification programs for its partners. These programs validate the security and reliability of third-party apps and services, ensuring only the most robust solutions make their way to our users.

Security, however, is not solely a technological endeavour, it is also about empowering users. Together with our partners, we provide cohesive educational resources, from tutorials to security guidelines, enabling users to actively participate in securing their smart home ecosystems.

This seamless interplay of trust, technology, and transparency defines CP PLUS's collaboration with third-party partners. By creating a unified and secure connected ecosystem, we ensure that smart homes are not just intelligent - they are safe, reliable, and future-ready sanctuaries for modern living.

## What kind of biometric technology (e.g., fingerprint, facial recognition, retina scan) do you primarily use in your products, and why?

In the rapidly evolving realm of security, where innovation often races ahead of user trust, our brand has chosen a path less conventional but deeply considerate - eschewing reliance on biometric technologies such as fingerprint scanning, facial recognition, or retina scans in favor of solutions that are robust, versatile, and universally inclusive.

Rather than leaning on the allure of biometrics, the brand places its faith in advanced nonbiometric technologies like Smart Motion Detection, cloud integration, and Al-driven video analytics. This choice is not a matter of technical limitation but a deliberate strategy that balances security, privacy, and practicality.

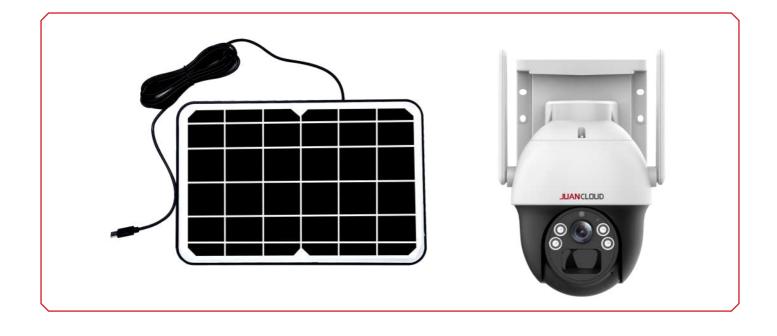
Smart Motion Detection, offers precision monitoring by distinguishing between routine movements and potential threats, ensuring heightened accuracy while minimizing false alarms. Coupled with Al-based video analytics, our systems can analyze patterns, identify anomalies, and provide actionable insights without invading personal boundaries or requiring the storage of sensitive biometric data.

The reliance on cloud integration further amplifies this approach, offering seamless remote access and control while prioritizing user convenience. By integrating these technologies, we ensure that security remains agile, adaptive, and attuned to modern needs without overburdening users with complexities or raising concerns about data privacy breaches. Accessibility is a cornerstone of this philosophy. while Biometric systems, technologically impressive. often come with inherent limitations - costly implementation, potential exclusions based on physical variances, and the risk of personal data misuse. CP PLUS sidesteps these challenges by creating solutions that are universally approachable and devoid of the vulnerabilities linked to storing or processing biometric information.

At the heart of this approach is our commitment to user privacy. In an age where personal data is increasingly commodified, we believe in protecting its users not just from external threats but also from the potential misuse of their own information. By avoiding biometric data altogether, we eliminate a layer of vulnerability, ensuring that our users retain complete control over their privacy.



The brand's philosophy reimagines security as something that doesn't merely rely on cutting-edge technologies for the sake of advancement but innovates thoughtfully to serve people better. Our products reflect this ethos - designed to secure homes and businesses while fostering trust, inclusivity, and peace of mind. This approach ensures that security isn't just effective; it's ethical, equitable, and enduring.



#### How do you address concerns around privacy and data security when it comes to biometric data collection and storage?

Privacy is not just a principle; it is a promise. At CP PLUS, this promise takes shape in the deliberate decision to forgo the collection or storage of biometric data - eschewing technologies such as facial recognition and fingerprint scanning in favor of solutions that prioritize security without encroaching upon personal boundaries.

This privacy-first ethos is woven into every product we craft, sparing our users from concerns about biometric data misuse or unauthorized access. Instead, our focus pivots to fortifying user data and preserving its sanctity with uncompromising diligence.

#### A Foundation Built on Data Security

All information processed within the CP PLUS ecosystem - whether it's a live video feed or an activity alert - is enveloped in layers of end-toend encryption using protocols like TLS and HTTPS.

This ensures that data remains safeguarded from interception or tampering as it traverses digital highways.

For cloud-based storage, we partner exclusively with certified providers who adhere to the most stringent international standards. These alliances guarantee that sensitive user data rests within a framework of impenetrable security. Empowering Users Through Control

At the core of our privacy strategy lies the principle of ownership. CP PLUS products give users the autonomy to control their data, with options for local storage on SD cards or secure cloud services. Complementing this are customizable privacy settings that let users determine recording parameters, manage sharing permissions, and fine-tune storage preferences - empowering them to define their security without compromise.

#### A Dynamic Shield Against Evolving Threats

CP PLUS devices undergo frequent firmware updates and Over-The-Air (OTA) patches, proactively addressing vulnerabilities and fortifying systems against emerging cyber threats. These updates reflect a commitment to not just responding to risks but preemptively mitigating them.

#### Transparency and Accountability

We believe trust is built on clarity. That's why CP PLUS offers unambiguous privacy policies, outlining how data is collected, stored, and utilised. Our practices align with global privacy frameworks like GDPR, ensuring that every interaction adheres to the highest ethical and regulatory standards.

By refraining from biometric technologies and embracing robust, transparent security practices, we not only protect user data but also preserve their trust - reminding them that security can indeed coexist with privacy and dignity.



Mr. Alok Parmar, Director Marketing & Sales, Discreet Solutions Pvt. Ltd. (Onetouch)

What are the primary cybersecurity challenges your brand is equipped to handle in connected home products? Please elaborate.

The journey to a secure home starts with addressing the big question: How do we protect smart homes from cyber threats? Onetouch is ahead of the curve, ensuring every connected device is fortified against potential risks.

#### Data Privacy Concerns:

Onetouch ensures end-to-end encryption and follows global privacy standards like GDPR to safeguard user data. Additionally, regional data localization practices ensure compliance with Indian privacy laws.

#### Unauthorized Device Access:

To prevent intruders from accessing devices or networks, Onetouch employs device-cloud mutual authentication using unique keys, PKI-based digital certificates, and anomaly detection mechanisms.

#### IoT-Specific Vulnerabilities:

IoT-specific attacks like those targeting protocols such as MQTT or CoAP are rising. Onetouch counters these threats with secure firmware updates, intrusion detection systems, and robust encryption.

#### Cloud Service Reliability:

Protecting against DDoS attacks and cloud server breaches, Onetouch deploys multifactor authentication (MFA), load balancing, and DDoS protection mechanisms.

#### How do you address cybersecurity risks in the IoT devices you manufacture or distribute?

At the heart of Onetouch's mission is a multilayered approach to IoT security.

#### **Encrypted Conversations**

All data between devices, apps, and the cloud is encrypted using protocols like TLS 1.2/1.3 and MQTT over TLS. Think of it as a digital fortress around your information.

#### Firmware You Can Trust

Secure boot processes ensure that only trusted software runs on your devices. Regular Over-The-Air (OTA) updates keep us patched and ready to resist threats in real-time.





#### **Global Security Standards**

By aligning with top-notch standards like ETSI EN 303 645 and NIST IoT guidelines, Onetouch ensures our devices are as secure as they are innovative.

#### Constant Vigilance

Onetouch's platform keeps a watchful eye on device activity 24/7, ready to detect and neutralize any potential threats.

How do you collaborate with third-party partners (e.g., app developers, and service providers) to ensure the security of the connected ecosystem in smart homes?

Smart homes aren't just about individual devices—they're about ecosystems. Onetouch works closely with app developers and service providers to create a secure and seamless experience.

#### **Developer-Friendly Security**

By offering secure Software Development Kits (SDKs), Onetouch helps third-party developers build solutions that are as secure as they are smart.

#### Zero Trust, Maximum Protection

Adopting a "never trust, always verify" approach, Onetouch ensures every layer of the smart home ecosystem is protected.

#### Seamless Compliance

Partner integrations meet the same highsecurity standards Onetouch follows, ensuring consistency across the board.

#### Controlled Access

Granular role-based permissions mean that only authorized users and developers get the keys to your smart ecosystem.

## What kind of biometric technology (e.g., fingerprint, facial recognition, retina scan) do you primarily use in your products, and why?

Onetouch prioritizes fingerprint and facial recognition technologies over other forms of biometrics, such as retina scanning, for several reasons:

#### User-Friendly Experience:

No invasive procedures or complicated processes—just a quick scan or a glance, and you're in.

#### Cost-Effectiveness:

Fingerprint and facial recognition technologies keep hardware costs low while offering top-tier security.

#### Speed and Scalability:

Both fingerprint and facial recognition offer fast processing times, making them ideal



for high-traffic residential and commercial applications.

#### Practicality:

These solutions strike the perfect balance between precision and ease of use, making them suitable for most home security needs.

#### How do you address concerns around privacy and data security when it comes to biometric data collection and storage?

Biometric data is highly sensitive, and Onetouch has implemented stringent measures to ensure its protection:

Encrypted and Safe Biometric data is encrypted at every stage—whether it's being transmitted or stored.

#### Local Processing

Whenever possible, biometric data is processed and stored on the device itself, reducing exposure risks.

Legal Compliance

Onetouch adheres to global privacy standards like GDPR and implements regional data storage policies to comply with Indian data protection laws.

#### Layered Authentication

With Multi-Factor Authentication (MFA) and PKI-based certificates, Onetouch ensures that only authorized personnel can access biometric data.

The Trends Shaping India's Smart Home

Revolution As India embraces the smart home lifestyle, these trends are setting the tone for the future:

#### Biometric Access Control

Fingerprint and facial recognition technologies are becoming household staples, driven by their affordability, speed, and ease of use.

#### Al-Powered Threat Detection

Real-time monitoring systems, powered by artificial intelligence, are making proactive threat detection a reality.

#### Connected Ecosystems

Smart devices are working together more than ever, creating seamless and efficient home automation systems.

#### Privacy First

With rising consumer awareness about data privacy, Onetouch ensures transparency and compliance as a top priority.

#### The Road Ahead

The future of smart home security in India is all about blending innovation with trust, and Onetouch is setting new benchmarks with it's advanced solutions, including next-gen palm vein technology which is far more reliable than conventional systems, it ensures precise authentication by mapping unique vein patterns under the skin, eliminating the risk of unregistered palms gaining access. We're also simplifying visitor management with our QR code access-guests can receive a QR code via the Onetouch app, show it at the video entry station, and seamlessly gain access. Adding to this, our smart video doorbells and entry stations take snapshots of every visitor during authentication, ensuring no one is overlooked and offering users a comprehensive access log at their fingertips.

Also, Powered by the robust infrastructure of Amazon Web Services (AWS), Onetouch ensures secure, fast data processing and storage, with compliance to Indian data privacy laws. This foundation enables us to deliver seamless, reliable solutions that prioritize both security and convenience. Because at the end of the day, a smart home isn't just about gadgets; it's about creating a space where your family feels safe and at ease.



#### Shyam Motwani, EVP & Business Head of Locks and Architectural Solutions at Godrej Enterprises Group

What are the primary cybersecurity challenges your brand is equipped to handle in connected Security Home Products? Please elaborate.

All our connected home safety products at Locks and Architectural Solutions emphasize cybersecurity. The biggest challenges we address include unauthorized access, data breaches, and network vulnerabilities. The Advantis IoT9 smart lock tackles these challenges by implementing multi-factor authentication mechanisms. including biometric verification and time-sensitive PINs. effectively deterring unauthorized access. User data is comprehensively encrypted and stored on secure servers located in India, ensuring compliance with local data protection laws. Furthermore, the Advantis IoT9 smart lock utilizes secure communication protocols to guard against potential network intrusions, enabling our solutions to provide the highest level of protection for critical environments. With our safety mechanisms continually reviewed and improved, we are ahead of possible threats. Hence, there would be a greater degree of confidence among users in terms of their safety. Our product development is deeply rooted in cybersecurity and rigorously tested to meet the most stringent standards for safety and reliability.

How do you collaborate with third-party partners (e.g., app developers, service providers) to ensure the security of the connected ecosystem in smart homes? We address cybersecurity risks in our IoT devices through a multi-layered safety approach. The Advantis IoT9 employs advanced encryption methods for both transmitting and storing data, ensuring the protection of sensitive information. Frequent firmware updates are implemented to counter emerging threats and enhance security features, including secure boot mechanisms that allow only authorized software to run on the device. Users are provided with comprehensive documentation to effectively configure security settings. These measures work together to safeguard our devices from evolving cybersecurity threats. By leveraging the latest technology and implementing straightforward practices, we create robust defenses against potential cyberattacks, ensuring our products remain safe and reliable. Our proactive approach to cybersecurity, which includes regular checks and timely threat updates, enables us to quickly address potential issues and maintain the security of our IoT systems.

How do you collaborate with third-party partners (e.g., app developers, and service providers) to ensure the security of the connected ecosystem in smart homes?

