



Security



Safety



Lighting



Automation



AI



Your Private  
Interconnected World

**ICOSYS**

Welcome to the Future,  
Welcome to

**ICOSYS**

your private  
interconnected world.

At Icosys we are racing to the future using cutting-edge innovation in technology in the field of Internet of Things (IoT), AI, Machine Learning, Virtual Reality (VR) and Actuated Reality (AR) to make life and living convenient, safe and comfortable.

We are transforming the concept of “access” and “control” to people and things by providing a one-touch control of their homes and offices. As we integrate our innovations into the platform, every user would see the endless possibilities of how lives and things get interconnected. While innovating our interconnectivity, we are driven by “Why not” instead of “Why”.

Your home represents the things you value most – the well-being, comfort, and safety of your family. Our control and automation solutions make homes come alive. You can interact with and control your home in real time from anywhere, making it safer, convenient, and comfortable for your loved ones. Our hassle-free, intelligent control solutions adapt and learn from your behavior, enable you to do more in less time, and help you to spend more time with your loved ones.

With our **ICOSYS** Smart Home solutions, you can control and interact with your home easily and quickly, all with a single touch. In all our innovation, technology, products and services, we are relentlessly striving to give this power of “access” and “control” to who it belongs to - YOU.

**WHO  
WE ARE**





## IMAGINE

Imagine when your child wakes up for water at 2 am, the pathway lights switch on, when he/she enters the kitchen, the kitchen light and water filter switches On and Off as he/she enters or leaves the kitchen. When you feel like enjoying a movie night with the family. At a touch of a button, the lights switch off, the screen rolls down, and projector starts playing your favorite movie. Imagine that your air conditioner adjusts by itself to the temperature of your liking when you are asleep, the air purifier automatically keeps your children safe from pollution whenever the outside air becomes polluted, or the temperature of the water in the bathroom adjusts by itself to the temperature comfortable to you. Some call it magic, we call it Icosys Intelligent home.

The possibilities are endless with our solutions. You will be pleasantly surprised to see our Intelligent system learning your personal preferences and adjust the setting as per your liking – from temperature to light intensity to volume of music; so much that it can observe your sleep pattern and recommend ways for you to have better sleep.

