

Okos

Smart
Secure home
Intelligent



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Intelligent building

An intelligent building is capable of more than just direct user control. The building instantly **completes tasks by itself** if the correct requirements are met.

This significantly improves response time and energy efficiency.

The system can **easily be installed** into any home or building be it new or old.

The main focus of the system is:



Energy efficiency

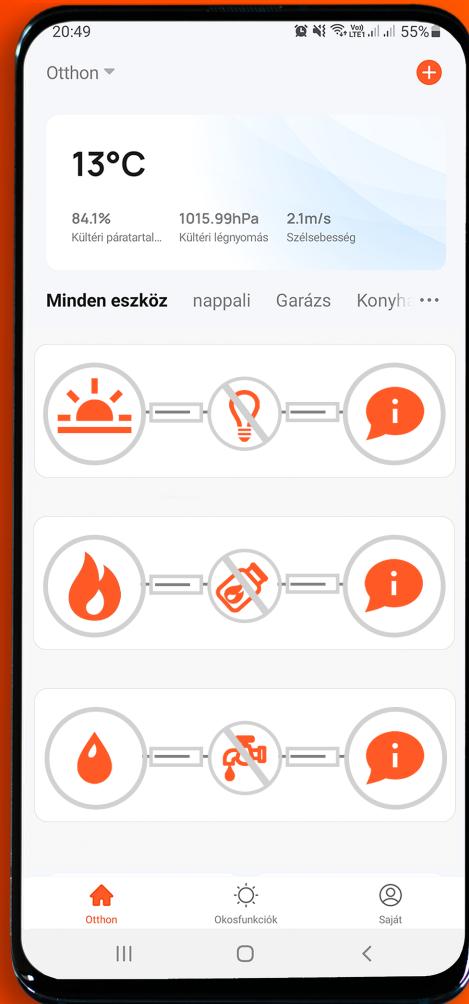


Improved safety



User comfort







Automation

The best feature of an intelligent building is that all smart components are in constant communication with each other. This allows them to **detect many environmental factors and adapt to them instantly**. This is called automation and is the main component of an intelligent building.

An automation can be executed by a single or multiple devices

The main steps of an automation are:



Detection: An event is registered by a sensor (water/smoke/movement detected or a timer) Then the system triggers the related components of the smart house



Execution: The task connected to the detected trigger starts, and then one or more components execute it.



Notification: The user is (optionally) notified that the task has been finished.



Camera integration

The alarm output of the Videosec **IQ cameras can be connected** to an intelligent building control system. This allows it **to start automations** based on camera detections. It gives an option to control lighting opening/closing and moving tasks based on:



A **human or a car** that has been **detected**.



Intrusion detection.



Time spent in a Predefined zone.



An outside **signal from a button** or switch that the camera received.





Energy efficiency

Intelligent home system greatly decrease a buildings energy use. This can be achieved by setting up automations that:



Dim the lighting in rooms that are not in use.



Decreasing or turning off all lighting or climate control when the security system is armed.

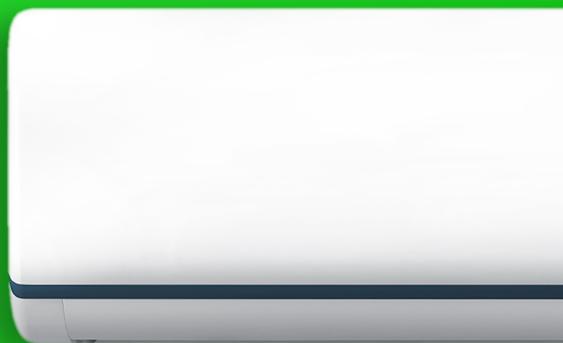


Turning off climate control when an **open door or window is detected**.



Turning on/off the lights outside of the building **based on sunrise**.

The system does all these without any user input so there is a significantly **lower chance for human error**. It's also capable of full or partial integration with existing outside systems.







Safety

The integration of the system allows it to **execute safety tasks extremely efficiently**.

