

Residential Solutions

Turn your house into a smart home

2016/1 Edition



Benefits of A Smart Home

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

By making your home look after you, and not you look after your home, you can sit back and relax.

From opening the curtains in the morning and brewing a cup of coffee, to turning off lights and adjusting the temperature, your home has you covered.

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 be safeguarded against all threats.

If the HDL security net detects a threat, you and the emergency services can be informed immediately.

Contents

Company Profile	01-02	
The Heart Of A Smart Home	01	
Making your life easier	03-04	
Your smart housekeeper	05-06	
How home automation can help you	07-08	
	09-10	
Safe	02	
11-12	13-14	
Safe	15-16	
Turn your home into a castle		
Convenient	03	
17-18	19-20	
Convenient	21-22	
Voice control/Remote control & Monitoring	23-24	
Timed events		
Comfortable	04	
25-26	27-28	
Comfortable		
Energy Efficient	05	
29-30	31-32	
Energy efficient		
What Makes A Smart Home Smart?	06	
33-34	35-36	
Living Room	37-38	
Bedroom	39-40	
Kitchen	41-42	
Bathroom	43-44	
Garage		
Elegance And Efficiency Combined	07	
45-46	47-48	
Customizable panels	49-50	
Sensors	51-52	
Sensors/State of the art control	53-54	
iLife app/DemoPad HDL control app	55-56	
THRONE 3D control platform/iRidium		
Case Studies	08	
57-58	59-60	
Townhouse/Assisted home	61-62	
Designer home/Energy efficient home	63-64	
Smart apartment/Luxury apartment		

Serious About Smart Buildings

Our solutions are present in over 150 countries, and we have over 200 sales and service offices located worldwide.



A HDL automation installation simplifies, and streamlines, the way you interact with your home.

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

From turning all your lights off with a single touch, to using your iOS or Android device to check that you locked the front door, a HDL smart home works 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 gives you a truly personalized experience that will work in harmony with you and your family to save time, energy, and effort.

A HDL automation solution is more than a product, it's an investment in the future.



The Heart Of A Smart Home

Almost every electrical device and system in your home can be automated,

Managed via a smart device or DLP panel, centralized or autonomous control has never been so easy.