Collaboration with third-party partners is essential for maintaining a secure and connected ecosystem. We work closely with app developers and service providers to ensure all components of the Advantis IoT9 are protected. This involves conducting joint safety assessments, sharing best practices, and implementing stringent security protocols. Our partnerships include thorough vetting processes, secure APIs for seamless integration, and continuous monitoring to detect and address any anomalies within the ecosystem promptly. By fostering strong relationships with our partners, we ensure every aspect of the smart home environment is safeguarded. This collaborative approach not only enhances home security but also promotes innovation and trust within the connected ecosystem. Additionally, our commitment to collaboration includes regular security audits and compliance checks, ensuring all partners uphold the highest standards of cybersecurity.

What kind of biometric technology (e.g.,



### fingerprint, facial recognition, retina scan) do you primarily use in your products, and why?

The Advantis IoT9 utilizes advanced 360° fingerprint recognition technology, enabling users to place their finger on the sensor at any angle for fast and accurate access. This technology strikes an ideal balance between security and convenience, offering robust protection while ensuring ease of use. Renowned for its reliability and high level of security, it is perfectly suited for smart home applications. By integrating advanced biometric technology, we enhance the user

experience, ensuring secure and controlled home access. Innovation and safety are the defining features that set our products apart in the market. Furthermore, 360° fingerprint recognition minimizes the chances of false rejections and ensures smooth access, even in challenging conditions.

#### How do you address concerns around privacy and data security when it comes to biometric data collection and storage?

Privacy and data security are paramount when it comes to biometric information. The Advantis IoT9 encrypts all biometric data during storage and transmission, effectively preventing unauthorized access. Biometric data is stored locally on the device, minimizing the risk of network-based attacks. Our data management policies comply with relevant data protection laws, ensuring the privacy and security of our users. By implementing robust safety measures and maintaining transparent data management practices, we build trust with our users. This commitment to data security ensures that users can rely on our products to safeguard their sensitive information, fostering confidence in our brand. Additionally, we provide users with clear and concise information about how their data is collected, used, and stored, ensuring transparency and full compliance with privacy regulations.



Piyush Pawa, National Manager, Lighting, Hafele

What are the primary cybersecurity challenges your brand is equipped to handle in connected Security Home Products? Please elaborate.

At Hafele, we understand the importance of cybersecurity in connected home products, particularly in smart lighting solutions. Our Loox LED lighting systems come with the Connect Mesh BLE technology which allows remote control interior lighting setup using Bluetooth Low Energy Profile, thereby eliminating the need for internet, making it secure. On the other hand, our digital locks RE-Inforce and RE-Twist allow remote controlling of the access to your home using the internet. Here, all the user data is encrypted and stored in the device itself, and any communication that happens over

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the internet is also encrypted, thereby taking care of any intruders. At Hafele, we don't just deliver intelligent and innovative solutions; we also prioritize the trust and peace of mind of our customers by addressing the evolving challenges of cybersecurity in connected spaces.

### How do you address cybersecurity risks in the IoT devices you manufacture or distribute?

We ensure that our devices adequately use encryption to store/transmit data. This reduces the risk of data theft/unauthorised access.

#### How do you collaborate with third-party partners (e.g., app developers and service providers) to ensure the security of the connected ecosystem in smart homes?

For our connected apps, we take care that the latest security updates are delivered to the users from time to time and that the software uses foolproof encryption which helps in safeguarding your smart home systems from intruders.

## What kind of biometric technology (e.g., fingerprint, facial recognition, retina scan) do you primarily use in your products, and why?

Fingerprint recognition is de facto in Hafele's digital locks. This feature is present in almost all our digital locks - RE-Split, RE-Inforce, RE-Twist, RE-Push, RE-Inspire, RE-Al, RE-Design+ and RE-Ach. A more recent addition is the

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Kabi-Net digital furniture locks range which encompasses capacitive fingerprint sensors into tiny form factors. In addition, our RE-Veal digital lock comes with facial recognition scanning over 170 points on the face making it a highly precise and secure method to recognize an individual's identity. Both biometric access technologies are widely tried and tested, thus offering a robust access control solution. Also being cost effective, these technologies can be seamlessly used by a wider customer base.

#### How do you address concerns around privacy and data security when it comes to biometric data collection and storage?

At Hafele, we prioritize privacy and data security in all our biometric-enabled products, such as our range of digital locks. To address concerns around biometric data collection and storage, we ensure that all biometric information, like fingerprints, facial scans, usernames, passcodes and audit trials are encrypted and stored locally within the device rather than on external servers. This minimizes the risk of unauthorized access or data breaches.

Our systems are designed with advanced security protocols that protect against cyber threats and unauthorized attempts to access sensitive data. By adhering to strict data protection standards and continually updating our security measures, Hafele ensures that customers can enjoy the convenience of biometric technology without compromising their privacy or data security.



Ashish P. Dhakan, MD & CEO, Prama Hikvision India Private Limited

#### What are the primary cybersecurity challenges your brand is equipped to handle in connected Security Home Products? Please elaborate.

Hikvision makes the following commitments as a responsible brand to protect against cybersecurity challenges. We support and adhere to internationally recognized cybersecurity standards and best practices; we support research efforts to increase network defense capabilities; we continue to improve and use open and transparent methods so that users can assess Hikvision's cybersecurity capabilities.



While making constant improvements to the cybersecurity system, Hikvision has always retained its focus on product security. Hikvision has built a comprehensive architecture to safeguard product security across device security, cybersecurity, application security, data security, and security operations, ensuring

product security and the ability to guard against risks in different application scenarios.

Developing and designing all products in accordance with international standards, and always exploring best practices with global security partners, Hikvision continues its ongoing efforts to provide safe and reliable products and solutions. Hikvision and a number of its products have achieved related certifications that are compliant with international industry standards.

Some of the key concerns include Weak Passwords and Authentication. Outdated Firmware and Software and various other vulnerabilities. To address these challenges, it is essential to implement robust security Regular measures, such as firmware updates, strong password policies, Network segmentation, Encryption, Secure deployment configuration, and Monitoring and for suspicious activity.

#### How do you address cybersecurity risks in the IoT devices you manufacture or distribute?

Hikvision takes a multi-layered approach to address cybersecurity risks in the IoT devices they manufacture and distribute. Here are some key measures:

Multi-Layered Security: Employs a comprehensive, multi-layered approach to cybersecurity, addressing threats at the network, application, and device levels. This ensures that all potential vulnerabilities are covered concurrently.

Regular Firmware Updates: Provide timely firmware and software updates to patch vulnerabilities and enhance security features. Strong Authentication Protocols: Use robust authentication protocols to prevent unauthorized access to devices and networks. Data Encryption: Implement strong encryption methods to protect data transmitted between devices and the cloud.

Compliance with Standards: Adheres to industry standards and certifications, to ensure their devices meet high-security requirements. User Education: Emphasize the importance of user awareness and provide guidelines on best practices for securing IoT devices.



By implementing these measures, Hikvision aims to minimize cybersecurity risks and provide secure and reliable IoT devices.

#### How do you collaborate with third-party partners (e.g., app developers, and service providers) to ensure the security of the connected ecosystem in smart homes?

Hikvision collaborates with third-party partners to ensure the security of the connected ecosystem in smart homes through several key initiatives:

Integration and Partnership Programs: Established integration and partnership programsthatallowthird-partydevelopers and service providers to integrate their solutions with Hikvision's products. This ensures seamless interoperability and enhances the overall security of the ecosystem.

Technology Partner Program: Hikvision's Technology Partner Program provides a platform for third-party partners to collaborate on developing secure and innovative solutions. This program includes tools and resources such as the Hikvision Embedded Open Platform (HEOP) and the Integration Checker Tool to ensure compatibility and security.

Compliance with Standards: Works closely with its partners to ensure that all integrated solutions comply with industry standards and certifications. This helps maintain a high level of security across the entire ecosystem. Regular Security Audits: Conducts regular security audits and assessments in collaboration with its partners to identify and address potential vulnerabilities. This proactive approach helps in maintaining the security and integrity of the connected ecosystem.

User Education and Support: Provides comprehensive support and education to its partners and end-users. This includes guidelines on best practices for securing IoT devices and ensuring that all integrated solutions are up-to-date with the latest security measures.

Moving ahead by fostering strong partnerships and adhering to rigorous security standards, Hikvision ensures that the connected ecosystem in smart homes remains secure and reliable.

## What kind of biometric technology (e.g., fingerprint, facial recognition, retina scan) do you primarily use in your products, and why?

Hikvision primarily uses facial recognition and fingerprint technologies in their products. Here's a closer look at each:

Facial Recognition: This technology is widely used in Hikvision's products for its high accuracy and convenience. Facial recognition uses dedicated algorithms and mathematical patterns to process biometric data, making it one of the safest identification methods. It's used in various applications, including access control, time and attendance, and visitor management. The touch-free nature of facial recognition also makes it hygienic and easy to use.

Fingerprint Recognition: Hikvision's fingerprint terminals integrate the latest algorithms and support multiple verification methods, including ID cards and PIN codes. These terminals are designed for both indoor and outdoor scenarios, offering efficient and reliable access control solutions.

Hikvision's use of these biometric technologies ensures high levels of security and efficiency, making their products suitable for a wide range of applications.



#### How do you address concerns around privacy and data security when it comes to biometric data collection and storage?

Hikvision takes privacy and data security very seriously, especially when it comes to biometric data collection and storage. Here are some key measures and best practices that are implemented as per the end-users recommendations.

Data Encryption: Uses strong encryption methods to protect biometric data during transmission and storage. This ensures that sensitive information is safeguarded against unauthorized access.

Compliance with Regulations: Adheres to global and regional data protection regulations, to ensure that biometric data is handled in compliance with legal requirements.

Access Control: Implement strict access control measures to ensure that only authorized personnel can access biometric data. This includes multifactor authentication and role-based access controls.

Regular Security Audits: Conduct regular security audits and assessments to identify and address potential vulnerabilities in their systems. This proactive approach helps maintain the security and integrity of biometric data.

User Consent: Ensure that users are informed about the collection and use of their biometric data and obtain their consent before collecting any such data. This transparency helps build trust with users.

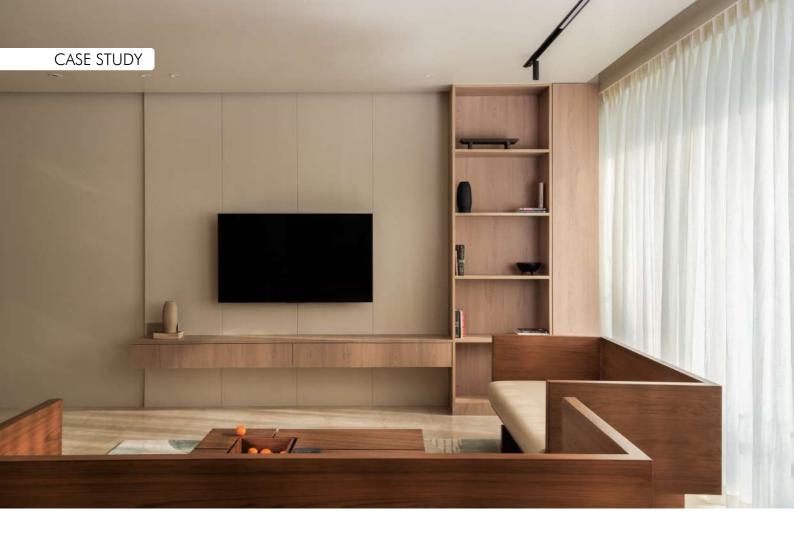


Data Minimization: Follow the principle of data minimization, collecting only the necessary biometric data required for specific purposes and retaining it only for as long as needed.

By implementing these measures, Hikvision aims to address concerns around privacy and data security, ensuring that biometric data is protected and handled responsibly.

Smart home security in India is on the brink of a revolution, driven by advancements in AI, IoT, and automation. While challenges around security, privacy, and affordability persist, the brand experts suggest that these obstacles will be overcome through innovation and greater market penetration.

Over the next decade, smarter, more secure, and affordable solutions will transform home security, offering greater peace of mind for Indian families.



## Merging Smart Technology with Minimalistic Design

Discover the epitome of modern living with The Reverie (Sky City) apartment by Studio SB, where smart technology meets sophisticated design.

The Reverie (Sky City) apartment, designed by Studio SB, offers a seamless blend of cuttingedge smart home technology and elegant interiors. Spread Over an area of 1,035 sq. ft. with an additional 30 sq. ft. balcony, this twobedroom residence exemplifies comfort and luxury, enhanced by a flexible and intuitive smart automation system. Although smart technology wasn't initially part of the design brief, the team at Studio SB assured the client of its numerous benefits, including energy efficiency, convenience and heightened security.

The designers opted for a neutral palette that enhances its minimalistic yet elegant aesthetic, creating a warm, cosy ambience for its residents. Guided by the philosophy of "We must be as modern as the possibilities of our time" by Mies Van Der Rohe, the living area is thoughtfully segregated into three distinct zones: Formal Living, Lounge, and Dining Areas. This multi-functional approach meets the needs of contemporary living while reflecting the personality and lifestyle of the occupants. Originally

designed as a 3BHK, the apartment was converted into a 2BHK to maximize the living spaces, offering a perfect balance between open areas and privacy.