It has the capacity to:



Turn all the circuit's off in the room if it detected a water leak.



Shut off the main water valve in the case of emergency.



Shut off the main gas pipe if it detects smoke or a gas leak.

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Security



When the security system is connected to an intelligent building all **smart components become a part of it** (door/windows sensors, light switches, power usage meters, thermostats, water or gas sensors). This greatly increasing detection accuracy



The user can be **notified if they forgot to close a window** or left an appliance on when they try to arm the system.

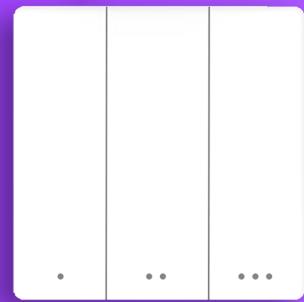


In the case of an alarm being triggered the system can send a **custom notification** to multiple users simultaneously. The system can notify local authorities in case of emergencies and optionally can be set to be a silent alarm.



Aside from traditional means the system can scare off intruders by switching lights on and off, moving blinds and using other smart appliances.







Groundbreaking kinetic switches

Unlike traditional wired and battery powered switches. Kinetic switches **can be placed on any surface** and are **self-powered**, so they do not require additional power sources (wiring or battery). When the user presses a kinetic switch the movement of the switch generates energy that powers the built-in radio relay. This sends out a signal to the receiver and the task associated with the switch is started.

Kinetic door sensors work on the same principle .

The speed or time of the button press doesn't affect the system.

Their main advantages are:



they can be mounted to any surface and easily moved if needed.



Lifetime of more than a hundred thousand switchings



No extra wiring expenses



Extreme energy efficiency without wasteful battery use.



Can be used under wet conditions or outside thanks to its water resistance (IP67 rating).

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Kinetic switch controllers

Controllers(or actuators) that receive signals from the switches, and are **available in a variety of sizes**. we offer dry contact, switch if phase output switches or roller shutters.



KRC Controllers are available from 1 to 6 manageable channels and **can be mounted** to DIN-rails, size 86 wiring boxes or even **behind wall mounted switches**.



The KRC-200 series has **more control** options with wired and kinetic switching and the Tuya app



All Controllers are manageable through the Tuya app using **Wi-Fi or Zigbee** technology.





Management

All Videosec smart components can be controlled through the **Tuya** ecosystem. The application lets its users arrange all smart components into rooms and homes. The status of all **components can be monitored and controlled** on the go. Tuya is also used to **activate automations and scene routines**.

They can work:



Based on parts of the day or a **specific time**.



Based on the **status of other components** or automations



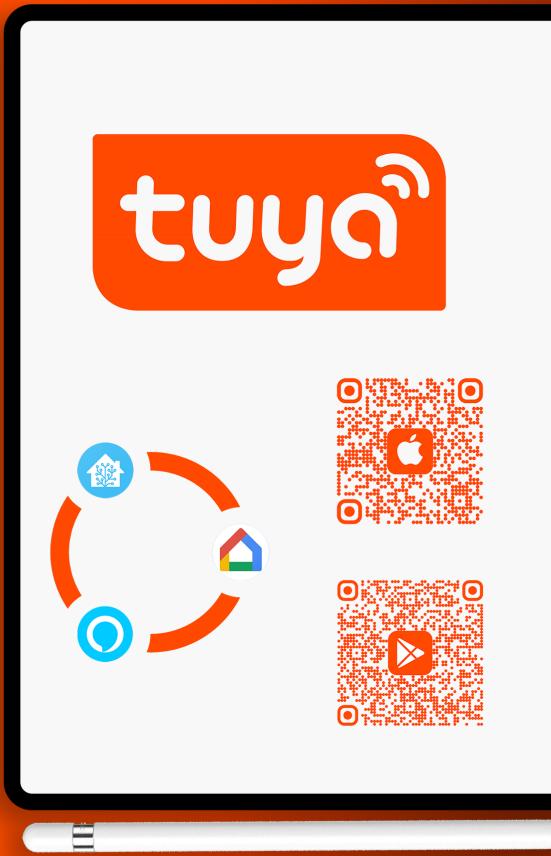
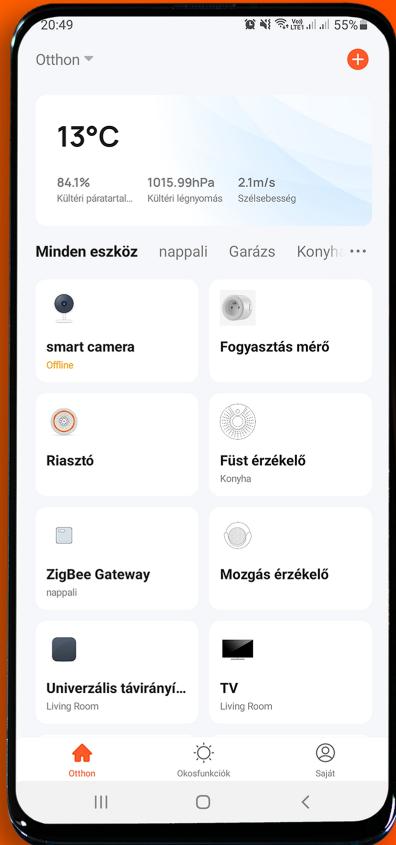
With **GPS** data from the user's smartphone



Together-with or under existing smart **home management platforms** (Google, Amazon, Samsung, Smartlife)



On **Wi-Fi** or on **Zigbee** networks





Automation solutions for



a comfortable morning



The system slightly raises the blinds so that sunlight can get into the room. It keeps raising them slowly so the **user can be woken up by mild sunlight**. During winter the same can also be achieved with the lights in the room.



Sensors in the house can **control lighting based on movement**, and user demand.



Climate control would adjust the air conditioning or heating before the user woke up.



When leaving the house, the users phone gets a **reminder if they forgot to turn on the security system**. They can arm it from their phone afterwards.



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Controlling lighting



Corridors and bathrooms rooms are only dimly lit unless **sensors detect movement**. During the day they set themselves to a default mode. In unused rooms they go back to power saving, decoration or off mode.



Kinetic switches can be **moved dynamically** and there is no need for rewiring new batteries painting or any other work to achieve this.



If a switch is too high, it can always be moved down. They **can also be mounted on glass surfaces**.



A single press of a kinetic button **changes lighting scenes** or starts automations. For instance, it can let the blinds down, make lighting go to dim mode etc.





with automation





Climate control





with automation



By placing thermostats in multiple rooms, the user can **improve energy efficiency up to 30-45%** with automations. The system can also integrate air conditioning as well.



When **the user leaves** the building and arms the security system, all the **thermostats switch into low power mode**. And if needed it can be turned back on through the Tuya app.



Existing radiator systems can also be upgraded using radiator mounted ZigBee thermostats. They don't require any wiring and can be shut off when an open window is detected.



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Water detection



If a water leak sensor detects an emergency, the system **can close the main water valve** and notify the user.



The automated sprinkler system can be set to start working in the morning but **do nothing if there was rainfall** the last day. It can also be controlled by the user on their phone.



They can be managed using a motorized ball valve or a vax water valve controller.



and leak prevention





Gas and smoke



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detection

Multifunctional gas sensors can be used to detect various kinds of gas leaks dependent on its positioning (close to the floor or the ceiling). **The device can detect 6-8% combustible gas concentration** with its catalytic sensor and inform the user.



Videosec **smoke detectors can notify the user in the same way** as well, if they detect smoke or fire.



To prevent serious tragedy, use of smoke and gas sensors are crucial in any modern home. Based on their signals a venting system can be activated and an impulse controlled **gas valve can block the main gas pipe**. While informing the user.



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The whole building



While arming a smart alarm system, it will **notify you if there is a window or door** that was **left open** by the someone.



If an intruder is detected the Tuya connected light **switches can be restricted** or their functionality can even be changed



The sensors in the house can be used to **track intruders**, so the user can exit the building if needed.



The **alarm hub can be programmed with the users phone** to get armed and disarmed automatically based on time (working hours of a business for instance) or the users phone location so that it can arm the building if we leave the area.



is one security system





Management



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with cameras



A camera with an alarm output can be set up to **detect (selectively) people or vehicles**, and send trigger signals to various automations. (for instance a car approaching)



The signal can be received by a **Tuya controller (actuator)** that can **execute multiple automations** (for example open gates turn of sprinklers etc.)



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Built-in



Smart home systems **can even be used in traditional installations** by using built in controllers, to enable complete automations



KRC-200 series controllers (actuators) **can be built into the wall socket** behind the light switches. Connecting their inputs to the switch allows the user to control them with the mechanical switch while still working through the Tuya app and the kinetic switches



The system **can be expanded with kinetic switches** if needed. They can be easily moved and even mounted on glass if need



KRC-200 Controllers (actuators) **can be connected to any system (Cameras, alarms etc.) with a control signal**, integrating them into Tuya

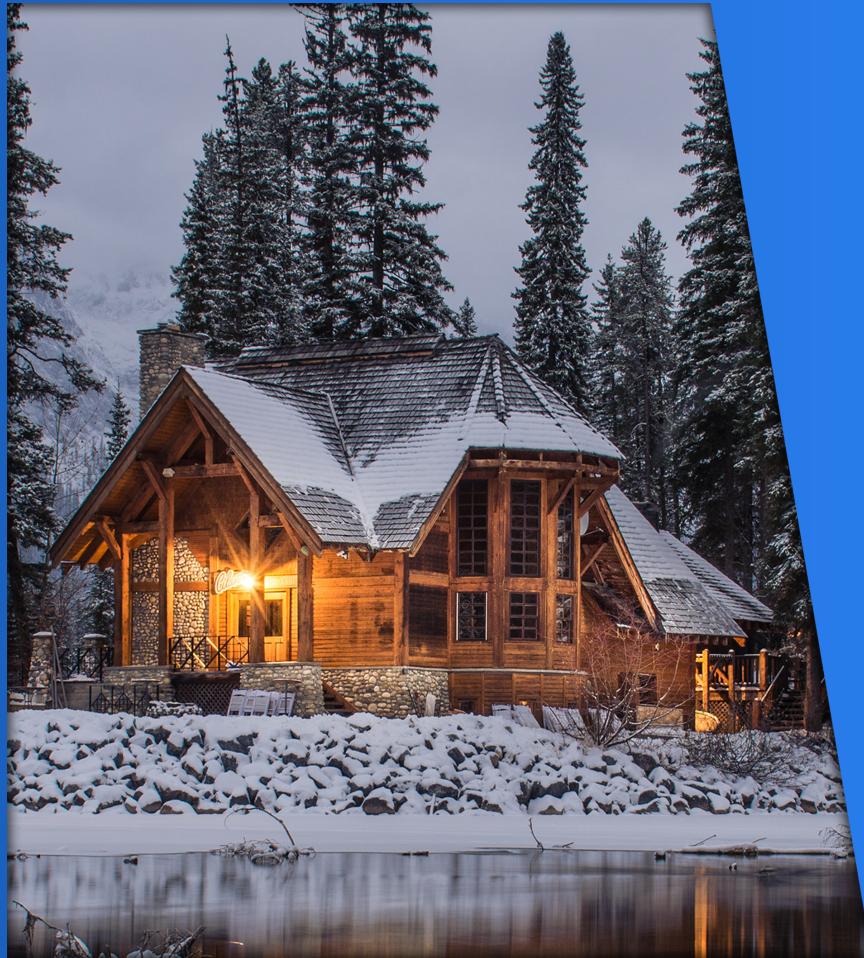


Controlers





Winter proofing



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of vacation homes



To **prevent freezing in vacation houses** during the winter connecting an electric heater to a Videosec wall plug with a built in thermostat is recommended.

If a door or window was left open the system turns the heating off and notifies the user. **Preventing energy waste.**