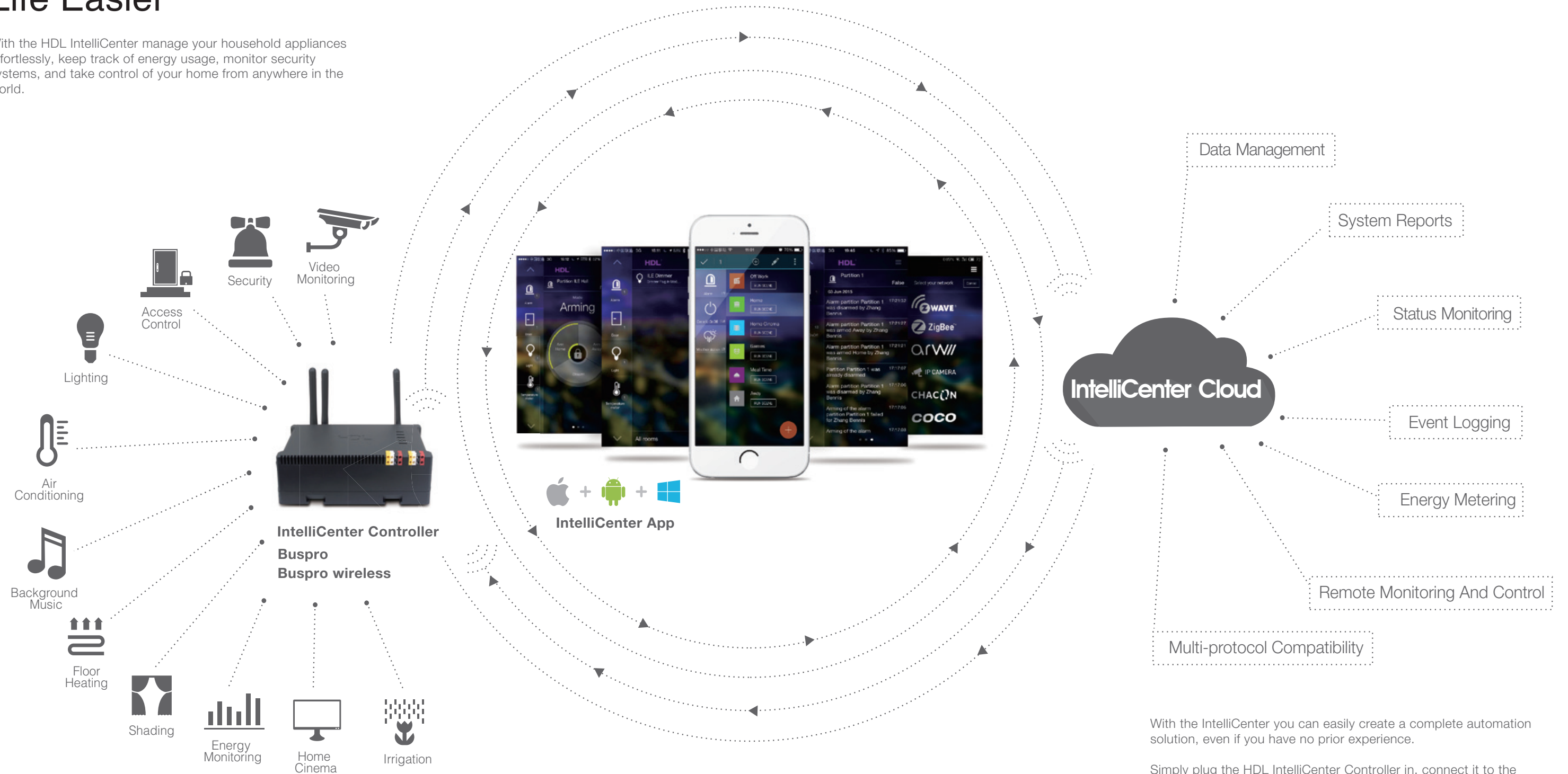
This provides you with improved convenience, comfort, and energy efficiency.

Think of a HDL home automation system as a unseen housekeeper, who's always there to give you a helping hand.



Making Your Life Easier

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

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

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



Your Smart Housekeeper

Remote Control

On holiday and forgot to turn the lights off?

Or perhaps you left the TV on?

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



Scenes

Take full control of all your connected appliances and systems, by creating scenes that are able to automatically manage the atmosphere and environment.



Schedule

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



Future Proof

The future is uncertain, but what is certain is that your HDL IntelliCenter will be there for you. If you decide to move to a new house, just unplug your IntelliCenter, and take it with you.



Want to upgrade?

Simply allow the system to install the regularly released software updates.



How Home Automation Can Help You

Mobile Monitoring

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



Intelligent Interaction

With intelligent interaction, notifications can be sent to you in real time.

If for instance your front door is left open, a message will immediately be sent to your phone.

This real time notification is also bidirectional, enabling you to issue voice or SMS commands to the system.



Taking Care Of You

Automation solutions are capable of monitoring all of your homes environmental conditions.

A homes air quality can even be monitored remotely via an iOS or Android device, ensuring that wherever you are, you can rest easy.



Control All Devices Using A Single Interface

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



Even if you don't have a preexisting system, 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.



12 In 1 Sensor



8 In 1 Sensor



PIR Sensor



GAS Sensor



Temperature Sensor



Doppler Sensor



Ultrasound Sensor

Turn Your Home Into A Castle



Presence Simulation

Presence simulation replicates the normal lighting usage patterns of an owner, this makes it look like you're home, even when you're away.



Surveillance

Real-time images from surveillance cameras can be streamed directly to a user's 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. If a door was opened by a user under duress, an emergency code can be entered which would trigger the 'emergency scene'.



Emergency Button

An emergency button, can be installed in any location in a home.

If pressed an alarm will be triggered, and predesignated people will be contacted via text message.



Gas Detection





If the system detects a gas leak, the gas supply will be automatically deactivated, and the owner immediately notified.



Smoke Detection

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



- Safe 
- Convenient** 
- Comfortable 
- Energy Efficient 

Home automation brings a user 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



iLife App

Scene Control

With scene control, lighting and appliances can work in combination to create distinct ambiances.

Scenes can be made that perfectly suit the atmospheres needed for parties, movies, relaxation, and dining.

These scenes can be activated automatically, or with a simple press of a button, from either a DLP panel or the iLife 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.



Remote Control & Monitoring

Working in conjunction with the automation system, the iLife app enables remote control, appliance control, and security system management.



From anywhere in the world, simply pick up your Android or iOS device and launch the iLife app to manage your automation solutions, connected appliances, and security systems.

Voice Control

Via the iLife app your home can be completely voice controlled.

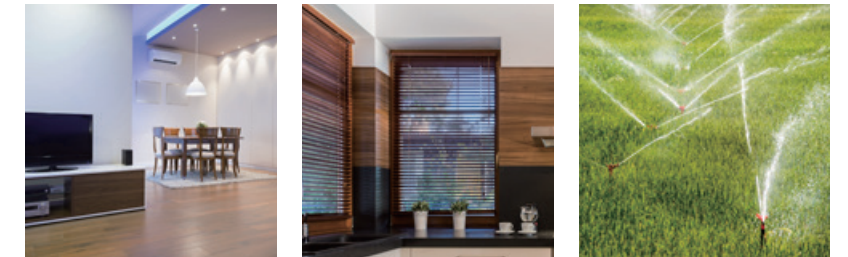
By sending a voice command, lights can be turned on or off, the temperature set, blinds and shutters opened and closed, and all appliances managed.



iLife App



The iLife application can be installed on all Android and iOS devices.



Timed 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.



**If it has to happen regularly,
a timed event is the easiest
way to do it.**



- Safe 
- Convenient 
- Comfortable** 
- Energy Efficient 

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

Comfortable



Mood Lighting

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

One of the most common settings is 'mood', where the lighting drops to a cozy 35%.



Easy Control

Total control over a home has never been easier. With a HDL solution, you can manage every electrical appliance and feature of your home through intelligent switch panels, or your iOS and Android devices.



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.

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 the unique range of HDL software and hardware though, any home can effortlessly achieve maximum efficiency.



Lighting Control

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



Timers

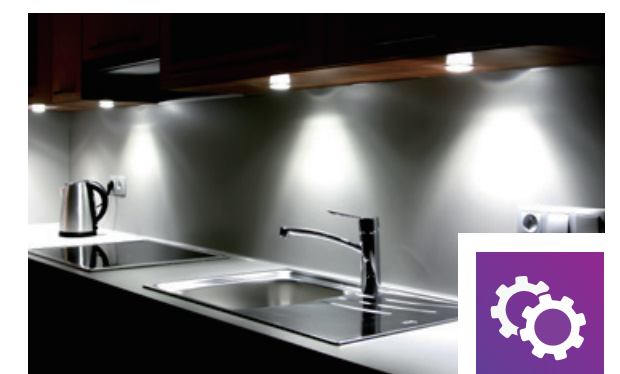
Events can be programmed to be activated at set times by the user, this enables devices to be activated and deactivated with no external input.



HVAC Control

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

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



Logic Control

With built in logic units, 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.



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

What Makes A Smart Home Smart?