Smart bulb

Smart Curtain

Door Window Sensor

Body Motion Sensor

Wall Socket

Smart Lock



Environment sensor

Smart Gateway



# THE SMART HOME AND ZIGBEE



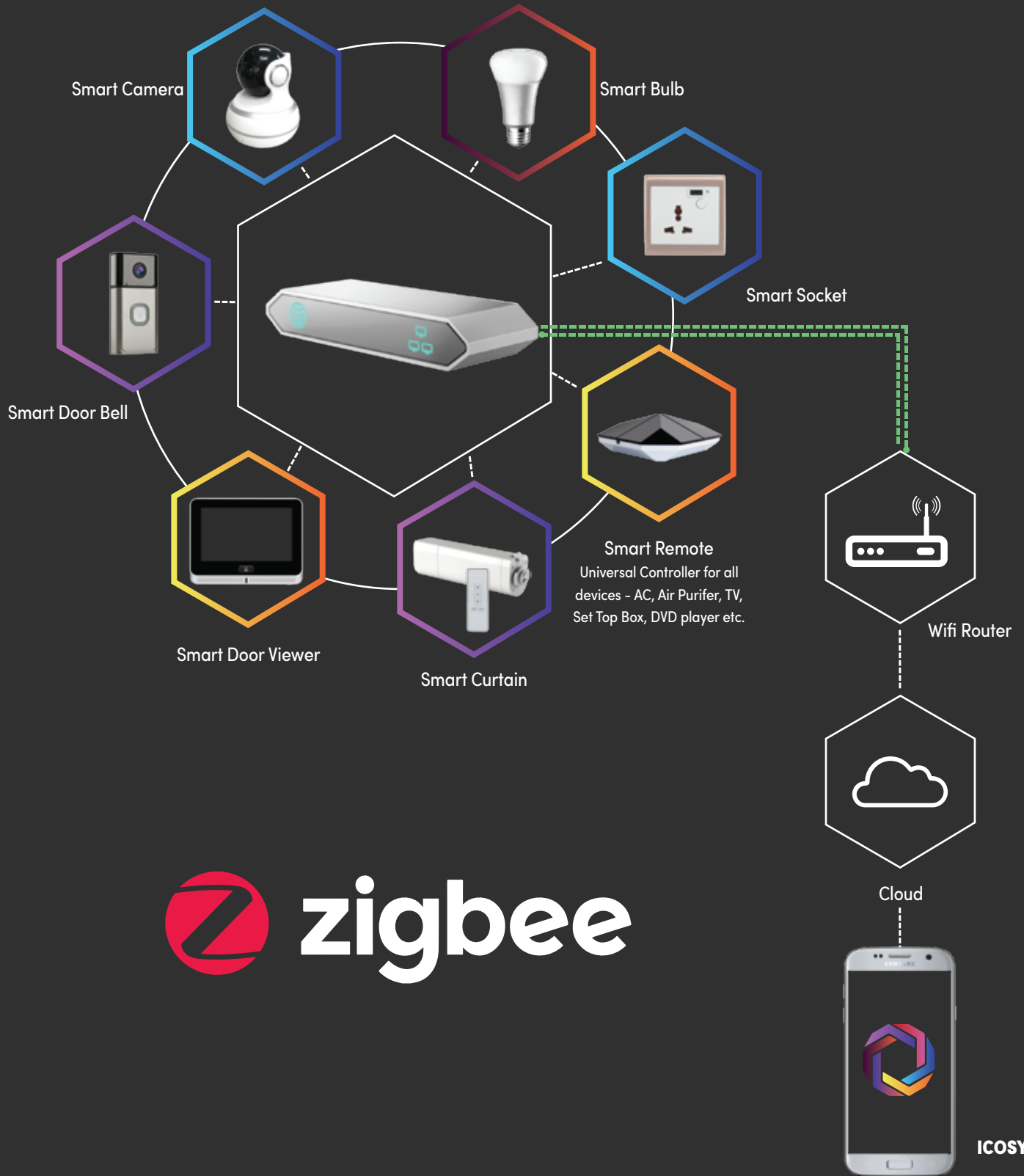
The whole idea behind the smart home is to have everything talking to everything, so that you stay informed while your devices stay informed too. e.g. your lighting talks to your security camera or that your smart coffee machine turns on when you get out of bed. All of these connected devices are being handled by automatic systems over a single network. The result? You have a smart home. The biggest such communication network is called Zigbee.

ZigBee is based on the personal-area network standard. All you need to know is that ZigBee is a specification that been around for more than a decade, and its widely considered an alternative to Wi-Fi and Bluetooth for some applications including low-powered devices that do not require a lot of bandwidth - like your smart home sensors.

ZigBee's network support both star and tree type networks, often called Mesh network. A mesh network allows each device in the network to operate as a repeater and pass the signal on to another device. If one node fails for some reason and cannot communicate with a second node on the mesh network, the master node and second node may communicate by linking to a third node within range. This allows mesh networks to be more versatile. They can cover greater distances and even work around obstacles.

ZigBee is very low-power. They use a fraction of the power required by WiFi. ZigBee can run on a single coin cell battery for several years. A device like that trying to maintain a WiFi connection would be dead in days.

ZigBee uses AES 128 encryption standard. That is the same encryption used by banks and government. No one is going to get control of your smart home by hacking the signal encryption.




**zigbee**



## **SECURITY, COMFORT & CONVENIENCE**

Icosys offers a unified smart app to control and monitor the security of your apartment/house. Our app has enhanced security features to protect your controls and data from external threats. Your data is stored in private cloud network.



## I. SECURITY AND SURVEILLANCE

Smart Lock - Icosys's smart lock and peep hole work in tandem to record short videos of people at your door, and send them in real time to your smartphone. The smart lock can be controlled (open and closed) via :



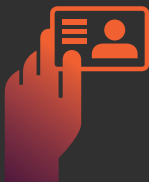
Mobile Phone APP



Finger Print



Manual Key



IC Card



Password

- i) Long term password for Family Members
- ii) Short term password (n days – 1,2,3, etc.) for temporary visitors like friends & relatives
- iii) Distress Password – If anyone is forced to open the door under some threat, opening the door using Distress Password, sends an automatic signal to other Family Members phone.

Camera



Smart Camera

**Smart Camera** – An elegant solution to improve your home’s security and monitoring the safety of your children. Our smart camera has a 4-way rotation and can cover 270-degree motion, it stores your video data in real time in a private cloud and also in your phone if you choose to. Our solution gives you complete control over your privacy settings. You can customize your video controls as per your needs. The smart camera also records video in night mode. This gives you a complete peace of mind against house break-in when you are traveling with your family out of town or even overseas.



Motion Sensor

**Motion Sensor** – Our Motion Sensor can be programmed to sense motion of an intruder, once the intruder is detected; it automatically connects to the camera, and activates the live video feed of the apartment in your smartphone. It also connects your home audio system. You can shout at the intruder from your smartphone or raise an alarm.



Smoke Sensor

**Contact Sensor** – The door and window contact sensors are unique solutions which senses the movement of your doors and windows, in case an intruder tries to gain access to your house from your window, the contact sensor will activate the alarm, switch on the lights and camera.

**Other Sensor** – There are a host of other sensors such as a smoke sensor, water sensor, gas sensor etc., which can control any gas leakage or any fire in the house. These sensors can be very easily integrated with the app in touch of a few buttons. These are wireless and do not require an expert for installation.



Smoke Detector

Motion Sensor

Smart Gateway

## II. WIRELESS & HEADACHE-LESS

**Wireless** - Almost all our solutions (except lighting controls and camera) are wireless, very easy to install, maintenance free. Most of our automation solutions can be installed and integrated in less than 5 minutes.

**Battery powered** - Most of your sensors and equipment are battery powered, they do not need a power connection to operate. Since we use the latest communication technology, Zigbee, the power consumption of any device is quite small, and batteries can last from 6 months to 1 year..



Our solution comes with  
**PEACE OF MIND** Guaranteed.  
All our automation solutions come  
with enhanced security features to  
protect your security systems, controls  
and data from external threats.

### **III. SECURED, PRIVATE, AND IN YOUR CONTROL**

Video, voice, or any other data between your home and app is transferred via a secure and encrypted channel. No one can access your data. Your data is stored in a private cloud, which is again encrypted and is protected by latest security measures. Only you can access your private cloud data.

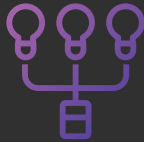
Our app allows you to choose your privacy level, and customize video, voice monitoring based on your requirement such as when you are out of home or you want to monitor your children or young ones away from home.



## LIGHTING AND ENERGY EFFICIENCY



Change the lighting in your home according to your mood with Icosys smart lighting control solutions.



Our lighting control features allow you to operate every light and shade in your home, according to your convenience.



Press the "All Off" button to turn off the lights of any room from anywhere



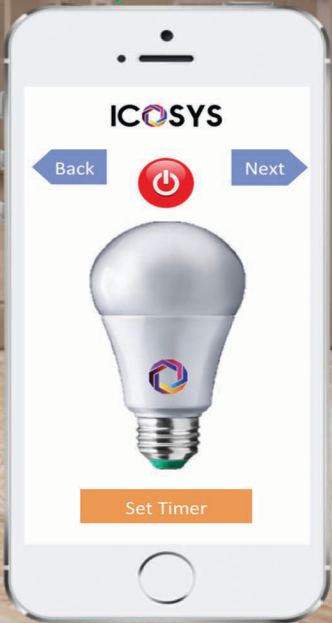
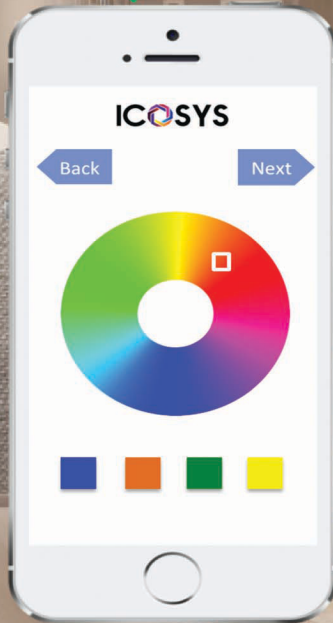
Allows you to set different moods such as romantic, movie, sleep, wake up, and other customized moods and options.




Colour change

On/Off

Brightness change





Our system can check electricity consumed by individual equipment in real time basis and gives graph and tables to analyze which equipment consumes how much electricity and when.



## I. ENERGY EFFICIENCY CONTROL

Forgot to switch off your living room lights? Or Left the bathroom lights on after use at middle of the night?

No Problem! Our lighting solutions automate functioning of the lighting, fans, ACs etc. with timers and sensors, and intelligent controls.

» Our dimmers, sensors, and timers turn off lights automatically to maximize energy saving.

» With zero additional wiring, any appliance or equipment such as TV, Water Geyser, Air Conditioner, Air Purifier, and Washing Machine etc. can be integrated with our intelligent control and automation system using Icosys Smart Plugs. The smart plugs are installed at the power source; these plugs can not only automate the on/off control of the appliance but also can monitor energy consumption of the connected appliance/equipment.

» The energy consumption data is stored in your private cloud, which can be accessed ONLY by you. This data can provide invaluable insights into energy consumption pattern of the appliances/equipment, which can be used to reprogram/automate the functioning of the appliance to maximize energy saving.





## **CONTROL AND AUTOMATION**


### **I. Entertainment Systems Control**

One Intelligent Remote for everything in your smart-phone - Our home is a chaotic network of flat TVs, Projectors, video game consoles, blue-ray, DVD players, sound system, Amazon TV etc. with separate control and remote. Our solution simplifies operation and replaces multiple remote controls with just one universal remote. The universal remote, when integrated into a home automation system, can also activate room's lighting and control blinds too. The remote can be accessed via smartphone or tablet.




## **SMART REMOTE CONTROLLER**

Universal Controller for all devices - AC, Air Purifer, TV, Set Top Box, DVD player etc.



Artificial Intelligent enabled device, learns functions automatically.



All remotes accessible in smartphone.





## II. AIR CONDITIONER, AIR PURIFIER, WATER GEYSER

Clear Air, comfortable ambient temperature, & adequate hot water - Our environment control system is a wireless device, which continuously measures the temperature, humidity, air-pollution level inside the leaving room. Air conditioners, Water Geysers, Microwave, etc. are some of the most power-consuming devices in our homes, with smart sensors they operate only when temperature, humidity or air pollution level has crossed the preset threshold. Once integrated into a home automation system these appliances will operate automatically based on your preference. Our Intelligent system maximizes comfort and minimizes electricity bills.





Smart Curtain

### III. WINDOWS AND BLINDS CONTROLS

Do more with your curtains - enhance privacy, light, air all at will. Motorized windows, blinds, and curtains automatically adjust to the environment and mood to offer you the perfect amount of ambient light, airflow, and temperature. Intelligent blind control also provides privacy, automated mood operations, such as one can set the curtains to open slowly between 7 am to 8 am to get a slightly increased amount of sunlight every time. All of these are integrated with a smart and intuitive app, which can be customized to suit your requirements.



# ICOSYS

**INTERNET  
OF EVERYTHING**

Proven  
**GOVERNMENT  
GRADE SECURITY**

**LEGACY  
COMPATIBILITY**  
For long lived devices

**INTEGRATION**  
with millions of  
user facing devices

Standard based  
**INTEROPERABLE**  
technology

Ease of  
**SETUP  
AND USE**

Robust  
**CONNECT**  
with or without  
an internet link

**PRECISE LOCATION  
AWARENESS**  
indoors and outdoors

**PERVASIVE  
CONNECTIVITY  
CONNECT**  
nearly everywhere

**VIRISA ICOSYS TECHNOLOGY PVT. LTD.**

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