#### Smart Home Automation and Technology

Smart technology plays a pivotal role in this space, seamlessly integrating with the design





to create a home that is both stylish and functional. One of the standout features is the smart lighting system, which enhances the ambience and atmosphere of the apartment. Luminova lights, powered by a driver-driven system, offer convenience and energy efficiency while creating a cheerful, welcoming environment. The lighting system can be customized to suit the mood and activities of the residents, making it a true hallmark of contemporary home design.

Climate management is optimized with automated AC and fan systems that ensure comfort while reducing energy consumption. The integration of Osum hybrid technology, which combines traditional wiring with switchenabled automation, allows for both Wi-Fi and manual control. Additional internet and system cabling at each switch point ensure a seamless smart home experience, enabling smooth integration of various technologies throughout the apartment.

Security is another priority, with advanced smart features such as remote monitoring, smart locks, and a highly efficient surveillance system that offers peace of mind to the



residents. The design also incorporates futureready solutions like automated curtains and music systems, which are being considered for future integration.

#### **Customization and Client-Centric Solutions**

The integration of smart home technologies was tailored to the specific needs and preferences of the homeowner. Although not initially part of the design brief, the inclusion of smart automation was presented as a value-added solution that could enhance the home's functionality. The designers ensured that every corner of the apartment not only fulfilled the client's desire for beauty and comfort but also embraced the convenience of modern technology, making the home a perfect fusion of style, practicality, and smart innovation.

#### **Smart Security Solutions**

The security of The Reverie apartment is elevated through the integration of smart security features. Remote monitoring systems and smart locks ensure that the property is safe and secure at all times. The surveillance system, integrated with advanced technologies, offers real-time updates and control, providing enhanced security for the residents. These features offer both convenience and peace of mind, ensuring that homeowners can always monitor their space, even when they are away. User-Friendly Interfaces

The smart systems in are designed with userfriendliness in mind. The innovative Osum hybrid technology enables seamless control through both Wi-Fi and manual switches, offering flexibility in how the homeowner interacts with the space. This dual approach ensures that the smart home features are intuitive and easily manageable, providing both convenience and comfort.

The Reverie (Sky City) is a true masterpiece that perfectly integrates sophisticated design with the latest smart home technology. With its seamless blend of elegance, energy efficiency, and advanced automation, the apartment sets a new benchmark for contemporary living. Studio SB has created a space where design and technology coexist harmoniously, providing a future-ready home that meets the demands of modern lifestyles.





### **PROJECT DETAILS:**

Project Name: The Reverie

Location: Mumbai, India

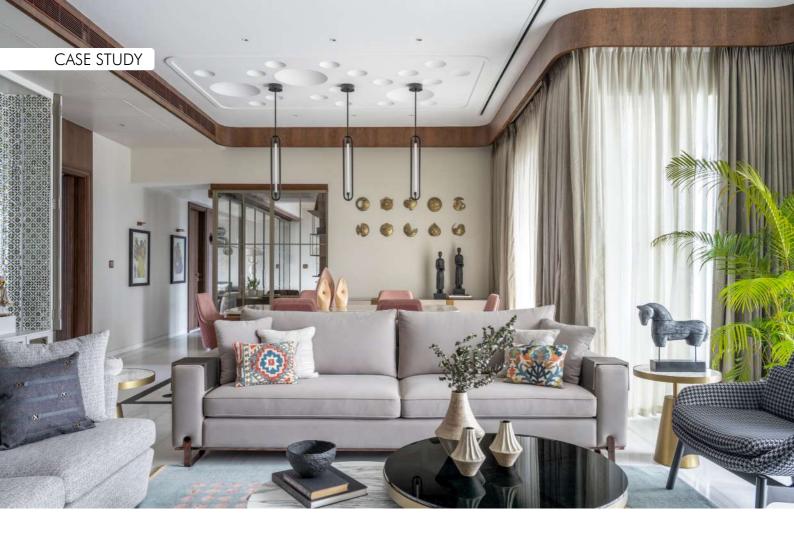
Area: 1035 sq. ft. + 30 sq. ft. Balcony

Initiation Date: July 2024

Completion Date: November 2024

Studio Name: Studio SB

**Principal Architects:** Ar. Saumitra Bhatkhalkar and Ar. Sharmin Wade



### **A Smart Secure Sanctuary**

Modern Indian is a luxurious apartment designed by Studio Osmosis that blends family heritage with advanced smart technology for a personalized, functional living experience.

The home named Modern Indian is not just a home; it's an embodiment of personal stories, values and the seamless fusion of comfort, technology and cultural heritage. Designed by Studio Osmosis, Modern Indian is located in the luxurious Windsor Grande Terrace in Mumbai. Spread over an area of 3,000 sq. ft. this apartment reflects a deep commitment to family, heritage, and a vision for a home that's as much about connection as it is about modern living.

#### The Concept and Design

"This project began with a unique brief, one that broke away from traditional requests. The clients, wanted a space, that would match their lifestyles, personalities and the importance of a home that resonated with their values and family ethos. The design concept embraced the idea of `Shunya,' symbolising the circle of life and continuity, which was subtly incorporated into the layout." explains Shilpa Balvally, Principal Designer, Studio Osmosis.

The apartment's design revolves around a Vastu-compliant center or Brahmasthan, designed to flow positive energy throughout the space. The flow of energy is enhanced by a muted taupe colour palette, mixed with textured materials that provide both aesthetic appeal and functionality. The design also carefully integrates luxury with Indian craftsmanship, incorporating art pieces by local designers and works that have been collected by the family over the years.

#### Integration of Smart Automation

In addition to its thoughtful design, the

apartment integrates cutting-edge Smart Home automation, which enhances both comfort and security. The client's brief centered on creating a warm, intuitive environment with ease of use and subtle luxury. The objective was not just to make the home smarter but to provide a seamless, user-friendly experience that was highly customisable and would evolve with the family's needs. Smart Home Features

#### **Lighting and Ambiance Control**

Using KNX systems integrated with Control4, the lighting throughout the home offers customizable scenes that cater to specific moods. These are controlled via intuitive keypads and the Control4 app, allowing the homeowner to adjust lighting and atmosphere from anywhere – even while at the office. The scenes are named and programmed with symbols reflecting the family's preferences and lifestyle.





#### **Curtain Automation**

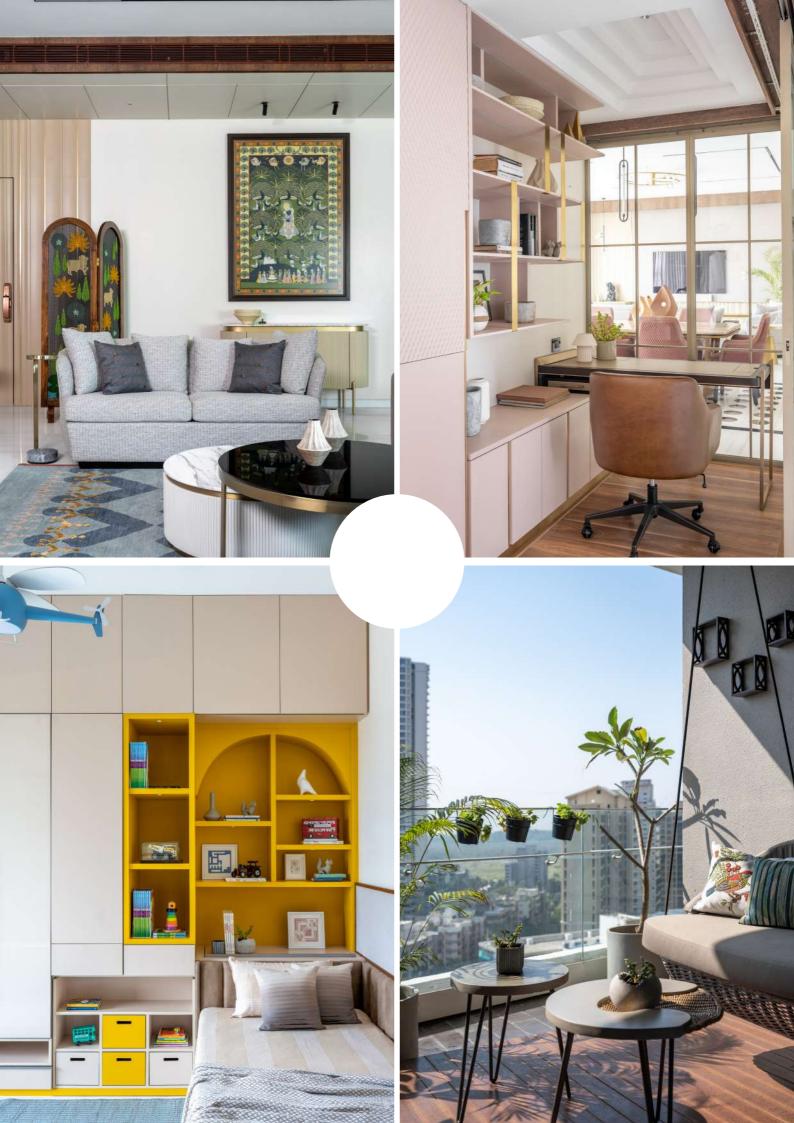
Smart curtain motors are integrated, with future-proof cabling for additional curtains or upgrades. The curtains can be controlled seamlessly with the lighting system, allowing for fully automated mood setting. Security and Surveillance

The home is equipped with a top-tier security system, including CCTV cameras installed in the kitchen, common areas, and entry points. These cameras are integrated with the Control4 platform, ensuring real-time monitoring and control. Digital locks from Yale provide secure access control, while biometrics are in place for added security.

#### **Networking and Connectivity**

A strong, reliable network system is essential for the smooth operation of all connected devices. For this, Senao Access Points, Netgear Routers, and Honeywell Patch Cords ensure uninterrupted connectivity throughout the

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apartment. The setup is adaptable to future needs, with provisions for additional devices and integrations.

### Audio and Entertainment

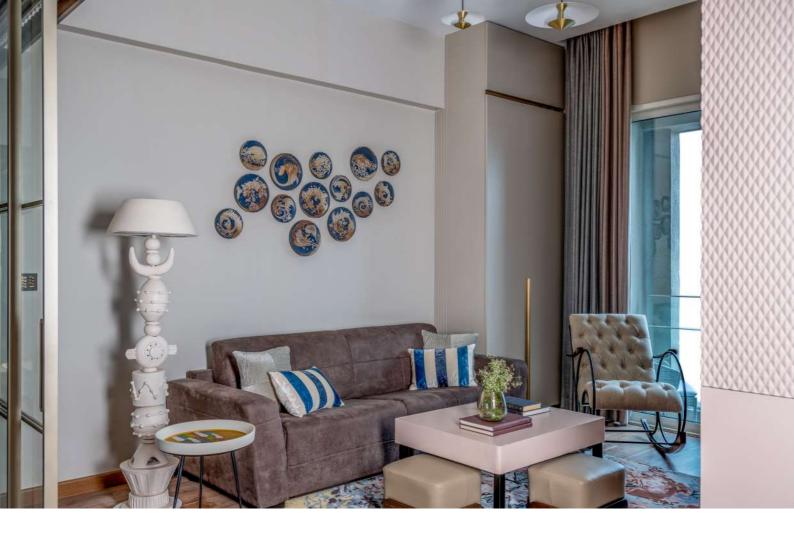
High-end speakers by B&O Soundstage deliver exceptional sound throughout the space. Whether for casual listening or an immersive home entertainment experience, the system integrates flawlessly with home automation for easy control via the app.

### Scalable System Design

The integration system has been designed to grow with the home. Future expansions, such as adding more AV devices or integrating additional curtain motors, are easily supported thanks to the pre-wiring done during the initial setup. The use of the DALI lighting system further ensures that any new lights added to the space can be easily integrated into the existing setup.

Overall, this apartment exemplifies the perfect balance between tradition and technology. It's a space that honors the Indian ethos while embracing modern smart home innovations that provide unmatched convenience, security, and personalization. From customized lighting scenes to intuitive security systems, every detail of the apartment has been carefully designed to ensure that it is not only a home but a sanctuary – a place where technology and tradition seamlessly coexist, providing a luxurious yet functional living experience.

Photos by: Kuber Shah; Stylist: Shreya Bhimani





### **PROJECT DETAILS:**

Architect/Interior Designer: Studio Osmosis, Shilpa Jain Balvally & Sameer Balvally

Systems Integrator: SABR Controls

Lighting: KNX and Control4

Security Cameras: IP CCTV systems

Digital Locks: Yale

**Speakers:** B&O Soundstage

**Biometrics:** Integrated Security Solutions

**Networking Devices:** Senao Access Points, Netgear Routers, Honeywell Patch Cords

# "Sustainability is Core to Our Design Philosophy, Shaping our Selection of Smart Technologies."

Ar. Rhea and Truptesh Sawant share a deep passion for crafting transformative spaces that blend beauty with functionality. Their projects are a harmonious fusion of aesthetics with a strong emphasis on integrating smart technology. By utilizing advanced automation, sustainable tech, and intelligent systems, they ensure each space is not only visually stunning but also highly functional, intuitive, and prepared for the future.





### Tell us about your experience of using Automation, Smart Lighting, Smart Technology, and Home Theatres in your project.

In our recent projects, we've found that integrating automation and smart technology significantly enhances the user experience. For example, in a contemporary home we designed and implemented a smart lighting system that adjusts to the homeowner's routines, ensuring that spaces feel inviting at any time of day. By creating scenes for different activities—like relaxing, entertaining, or working—we can effortlessly set the mood. Additionally, the home theatre setup included smart blinds that close automatically when it's time for a movie, and surround sound that adjusts based on the room layout. This level of integration creates a seamless transition between daily life and entertainment. making the home feel more responsive to its inhabitants.

### What unique advantages do you believe

# smart lighting brings to interior spaces, both in terms of functionally and aesthetically?

In our latest project, we incorporated smart lighting to provide unique advantages that elevated both functionality and aesthetics. The customizable system enabled homeowners to tailor their lighting environments, switching from bright, focused light for work to warm, inviting tones for evenings. Energy efficiency was a key focus, with features like motion sensors that minimized waste. We also strategically highlighted architectural details with smart fixtures, creating visual interest while preserving a clean, modern look. This thoughtful integration of smart lighting not only enhanced the usability of the space but also enriched its overall aesthetic, making it a truly dynamic environment.

### Could you share a standout project where you successfully incorporated smart lighting and automation? What challenges did you face, and how were they overcome?

One memorable project was a modern home where we integrated smart lighting. The biggest challenge was getting the new system to sync with their existing tech, which was a bit tricky at first. We collaborated with the tech team to troubleshoot the compatibility issues and adjustments. To ensure the homeowners felt comfortable, I simplified the controls and set up a user-friendly app for them. In the end, they were thrilled with how the smart lighting transformed their home, allowing for customizable moods and improved energy efficiency. It was rewarding to see their excitement!

# Which Home Automation brand do you prefer, and what specific features make them essential to your designs?

We prefer Robohomes for their commitment to energy efficiency and sustainability. Their automation solutions provide features like smart scheduling and energy monitoring, which help homeowners reduce their carbon footprint while enjoying enhanced comfort. This focus on eco-friendly technology compliments our design philosophy, making Robohomes a preferred choice for my projects.



Smartify is another brand we frequently use in our projects due to its innovative approach to home automation. Their platform offers robust features, such as scene creation and remote access, which enable homeowners to tailor their lighting and appliances to fit their lifestyle. The easy integration with various smart devices ensures a cohesive experience, making Smartify a vital component of my design strategy.

### When it comes to Smart Lighting and Controls brands which brands do you prefer for your projects?

We prefer Hybec Lights for our projects due to their innovative approach to smart lighting. Their fixtures offer customizable color options and brightness levels, allowing homeowners to create the perfect ambiance for any occasion. Additionally, Hybec Lights integrates seamlessly with smart home systems, making it easy to control lighting remotely and set schedules for energy efficiency.

# Can you discuss the importance of collaborating with technology integrators? How do you ensure a cohesive partnership during a project?

The importance of collaborating with technology integrators cannot be overstated, especially as smart home solutions become increasingly complex. Their expertise allows for the seamless integration of technology into my designs, ensuring that everything from lighting to security systems functions harmoniously. To foster a cohesive partnership, we focus on establishing clear roles and responsibilities at the start of the project. Open lines of communication are crucial, so we schedule regular check-ins to discuss progress and troubleshoot any challenges. This collaborative approach not only enhances the project outcome but also ensures that the final design meets both aesthetic and functional needs.

# In what ways do sustainability considerations influence your choices in smart technologies and materials?

Sustainability is a fundamental aspect of our design philosophy, significantly influencing our choices in smart technologies and materials. We prioritize energy-efficient solutions, such as smart lighting systems that utilize LED technology, which not only reduces energy consumption but also lowers utility bills. Additionally, we look for materials that are sustainably sourced and have a low environmental impact, such as reclaimed wood or recycled metal. By integrating these sustainable practices, we strive to create spaces that are both functional and environmentally responsible.

### Are there any innovative concepts or technologies in Home Theatres that you find particularly exciting? And want to incorporate in your projects?

One innovative concept that excites us is the integration of smart home technology in home theatres. Voice-activated controls and app-based management allow for seamless adjustments to lighting, sound, and screen settings. We are also keen on high-resolution





projectors with ultra-short throw capabilities, which deliver stunning images without requiring extensive space. These innovations not only enhance functionality but also offer creative design possibilities in various spaces.

If you feel we have missed out on any important aspect, tell us about your forthcoming projects where you have been incorporating Smart Automation, Smart Lighting, and Smart Technology.?

We have several forthcoming projects where we are integrating smart automation and smart lighting to create innovative spaces. In one luxury apartment, we'll implement a smart lighting system that allows for customizable scenes, enhancing the ambiance for different occasions. Homeowners will also benefit from automated climate control and security features that can be managed remotely. Another project features a dedicated home theatre equipped with the latest smart technology, including high-resolution displays and immersive sound systems, all controllable via voice commands or mobile apps.

## "Z-Wave's Interoperability and Backward Compatibility Ensure Long-Term Investment Protection for Consumers and Integrators."



# Avi Rosenthal

Chairman, Z-Wave Alliance

Avi Rosenthal, Chairman, Z-Wave Alliance, shares insights into the exciting developments and future direction of Z-Wave Allinaces. The Chairman also highlights how Open Source Working Group has played a key role in driving significant advancements, further solidifying Z-Wave's status as a leading smart home standard.

Z-Wave now supports over 4,500 devices in its ecosystem. Can you share some insights into how this rapid growth has been achieved?

Product certification has been a fundamental pillar of Z-Wave technology for over two decades, ensuring interoperability, reliability, and innovation across the ecosystem. The Z-Wave Alliance certification program is a driving force behind the sustained growth of Z-Wave, evolving alongside the technology itself. Over the past year, the Alliance's Open Source working group has been at the forefront of some major advancements, reinforcing Z-Wave's position as a leading smart home standard.

At the start of February, the Alliance introduced the 2024B specification package, a critical update that enhances the certification process, introduces new and updated Z-Wave command classes, unlocks exciting tools for developers, and serves as the global in-force specification for Z-Wave. This means all new Z-Wave devices under development now benefit from the latest enhancements, further ensuring forward and backward compatibility across the ecosystem. The strength of the Z-Wave certification program is what makes this growth possible. Every certified device carries the assurance of seamless interoperability, allowing Z-Wave and Z-Wave Long Range (ZWLR) to coexist on the same network. From the beginning, Z-Wave has upheld this core principle: no Z-Wave device left behind.

Tell us about the latest certified Z-Wave and ZWLR devices that are designed to centralize the control and interface of smart devices.

At CES 2025, the Z-Wave Alliance released a



list of the latest certified Z-Wave and Z-Wave Long Range (ZWLR) smart home devices. We chose to focus our CES announcement on recently certified hubs, controllers and gateways as those particular devices act as a critical, central component for Z-Wave based smart home systems. The hub, gateway, or controller is the device through which all other deployed devices are connected, and we wanted to call attention to some of the most recently certified options.

Among these, the 2GIG Edge Security Panel integrates AI-powered facial recognition, a sleek touchscreen, and robust encryption to offer a secure and intuitive smart home control hub. The ADT Base provides centralized management of Z-Wave and ZWLR devices, ensuring seamless integration with the ADT+ ecosystem for remote access and automation.

The Climax HSGW Gen2 Security Panel, certified on the Z-Wave 700 series, enhances wireless communication, security, and energy efficiency for home protection and automation. Control4 CORE 3 and CORE 5 home controllers introduce Z-Wave connectivity to the brand's ecosystem, automation enabling secure communication with lighting, security, and entertainment systems. The RISCO RisControlZW100 Touchscreen Kevpad combines an 8-inch touchscreen with Z-Wave 700 certification, allowing homeowners to manage alarms, smart devices, and live video feeds from a single interface.

For property-wide smart home management, the SmartRent Alloy SmartHome Hub+ consolidates a smart thermostat and hub into one device, supporting automation and remote monitoring for rental properties. The SmartRent Alloy Fusion Hub, designed for MDUs, integrates ZWLR (pending certification) for extended-range device control, enabling connectivity across storage units, garages, and utility rooms. The TELUS Boost IoT 2.5 merges tri-band Wi-Fi 6 with Z-Wave, ZWLR, and BLE to deliver seamless whole-home connectivity. Lastly, the Universal Devices ZMatter USB Stick supports Z-Wave, ZWLR, Zigbee, and Matter protocols, future-proofing smart home systems with broad compatibility and secure communication.

### How does ZWLR technology extend the reach of smart home networks and enhance connectivity across large properties or environments with multiple buildings?

ZWLR extends smart home networks by eliminating the need for repeaters and increasing the maximum wireless transmission range to 1.5 miles in long-range mode at full power. This allows Z-Wave devices to communicate reliably across large properties and multiple buildings without requiring complex network infrastructure.

By supporting a higher number of end nodes (up to 4,000 on a single network), ZWLR improves scalability and simplifies deployment in environments such as multi-dwelling units (MDUs), hospitality, and commercial installations. A dual network approach, combining tradition Z-Wave (mesh) with a star topology (ZWLR), ensures reliable connectivity while optimizing battery life – even for devices operating off a coin-cell batteries. Featuring streamlined routing and enhanced security, ZWLR enables the seamless integration of smart home devices across even greater distances all while maintaining interoperability within the Z-Wave ecosystem.

# Tell us about the latest innovations you showcased at CES 2025?

CES 2025 was a monumental success for the Z-Wave Alliance. At the show, the Z-Wave Alliance ballroom (Titian 2202) served as a central hub for innovation, collaboration,



and industry insights, featuring a mix of expert-led panels and groundbreaking Z-Wave technology showcases from Alliance members. This dedicated space highlighted the latest advancements in Z-Wave, including Z-Wave Long Range (ZWLR), smart security solutions, and cutting-edge IoT developments.

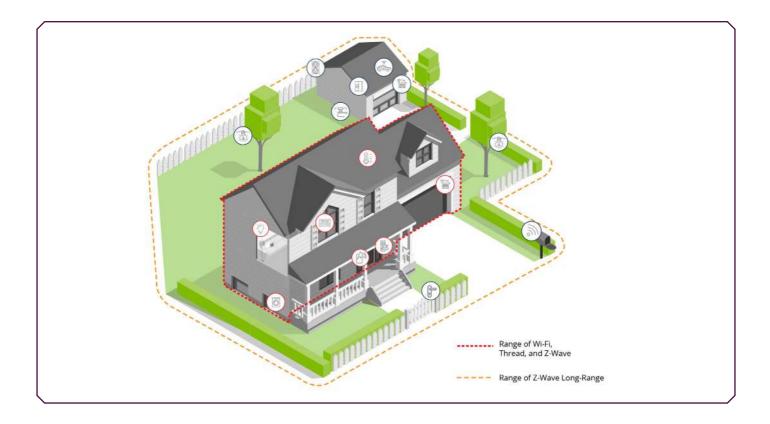
The ballroom hosted tabletop exhibits from leading Z-Wave Alliance members, including Alfred International, Silicon Labs, Siterwell, SmartRent, Trident IoT, and Vision Electronics, each demonstrating their latest devices, technologies, or offerings. Attendees explored innovations such as Alfred's latest Z-Wave smart locks, Silicon Labs' Z-Wave 800 SoCs and ZWLR demonstration, SmartRent's property automation solutions, the latest offerings from Siterwell and Vision Electronics, and Trident IoT's new semiconductors and software development tools.

In addition to product showcases, the Z-Wave Alliance hosted a three-part Fireside Chat series, featuring expert discussions on Z-Wave Long Range's potential, the role of interoperability in smart home security, and key insights into IoT manufacturing trends in 2025. Each session, sponsored by key industry leaders like Silicon Labs, ADT, and Seacomp, provided invaluable insights for attendees and was followed by a networking reception to foster industry connection.

The Z-Wave Alliance ballroom at CES 2025 was a dynamic showcase of the latest Z-Wavecertified innovations, reinforcing Z-Wave's leadership in smart home, multi-dwelling unit (MDU), and commercial IoT applications.

### Can you talk about the significance of forward and backward compatibility in the Z-Wave ecosystem?

Forward and backward compatibility has been a cornerstone of the Z-Wave ecosystem since day one, ensuring every certified devices - regardless of when it was introduced, manufacturer, or silicon provider - can operate seamlessly within a Z-Wave network. It has been this commitment to interoperability that means homeowners, integrators, and manufacturers can confidently invest in Z-Wave technology without fear or obsolescence. With a track record spanning over two decades of proven technology, the Z-Wave Alliance is in the business of providing smart products and services that work today, and with our steadfast commitment to forward and backwards compatibility, we know Z-Wave devices will work well tomorrow as well.



Unlike other smart home protocols that may leave older devices behind as new versions or updates are introduced, Z-Wave ensure longterm support by enabling the co-existence of legacy devices alongside the latest innovations. Whether it's a first-generation Z-Wave sensor or a newly certified ZWLR device, all Z-Wave products communicate effortlessly within the same network. With over 4,500 certified Z-Wave devices on the market today, forward and backward compatibility is what keeps the ecosystem strong, scalable, and future ready – ensuring that no Z-Wave device is left behind.

### What are some of the key trends in smart home technology that you believe will shape the future of Z-Wave and the broader smart home industry?

Perhaps one of the most exciting trends shaping the future of Z-Wave and the broader smart home industry is the development of batteryless, energy-harvesting devices. The Z-Wave Alliance is actively investigating and researching making core software modifications to support devices that generate their own power through kinetic energy harvesting. For example, think of a Z-Wave enabled door lock, sensor, or switch that could operate entirely without batteries, powered

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solely by the movement of the device itself. Unlike other RF technologies that compromise on range or bandwidth when it comes to making this possible, these innovations would maintain full-stack, full-range functionality across both Z-Wave Classic (mesh) and Z-Wave Long Range (ZWLR). This breakthrough marks a major leap forward in sustainability, reliability, and maintenance-free smart home solutions. Can we expect any exciting new innovations or devices from the Z-Wave Alliance in the near future?

Yes, you can! As of date of publishing, the Z-Wave Alliance will have formally announced the release of the 2024B specification package and an exciting new Accelerator Membership level. Both of these initiatives reflect the Alliance's continued commitment to advancing core tenants such as interoperability, enhancing security, and further fostering innovation with the Z-Wave ecosystem.

The 2024B Z-Wave Specification Package introduces key updates that significantly enhance the Z-Wave Certification program, introduces new and updated Z-Wave Command Classes, and unlocks exciting new tools for developers. These updates to the overall Z-Wave Specification have been implemented

# THE HISTORY OF

## (2025)

#### January:

Z-Wave and Z-Wave Long Range have a combined total of more than 4500 certified devices in the global market representing more than 100 million smart homes.



2021

2018

2016

Z-Wave chip developer Silicon Labs announces Z-Wave 800 system-on-chips

(SoCs) and modules with a 50% battery life improvement over Z-Wave 700 series

#### August:

Trident IoT launches as a direct supplier of Z-Wave silicon chips and modules and offers product design and development services from its U.S.-based Z-Wave device certification laboratory.

December:

models

May: Z-Wave Alliance announces new membership tiers to broaden the organization's reach, foster innovation, and add new opportunities for membership involvement that support the continued growth and expansion of the Z-Wave Alliance.

# 2024

February: Z-Wave Alliance announces release of ZWLR specification for the European market.

#### May:

Z-Wave Alliance announces that the Z-Wave protocol security framework meets, and in some cases exceeds, the regulations and requirements set forth by the U.S. Cyber Trust Mark.

#### May:

The ZWLR product ecosystem achieves 65 certified devices.

- 2022

#### March: Ecolink becomes the first brand to complete a ZWLR

Ecolink becomes the first brand to complete a ZWLR certification for the Ecolink 700 Series Garage Door Controller.

June: The Z-Wave product ecosystem surpasses 4,000 certified devices.



#### September: 7-Wave Alliance annou

Z-Wave Alliance announces the Z-Wave Long Range (ZWLR) **PLUS LR** specification that offers 4x the wireless range, 10x the node scalability, a 10-year coin cell battery life, and maintains Z-Wave backward compatibility and interoperability.

# (2017)

Developed in conjunction with cybersecurity hacking experts, Z-Wave S2 Security mandate goes into effect for all products certified after this date.

2015 Z-Wave Labs, a startup competition designed to foster innovation using Z-Wave technology is launched.

\_\_\_\_\_**2008** 

- 2003 The first commercialized Z-Wave chipset (100 Series) is released.

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The Z-Wave Source Code Project opens development of

Z-Wave and enables members to contribute code to shape the future of the protocol.

Z-Wave Alliance releases the 2024A Specification Package and a new

Z-Wave Reference Design to help developers create Z-Wave products

A leading market research firm reports the Z-Wave Products Market

will soar to an anticipated \$26.65 billion by 2030. Growing at a

steadfast CAGR of 13.25%, this market is being closely watched by

with enhanced range capabilities using ZWLR.

industry players and investors alike."

October:

December:

#### August:

Z-Wave Alliance restructures as a standards development organization (SDO) with Alarm.com, Assa Abloy, Leedarson, Ring, Silicon Labs, StratIS, and Qolsys as founding members.

Silicon Labs acquires Z-Wave

Z-Wave Alliance launches the award-winning Z-Wave Certified Installer Toolkit (CIT), a device used to set up, diagnose and repair any Z-Wave network, making smart home installation that much ensier

Z-Wave Alliance hosts Z-Wave Summit Europe, the first worldwide member gathering in Copenhagen, the former home of R&D for Z-Wave.

Z-Wave 700 Series launches as the next generation of

Z-Wave technology, enabling developers to create new

at a lower cost and faster time-to-market.

classes of smaller, more intelligent smart home products



The Z-Wave 500 Series, or Z-Wave Plus, is released with four times the memory, improved wireless range and improved battery life and includes new certification requirements.

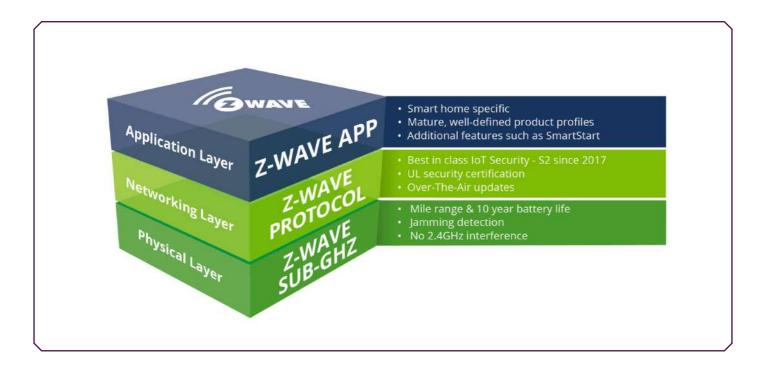
with Z-Wave inside

Several manufacturers, including Danfoss, Ingersoll-Rand and Leviton Manufacturing came together with Zensys to form Z-Wave Alliance. At this time, only six products on the market existed

2005



\*Source: Research and Markets. Global Z-Wave Products Market by Device (Controllers, Energy Meters, HVAC), Component (Hardware, Software), Application – Forecast 2024-2030.



to ensure improved functionality, regulatory compliance, and provide a seamless path forward for developers and manufacturers. Given we have discussed the certification program at length, I can share that the already robust Z-Wave certification process has been further elevated through the adoption of the latest Compliance Test Tool (CTT) version 3.9.1. The latest version further ensures rigorous validation of device performance and includes SmartStart, S2, and Z-Wave Long Range (ZWLR) support.

In addition to these technical advancements, the new Accelerator Membership Level has also been made available to empower startups and young companies by providing them with affordable access to Z-Wave Alliance resources and working groups. With a tiered membership structure, early-stage companies can integrate into the Z-Wave ecosystem while benefiting from discounted fees and collaborative industry support. This initiative the Alliance's commitment underscores to fostering innovation and ensuring that emerging IoT companies have the tools and guidance needed to bring cutting-edge smart home solutions to the market.

With the growing demand for smart home technology in India, how do you see Z-Wave's presence evolving in this region? Are there any unique challenges or opportunities

# when it comes to introducing Z-Wave devices to Indian consumers?

As demand for smart home technology grows in any region, especially India, Z-Wave is already well position to expand it presence by offering secure, scalable, and energy-efficient solutions that meet the region's evolving needs. For example, the start of the global expansion of ZWLR presents a unique opportunity to support large residential compounds, multidwelling units (MDUs), and commercial installations - all of which are key growth areas in India's smart home market. Presently, large metropolitan cities like Delhi, Mumbai, Bengaluru, and Hyderabad are leading the adoption of smart home technologies due, in part, to higher disposable incomes, greater digital infrastructure, and a tech-savvy population.

When it comes to Z-Wave, one of the major advantages of the technology is its interoperability and backward compatibility, ensuring long-term investment protection for consumers and integrators. However, regulatory considerations, spectrum allocation, and consumer awareness remain key challenges. The Z-Wave Alliance is actively working with its global members to navigate these factors, fostering industry collaboration and driving adoption in the rapidly expanding loT landscape.



### ISE 2025 Breaks Records with Unmatched Attendance and Innovation

ISE 2025 showcased exciting product launches, live demos, and engaging sessions. Read on to know more...

Integrated Systems Europe (ISE) 2025 has concluded with a resounding success, setting new milestones in both attendance and exhibitor participation. The event, one of the most anticipated expos, saw a total of 1,605 exhibitors and occupied 92,000 square meters of show floor space, marking its largest edition to date. The event also drew 85,351 visitors from 168 countries, reflecting a 15.5 percent increase in attendance compared to the previous year. Mike Blackman, Managing Director, Integrated Systems Events, was quoted saying, "ISE 2025 has surpassed all expectations, setting new milestones in both attendance and innovation. The energy and engagement from our attendees and exhibitors have been truly remarkable. From the dynamic show floor and impactful exhibitor showcases to a content-rich programme, this year's edition

has delivered an unmatched experience. We are excited to build on this success and look forward to welcoming everyone back for another inspiring edition in 2026."

One of the standout features of ISE 2025 was the opening of Hall 8.1, which was hailed as a success, embodying the event's forwardlooking spirit. It showcased a dynamic mix of industry leaders and innovative newcomers. Notable highlights included the Esports Arena, where gaming competitions and advancements in esports and broadcasting technology took center stage. The Robotics and Drone Arena captivated visitors with live demonstrations of rapidly evolving technology. Additionally, the Discovery Zone provided emerging companies a platform to introduce their latest products, while the AVIXA TV



Studio added an interactive dimension with live broadcasts and expert interviews.

The content programme also achieved significant success, with new Track sessions on industry megatrends, curated jointly by AVIXA, CEDIA, and ISE, drawing substantial interest. Conference sessions set new attendance records, highlighting the growing demand for expert insights and valuable networking opportunities.

Two keynote sessions featuring Brian Solis and Quayola were among the most anticipated events, drawing full-capacity crowds and leaving attendees standing. AVIXA President & CEO David Labuskes remarked, "This week was a living example of connections restored. This is what drives our industry forward – professionals coming together to learn from each other and experience the latest innovations. ISE goes by in days, but the impact is immeasurable."

Daryl Friedman, Global President & CEO, CEDIA, echoed this sentiment, emphasizing the importance of the event for the smart home technology industry. "ISE is always a highlight of the year for CEDIA and myself. One of my greatest takeaways was the opportunity to connect with our global membership at the CEDIA Annual Meeting, where we celebrated our collective achievements and discussed the future of our industry," said Friedman. "It was inspiring to meet face-to-face with integrators and manufacturers from around the world, reinforcing the strength and reach of our community."

### Some of the Brand highlights from the ISE 2025

### Lutron

Lutron introduced new lighting control solutions, including the Vierti Keypad, an EU-exclusive with hand-finished brass faceplates. It blends craftsmanship with smart home integration, offering hybrid load control for easy upgrades. Utilising Lutron's Clear Connect RF wireless technology, the keypad manages lighting, window treatments, and other smart components. Its hybrid design enhances wall aesthetics while using existing wiring, functioning as both a system and load controller.



The brand also showcased the Lumaris RGB + Tunable White Tape Light, Lutron's first international intelligent light source. With a modular design, it's compatible with RadioRA 3 and HomeWorks for versatile accent lighting. The demo showcased Lutron's vision of reconnecting people with natural light, featuring intelligent blinds and LED lighting that mimics incandescent warmth. Lutron's systems automatically adjust to the sun's position, optimizing natural light and supplementing it with artificial light when necessary.

### Snap One

Snap One teamed up with ADI to showcase its latest innovations, focusing on the new Control4 X4 platform. The X4 is designed to offer significant upgrades in whole-home control, including a redesigned home screen, customizable widgets, Apple HomeKit and Apple Music integration, and enhanced automation features like routines for different



times of the day. The platform also supports AirPlay 2 via the Triad SAI Streaming Amplifier. Other key products highlighted included the Control4 DS3 Doorstation Camera with 4K video for clear security, Triad In-Wall and In-Ceiling Speakers with versatile placement options, and the Episode Surroundscape Series for outdoor audio. The Lux by Control4 line introduced customizable keypads, dimmers, and switches, while the new Luma 4K Hybrid Cameras featured AI-driven analytics and advanced surveillance capabilities.

### Savant

Savant, known for its close integration with Apple, showcased exciting updates to its system, including enhanced Siri and HomeKit features. Ian Roberts, VP, Product Marketing, Savant demonstrated how users can create advanced automation using Siri, Apple Shortcuts, and proximity-based triggers like Wi-Fi connections or NFC tags. The company also highlighted its GE Proseo line of shades, which offer quick and efficient installation with both wired and wireless options, and over 600 fabric choices. Roberts even installed three shades in just 13 minutes at the Fire de Barcelona Gran Via, showcasing the ease of installation.

### Crestron

Crestron showcased its latest innovations focusing on its Crestron Home OS, including



the newly released 4.4 version with advanced conditionallogicformorecomplexautomation. Users can create customized sequences, like adjusting lights when a sensor falls below a certain level or dimming lights, and closing blinds when streaming a movie.

A highlight of the booth was a demonstration with Opale, a mirror TV manufacturer, displaying the Crestron Home interface on a smart mirror TV. This new integration allows users to access the Crestron Home interface and even watch TV on the mirror.

Other key features included a new Tesla driver for automating car functions, like warming up the car before a commute. Crestron also introduced the DGE-1000 engine, enabling the Crestron Home interface on larger thirdparty screens.

### Nice

Nice displayed its redesigned interface and newtouchpanels, offering more than just home control. According to Paul Williams, Managing Director of Nice's Home Management



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Business, the system integrates gate controls, doorbell cameras, garage doors, and the Nice OS home management platform, providing comprehensive solutions for homeowners. For the premium market, Nice introduced the Nice OS 8.9 platform, featuring intuitive voice control, integration with Sonos' new search API, a new map view, and a personalization feature that uses facial recognition to customize the interface for individual users. This feature also allows homeowners to restrict access to certain systems. Other highlights included the Premium Toolless Speakers, offering impressive sound and easy installation, and the latest Gefen Gen 3 AVoIP products for distributing 4K UltraHD content across professional and home environments.

### RTI

RTI's standout product was its Intelligence Surfaces line of touch panels and remotes, crafted with premium materials and featuring narrow bezels and low profiles. The IST-10 and IST-5 touchpanels offer capacitive-touch screens with high resolution, dual speakers, far-field microphones, and video streaming in h.264/h.265 formats. They also provide proximity and ambient light sensors, ensuring



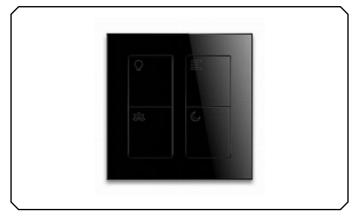
easy viewing and quick wake-up. The touch panels can mount in portrait or landscape mode, while the Intelligent Surfaces remotes offer customizable buttons and a "find my remote" feature. RTI also introduced the In-Wall PoE Keypad with customizable engraving and 16 backlight color options, alongside Integration Designer 11, which includes an integrated driver store.

RTI also highlighted its collaboration with 2N on an RTI-branded intelligent door station,

featuring a full HD, 156-degree camera and intercom, set to launch this quarter. The 2N, meanwhile, showcased its expansive lineup of access control, doorbell, and intercom solutions for various markets. Notably, 2N's systems integrate with Kone, allowing residents to call an elevator via a 2N unit, which then dispatches the elevator based on user credentials. 2N's solutions are compatible with over 300 platforms, including Crestron, RTI, Savant, and Control4, along with Microsoft Teams for commercial intercom functionality.

### **Black Nova**

Black Nova showcased the Alba collection, which includes two main families: Alba Metal and Alba Glass. The Alba Metal collection features aluminum finishes, which can also be paired with glass. Available button configurations range from two to eight buttons. The Alba Glass collection offers multiple frame finishes, including a new polymer finish. Additionally, the Alba Marble family introduces a variety of stone and marble finishes for even more customization.



Also highlighted at ISE 2025 was the company's Black Jack collection, which features new wide buttons in oval and rectangle, up to two icons, backlit text, and brass, aluminum or polymer finishes.

### Absen

Absen's mesmerising digital art installation featured the work of a renowned artist. This installation leveraged the company's state-ofthe-art LED display technology to bring art to life in a truly immersive way. For the modern workplace, Absen in collaboration with Yealink and Crestron, introduced its 136" all-in-one X Series 4K display as a comprehensive solution for modern workplaces.

On display for the retail sector, is Absen's CPS Series which can transform any space with its stunning visual clarity, and innovative design that offers seamless installation. The cuttingedge CPS Series displays (in collaboration with IRF Solutions) shows how bus stations can be transformed into dynamic hubs of information and entertainment and deliver captivating



content that keeps passengers informed, engaged and excited.

For demanding control room environments, the KLCOB0.9 V2 product (on display in collaboration with Datapath) showcases how advanced control room solutions can enhance operational efficiency and decision-making.

### BluOS

BluOS, the leading hi-res multi-room audio ecosystem, has unveiled a series of important driver updates designed to enhance the experience for residential and commercial integrators. These updates were showcased at the Lenbrook Hi-Res Audio Solutions stand, that will power interactive multi-zone



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demonstrations for industry leaders including NAD Electronics, PSB Speakers, Bluesound, and Bluesound Professional.

As part of these enhancements, BluOS has introduced new features tailored to the needs of integrators working with various automation systems.

### Focal

Focal introduced their revolutionary Utopia Cinema range, designed to elevate private cinema rooms with unmatched sound precision and immersive audio. The range featured two key components: the Cinema LCR, a high-performance three-way loudspeaker, and the Cinema SUB subwoofer, providing a comprehensive solution for custom systems in spaces up to 2153 sq ft.



The Cinema LCR loudspeaker impressed attendees with its high SPL capacity and precision across treble, midrange, and bass frequencies. Equipped with advanced technologies like TMD (Tuned Mass Damper) and a 5" M-shaped midrange transducer, the LCR ensures exceptional dynamic range and transparency. Its M-shaped beryllium tweeter offers precise transient response, while the 13" 'W'-cone woofer delivers exceptional articulation and definition, creating an unparalleled listening experience.

The Cinema SUB subwoofer, with dual 13" woofers tuned to 19Hz, provides deep, distortion-free bass. Its large front laminar

port minimizes distortion while maximizing sound pressure, delivering powerful low-end impact for even the most spacious cinema environments.

Both the Cinema LCR and Cinema SUB offer versatile installation options, allowing them to be fixed onto or into the wall, and positioned horizontally or vertically, providing unlimited modular configurations to suit any space. These loudspeakers can also be integrated with Focal's 1000 Series for further customization.

The Utopia Cinema range sets a new benchmark for high-end audio integration, combining exceptional sound immersion, precision, and low-frequency impact. Focal's continued innovation in the ultra-high-end integration market promises to redefine the home cinema experience.

### Meridian

Meridian Audio made a strong impression at ISE 2025 in Barcelona, showcasing its commitment to high-performance audio solutions and seamless integration. Located at Stand 2J400 at Fira de Barcelona, Gran Via, Meridian demonstrated how its innovative products and services are enhancing Custom Integration (CI) projects and driving business growth.



A standout feature was the Ellipse Streaming Speaker, a compact yet luxurious audio solution with twelve unique DSP technologies. The Ellipse offers easy out-of-the-box playability, multiple control options via the Meridian Control app, and effortless integration with top streaming platforms, providing unparalleled versatility for both standalone and smart home installations. Meridian also showcased its high-performance Architectural Loudspeakers, including the DSP750 and DSP730 from the Reference Series, and the DSP520.2 and DSP640.2 from the Performance Series. These speakers, designed for seamless integration into any environment, offer immersive sound with features like Full Frequency Alignment (FFA) and Image Elevation, making installation guick and easy.

Real-world installation case studies were also presented, demonstrating Meridian's expertise in delivering premium audio solutions for diverse applications. The bespoke Design & Specification Service, including the Meridian Select program with custom loudspeaker color options, highlighted the company's focus on personalized solutions.

Jeremy Brown, International Sales Manager at Meridian, emphasized the company's dedication to supporting partners: "At ISE, we're excited to showcase why Meridian remains a leader in high-performance audio, offering not only premium products but also bespoke services and tools to create transformative audio experiences."

Meridian invites attendees to explore its innovative solutions at Stand 2J400. Visitors can register for a free invitation with the code: M88R1MQ3.

### Sonos

Sonos made its largest and most immersive presence to date, showcasing cutting-edge solutions for both commercial and residential audio applications. Located at booth 2F800, Sonos highlighted its latest innovations and engaged visitors with live training sessions, reaffirming its commitment to delivering exceptional sound experiences across diverse spaces.

Key product highlights included the Era 100 Pro, a professional-grade speaker designed for light-commercial and residential markets. With Power over Ethernet (PoE) for easy installation and various mounting options, the Era 100 Pro was displayed in a dedicated commercial space and a speakeasy room, demonstrating its zone functionality for larger installations.

Another standout was the Arc Ultra soundbar, offering a 9.1.4 Dolby Atmos experience with Sonos' new Sound Motion™ technology. The Arc Ultra, paired with Era 300 speakers and Sub 4 subwoofers, created an immersive



home theater setup, with a visual showcase of its proprietary technology.

Sonos also introduced its updated search API, improving compatibility with thirdparty control systems and offering seamless integrations, demonstrated on the Sonos partnerships wall.

The Sonos booth, spanning 12 distinct areas, featured dedicated zones for commercial, architectural, and home theater audio. Highlights included an architectural audio zone with Sonos and Sonance solutions, as well as the Sonos Ace headphones listening bar and additional demo rooms.

Throughout the event, Sonos hosted live training sessions, led by its global training team. Topics ranged from the Era 100 Pro and

Arc Ultra & Sub 4 to Sonos networking and partnerships, providing valuable insights for professional installers.

Sonos' presence at ISE 2025 highlighted its commitment to innovation and partnership, setting the stage for continued growth in the audio industry.

### SIM2

One of the highlights was the exclusive world premiere of the SIM2 ULTRANERO4 at ISE 2025! The launch witnessed the unveiling of this groundbreaking projector, crafted for large home cinemas, high-end gaming setups, and medium-sized public venues where unmatched image quality is essential. Built on a cutting-edge laser-based platform, this projector delivered up to 7,000 lumens of brightness, ensuring exceptional clarity in any environment.



With over 30 years of industry expertise, SIM2 has designed the ULTRANERO 4 to offer remarkable colour accuracy, efficiency, and durability through its innovative ceramic components. The projector's advanced lens achieves over 95% uniformity across the screen, while its HDR capabilities elevate the viewing experience with vivid, dynamic visuals.

Designed with flexibility in mind, the motorized lens shift, zoom, and focus, along with Perfect Fit memory options, allow for seamless adjustments to suit any installation setup. Thanks to its hybrid laser light source, combining color and ceramic phosphor wheels, the ULTRANERO 4 boasts an impressive 20,000 hours of light source life. Despite its powerful performance, the

ULTRANERO 4 operates quietly with acoustic noise levels under 30 dBA. Multiple installation options and versatile connectivity, including HDMI, USB, and HDBase-T, make it adaptable for any space.

Compact yet powerful, the ULTRANERO 4 is packaged with anti-shock filling for safe transport and installation. Experience premium projection performance with the SIM2 ULTRANERO 4 – your perfect solution for any demanding space.

### **Theory Audio Design**

Theory Audio Design, co-exhibiting with Jupiter Systems, made its official debut at stand 3N620, showcasing its high-performance loudspeakers, subwoofers, and loudspeaker controllers. Visitors had the opportunity to experience Theory's innovative audio solutions through a series of live demonstrations scheduled every 30 minutes throughout the event.

Thedemonstrationsrangedfrom2-channeland distributed audio to immersive Dolby Atmos setups, culminating in a preview of Theory's upcoming professional-grade loudspeakers designed for dynamic, sound-reinforcement level audio. Theory's demo emphasized the versatility of its products, demonstrating their ability to deliver exceptional sound quality for a variety of environments—from background music to full-scale immersive audio, both indoors and outdoors.

Using AES67 audio-over-IP digital I/O and Theory's DLC loudspeaker controllers paired with the StormAudio ISP Elite immersive sound processor, the demos highlighted how easily complex audio systems can be set up and deployed without the need for bulky analog cables. The seamless integration of Theory's technology proved that even sophisticated systems can be simple and reliable.

Theory Audio Design's debut at ISE 2025 showcased its commitment to delivering cutting-edge, high-performance audio solutions for a wide range of applications. Sonos made its largest and most immersive presence to date, showcasing cutting-edge solutions for both commercial and residential audio applications. Located at booth 2F800, Sonos highlighted its latest innovations and engaged visitors with live training sessions, reaffirming its commitment to delivering exceptional sound experiences across diverse spaces.

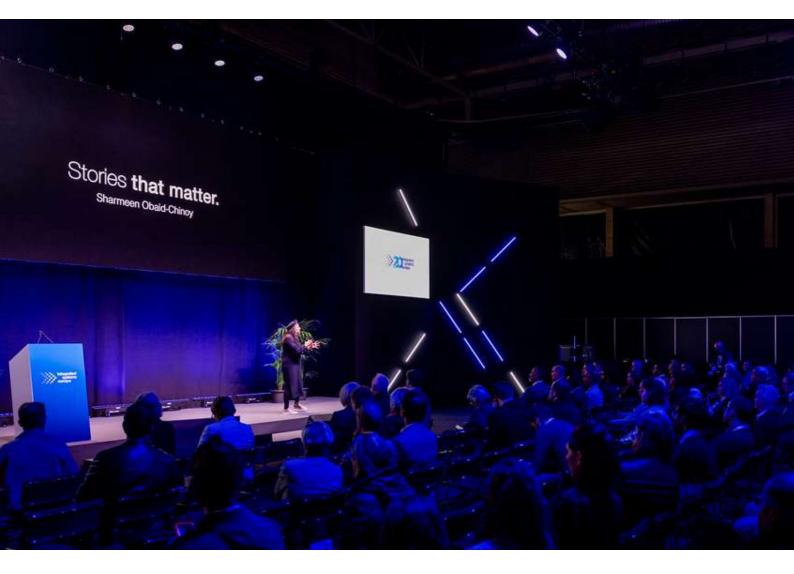
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Another standout was the Arc Ultra soundbar, offering a 9.1.4 Dolby Atmos experience with

Sonos' new Sound Motion<sup>™</sup> technology. The Arc Ultra, paired with Era 300 speakers and Sub 4 subwoofers, created an immersive home theater setup, with a visual showcase of its proprietary technology.

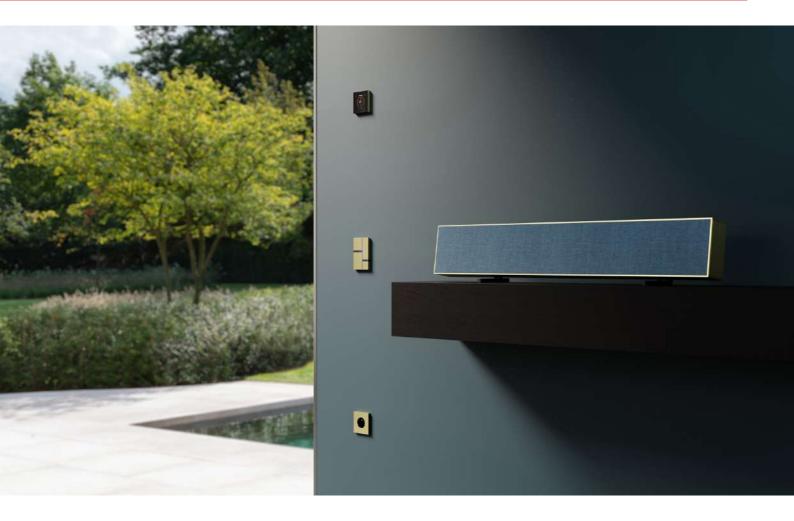
Sonos also introduced its updated search API, improving compatibility with thirdparty control systems and offering seamless integrations, demonstrated on the Sonos partnerships wall.

The Sonos booth, spanning 12 distinct areas, featured dedicated zones for commercial, architectural, and home theater audio. Highlights included an architectural audio zone with Sonos and Sonance solutions, as well as the Sonos Ace headphones listening bar and additional demo rooms.



Overall, ISE 2025 set a new benchmark for the AV and technology sectors, with groundbreaking innovations, inspiring demonstrations, and valuable networking opportunities.

# Smato Technologies: Leading Provider of Automation & Audio Solutions in India





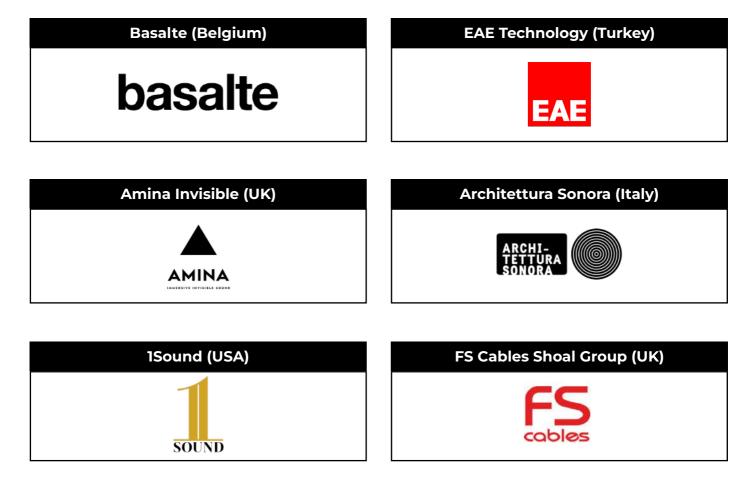
### **Company Insights**

Smato Technologies is a leading pan-India distributor specializing in advanced automation, audio-video, and bespoke technology solutions. As direct importers, we offer a curated selection of premium smart home automation products, home theater systems, and high-end speaker solutions from renowned global manufacturers in Italy, Belgium, the United Kingdom, and the United States.

Our company manages the entire distribution process, from sales and marketing to customer support, ensuring a seamless experience for our clients. With a team of seasoned professionals who bring extensive expertise in the electronics and technology sectors, Smato has built a strong reputation for successful partnerships and dependable service.

At Smato Technologies, we pride ourselves on offering an exclusive brand portfolio that focuses on design-driven, integrated technology solutions. We specifically cater to the premium interior design community, offering products that not only enhance the functionality of a space but also elevate its aesthetic appeal.

Each brand we represent shares a commitment to delivering bespoke, custom solutions that transform any environment. Our technology doesn't just perform — it creates exceptional user experiences that blend seamlessly with sophisticated interiors. With Smato Technologies, every space becomes an expression of innovation, beauty, and cuttingedge technology.





### **Brands Represented**



### **Product categories**

Home Automation, Hotel GRMS solutions, Home Audio Video, Professional Audio, Bespoke range such as Mirror TVs, bathroom TVs, fitness TVs, cables and other accessories

### **Key Projects and Clients**

We have collaborated with some of the largest and most high-profile clients, whose identities we are bound by NDA to keep confidential.

### **Presence across Indian cities**

We have dedicated showrooms in Pune and Kolkata, along with a nationwide presence supported by our sales and technical teams.

### Plans for 2025

We plan to enhance our offerings to dealers by onboarding carefully selected brands that are strategically curated to drive revenue growth and add value for our partners nationwide. Additionally, we aim to expand our presence by opening new showrooms across the country and investing significantly in marketing initiatives, including architect and dealer factory visits and participation in various expos, both directly and indirectly. Our focus is on building strong, strategic partnerships to boost our partners' revenue and elevate our relationships to new heights, rather than saturating the market with additional dealers.

### Insights on the Indian market and target categories

The Indian market for home automation and audio systems is experiencing rapid growth, driven by increasing disposable income, urbanization, technological advancements, and a rising awareness of smart living solutions.

While Tier-1 cities like Mumbai, Delhi, and Hyderabad dominate the market, Tier-2 and Tier-3 cities are emerging as strong growth areas, with increasing aspirations for premium lifestyles. Targeting categories like smart lighting, climate control, security, and premium audio, combined with strategic partnerships and awareness-building initiatives, can help brands tap into this growing demand effectively.

### Contact Details: Shubham@smato.in or Pune@smato.in



# PRO FX: Transforming Spaces with Cutting-Edge Audio, Video and Automation



MANMOHAN GANESH Managing Director, Pro FX

### Company Insights

PRO FX, was founded in the year 2000, in Bangalore. As a premium audio, video and automation company, we are India's leading AV specialists to focus on the requirements of a technology conscious and discerning community. And our focus has always been on bringing world-class audio and video experiences to our customers.

Our core philosophy is to create experiences that delight our customers by providing

top quality products and solutions, as well as personalized care and service to them.

Over the past 25 years, we at PRO FX have worked consistently to stay ahead of the curve when it comes to technology and the evolving standard in audio video and automation.

The PRO FX philosophy - Experience by Design - is the passion that crafts the ultimate ownership experience to keep pace with people's dreams.

### BRANDS

We proudly represent some of the most prestigious brands in the AV industry, including:

DENON	Denon: AV Receivers/ Soundbar/ CD Player/ Turntables						
polk	Polk: Loudspeakers/ In-wall/ In-ceiling/ Subwoofer/ All Weather Speakers						
D. DEFINITIVE TECHNOLOGY	Definitive Technology: Loudspeakers/ Centre Channel/ / In-wall/ In-ceiling/ Subwoofer/ All Weather Speakers						
<b>HKEF</b>	KEF: Loudspeakers/ In-wall/ In-ceiling/ Subwoofer/						
THEDAY	Theory Audio: Loudspeakers/ In-wall/ In-Ceiling / Subwoofer/ Pendant						
HEGEL MUSIC SYSTEMS	Hegel: Integrated Amplifiers						
UBL	JBL: Amplifiers/ Loudspeakers/ Centre Channels/ / In-wall/ In-ceiling/ Su- bwoofer						
REVEL	Revel: Loudspeakers/ In-wall/ In-ceiling/ Subwoofer/ Outdoor Speakers						
FXX	FX: Ceiling Speakers						
PRISM	PRISM: Cables						



### **Product Categories**

- Audio
- Video
- Automation
- Electronics
- Cables

### **Key Projects**

- MAHE- Manipal, Bengaluru
- Khavda Project
- Experience Centre for TATA & ADANI
- AV Solutions for Major Airports
- Boardrooms, Smart classrooms, Auditoriums
- for Manipal University

### **Presence across Indian cities**

While our corporate office is located in Bengaluru, we have stores and service centres throughout India.

### Plans for 2025

As we step into 2025, our company is ready for a year of transformative growth, focusing on strategically expanding our brands and service offerings.



# Insights on the Indian Market and Target Categories

The AV industry in India is witnessing exceptional growth, with vast potential ahead. As the market evolves, we are dedicated to delivering the latest, cutting-edge audio and video technologies to our customers, ensuring they have access to top-tier AV solutions that cater to their ever-changing needs.

### Contact Details: +91 888 431 0123/ sales@profx.com/ www.profx.com



# Marantz Horizon: Luxury Sound Meets Timeless Design

The Marantz Horizon Luxury Wireless Speaker presents a unique yet timeless design, combining exquisite craftsmanship with cutting-edge performance. Known for its signature sound, the Horizon delivers pristine, room-filling audio that appeals to the most discerning listeners. Marantz's **AuraControl™** system provides intuitive, elegant control, while the **Marantz Radiance™** 360° Seamless EcoFiber ensures a refined acoustic experience. Powered by the **Marantz Rise™ Amplifier**, the Horizon effortlessly produces powerful sound with clarity and depth.

Crafted from luxurious materials, the Horizon is available in three sophisticated finishes— Moon Ray, Midnight Sky, and Marantz 64 | SMART HOME WORLD | FEBRUARY 2025 **Champagne**—and features complementary natural marble bases, adding a touch of elegance to any space. Integrated with **HEOS®**, it connects seamlessly to your music library, offering access to a wide variety of streaming services including **Spotify, TIDAL**, **Amazon Music**, and more. The **Marantz Mirage™ Digital Signal Processing** further enhances audio precision, creating a superior listening experience.

Designed by Marantz engineers in collaboration with the Sound Master, and backed by over 70 years of industry-leading excellence, the Marantz Horizon is the ideal choice for those who value both beautiful design and exceptional performance. With



versatile connectivity options, including Bluetooth, AirPlay 2, and HDMI eARC/ ARC, the Horizon integrates easily with your existing home setup. The HEOS App allows for simple control via iOS, Android, or Kindle Fire devices, making it effortless to manage your audio experience.

In terms of technical performance, the Horizon boasts a wide frequency response of **30Hz** to **20kHz** (+/-3dB), with a maximum SPL of **104dB** (**1M**) and peak **SPL of 114.5dB** (**1M**). It supports various audio formats, including **Dolby Atmos, Dolby TrueHD**, and **DSD** at a maximum data rate of **5.6 MHz**. With **310W** of FTC-rated power and peak output up to **745W**, the Horizon provides ample amplification to fill any room with rich, dynamic sound.

This high-end wireless speaker is not only a piece of audio technology but a statement of style and sophistication.





# BenQ's 4K Projectors and Laser TV: Tailored for Every Lifestyle

BenQ India, a pioneering human technology and solutions provider, operating under the corporate vision of "Bringing Enjoyment 'N' Quality to Life. As a global leader in Display technology, BenQ offers a range of innovative and design-rich tech products including Projectors, Monitors, Interactive Display Panels.

Projectors are pivotal in elevating the smart homesetup, offering immersive entertainment and functional utility. Projectors transform any room into a cinema, providing a larger-than-life viewing experience for movies, gaming, and streaming content. With advanced features like voice control and integration with smart home ecosystems, projectors seamlessly blend into the connected home environment. They serve as versatile hubs for information and entertainment. With in-built OS and ability to integrate with smart ecosystems, projectors enrich the smart home experience by bringing content to life in innovative and engaging ways. Projector excel over TV's as they provide larger screens at relatively lower cost. They typically produce less eye fatigue than TV because it has reflective light source, even in extended watching sessions.

BenQ has a range of innovative products designed to enhance every area of the home, ensuring that it has something special for every corner of the living space. From stateof-the-art projectors to interactive displays, the company offers a comprehensive suite of products that seamlessly integrate into the



smart home ecosystem. BenQ is committed to enhancing the smart home experiences with innovative display technology tailored to every lifestyle

### Here's couple of Innovative BenQ Display Solutions

# For Living Areas: V5010i 4K RGB Laser TV Projector with up to 150" Screen Size

V5010i is an Ultra Short Throw Projector designed for living spaces. It offers stunning 4K resolution, 95% BT 2020, HDR Pro and 40W Speaker System. It delivers vibrant colours and exceptional audio quality. Its integration with Google-certified Android TV brings favourite streaming services directly without extra devices. With voice assistant support and versatile connectivity, the V5010i is a powerhouse of convenience and quality. V5010i along with upto 150" Ambient Light Rejection (ALR) Screen is a perfect living room solution as it does not wash out any colours in bright environment

### For Your Home Theatre (Dark Rooms):

### W5800 Flagship Home Cinema Projector

W5800 is designed for large AV Rooms, it delivers True 4K UHD clarity, exceptional colour fidelity, and an unparalleled brightness of

2100AL@100% DCI-P3 level to ensure that every movie watching experience is immersive. It's powerful & sharp Laser Light source provides unmatched visuals and precision. It seamlessly fits in any installation sites with its powerful features such as 1.6X Motorized Zoom, 2D lens shift and Keystone. Its advanced all glass lens system reduces colour discrepancies, allowing the viewer to enjoy cinema in its true colours

### For Your Gaming Cave: X3100i 4K BenQ Immersive Gaming Projector

X3100i is designed for console gamers with a dedicated space, it offers high brightness of 3100 ANSI Lumens, 4K clarity, and the flexibility for various installation options. The X3100i ensures gaming environment with vibrant visuals, low input lag of 4.16ms and tailored gaming modes such as RPG/SPG/FPS/RCG Modes. It also delivers 100% DCI-P3 and HDR Pro for immersive gaming experience

### For the Modern Work experience

BenQ Board Pro RP04, is an interactive display that integrates seamlessly with Google's ecosystem. Access essential work apps, collaborate through Google Meet, and includes benefits of a health-centric design that emphasizes eye care and enterprisegrade security. RP04 comes in 3 sizes: 65", 75" and 86" PRODUCT PREVIEW

# Formovie Theater Premium: Redefining Home Entertainment



Experience cinema-quality visuals at home with the Formovie Theater Premium UST projector, featuring advanced ALPD® technology for an immersive movie and gaming experience.

Experience cinema-quality visuals at home with the Formovie Theater Premium UST projector. Engineered with cutting-edge Advanced Laser Phosphor Display (ALPD®) technology, the same used in commercial cinema projection, it brings the magic of the big screen to your living room.

Whether it's for a cosy family movie night or immersive gaming sessions, Formovie's ultramodern projector ensures unrivaled clarity and vivid color, elevating your entertainment experience.

Launched in India in 2023, Formovie has quickly gained recognition, thanks to its strong presence in the Mi ecosystem and its partnership with Ayetexcel Pvt Ltd. With showrooms in major cities and a range that caters to both premium and budget-conscious a minimum a mini

consumers, Formovie is quickly becoming a trusted name in home entertainment.

According to Technavio, the global projector market is expected to grow by US\$ 4.79 billion at a CAGR of 5.1% between 2024 and 2029. In the APAC region, India and China are set to lead this growth, collectively contributing 42% of the global market during the forecast period.

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Noticing the significant shift from televisions and traditional lamp-based projectors to portable, technologically advanced, ecofriendly, and convenient UST projectors, Formovie is adapting to evolving consumer preferences with innovative devices. Its latest addition to the home theatre segment is the Formovie Theater Premium.

### A Truly Premium Product

Launched in India in December 2024, the Formovie Theater Premium lives up to its "premium" tag with cutting-edge design, advanced visuals, superior sound, and refined features that offer a luxurious viewing experience for today's tech-savvy consumers. As the direct successor to the Formovie Theater, which has already transformed the home entertainment segment, the Theater Premium delivers 25 percent clearer visuals and higher brightness, with an output of up to 2,200 lumens and a contrast ratio of 3,000:1 in a massive 150-inch screen size.

Powered by ALPD® RGB+ 4.0 triple-colour laser technology, it surpasses standard RGB laser projectors, offering exceptional performance and true-to-life colours with remarkable precision in true 4K quality. Dolby Vision ensures seamless compatibility with a wide range of devices, while its laser lifespan of up to 30,000 hours maintains consistent brightness without the need for frequent replacements.

### Oceanic Sound Quality

By partnering with renowned audio brand Bowers & Wilkins, Formovie enhances the sound experience for movie and gaming enthusiasts. The projector features dual 15W speakers, ensuring every detail is crystal clear. Tuned by experts and supported by Dolby Atmos, these speakers deliver rich, immersive audio.

### Integrated Convenience

With over 700,000 movies and TV episodes, live TV, and more across 10,000+ apps, the integrated Google TV in Formovie Theater Premium enhances the streaming experience by organizing content from various platforms. Native Netflix support eliminates the need for external setups, ensuring effortless access to entertainment. The projector's Gaming Mode enables gamers to enjoy their favourite titles on a massive screen with zero lag. Further, users can press the Google Assistant button on the remote and voice command their preferred content from the available apps.



# SIM2 ULTRANERO 4: Premium Laser Projection

The SIM2 ULTRANERO 4 is a high-performance projector designed for large home cinemas, gaming setups, and medium-sized public venues where image quality is crucial. With over 30 years of experience, SIM2 has established a strong reputation for product performance and customer satisfaction, and the ULTRANERO 4 continues this legacy. This model is built on a completely new, laser-based platform that delivers an impressive brightness of up to 7,000 lumens, making it suitable for environments requiring exceptional image clarity.

The projector features a cutting-edge illumination system with new ceramic components that optimize efficiency, color accuracy, stability, and durability. It boasts a lens with extraordinary performance, achieving over 95% uniformity across the entire screen. Additionally, the ULTRANERO 4 offers exceptional HDR vision, a result of SIM2's unmatched expertise in this area, ensuring vivid and dynamic visuals. The motorized lens

shift, along with focus and zoom capabilities, provides flexibility for installation, and the system supports Perfect Fit memory options for seamless adjustments.

With a hybrid laser light source combining color and ceramic phosphor wheels, the ULTRANERO 4 offers an estimated 20,000 hours of light source life, providing long-lasting, consistent performance. The projector's sound design ensures it operates quietly, with acoustic noise levels of less than 30 dBA. The projector supports multiple installation options, including front and rear mounting, and provides various input/output connections, including HDMI, USB, and HDBase-T. Compact yet powerful, the ULTRANERO 4 is the perfect choice for any space requiring premium projection performance.

Measuring 485 x 180 x 430 mm and weighing a manageable amount, the ULTRANERO 4 is packaged with anti-shock filling to ensure safe transport and installation.





### **KEY FEATURES:**

Acoustic Noise: Less than 30 dBA

Mains Voltage: 110-240 Vac +/- 10%

Lens: 1.30-2.0:1 (1.6x Zoom range)

**Resolution**: 4K UHD 3840 x 2160

Brightness: Up to 7,000 lumens

Installation: Front/rear floor/ceiling mounted



### **Epson Launches Two New Professional 4K PRO-UHD Home Laser Projectors**

Epson has introduced two new highperformance 4K PRO-UHD laser projectors to its EH-Q Series lineup, the EH-QS100W and EH-QS100B. These super-short-throw projectors offer an exceptional viewing experience, combining cutting-edge technology with impressive brightness and superb image quality.

The new EH-QS100W (white) and EH-QS100B (black) projectors deliver 4K PRO-UHD resolution, making them ideal for a variety of home environments, from dedicated media rooms to well-lit living spaces. Their super-short-throw design allows for close-to-wall installation, providing an immersive cinematic experience without the need for a large, dedicated space. This innovative feature eliminates shadows and allows for a sleek, cable-free setup.

Powered by advanced 3LCD laser technology, the projectors ensure vibrant, sharp images with a high contrast ratio, delivering clear details and smooth motion for movies, sports, and gaming. Capable of projecting up to 160 inches with 4,500 lumens of brightness, the EH-QS100W and EH-QS100B are perfect for both bright rooms and darker spaces. With a dynamic contrast ratio of 5,000,000:1, these projectors provide deep blacks and welldefined shadows, ensuring an exceptional viewing experience.

The projectors also boast a range of advanced features to further enhance image quality. 4K frame interpolation ensures smooth fastmoving images, while 4K super resolution preserves detail in every scene. Dynamic Tone Mapping enhances visuals on a frame-byframe basis, and HDR10+ support brings more vivid, lifelike colours to both movies and sports content.

The Epson Setting Assistant App further enhances user experience by allowing for easy adjustments after installation, eliminating the need for a professional installer for small tweaks.

Ben White, product manager for professional home projectors at Epson Europe, commented, "These latest additions to our Q Series range reflect our commitment to the growing demand for larger-screen home entertainment. These projectors offer a costeffective alternative to flat panel displays, providing expansive, vibrant images in any space."

The new Epson EH-QS100W and EH-QS100B projectors are designed to deliver exceptional image quality, convenience, and versatility, making them an ideal choice for home theaters and media rooms.

# ESP32-C5 is the first Espressif microcontroller with dual-band Wi-Fi



Espressif has delivered dual-band Wi-Fi with the ESP32-C5, a long-awaited addition to its popular ESP32 series of microcontrollers. Unlike previous models, the C5 finally supports both 2.4 GHz and 5 GHz Wi-Fi, making it a significant step forward for IoT and embedded applications that require more flexibility in wireless connectivity.

### **Key Features:**

The ESP32-C5 is built around a single-core

32-bit RISC-V processor, clocked at up to 240 MHz, with 384 KB of on-chip SRAM and 320 KB of ROM. It also supports external PSRAM. One of its most notable and anticipated features is dual-band Wi-Fi6, which should help improve networking performance, especially in congested environments. Espressif claims performance," "outstanding RF which should make the product competitive in both consumer and industrial applications. In addition to Wi-Fi, the ESP32-C5 includes Bluetooth 5 (LE) and IEEE 802.15.4, enabling Zigbee 3.0 and Thread 1.3 support for smart home and IoT uses.

The chip comes with 29 programmable GPIOs, useful for developers integrating sensors, actuators, and other peripherals. Security remains a focus as well, with Espressif's flash encryption technology ensuring data protection.

### Aqara Camera Hub G5 Pro Launches Globally



Aqara, a global leader and pioneer in IoT, announced the global availability of its first surveillance camera designed for outdoor. The Camera Hub G5 Pro combines superior image quality, advanced AI capabilities, and seamless smart home integration, providing homeowners with enhanced security day and night.

With a sleek design in two finishes, the G5 Pro delivers 2.6K Quad HD recording with

True Color Night Vision, ensuring crystal-clear images even in the darkest night. Equipped with on-device AI, the camera captures critical events around the home and alerts homeowners of potential threats, such as lingering individuals or package theft. It can even trigger automation to deter intruders. Additionally, the G5 Pro works with popular smart home platforms and supports the RTSP protocol, making it easy to integrate into users' existing smart security systems.

More than just a security camera, the G5 Pro serves as a multi-protocol hub for outdoor space, expanding the reach and reliability of your smart home network. As a Matter Controller, Thread Border Router and Aqara Matter bridge/Zigbee hub, it can connect and manage not only Aqara accessories but also third-party Matter devices, making it an ideal foundation for DIY users looking to create their own home security systems.

## **JBL Professional Introduces Control 400 Enhanced Ceiling Speakers**

HARMAN Professional Solutions, global player in audio, video, control, and lighting systems, has announced the launch of its JBL Professional Control 400 Enhanced Coverage Series. representing the next generation of excellence from the most trusted name in ceiling loudspeakers, says the company.

As the successor to the JBL Control 20 Series, known for versatility and reliability, the Control 400 Series extends that legacy with superior sonic performance, improved conical coverage, enhanced installation features and a more modern aesthetic.

from its Adapted tour sound Professional technologies, JBL introduces its latest iteration of Radiation Boundary Integrator (RBI) technology: the Coplanar RBI, or CRBI. This technology is included to provide

an especially smooth sound character that remains consistent, clear and pleasant across a wide coverage area. This enhanced coverage results in more consistent levels and can lead to fewer required speakers and amplifier channels and ultimately, significant project savings.

All models in the series include an all-new, full-face magnetic grille that blends with modern decors. The supplied white grille can be painted to match any application decor. Optional black and square grilles are also available.

Per JBL's longstanding commitment to installer-centric design, the series includes a variety of mounting enhancements to improve installation repeatability and safety while reducing installation time. Terminal covers provide top and side cable entry ports and can be secured without tools thanks to captive hand-screws. The captive dogear design is designed to be extremely reliable and works with a wide range of ceiling thicknesses.



Additionally, all models include transformers to support both 70V/100V and low impedance applications. Hitting for six

There are six models to facilitate the design of high-quality audio experiences in a wide range of environments and applications. The core models are the Control 426C/T and the Control 424C/T, two-way coaxial ceiling loudspeakers with 6.5in and 4in woofers, respectively. For applications where ceiling plenum space is limited, low-profile versions of those models, the Control 426LP and Control 424LP, are available. The Control 426C/T-LS has been certified to the UL1480 Standard, expanding application possibilities into life-safety designs. Finally, the Control 419CS/T is a high power, low distortion 8in in-ceiling subwoofer that augments any design that requires extended low-end performance.

The Control 400 Series is ideal for retail stores. corporate offices, education spaces and transit spaces.







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