Living Room



Air conditioner control

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

Lighting scenes and dimming compatible with LED lamps, halogen spotlights, and fluorescents

IP Intercom

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

Curtain and blind control

Background music control

Door status sensor


Underfloor heating control


Bedroom

Lighting control 


Air conditioner control 

Air quality and smoke detection 

Automated shading 

Background audio control 

HD TV control 

Media streaming from set-top box 

Panic button 

Underfloor heating control 



Kitchen



Heat and smoke detection

Air conditioner control

Carbon monoxide, methane, and isobutene detection

Ventilation control

Power socket control

Background audio control

Compatible with smart kitchen appliances

Bathroom



Lighting control

Ventilation control

Background audio control

Panic button


Towel rack temperature control


Air conditioner control


Underfloor heating control


Garage

CCTV monitoring 

Automatic lighting 


Garage door control 

Carbon monoxide and carbon dioxide detection 

PIR presence detection 

Ventilation control 



Assisted parking 



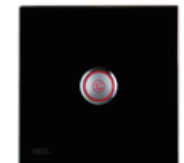
Elegance And Efficiency Combined

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 an individual 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

iSense Series Panel

Working power:
Installation:
Dimensions:

DC 12-30V
Wall
86x116.5x10.5 (mm)

DC 12-30V
Wall
86x116.5x10.5 (mm) (Standard)
96x126.5x10.5 (mm) (Grande)

DC 12-30V
Wall
86x86x10.5(mm)



DLP Switch EU

iTouch Panels

iElegance Series Panel

iFlex Series Panel

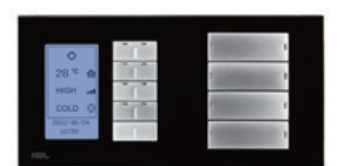
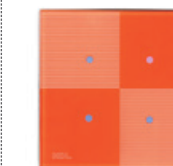
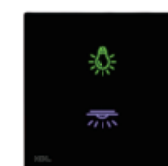
Working power:
Installation:
Dimensions:

DC 12-30V
Wall
86x86x10.5(mm)

DC 12-30V
Wall
86x86x10.5(mm)

DC 12-30V
Wall
86x86x10.5(mm)

DC 12-30V
Wall
86x86x10.5(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 12-30V
Installation: Ceiling
Dimensions: 80(diameter)x32(mm)
Functions: Brightness sensor, air quality sensor, dry contact sensor

Power Supply: DC 12-30V
Installation: Ceiling
Dimensions: 80(diameter)x32(mm)
Functions: Brightness sensor, temperature sensor, humidity sensor, dry contact sensor



7 IN 1 Sensor



12 in 1 Sensor



8 IN 1 Sensor

Power Supply: DC 18-30V
Installation: Ceiling
Dimensions: 84mm(diameter)x37.5mm
Functions: PIR sensor, brightness sensor, dry contact sensor, temperature sensor

Power Supply: DC 15-30V
Installation: Ceiling
Dimensions: 110(diameter)x35(mm)
Functions: Temperature sensor, brightness sensor, PIR sensor, ultrasonic sensor, dry contact sensor, IR transceiver, Universal Switch, 2Channel Relay

Power Supply: DC 18-30V
Installation: Ceiling
Dimensions: 84mm(diameter)x37.5mm
Functions: PIR sensor, LUX sensor, IR transceiver, dry contact sensor, temperature sensor



Ceiling Mounted PIR Sensor



Ceiling Mounted Ultrasonic Sensor

Power Supply: DC 18-30V
Installation: Ceiling
Dimensions: 63x63x46.6(mm)
Functions: Brightness sensor, PIR sensor, universal switch

Power Supply: DC 18-30V
Installation: Ceiling
Dimensions: 63x63x38(mm)
Functions: Brightness sensor, ultrasonic sensor, universal switch



Outdoor Doppler Sensor



Indoor Doppler Sensor



Ultrasonic & PIR Sensor

Power Supply: DC 12-30V
Installation: Wall
Dimensions: 126x78x42 (mm)
Functions: Brightness sensor, Doppler sensor, humidity sensor, temperature sensor, dry contact sensor, universal switch

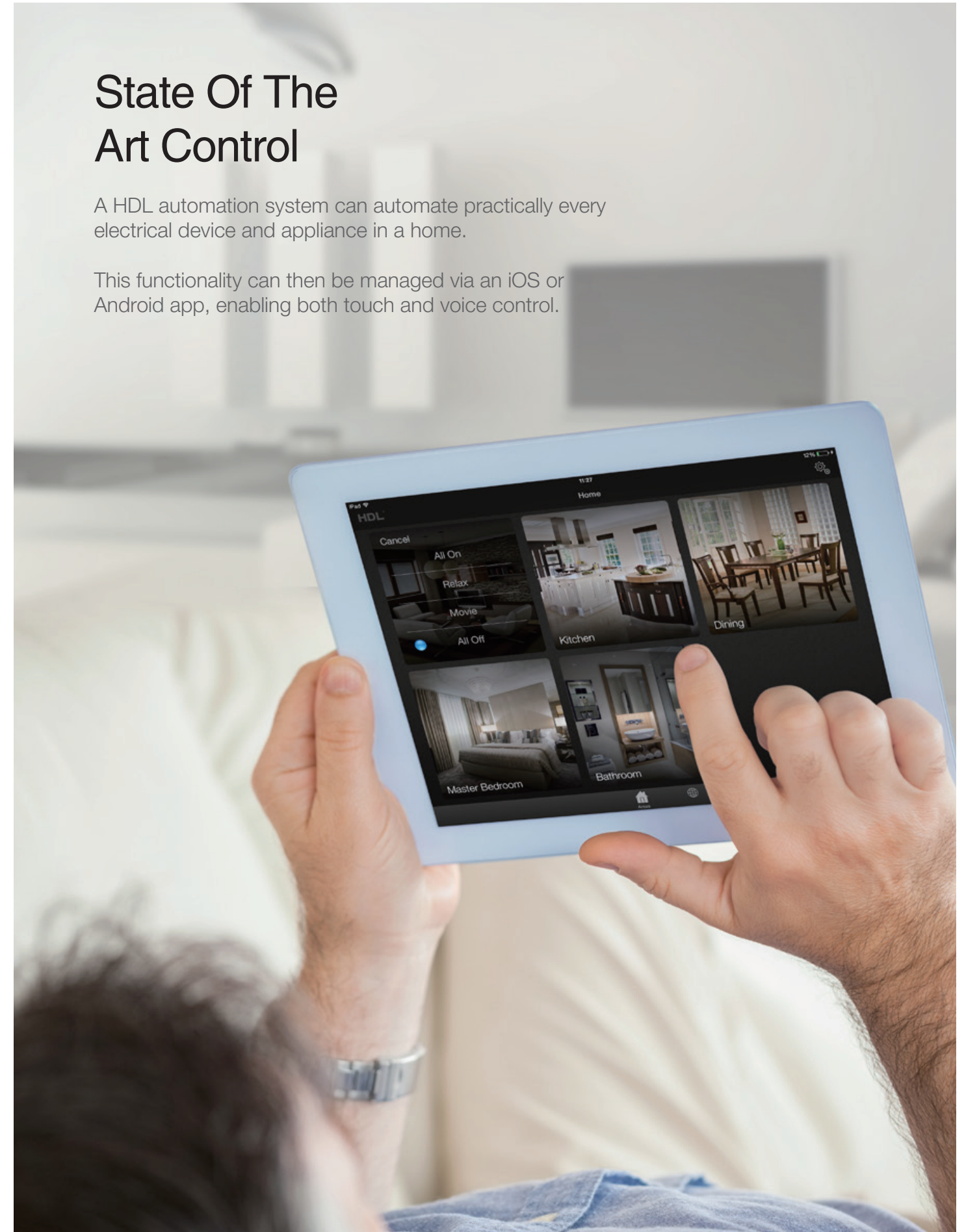
Power Supply: DC 12-30V
Installation: Ceiling
Dimensions: 84.5(diameter)x32(mm)
Functions: Brightness sensor, Doppler sensor, humidity sensor, temperature sensor, dry contact sensor, universal switch

Power Supply: DC 15-30V
Installation: Wall
Dimensions: 86X86X31(mm)
Functions: Temperature sensor, PIR sensor, LUX sensor, ultrasonic sensor, universal switch

State Of The Art Control

A HDL automation system can automate practically every electrical device and appliance in a home.

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



iLife App

The HDL iLife 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 iLife app makes total building control totally intuitive.

So simple it can be used and understood by every member of the family, why not download iLife from your app store today.



iLife 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.

With the iLife app, wherever you are, you will always be in control.



iLife app for smartphones



HDL Control App

DemoPad HDL Control App

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

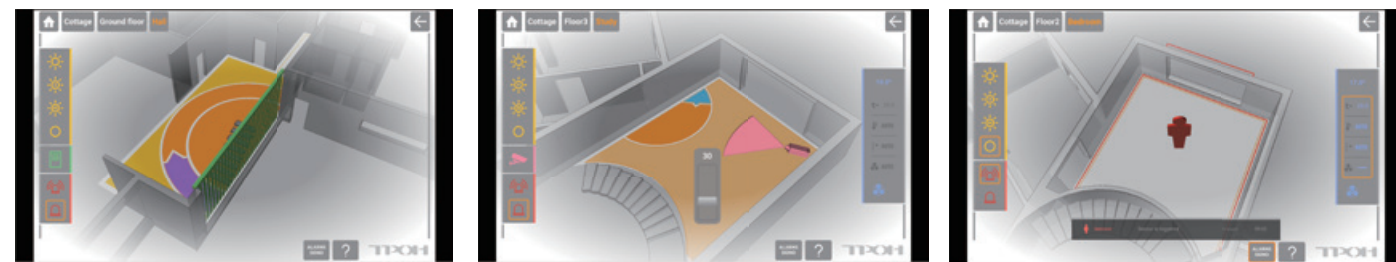
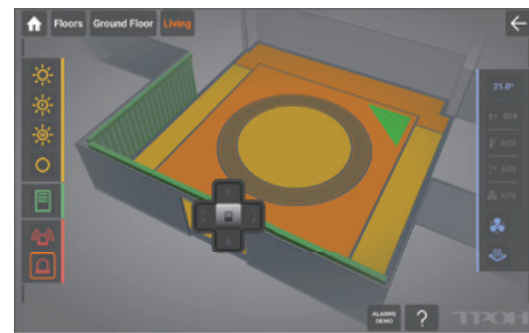
With online cloud backup, and the ability to work with no data connection, the HDL Control app by DemoPad lets anyone create personalized designs and customized control commands.



THRONE 3D Control Platform

The THRONE app is available for both iOS and 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 our latest case studies.

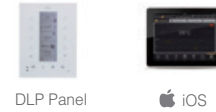
Townhouse

Five-bedroom Townhouse, Fulham, London

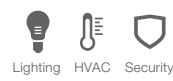
In London space is at a premium, and a townhouse represents the height of city living. The owners of this townhouse in Fulham wanted to make their home the pinnacle of sophistication, by enabling it to 'look after itself'.

As the owners are often absent for extended periods, they also requested that HDL install a CCTV capable of streaming footage to their Android and iOS devices.

Control:



Automated:



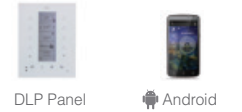
Assisted Home

Ground Floor Apartment, Venice, Italy

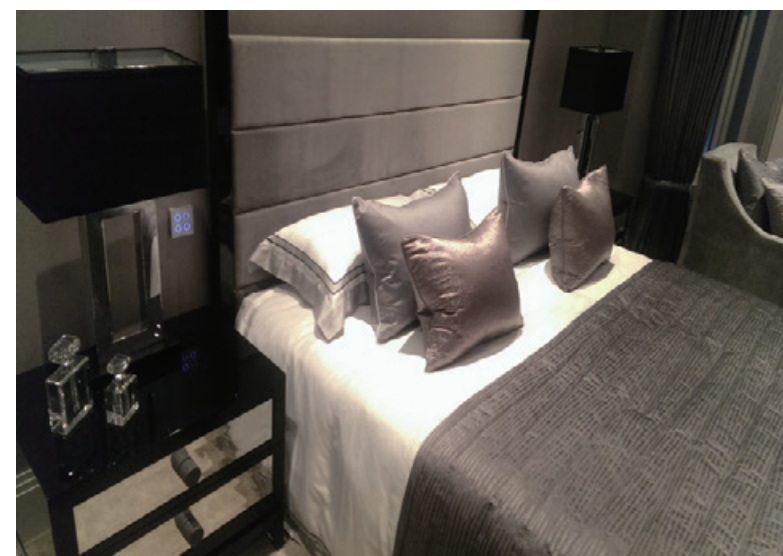
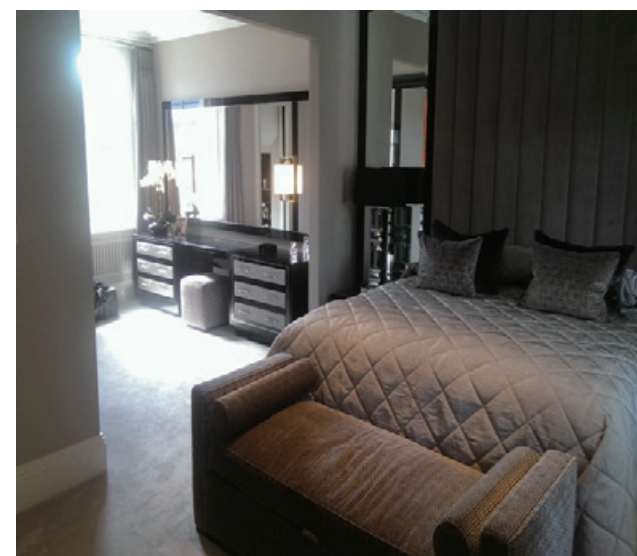
Control over a home is essential for all, but for those with disabilities it can be especially challenging. This Italian apartment was designed to allow its disabled owner complete control over their environment.

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:



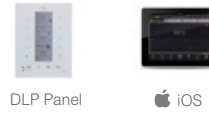
Designer Home

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 true remote monitoring and control the owners requested that a GSM communication module be installed, in the event the wired phone connection was disabled.

Control:



Automated:



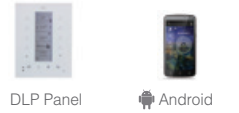
Energy Efficient Home

Passive House, Oslo, Norway

Passive houses are by definition 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:



Automated:



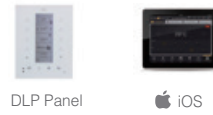
Smart Apartment

Retrofitted apartment, Tel Aviv, Israel

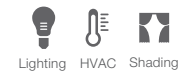
Maintaining a comfortable temperature in any Middle Eastern country can be challenging. With high daytime temperatures, and low nighttime temperatures, home owners need a management system which is actively intelligent.

The owners of this retrofitted apartment turned to HDL to provide them with a system which could measure both the internal and external temperatures enabling the HVAC system to be adjusted accordingly.

Control:



Automated:



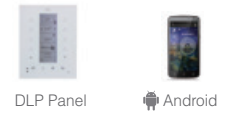
Luxury Apartment

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.

With the automation of the home cinema system, the owner is able to simply walk into the house and have the television immediately switch on to a preselected channel. If they then leave the living room for over 10 minutes, the home cinema system is deactivated.

Control:



Automated:

