

# Residential Solutions

Turn your house into a smart home.

2018/1 Edition



# Smart Home Advantages

## Convenience

From any location control your electrical devices simply and effectively.

Whether you are in bed or in the office, convenient control over your home is only a button press away.

## Comfort

Let your home take care of you with intelligent scenes and sequences.

From opening the curtains in the morning and turning the coffee machine on, to dimming the lights and adjusting the temperature, automation makes your home work for you.



## Compatibility

Our system is compatible with almost every electrical device in your home, as well as 3rd party automation products.

This adaptability guarantees that our system can grow to meet your future needs.

## Safety

A home that's not secure is simply a house. With our extensive range of security solutions, your home can provide you with maximum peace of mind.

If the HDL system detects a threat, you and the emergency services can be alerted immediately.

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# Serious About Smart Buildings

**Our solutions are present in over 100 countries,  
and we have over 200 sales and service offices  
located worldwide.**

HDL automation solutions simplify and streamline the way you interact with your home.

With both wired and wireless systems available, whether you are upgrading your home or building your home, we have you covered.

From controlling all of your lights with a single touch, to using your iOS or Android device to check you locked the front door, HDL can help to make your life easier.

We know that no two homes are the same, that's why all of our solutions are fully customizable. This enables a truly personal smart home solution to be created which will work in harmony with you and your family to save time, energy, and effort.

HDL automation solutions are more than products, they're an investment in your future.



 Key HDL  
Distributors



## The Heart of a Smart Home

**From castles to cottages, and everything in between, HDL can unify building control so that you can create your ideal living space.**

Equally capable of controlling the devices and appliances in a single room, or an entire building, HDL makes your home work for you.

With a single touch you can dim the lights, turn on the television, adjust the thermostat, close the curtains, and lock your front door.

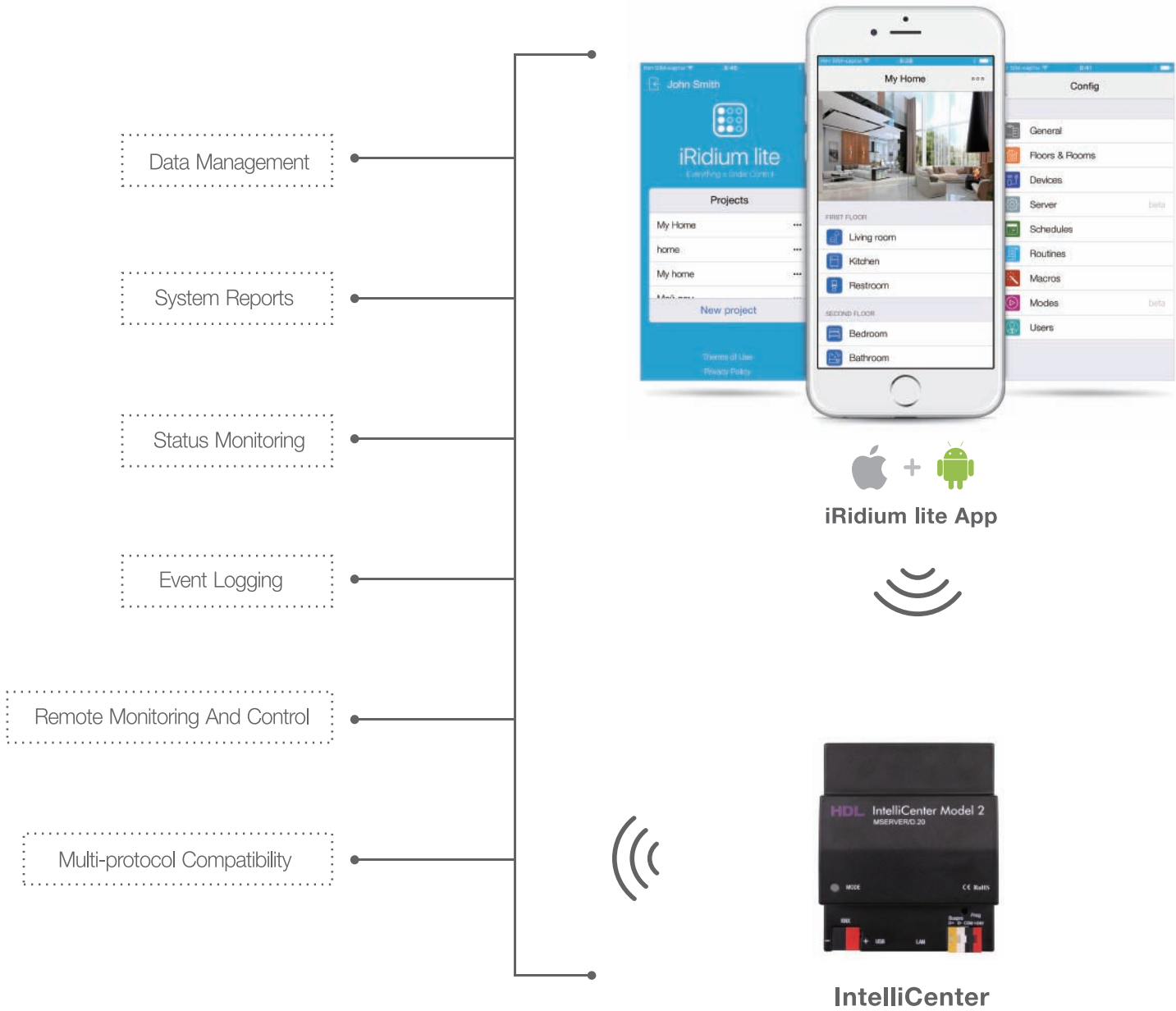
From voice commands, to smart sensor driven scene activation, HDL redefines how you interact with your home.





# Making Your Life Easier

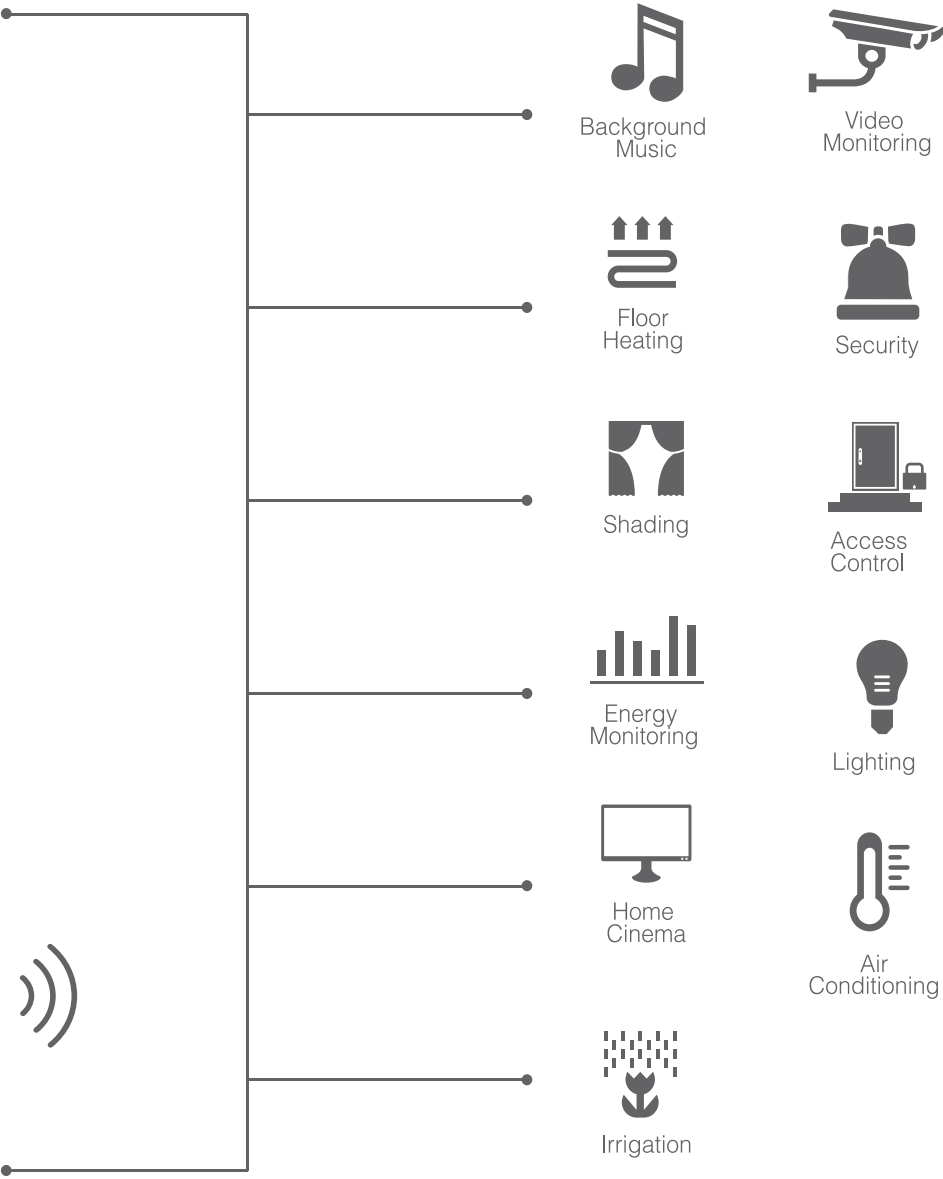
With the HDL IntelliCenter you can manage your household appliances effortlessly, keep track of energy usage, monitor security systems, and take control of your home from anywhere in the world.



With IntelliCenter you can easily create a complete automation solution, even if you have no prior experience.

Simply plug the HDL IntelliCenter in, connect it to the internet, and run the iRidium lite app on your iOS or Android device.

With this done, follow the on screen instructions to complete the configuration of your home's sensors and switches.





## Your Smart Housekeeper

### Remote Control

#### On holiday and forgot to turn the lights off?

With IntelliCenter you can check the status of your appliances, and turn them on or off from anywhere in the world.



### Scene Control

Create scenes which are able to activate groups of connected devices simultaneously.

Capable of controlling thousands of targets, the only limit is your imagination.



### Scheduled Activation

From opening your curtains in the morning, to turning off the power, a scheduled event can be programmed to take place at any time.



### Automatic Control

We thought carefully about how people experience their homes. Sometimes direct control is good, but a truly smart home should just know what to do.

That's why an automation solution from HDL can automatically activate or deactivate any automated element within your home.







## How Home Automation Can Help You

### Mobile Monitoring

Check up on your house while you're away, by using your Android or iOS device to watch live CCTV feeds, and monitor which systems and appliances are active.



### Real-time Notifications

Sometimes a quick response matters. That's why your HDL home automation system can be set to immediately notify an emergency contact if it detects a threat to your property.

With a txt message and app alert sent directly to your phone, wherever you are in the world you can rest easy knowing your home is in safe hands.



### Environmental Management

With HDL's extensive range of sensors, every aspect of your environment can be monitored.

From air quality and movement, to light intensity and temperature, your home can automatically maximize the comfort and security of each room.



### Unified Control

With centralized control over all devices and appliances, you can turn an individual light on or off, or turn all the lights in the house on or off, by pressing a single button.







**Safe**



Convenient



Comfortable



Energy Efficient



It's natural to protect what you hold dear, that's why HDL has developed a wide sensor range which enables you to turn your home into a castle.

The HDL presence, air quality, smoke, and gas detectors use the latest technology so you, your family, and your home are always kept safe and secure.



# Safe

Security is a concern for any homeowner, that's why HDL provides an extensive range of sensors and modules that can be integrated within your preexisting security system.



12 In 1 Sensor



8 In 1 Sensor



PIR Sensor



Air Quality  
Sensor

If you don't have a security system, don't worry. Because an automation solution relies on sensors, an automated building is able to create a comprehensive security net which covers the entirety of a home.

If your security net detects a threat, the system can be programmed to immediately sound an alarm, notify the emergency services, and send a message to your phone.



Ceiling Mounted PIR  
Sensor



Indoor Doppler  
Sensor



Temperature  
Sensor



Outdoor Doppler  
Sensor



Ceiling Mounted  
Ultrasonic Sensor



# Turn Your Home into a Castle



## Presence Simulation

Presence simulation replicates the normal lighting usage within a building. This makes it look like you're home, even when you're away.



## Surveillance

Real-time video from surveillance cameras can be streamed directly to your Android or iOS device anytime, and to anywhere on the planet.



## Door Locks

If you integrate a smart door lock into your automation system, when different entrance codes are input, different scenes can be triggered.



## Emergency Button

An emergency button can be installed into any location within a home. If pressed an alarm will be triggered, and designated contacts alerted via text message.



## Gas Detection

If the system detects a gas leak, the gas supply will be automatically deactivated.







## Smoke Detection

When a smoke detector is triggered, a voice alarm will be sounded and a txt message sent to all of the home's occupants.





- Safe 
- Convenient** 
- Comfortable 
- Energy Efficient 

Automation brings a home owner more than just security, it allows them unprecedented convenience.

Household appliances can be operated automatically, or remotely from any location, by simply touching a button.



## Convenient



## Centralized Control

The HDL home automation system is able to connect your appliances and home security system to multifunctional control panels, and home automation applications.

This enables centralized control over:



Security



Lighting



Cooling



Heating



Ventilation



Entertainment Devices



DLP Panel



HDL On App

## Scene Control

Through combining lighting and appliances into scenes, distinct ambiances can be effortlessly created.

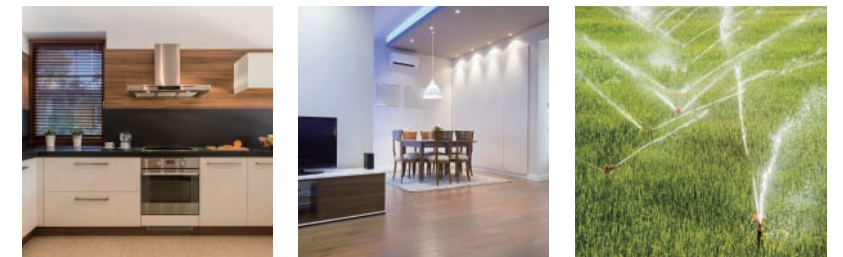
Perfect for parties, movies, dining, or just relaxation, scenes are able to be activated either automatically or manually via a wall mounted interface or control app.

## Automatic Control

As you open your front door the air conditioner automatically engages, the downstairs lighting turns on, your favorite song starts to play, and the coffee starts to brew.

With home automation your home begins to look after you, making your life simpler, easier, and more convenient.





## Scheduled Events

Timed events can be set which enable the system to carry out pre-specified tasks automatically.

Common targets for timed events are sprinklers, exterior lighting, underfloor heating, and the opening and closing of curtains and blinds.







Safe

Convenient

**Comfortable**

Energy Efficient









When a home automation system takes care of you,  
comfort and convenience becomes standard.

## Comfortable



### Lighting

With lighting automation you can instantly adjust your illumination to suit any situation or atmosphere.

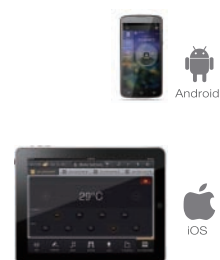
### Air Quality

Air quality sensors are connected to an automation system enabling any pollutants present to be measured.

If pollutants are detected, the ventilation system is automatically activated and the occupants notified.

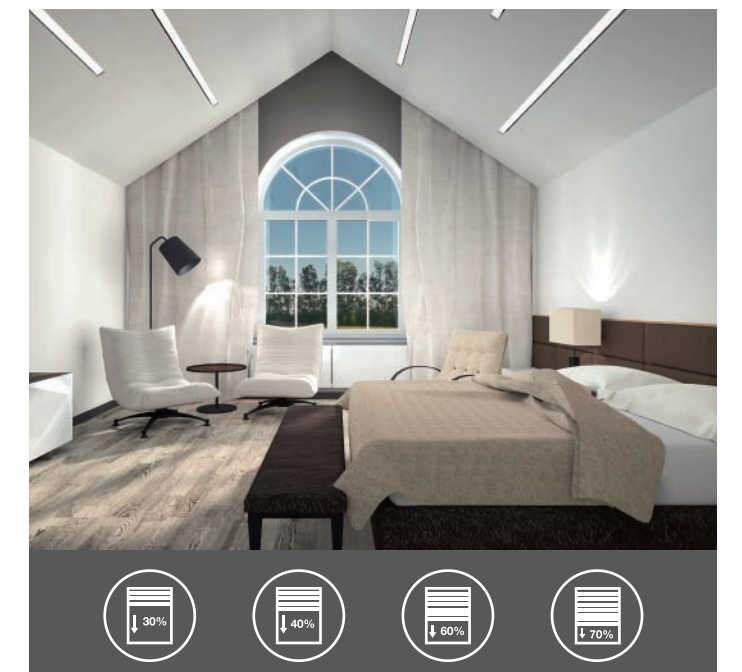
### Easy Control

Total control over a home has never been easier. With an automation solution from HDL you can manage all of your home's connected devices through intelligent switch panels, or your iOS and Android devices.







### Shading Control

Intelligent shading control creates a balance between natural and artificial light sources. This allows a home to maximize and harmonize its lighting effectively and efficiently.







- Safe 
- Convenient 
- Comfortable 
- Energy Efficient** 

With efficient automated utility management, every home regardless of size or age can see a dramatic reduction in energy consumption.

# Energy Efficiency

From forgetting to lower the thermostat when it's warmer, to leaving the lights on when you go out, energy inefficiency can affect all homes regardless of their size or age.

With HDL's unique software and hardware though, any home can effortlessly achieve maximum efficiency.



**When an average family home is automated, energy savings of at least 30% are common.**



## Lighting Control

If the system registers that a room is vacant, the lighting will be automatically deactivated.



## Timers

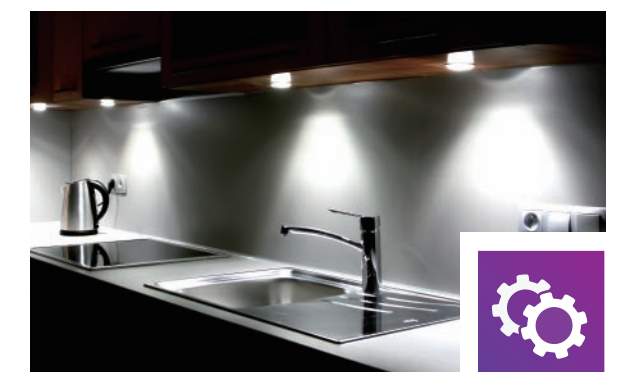
Events can be programmed to take place at set times by the user. This enables devices to be turned on and off with no external input.



## HVAC Control

With dynamic HVAC control, heating and cooling devices work with the external environment.

HVAC can also be disabled in individual rooms, or areas of the home that are used rarely.



## Logic Control

Thanks to built in logic, HDL automation solutions are truly smart.

This enables the system to activate devices and appliances when a presence is detected, and deactivate them when the area is vacated.




## What Makes a Smart Home Smart?








# Living Room


 A sensor network consisting of motion, humidity, illumination, air quality, smoke, and carbon monoxide detection.


Air Conditioner Control 

Lighting scenes and dimming sequences which are compatible with LED lamps, halogen spotlights, and fluorescents. 

 Home cinema with full HD TV control, DTV control, and Blu-ray/DVD control.

 Curtain and Blind Control

 Door Status Sensor

 Background Music Control

 Underfloor Heating Control









## Kitchen





## Bathroom

Lighting  
Control

Ventilation  
Control

Background  
Audio Control

Panic  
Button

Towel Rack Temperature  
Control

Air Conditioner  
Control

Underfloor  
Heating Control





## Garage





## Elegance and Efficiency Combined

With an extensive range of user interfaces, controllers, and sensors, HDL can create an automation solution which is custom built for you and your home.



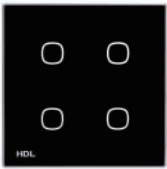


# Customizable Panels

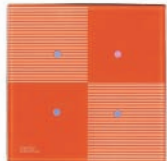
A home should be the place where the personality of its owner is truly expressed. To enable this every panel in our range can be completely customized with icons, materials, and colors of your choosing.



	DLP	Enviro Panel	DLP Switch US
Working power:	DC 12-30V	DC 12-30V	DC 12-30V
Installation:	Wall	Wall	Wall
Dimensions:	86×116.5×10.5 (mm)	86×116.5×10.5 (mm) (Standard) 96×126.5×10.5 (mm) (Grande)	86×116.5×10.5 (mm)



	iTouch Panels	iElegance Series Panel	iFlex Series Panel
Working power:	DC 12-30V	DC 12-30V	DC 12-30V
Installation:	Wall	Wall	Wall
Dimensions:	86×86×10.5(mm)	86×86×23(mm)	86×86×10.5(mm)





# Sensors

Sensors form the eyes and ears of a home automation system. With the ability to detect light intensity, movement, temperature, humidity, and air quality the HDL sensor range empowers your home to look after you.



Air Quality Sensor

Temperature & Humidity Sensor

**Power Supply:** DC 15-30V  
**Installation:** Ceiling  
**Dimensions:** 80(diameter)x32(mm)  
**Detects:** Light Intensity, Air Quality

**Power Supply:** DC 12-30V  
**Installation:** Ceiling  
**Dimensions:** 80(diameter)x32(mm)  
**Detects:** Light Intensity, Humidity, Temperature



7 IN 1 Sensor

12 in 1 Sensor

8 IN 1 Sensor

**Power Supply:** DC 18-30V  
**Installation:** Ceiling  
**Dimensions:** 84mm(diameter)x37.5mm  
**Detects:** Light Intensity, Temperature, Movement

**Power Supply:** DC 12-30V  
**Installation:** Ceiling  
**Dimensions:** 110(diameter)x33(mm)  
**Detects:** Movement, Temperature, Light Intensity

**Power Supply:** DC 18-30V  
**Installation:** Ceiling  
**Dimensions:** 84mm(diameter)x37.5mm  
**Detects:** Light Intensity, Movement



Ceiling Mounted PIR Sensor



Ceiling Mounted Ultrasonic Sensor

Power Supply:	DC 18-30V
Installation:	Ceiling
Dimensions:	63x46.6(mm)
Detects:	Light Intensity, Movement

Power Supply:	DC 12-30V
Installation:	Ceiling
Dimensions:	63x38(mm)
Detects:	Movement, Light Intensity



Outdoor Doppler Sensor



Indoor Doppler Sensor

Power Supply:	DC 12-30V
Installation:	Screw fixationl
Dimensions:	126x78x42 (mm)
Detects:	Humidity, Temperature, Movement, Light Intensity

Power Supply:	DC 12-30V
Installation:	Screw fixation
Dimensions:	84.5(diameter)x32(mm)
Detects:	Light Intensity, Humidity, Temperature, Movement

# Cutting Edge Control



HDL can automate practically every electrical device and appliance within a home.

This functionality can then be managed via an iOS or Android app, enabling both touch and voice control.

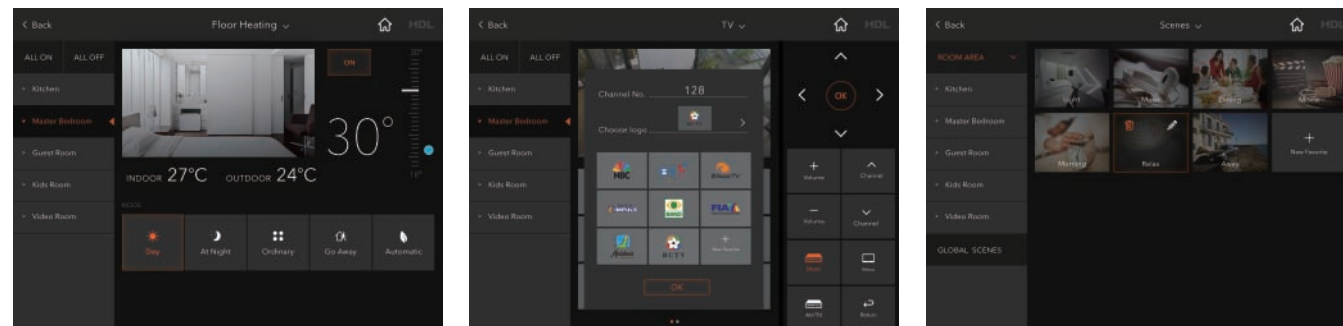




## HDL On App

The HDL On app was developed in house, to provide Android and iOS users dedicated control over their HDL Buspro or HDL KNX system.

With customizable backgrounds, icons, multi-language support, and an easy to use menu the On app makes total building control completely intuitive.



HDL On app for ipad

**Take control of your homes appliances, lighting, heating, ventilation, background audio, and connected devices from anywhere in the world via your iOS or Android device.**



HDL Control App

## DemoPad HDL Control App

Working in partnership with HDL, DemoPad created the HDL Control app. Designed specifically for iOS users, the app enables HDL automation solutions to be configured and managed by professionals and novices alike.

With online cloud backup, and the ability to work with no data connection, the HDL Control app by DemoPad lets anyone create personalized designs and customized control commands.

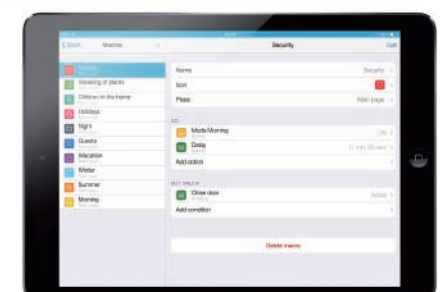
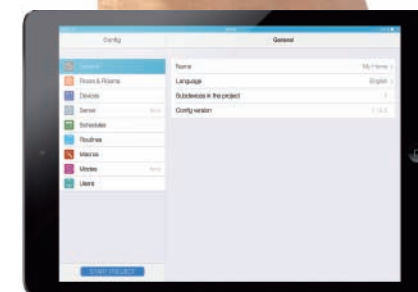
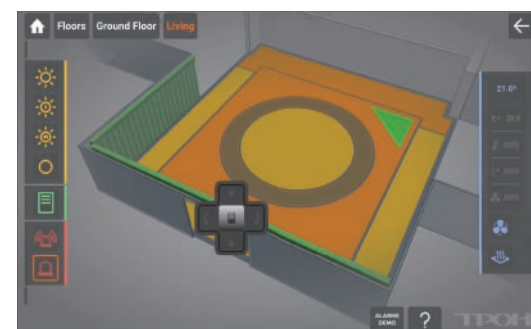




## THRONE 3D Control Platform

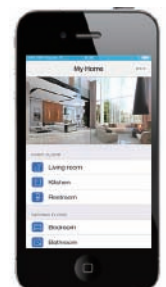
The THRONE app is available for both iOS & Android devices, and has been specifically developed to provide an intuitive 3D building control interface. Using a 3D model, users can control their lighting, HVAC, security, and a whole host of connected appliances with ease.

With the ability to control automation solutions from different brands, the THRONE app unifies and simplifies building control.



## iRidium

iRidium is a software package which creates unique interfaces to control HDL Buspro, Wireless, KNX and A/V equipment from any mobile device based on iOS, Android, OS X, or Windows.





## Case Studies

On the following pages, find out about some of the latest HDL installations from around the world.





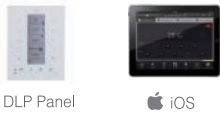
# Townhouse

Five-bedroom Townhouse, Fulham, London

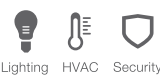
Making a house secure is the primary concern of any home owner. When the owners of this London town house approached HDL, they requested that we enable the five bedroom property to 'look after itself' when they were on vacation.

As the home is vacant for six months every year, the installation was focused towards remote monitoring and control of lighting, heating, and security cameras. In the event movement is detected while the owners are away from home, they will be immediately notified via sms messages and HDL On APP notifications.

Control:



Automated:



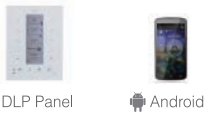
# Assisted Home

Ground Floor Apartment, Venice, Italy

Control over a home is essential for all, but for those with disabilities it can be especially challenging. This Italian apartment was designed to allow its disabled owner complete control over their environment.

With low set DLP panels, panic buttons within easy reach, and automatic shading, the owner has created a home which is specifically tailored to meet their needs.

Control:



Automated:





## Designer Home

### Modern family home, Quito, Mexico

Modern design and modern technology go hand in hand, that's why the designer of this stunning Mexican home chose to incorporate automation solutions into every room .

To enable truly reliable monitoring and control from anywhere in the world, the owners requested that a GSM communication module be installed. This ensures that even if the wired phone/internet connection is disabled, they can still manage every aspect of their automated home.

#### Control:



DLP Panel



Apple iOS

#### Automated:



Lighting



HVAC



Security



Background Audio



Shading



## Energy Efficient Home

### Passive House, Oslo, Norway

Passive houses are among some of the most energy efficient living spaces ever constructed. Lying at the heart of this incredible energy efficiency is a combination of innovative design and technology.

The forward thinking owners chose to make their installation fully future-proof by including additional access ports, and an expanded wiring harness.

#### Control:



DLP Panel



Android

#### Automated:



Lighting



HVAC



Security



Shading





# Smart Apartment

## Retrofitted apartment, Tel Aviv, Israel

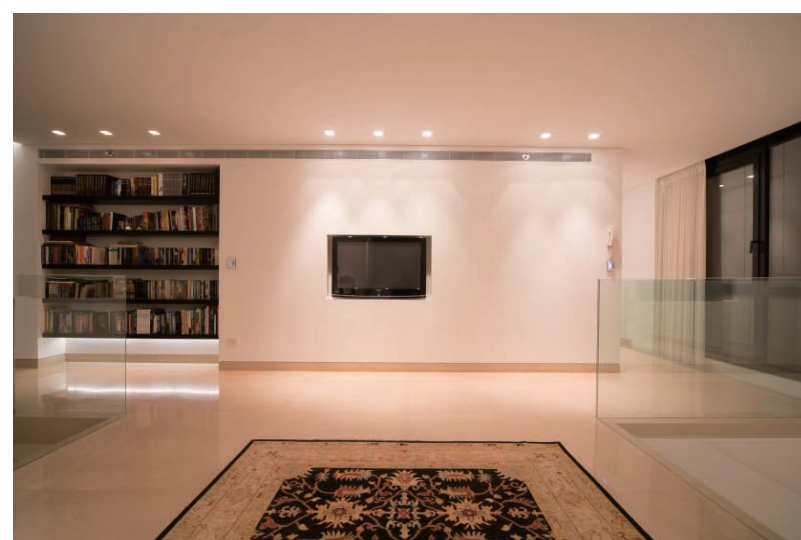
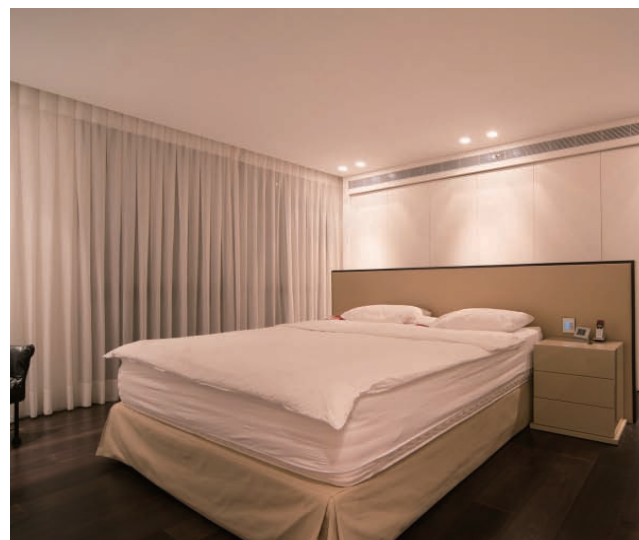
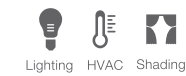
Maintaining a comfortable temperature in your home can be challenging. If you live in an area with a highly seasonal climate, this challenge can become not only labor intensive but costly.

That's why the owners of this Tel Aviv apartment requested that HDL focus on providing them with optimized HVAC and shading control. Through a complex array of temperature sensors and light sensors, this apartment is ready for the heights of summer and the depths of winter.

### Control:



### Automated:



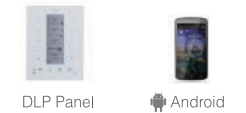
# Luxury Apartment

## Smart apartment, Sao Palo, Brazil

What is luxury? Opinions differ, but in the mind of this Sao Palo apartment owner it's comfort, convenience, and security.

To create their perfect living environment, the owner requested that HDL automate their apartment's lighting, HVAC, shading, and home cinema system. Now by simply pressing a single button the television will turn on, the lighting be dimmed, the curtains automatically drawn, and the set top box tuned to the movie channel.

### Control:



### Automated:

