



CONNECTED HOME PROJECT

West Side House

Li Xiao
Project Lead

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Introduction

The connected home project is our demonstration of current available home automation technologies integrated to function as one intelligent system. In this project our team set out to explore the possibilities and issues with the technologies we were provided.

Our Team

Project Lead (DSC)	Li Xiao
Smart Lighting System	Brandon Chiau Ren Leung
Security Cameras	Shaun Wynne
Connected Home Furnace HVAC Simulation	Gordon Halleran Sam Rastkar
Door Locks and Door Bells	Mahmood Ahmad
Electrical Consumption and Dashboard Monitoring System	Zachary Vankempen
Integrated VERA Smart Home Gateway	Jeffrey Leung

Scope of Work

Systems to be Installed	Status
1. Security Alarm	
a. 1x Wired DSC 1832 Alarm Panel	Completed
b. 4x Motion Sensors (Foyer, Kitchen, Basement, 2 nd Floor)	Completed
c. 4x Keypads (no partitions) but each keypad supports a motion sensor power and zone	Completed
d. 1x Front Door (Delay Zone)	Completed
e. 4 x Windows and Door Contacts (including door)	Completed
f. Any alarm condition will dial predetermined phone number using Magic Jack	Completed
g. Network connectivity via the Vera	Completed
2. Smart Lighting System	
a. Insteon lighting switches and devices will be used to demonstrate <ul style="list-style-type: none"> i. Control of an exterior LED or CFL ii. Control of an interior LED or CFL iii. On/OFF and Dimming of an interior light (LED, CFL or Incandescent) 	Completed
b. Lights will be controlled via a web-browser, phone or tablet	Completed
c. Lights will be monitored and controlled via the VERA	Device Incompatible
d. Lights will be integrated to work with other home technologies, for example when the alarm is armed for away the outside light will turn on during the exit period and interior lights will be turned off (or on)	Completed
e. Other lighting technologies will be researched and evaluated as required	Equipment N/A
3. Security Cameras	
a. Install and configure 4 Foscam IP Cameras	Completed
b. Install the Foscam 24/7 DVR software on a PC to monitor any activity around the House	Completed
c. Send email notifications when motion is detected (one camera only)	Completed
d. Access the cameras remotely using a web-browser, smart phone/tablet	Completed
e. Set up 1 camera using DDNS	Completed
4. Connected Home Furnace HVAC Simulation	
a. Install a NEST Thermostat and demonstrate remote connectivity	Completed
b. Build a fan/damper system to emulate a furnace controlled by a thermostat	Completed
c. Control a Z-Wave heat register to work with the NEST and VERA	Completed
d. Design/Test IoT devices that can be integrated with the connected furnace	Completed

5. Door Locks and Video Door Bells	
a. Install and configure a Z-Wave door lock	Equipment N/A
b. Integrate the door lock with the VERA	Equipment N/A
c. Install and demonstrate the features of the RING Video Door Bell	Completed
d. Install and demonstrate the features of the TELEPORT Video Door Bell	Completed
6. Electrical Consumption and Dashboard Monitoring System	
a. Design and build an energy monitoring system that can log all the power consumed at the House.	Completed
b. Research and integrate the SafePlug with the monitoring system	Completed
c. Integrate the dash board with the VERA	Device Incompatible
7. Integrated VERA Smart Home Gateway	
a. Integrate the featured technologies with the VERA	Completed
b. Demonstrate the Connected Home	Incomplete

Security Alarm

By: Li Xiao

a. **DSC PC1832 v4.6 NA Installation Guide:**

<http://cms.dsc.com/download.php?t=1&id=17007>

b. **DSC Alarm Features:**

- 8 on-board zones
- Expandable to 32 hardwire zones and 32 wireless zones
- 2 PGM outputs: Expandable to 14
- Connect up to 8 supervised keypads with keypad zones
- Template programming
- 4 partitions
- 500-event buffer
- 72 user codes
- Account code error checking
- Alternate communications via GPRS and IP
- 2-way audio

c. **Programmed Parameters**

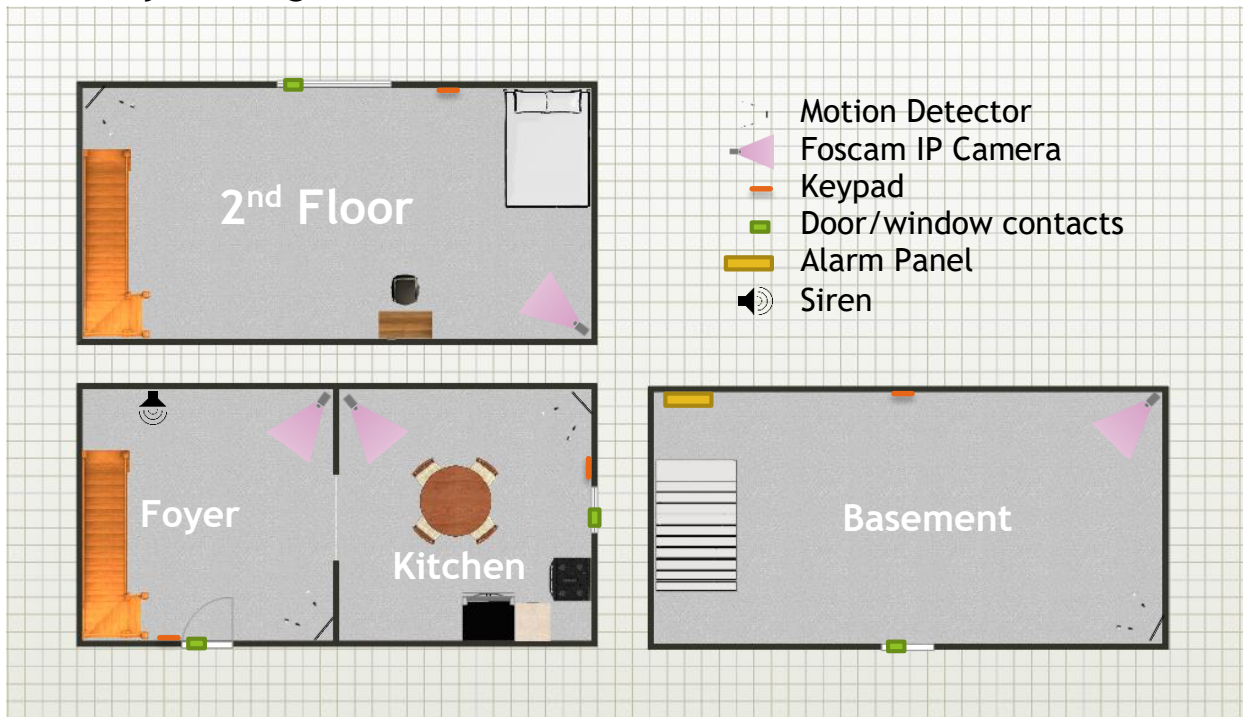
Master Code: 1234

Zone Setup		
Zone	Location	Zone Definition
01	Front Door	Delay 1
02	Kitchen Window	Instant
03	Basement Window	Instant
04	2 nd Floor Window	Instant
05	Foyer Motion Detector	Interior Stay/Away
06	Kitchen Motion Detector	Interior Stay/Away
07	Basement Motion Detector	Interior Stay/Away
08	Phone Line Monitoring	24-Hr Bell/Buzzer
09	2 nd Floor Motion Detector	Interior Stay/Away
PGM 1	Front Door Light	Courtesy Pulse (2 mins)

Delay Times	
Entry Delay 1	10 seconds
Entry Delay 2	10 seconds
Exit Delay	10 seconds

Monitoring Station Reporting Codes	
Pager Code	Description
61	Front Door Breached
62	Kitchen Window Breached
63	Basement Window Breached
64	2 nd Floor Window Breached
65	Foyer Motion Detected
66	Kitchen Motion Detected
67	Basement Motion Detector
68	Phone Line Tampered
69	2 nd Floor Motion Detector
11	Fire
22	Auxiliary
33	Panic

d. Layout Diagram



e. IT100 PowerSeries Integration Module

The IT-100 integration module provides an Application Programming Interface (API) to allow third-party applications to communicate with PowerSeries control panels and form fully integrated control solutions. When programming the module, there are two types of commands available:

- Commands sent by third-party applications to the IT-100.
- Event-driven or state-change commands that the IT-100 sends to third-party applications.

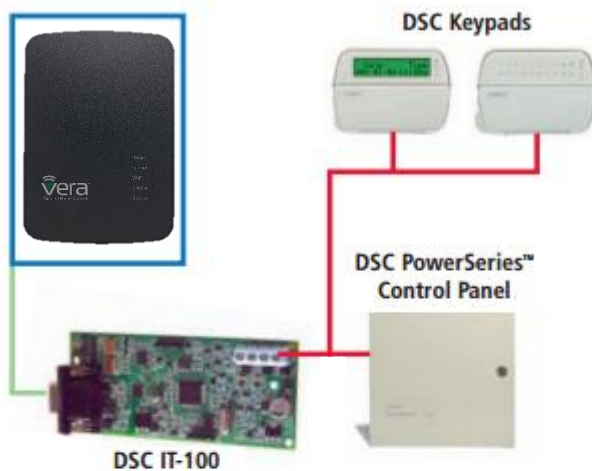
Once programmed, the module can be used to create custom interfaces for users or for the integration of building systems, such as CCTV, with PowerSeries security systems.

Features:

- Compatible with all PowerSeries control panels
- Bi-directional RS-232 interface
- Real-time zone status
- 4-wire hook-up to KEYBUS
- Enables third parties to perform virtual keypad functions

Installation manual: <http://cms.dsc.com/download.php?t=1&id=12293>

System Layout:



how to use your DSC Security System - Full Video

<https://www.youtube.com/watch?v=fR6lu3uIWpk>

f. Magic Jack Information: <http://www.magicjack.com/>



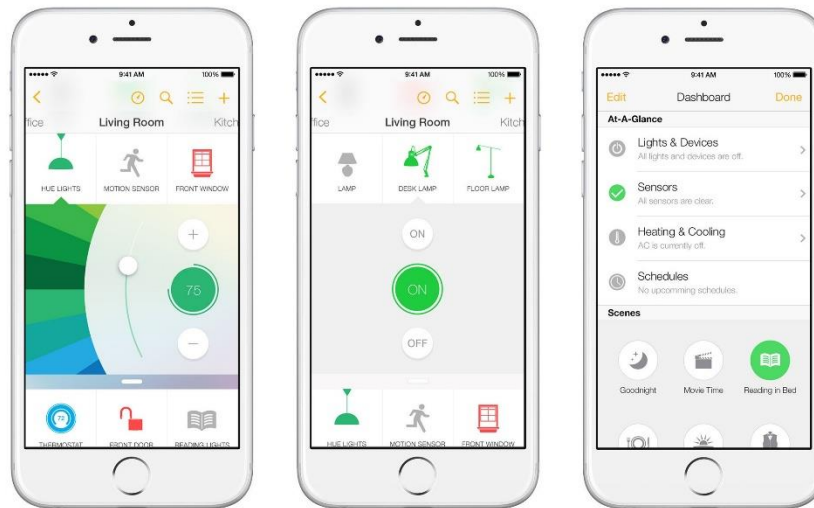
The magic jack is a VOIP home phone solution that replaces your home phone jack with a small and compact USB stick that has an Ethernet and phone port built in. It offers a phone plan that significantly lower in prices than competitors at \$35 a year and you get the first year free from buying the Magic Jack. The phone plan includes the regular features as major phone companies ex. Call forwarding, voicemail, call waiting, caller ID. Since the magic jack is a USB stick you can take it anywhere with an internet connection, a phone and/or a USB from a computer/wall adapter. Magic jack has a desktop application that will install when you plug it in the USB port this way you can still make phone calls from a PC.

Smart Lighting System

By: Brandon Chiau, Ren Leung

Insteon Apps

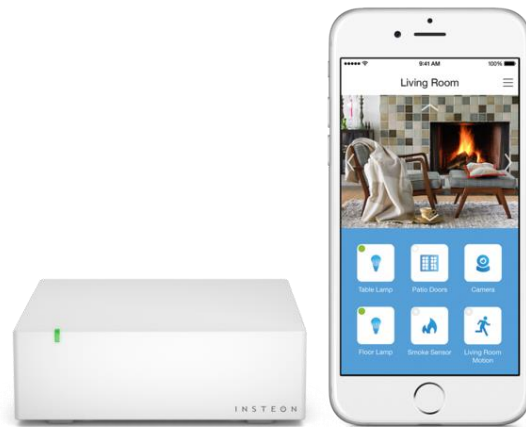
The Insteon app can be downloaded through the app store in IOS, Android, and Windows platforms. Insteon can also be accessed through browsers and be used without any complications. Through the Insteon app you're able to control all Insteon products including wall switches, IP cameras, motion sensors, etc. With the app you would also receive any push notifications if any of the products were to be disconnected or something that you should be notified, ie. Motion sensors.



Insteon Products

Insteon Hub

The Insteon hub is the easy solution to how everything can be operated through a single app, all Insteon products connect to the hub with industry standard secured encrypted communication to prevent any unwanted users controlling its products. The Insteon hub is connected by ID located on the bottom of the hub, it's able to connect to any Insteon products as well as compatible products from approved companies. Some products include IP Cameras, Light switches, Thermostats, etc. Features on the hub are bountiful the hub can push out email alerts as well as notifications to your phone through the Insteon app. From the app, you're able to control all Insteon products as well as monitor its products. Platforms in which this hub works with include IOS, Windows, Android, Linux (Browser).



Insteon Hub Specifications

General

Available Colors	White
Brand:	Insteon
FCC ID	SBP22452
Industry Canada	5202A-22452
Manufacturer Product No.:	2245-222
Patent No.:	Protected under US and Foreign Patents (see www.insteon.com/patents)
UPC:	813922013498
Warranty:	2 years, limited

Operation

Audio Alert	Beeper
Local Control	No
Setup Memory	Non-volatile EEPROM
Status LED	Red/Green LED

Insteon Features

Insteon Device Category	0x03
Insteon Device Subcategory	0x33
Insteon ID	1
Insteon Links	992
Insteon Messages Repeated	Yes
Insteon Minimum Receive Level	40 mV
Insteon Minimum Transmit Level	3.2 Vpp into 5 Ohms
Insteon Powerline Device	Yes
Insteon Powerline Frequency	131.65 KHz
Insteon RF Device	Yes
Maximum Controlled Scenes	256
Maximum Scene Memberships	992

Multi-Link Support	Yes
Multi-Unlink Support	Yes
RF Beacon	Yes
Radio Frequency	915 MHz
Radio Frequency Range	Up to 250 feet

Mechanical

Beep on Button Press	No
Dimensions	1.5" H x 3.75" W x 3.75" D 38mm H x 95mm W x 95mm D
Enclosure Material	UV stabilized plastic
Mounting	Tabletop or Wall Mount
Operating Environment	Indoors
Operating Humidity Range	0-90% relative humidity
Operating Temperature Range	32° to 104° F 0° to 40° C
Factory Reset Button	Yes
Storage Temperature Range	-4° to 158° F -20° to 70° C
Weight	5.2 oz

Electrical

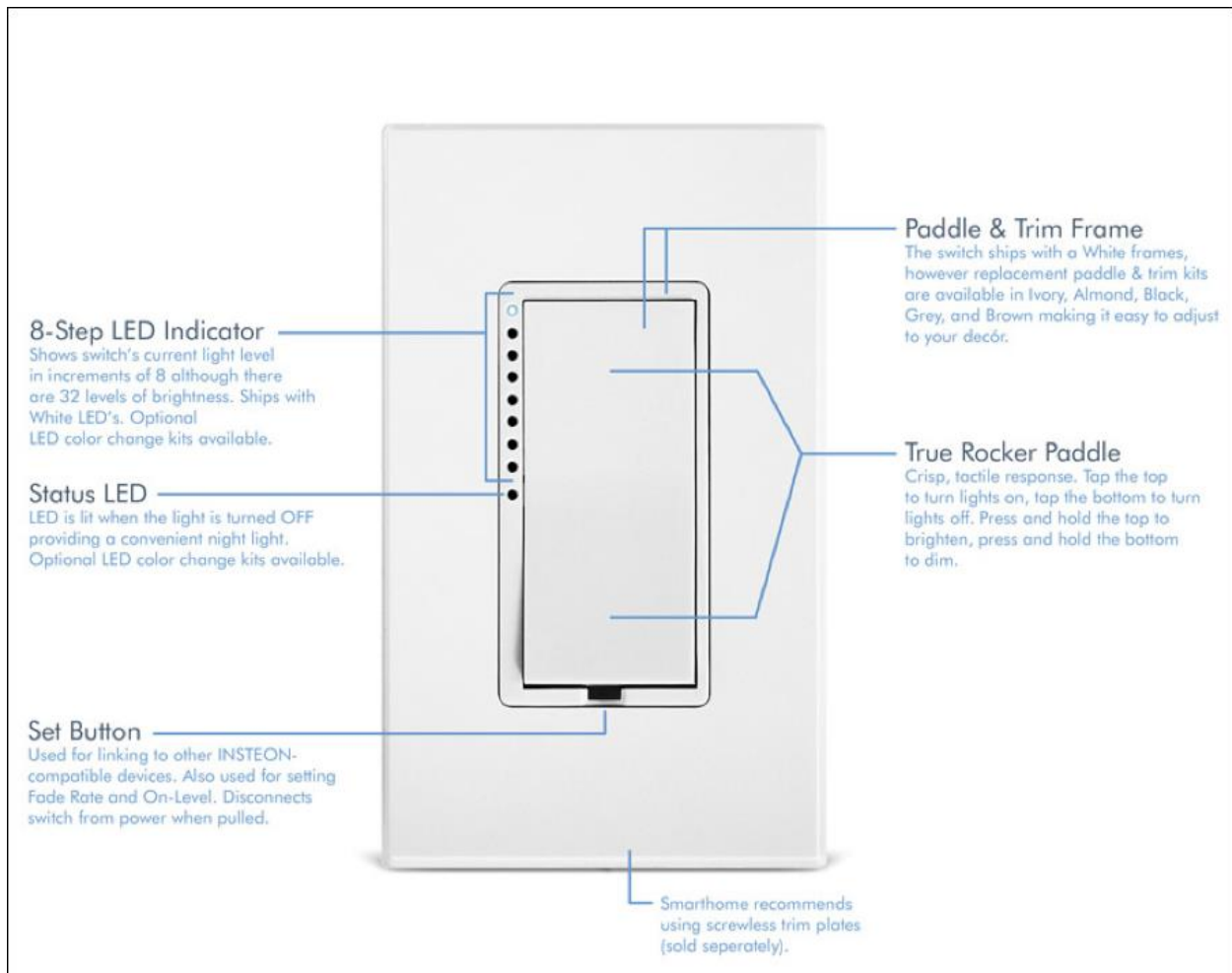
Power Consumption	2 Watts
Supply Voltage	120-277 Volts AC, 50/60 Hertz, single phase
Surge Resistance	Surges over 1000 volts
Power Connector	IEC C8
Certification	FCC ID Part 15B & 15C IC RSS-210 Intertek ETL

Insteon Wall Switch

The Insteon Wall Switch can be controlled wirelessly with the help of the Insteon hub. Features on the Switch include remote control, on/off or dimming, sense+, and swappable LED indicators. On the Insteon app you're able to control all aspects of the features as well as make schedules for automatically turning on and off your lights. Scenes are also able to be set to control each lighting source to be either on or off.

There are three main type of Insteon Wall Switches, the infinite dimmer switch (Provided), Anywhere Switch, and Consolidate Switch.

Infinite Dimmer Switch



Insteon Wall Switch Specifications

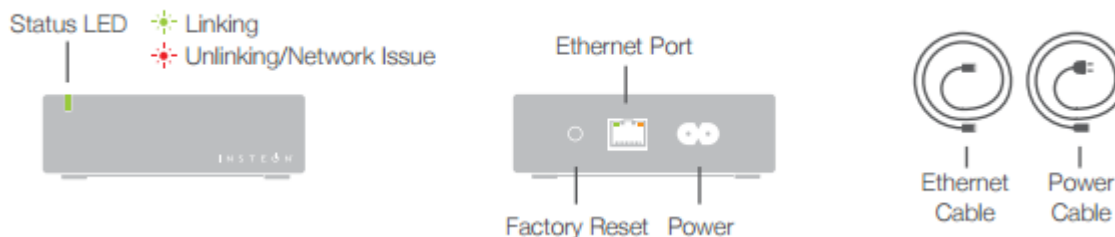
Specifications

General		
Product name	SwitchLinc 2-Wire Dimmer (RF) - INSTEON Remote Control Dimmer	
Brand / manufacturer	INSTEON	
Manufacturer product number	2474DWH	
UPC	813922010817	
Warranty	2 years, limited	
INSTEON		
INSTEON powerline mesh repeater	No	
INSTEON RF mesh repeater	Yes	
INSTEON controller	Yes	
INSTEON responder	Yes	
Maximum links / scenes	400	
Load brightness levels	32 locally (256 with software)	
LED	White when load is on, bottom white LED is on when load is off Blinks red when responder does not acknowledge (can be disabled via software). Blinks red or green during setup.	
LED brightness	Adjustable, from off to bright	
Local on-level	Adjustable, 32 fixed brightness levels or resume dim	
Local ramp-rate	Adjustable from 0.1 seconds to 9 seconds locally (0.1 seconds to 8 minutes via software)	
Local control	Yes	
Commands supported as controller	On	Off
	Fast-on	Fast-off
	Begin bright	Begin dim
	End bright	End dim
Commands supported as responder	On	Off
	Fast-on	Fast-off
	Begin bright	Begin dim
	End bright	End dim
	Incremental bright	Incremental dim
	Beep	
Software configurable	Yes	
RF range	Up to 100-feet open air	
Phase bridge detect beacon	No, INSTEON RF only device	
INSTEON device category	0x01 dimmable lighting control (all frequencies)	

INSTEON device subcategory	0x24
X10	
No X10 Support: INSTEON RF-only product	
Mechanical	
Mounting	Single gang electrical box
Wires	Black – line (16 gauge)
	Red – load (16 gauge)
	Copper – ground (16 gauge)
Color	White paddle (color change kits available), clear back case
Set button	1, clear
Air Gap	Yes (Set button pulled out)
Plastic	UV stabilized polycarbonate
Beeper	Yes
Beep on button press	Optional (off by default)
LEDs	9 white brightness LEDs, 1 green/red status LED
Dimensions	4.1" H x 1.8" W x 1.2" D
Weight	3.6oz
Operating environment	Indoors
Operating temperature range	32° to 104° F (0° to 40° C)
Operating humidity range	0-90% relative humidity
Storage temperature range	-4° to 158° F (-20° to 70° C)
Electrical	
Voltage	120VAC ±10%, split single phase
Frequency	60Hz
Load type(s)	Wired-in incandescent lighting
Maximum load	600 watts
Minimum load	25 watts
User replaceable fuse	No
Hardwired remote control	No
Retains all settings without power	Yes, saved in non-volatile EEPROM
Standby power consumption	< 1 watt
Certifications	FCC, IC Canada
FCC ID	SBP2474DWH
Safety approval(s)	ETL (Intertek Testing Services)

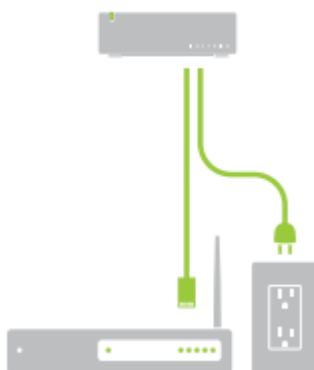
User Manual: Insteon

Device Overview



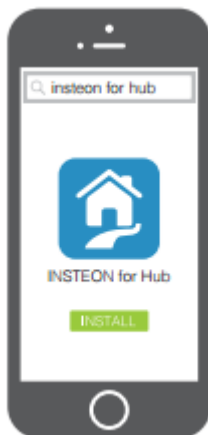
Installation

Connect your Hub to the internet and a power outlet using the cables provided.



Download the App

From your mobile device, download and install **Insteon for Hub** from your device's app store.



Create an Account

Launch the App and follow the on-screen instructions to create an account and setup the Insteon Hub.

App User Manual

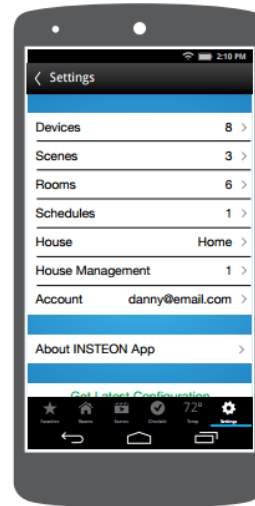
Favorites

A customizable screen where you can place your most used devices, scenes, and sensors.



Settings

Your one-stop-shop for Hub and Insteon account settings and configuration.



Rooms

Lets you group devices into rooms for easier navigation. Also the location for All Devices which displays every device added to your house.



Controlling a device

Controlling a device such as a light switch is simple. Tap either On or Off to switch the light, also an additional (+) symbol is to further control the device.



Turn a device on or off, regardless of brightness



Quickly adjust the brightness

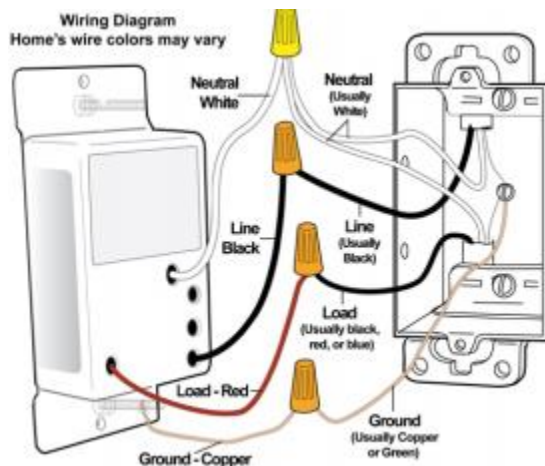


Tap the arrows to adjust in 10%-ish increments

Insteon Light Switch Installation

Insteon light switch just like any other switch but with the able to be control wirelessly through the Insteon app. Installation of the light is simple and easy follow the step as shown in the figure below.

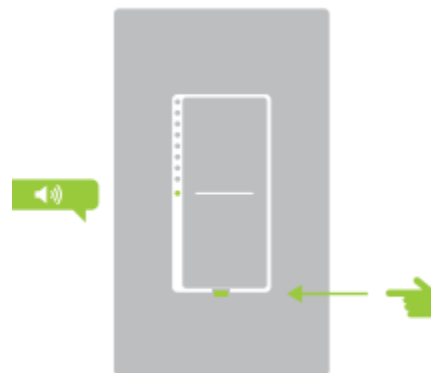
1. Connect the power in to the red load line on the switch
2. Connect the black line from the switch to the power line going into the light build
3. Connect all the neutral (white) wire together
4. Lastly ground the copper wire



Once all wire are connected test to see if wiring are connect properly. If so download the Insteon app onto your phone to set up wireless control. To sync light switch with the app, navigate through to add device and chose which type of device you're adding, in this case you would pick light switch.



Once the app is searching for device go to the light switch and hold down the set button located at the bottom of the light switch until the switch beeps. With this the switch is now sync up with the app and ready to be control wirelessly through the phone.



Security Cameras

Foscam FI8904W Summary by: Shaun Wynne

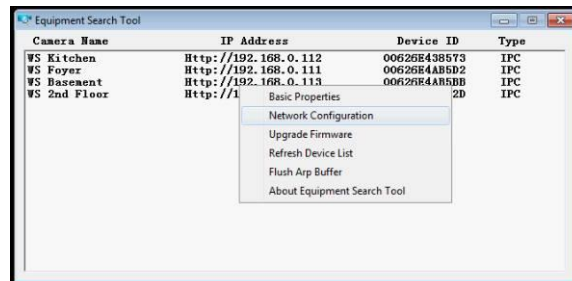


The Foscam FI8904W is a 640 x 480 wireless IP camera which sports a water/weatherproof housing which makes the camera a great choice for outdoor use. It comes equipped with remote internet viewing, motion detection, email notification, night vision, and built in network recording functionality. The night vision feature of this camera relies on 24 IR LEDs which gives the camera's night vision a range of up to 20 meters. The FI8904W is also compatible with most smartphones on the market today with apps available for iPhone, Android, and Blackberry. The camera also supports all standard browsers such as Internet Explorer, Google Chrome, and Safari. Foscam boasts that it has an easy to use GUI. A CD containing the camera management software

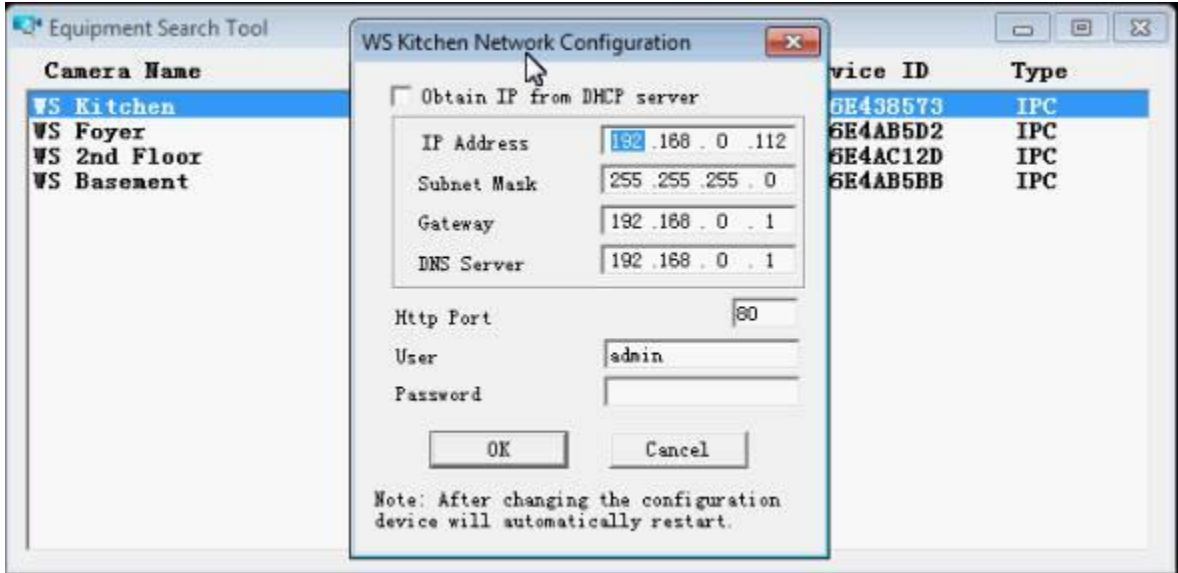
is provided but if for some reason you do not have one you can also download the software from the Foscam site. <http://www.foscam.com> For full camera specifications please scroll to end of article.

Foscam Install Instructions

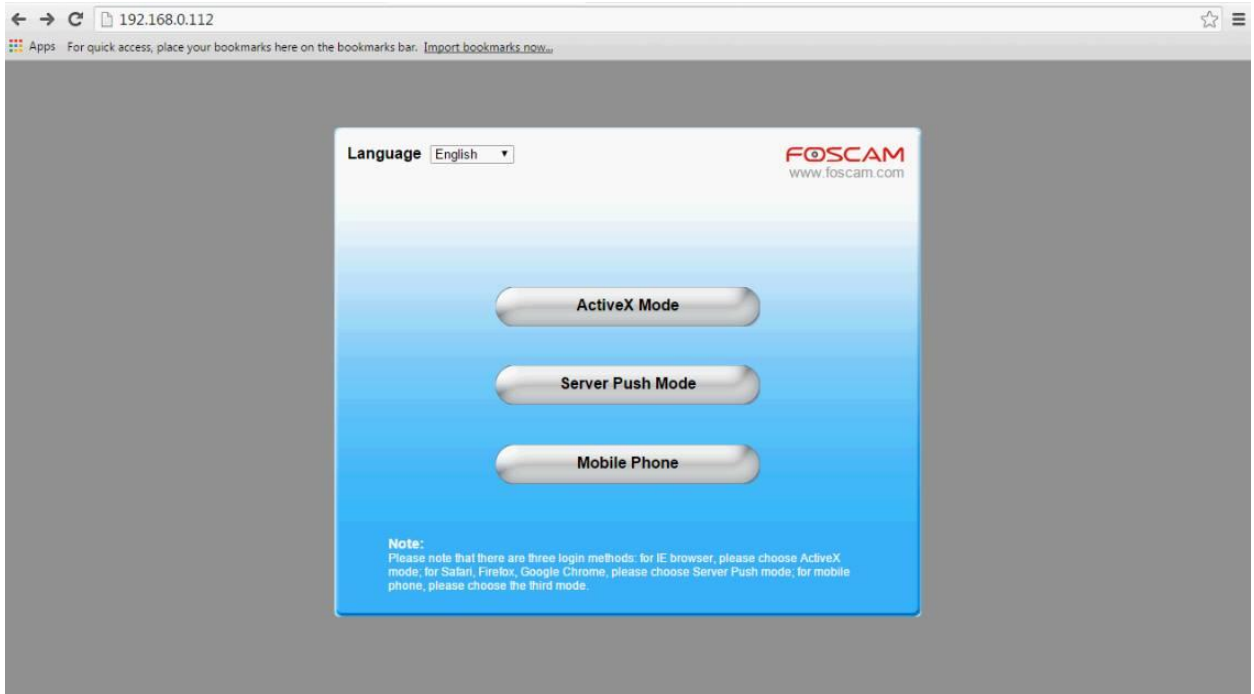
1. Install camera mounts in a position of your choosing. Once position is confirmed attach camera to mounts.
2. Attach an Ethernet cable to the camera and the other into a switch or router on your network.
3. Plug the AC wall adapter in to provide the camera with power.
4. Now go to the Foscam website and download the IP Camera Tool software.
5. After installing the IP Camera Tool software open it and you should see all of your cameras listed as in the picture below.



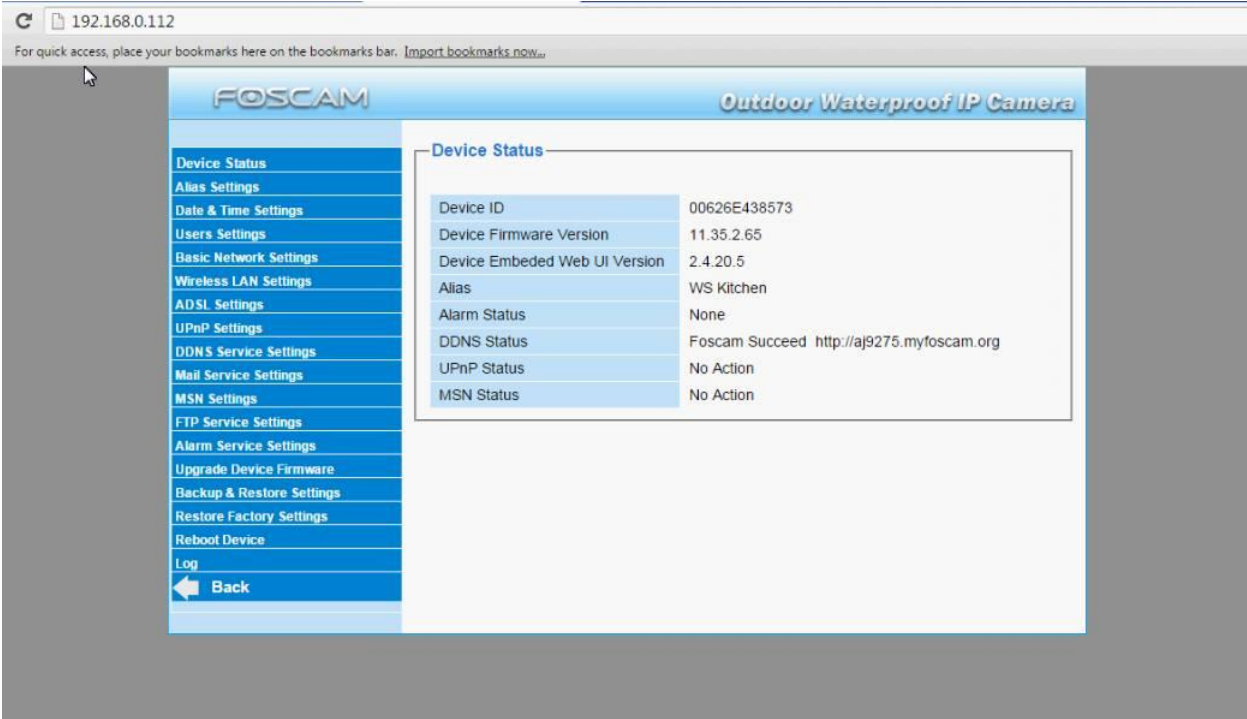
- Right click on your camera's address and choose configuration. This is where you can assign a static address to your camera as in the picture below.



- Double click on the address that corresponds with your camera. And you will be prompted for a login. The default username is admin. Leave the password field blank unless you have already created your own password for it.
- Based on what internet browser you are using you will select either Active X Mode (Internet Explorer), Server Push Mode (Firefox or Chrome) or Mobile Phone.



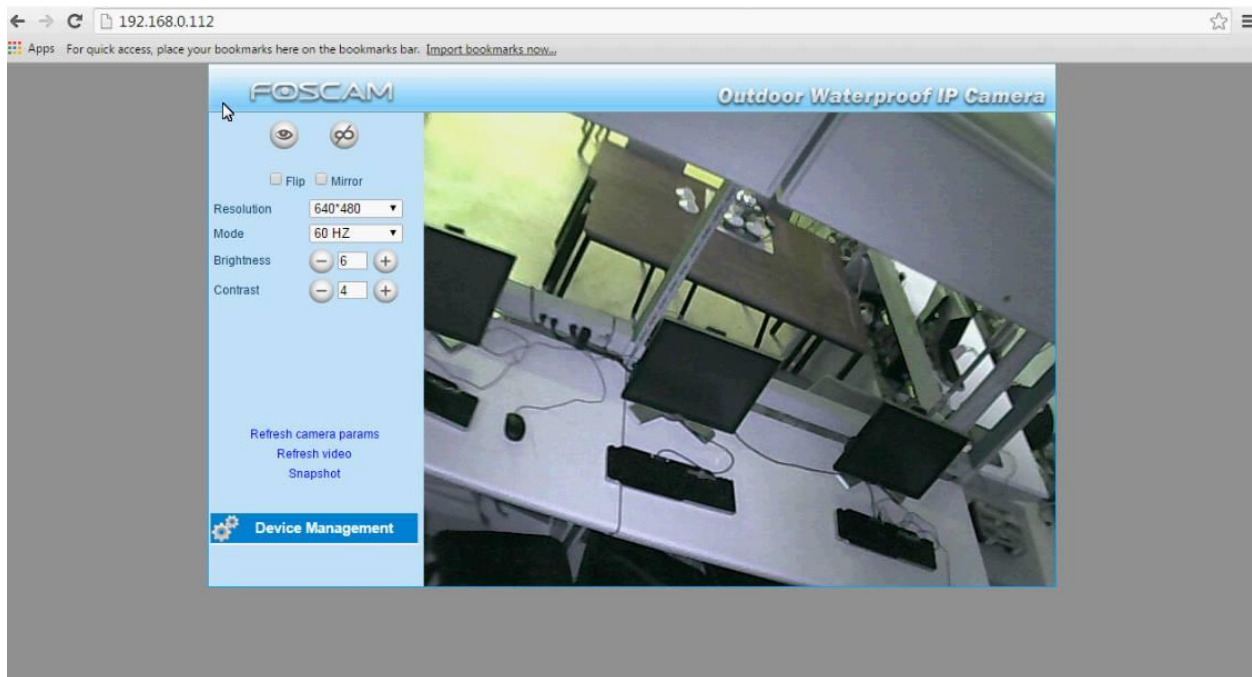
10. From here you may view and fully configure your Foscam security cameras.



11. To setup email notifications click on Mail Service Settings and enter your email settings.



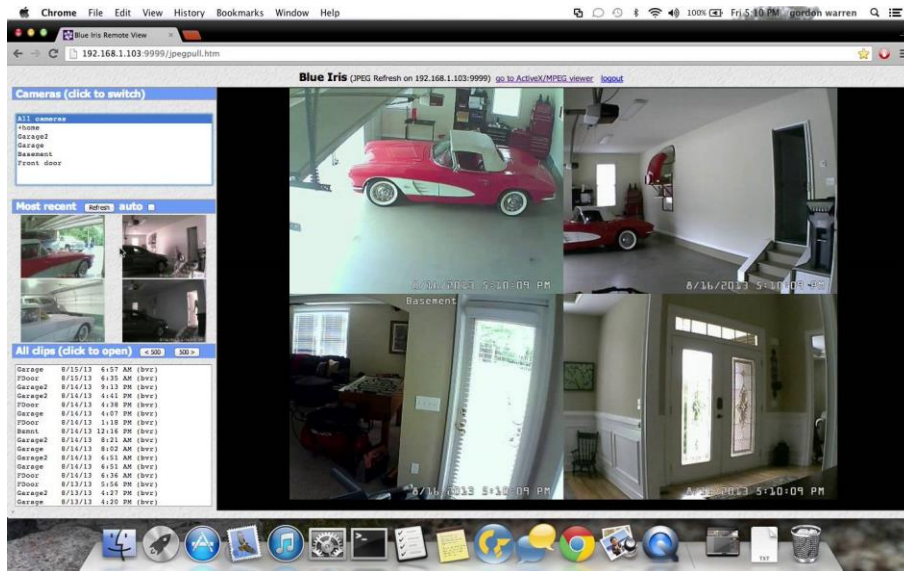
12. To view the camera simply type the IP address you've assigned to it into any browser and your camera will come up after prompting you for your username and password.



*You can also view your camera in the Foscam Central Management Software. This software is great if you have multiple IP cameras. You can download it here:

<http://www.foscam.com/Private/ProductFiles/FOSCAM%20Client%201.4.14.zip>

Setup is pretty self-explanatory, just install the package downloaded and follow the easy to use interface that comes with this software.



Specifications:

Foscam DDNS: <http://aj9275.myfoscam.org>

Notification Email Address: t171westside@gmail.com

WS Kitchen Camera IP: <http://192.168.0.112>

WS Foyer Camera IP: <http://192.168.0.111>

WS Basement Camera IP: <http://192.168.0.113>

WS 2nd Floor Camera IP: <http://192.168.0.114>

Cameras Username: admin

Cameras Password: n/a

Resolution	640 x 480 Pixels(300k Pixels)
Color	Silver
Weight	3.0000
Image Sensor	1/5" Color CMOS Sensor
Display Resolution	640 x 480 Pixels(300k Pixels)
Lens	f: 2.8mm, F:2.4 (IR Lens)
Mini Lumination	0.5Lux
Lens Type	Glass Lens
Viewing Angle	50 Degree
Input	N/A
Output	No Audio
Audio Compression	N/A
Image Compression	MJPEG
Image Frame Rate	15fps(VGA),30fps(QVGA)
Flip Mirror Images	Vertical / Horizontal
Light Frequency	50Hz, 60Hz or Outdoor
Video Parameters	Brightness, Contrast
Ethernet	One 10/100Mbps RJ-45
Wireless Standards	IEEE 802.11b/g
Data Rate	802.11b: 11Mbps(Max.), 802.11g: 54Mbps(Max.)
Wireless Security	WEP&WPA Encryption
Pan/Tilt Angle	N/A
Infrared Light	24 IR LEDs,Night visibility up to 20 metres

Dimension	9 x 5 x 3.5
Gross Weight	2.7 lbs (accessories included) (Color Box Size: 9.5 x 7 x 4.5 in)
Net Weight	2.5 lbs
Storage Temperature	-10°C ~ 60° (14°F ~ 140°F)
Storage Humidity	0% ~ 90% non- condensing
CPU	2.0GHZ or above (suggested 3.0GHz)
Memory Size	256MB or above (suggested 1.0GHz)
Display Card	64M or above
Supported OS	Microsoft Windows 2000/XP/Vista / 7 / Mac
Browser	IE 6.0, IE7.0,Firefox, Safari (no sound), or other standard browsers
Certification	CE,FCC
Warranty	Limited 1-year warranty
Product Type	No
Form Factor	No
Flash LED	No
Number of Batteries Supported	No
Battery Size Supported	No
Application/Usage	No

Spec Sheet Courtesy of: <http://www.foscam.com>

Connected Home Furnace HVAC Simulation

By: Gordon Halleran

Install Nest Thermostat - How to Video

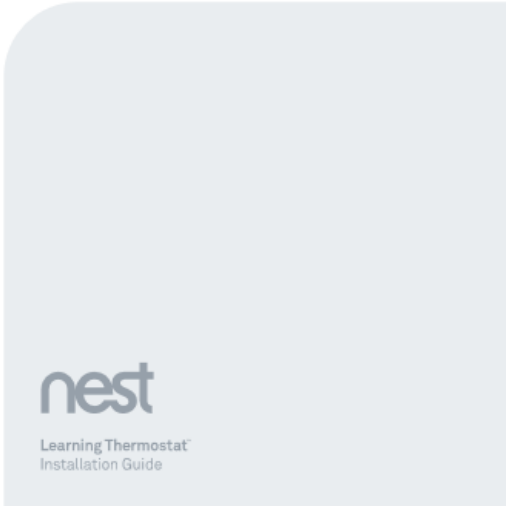
<https://youtu.be/sb9UiJqj8r0>

Simulation

In all connected homes, HVAC control is the first and most important function to be automated. All living areas need heating, cooling and air filtration to provide a comfortable and healthy lifestyle. The nest thermostat allows the user to control many mechanical functions such as heating, cooling, ventilation, air filtration, hot water tank and much more. The learning thermostat records your habits and determines what changes to make and when to lower energy consumption while maintaining comfort.

Nest also provides many other products that work in tandem with each other. This includes the Smoke/CO Detector, Nest Camera, Insteon Lighting and much more.

In our connected home simulation, the thermostat utilizes a relay with lightbulb and fan. This is a reproduction of a typical heating and cooling system within any household. When the heat is required, the lightbulb is activated; while cooling is required, the fan is activated. All of which is controlled by the thermostat directly or by wireless communication with IOS and Android systems (App is required).



WE TAKE YOUR PRIVACY SERIOUSLY

We're committed to being open and honest about how we use data. We'll always ask for permission before sharing personally identifiable information like your email address, and we keep your data safe with industry standard security tools. To learn more about our Privacy Policy, go to nest.com/ca/privacy

Compatibility

Based on Nest's online compatibility checker data, the Nest Thermostat works with most 24V systems, including gas, electric, oil, forced air, variable speed, heat pump, and radiant. It can control:

- Heating: one, two, and three stages (W1, W2, W3)
- Cooling: one and two stages (Y1, Y2)
- Heat pump: with auxiliary and emergency heat (O/B, AUX, E)
- Fan (G)
- Power (C, RH, RC)
- Humidifier or dehumidifier (HUM, DEHUM)

The Nest Thermostat's * connector can accept only one of these wires: W3, E, HUM or DEHUM.

The Nest Thermostat is designed to work even if your home doesn't have a common (C) wire. Rarely, installing a new C wire may be required.

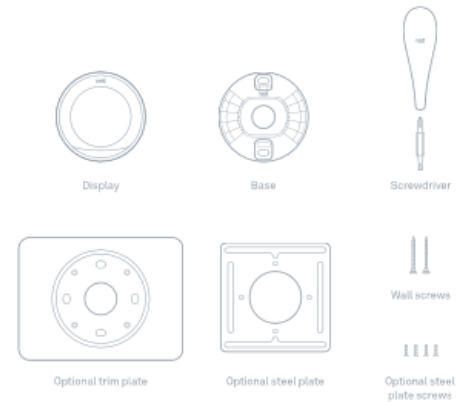
Professional installation recommended for:

- Dual fuel systems (heat pump with furnace)
- Whole-home humidifiers and dehumidifiers

Watch the video

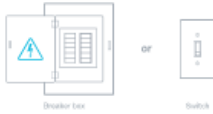
To see how it's done, watch our installation video at support.nest.com/ca/thermostat

Contents



1. Switch off power

This protects you and avoids blowing a fuse in your equipment. Adjust the temperature on your old thermostat to make sure your system is off.



2. Remove cover

Some covers pop off, while others need to be unscrewed.



3. Check your system

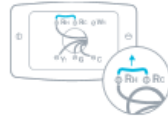
If your old thermostat is labeled 120V or 240V or has thick wires with wire nuts, your system is high voltage. Not sure? Contact support.



CAUTION: Do not connect Nest to high voltage wires.

4. Remove any jumper wires

Jumper wires are short wires between two connectors. You won't need them. An R wire can go into either RC or RH.



5. Label wires

Peel off the labels below and attach them to the thermostat's matching wires.

Use the white labels for any W3, E, HUM or DEHUM wires. The * connector can only connect to one of those wires.

See two names for each connector on your old thermostat's backplate? Visit nest.com/ca/2labels for help.



Tip: Take a picture of the wires on your old thermostat to help you remember.

6. Disconnect wires and remove base

After removing the base, we recommend gently wrapping the wires around a pen or pencil to ensure they don't fall back into the hole in the wall.



Remember, the power to your HVAC system must be off to avoid blowing a fuse in your equipment.

7. Mark where screws will go

Use the bubble level to make sure the Nest Thermostat is level.

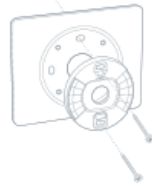


Optional in most homes

Use trim plate if needed

You can cover up holes or marks left by your old thermostat with the optional trim plate.

Snap the base and trim plate together, then screw them to the wall. You'll find the trim plate in the bottom of the box.

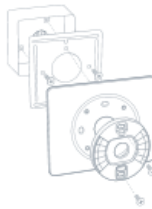


Optional in most homes

Mounting on an electrical box

Electrical boxes aren't common, but if you have one, secure the steel plate to the electrical box with two of the short steel plate screws. Insert the screws into the long slots on the steel plate.

Use the other two short screws to attach the Nest base and trim plate to the steel plate.



8. Attach the Nest base

Pull the wires through the center of the base, then attach it to the wall with the screws.



9. Connect wires

After all the wires are securely connected, push them down to make sure they're flush with the base.



10. Attach the display

Press the display onto the base until it clicks.



11. Switch the power back on



12. Setup and Nest Account

The Nest Thermostat will turn on and walk you through setup. Just turn the ring and press to select. During setup, you can connect the thermostat to Wi-Fi.

Go to nest.com/ea/account or download the Nest app to create a Nest Account. The app will show you how to connect your Nest Account and thermostat.



Nest Labs, Inc. Limited Warranty Learning Thermostat™

THIS LIMITED WARRANTY CONTAINS IMPORTANT INFORMATION ABOUT YOUR RIGHTS AND OBLIGATIONS, AS WELL AS LIMITATIONS AND EXCLUSIONS THAT MAY APPLY TO YOU.

1. WHAT THIS LIMITED WARRANTY COVERS: PERIOD OF COVERAGE

Nest Labs, Inc. ("Nest Labs"), 30001 Hillwood Avenue, Redwood City, California USA, warrants to the owner of the enclosed product that the product, complete with its box ("Product"), will be free from defects in materials and workmanship for a period of two (2) years from the date of delivery following the original retail purchase (the "Warranty Period"). If the Product fails to conform to this Limited Warranty during the Warranty Period, Nest Labs will, at its sole discretion, at the its repair or replacement of the Product or component, or (2) accept the return of the Product, and refund the money actual paid by the original purchaser for the Product. Repair or replacement may be made with a new or refurbished product or components, at Nest Labs' sole discretion. If the Product or a component is repaired within the no longer available, Nest Labs may, at Nest Labs' sole discretion, replace the Product with a similar product of similar function. This is your sole and exclusive remedy for breach of this Limited Warranty. Any Product that has either been repaired or replaced under this Limited Warranty will be covered by the terms of this Limited Warranty for the longer of (a) ninety (90) days from the date of delivery of the repaired Product or replacement Product, or (b) the remaining Warranty Period. This Limited Warranty is transferable from the original purchaser to subsequent owners, but the Warranty Period will not be extended in duration or expanded in coverage for any such transfer.

2. TOTAL SATISFACTION RETURN POLICY

If you are the original purchaser of the Product and you are not satisfied with the Product for any reason, you may return it to its original condition within a thirty (30) days of the original purchase and receive a full refund.

3. WARRANTY CONDITIONS: HOW TO GET SERVICE IF YOU WANT TO CLAIM UNDER THIS LIMITED WARRANTY

Before making a claim under this Limited Warranty, the owner of the Product must (a) notify Nest Labs of the intention to do so by visiting nest.com/support during the Warranty Period and providing a description of the alleged failure, and (b) comply with Nest Labs' return shipping instructions. Nest Labs will have no warranty obligations or its responsibility under the Product. If, in connection, in its reasonable discretion of the repairability of the returned Product, that the Product is not eligible for repair (as set forth below), Nest Labs will issue all costs of return shipping.



For more information, visit nest.com/ica

You can also find an expert in the Nest Community at nest.com/ica/community

For IC Compliance Statement, visit nest.com/ica/legal/ic-compliance-notice



Please recycle Nest's 100% recyclable packaging.

RECYCLING AND DISPOSAL
Visit nest.com/ica/recycle

Remember, you can download the free Nest app from the iTunes App Store™ or Google Play™

Questions about adding a thermostat to your Nest Account? Visit nest.com/ica/pair

to owner and will reimburse any shipping costs incurred by the owner, except with respect to any Building Kit Product, for which owner will bear all shipping costs.

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D. LIMITATION OF LIABILITY

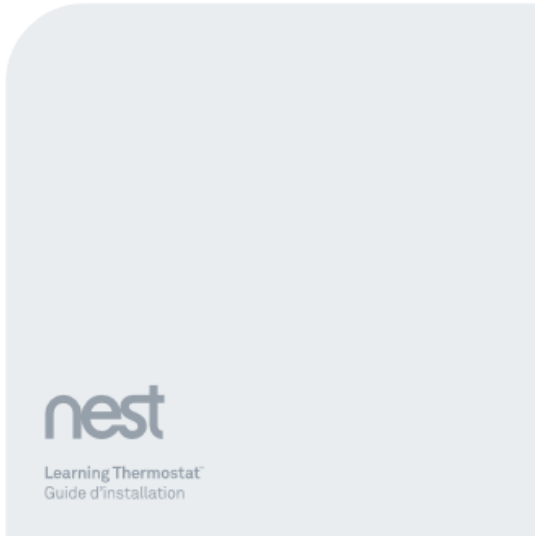
THE NEST LABS ONLINE SERVICES ("SERVICES") PROVIDED BY

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E. YOUR RIGHTS AND THIS LIMITED WARRANTY

This Limited Warranty gives you specific legal rights, but may also have other legal rights that vary by state, province, or jurisdiction. Likewise, some of the benefits in this Limited Warranty may not apply in certain states, provinces, or jurisdictions. The terms of this Limited Warranty will apply to the extent permitted by applicable law. For full description of your legal rights you should refer to the laws applicable in your jurisdiction and please reach to contact a relevant consumer advocacy partner.

30001H0004



NOUS RESPECTONS VOTRE VIE PRIVÉE

Nous nous engageons en faveur de la transparence et de l'honnêteté en ce qui concerne l'utilisation des données. Nous vous demanderons toujours votre accord avant de transmettre des renseignements qui permettent de vous identifier personnellement, tels que votre adresse de courriel. Nous conserverons vos données en sécurité au moyen d'outils sécurisés aux normes de l'industrie. Pour en savoir plus sur notre politique de confidentialité, consultez la page nest.com/ca/fr/privacy

Compatibilité

D'après les données du vérificateur de compatibilité en ligne de Nest, le Nest Thermostat fonctionne avec la plupart des systèmes 24 V, y compris les systèmes à gaz, électriques, à mazout, à air pulsé, à vitesse variable, à pompe à chaleur et par rayonnement. Il peut contrôler :

- le chauffage : une, deux et trois étapes (W1, W2, W3);
- la climatisation : une et deux étapes (Y1, Y2);
- une pompe à chaleur : avec chauffage d'appoint et d'urgence (O/B, AUX, E);
- un ventilateur (G);
- l'alimentation (C, RH, RC);
- un humidificateur ou un déshumidificateur (HUM, DEHUM).

Le connecteur du Nest Thermostat * peut accepter un seul de ces fils : W3, E, HUM ou DEHUM.

Le Nest Thermostat est conçu pour fonctionner même si votre résidence n'est pas équipée d'un fil classique « C ». Cependant, l'installation d'un tel fil peut être nécessaire dans certains cas rares.

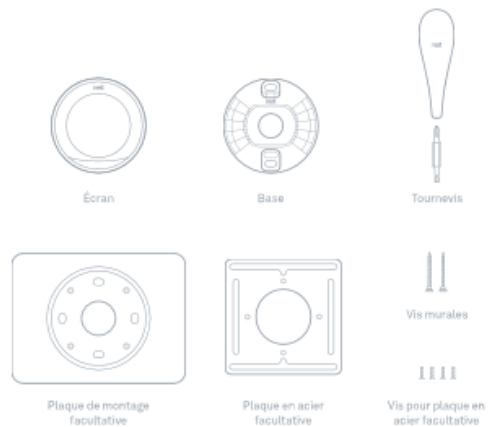
Nous recommandons l'installation par un professionnel pour :

- les systèmes bi-énergie (pompe à chaleur avec fournaise);
- les humidificateurs et déshumidificateurs multi-pièces.

Regarder la vidéo

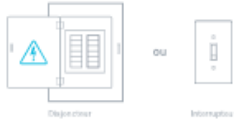
Pour savoir comment procéder, regardez notre vidéo d'installation à l'adresse support.nest.com/ca/fr/thermostat

Contenu



1. Débranchez l'alimentation

Cela vous protège et évite de faire sauter un fusible de votre équipement. Réglez la température sur votre ancien thermostat afin de vous assurer que votre système est éteint.



2. Retirez le couvercle

Certains couvercles peuvent être retirés à la main, alors que d'autres doivent être dévissés.



3. Vérifiez votre système

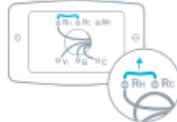
Si votre ancien thermostat porte une étiquette 120 V ou 240 V, ou s'il dispose de fils épais avec des capuchons de connexion, alors il s'agit d'un système haute tension. Vous avez un doute? Communiquez avec le service d'assistance.

ATTENTION :
Ne connectez pas votre appareil Nest à des fils haute tension.



4. Retirez les câbles de liaison

Les câbles de liaison sont des fils courts situés entre deux connecteurs. Vous n'en aurez pas besoin. Un fil R peut aller avec RC ou RH.



5. Étiquetez les fils

Découlez les étiquettes ci-dessous et apposez-les sur les fils correspondants du thermostat.

Utilisez les étiquettes blanches pour tout fil W3, E, HUM ou DÉHUM. Le connecteur * ne peut se connecter qu'à un seul de ces fils.

Vous voyez deux noms pour chaque connecteur sur le support de votre ancien thermostat? Consultez la page [nest.com/ca/fr/2labels](https://www.nest.com/ca/fr/2labels) pour obtenir de l'aide.



Deux étiquettes

Conseil : Prenez une photo des fils sur votre ancien thermostat pour vous aider à vous en souvenir.

6. Débranchez les fils et retirez la base

Après le retrait de la base, nous vous recommandons d'enrouler doucement les fils autour d'un stylo ou d'un crayon pour vous assurer qu'ils ne tombent pas à l'intérieur du trou dans le mur.



ATTENTION : N'oubliez pas que l'alimentation de votre système CVC doit être débranchée pour éviter de faire sauter un fusible de votre équipement.

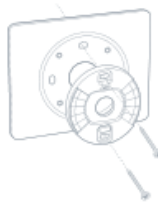
Facultatif dans la plupart des résidences

Utilisation de la plaque de montage (si nécessaire)

Vous pouvez recouvrir les trous ou les marques laissés par votre ancien thermostat à l'aide de la plaque de montage facultative.

Enclenchez la base et la plaque de montage ensemble, puis vissez-les au mur.

Vous trouverez la plaque de montage au fond de la boîte.

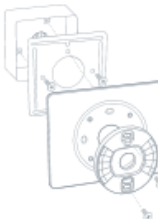


Facultatif dans la plupart des résidences

Montage sur un boîtier électrique

Les boîtiers électriques ne sont pas fréquents, mais si vous en possédez un, fixez la plaque en acier au boîtier électrique avec deux des vis courtes pour plaque en acier. Insérez les vis dans les longues fentes sur la plaque en acier.

Utilisez les deux autres vis courtes pour fixer la base du dispositif Nest et la plaque de montage à la plaque en acier.



7. Marquez l'emplacement des vis

Utilisez le niveau à bulle pour vérifier si le Nest Thermostat est droit.



8. Fixez la base du dispositif Nest

Passer les fils par le centre de la base, puis fixez cette dernière au mur avec les vis.



9. Branchez les fils

Lorsque les fils sont solidement branchés, poussez-les vers le bas pour vous assurer qu'ils soient de niveau avec la base.

1 cm
Le fil devrait être à ce niveau.





3rd generation Nest Thermostat technical specifications

These are the technical specifications for the 3rd generation Nest Thermostat.

Color



Stainless steel

Screen

24-bit color LCD
480x480 resolution at 229 pixels per inch (PPI)
5.3 cm (2.08 in) diameter

Languages

Languages available out-of-the-box:
English and Spanish in the U.S.
English and French (Québécois) in Canada
English in the U.K.
French
Dutch

Compatibility

The Nest Learning Thermostat works with 95% of 24V heating and cooling systems, including gas, electric, forced air, heat pump, radiant, oil, hot water, solar and geothermal.

Heating: 1, 2, and 3 stages (W1, W2, W3)
 Cooling: 1 and 2 stages (Y1, Y2)
 Heat pump: with auxiliary and emergency heat (O/B, AUX, E)
 Humidifier or dehumidifier (HUM, DEHUM)
 Fan (G)
 Power (C, RH, RC)

The Nest Learning Thermostat is designed to work even if your home doesn't have a common "C" wire, but installing a new C wire may be required in rare cases.

Note: Only one of the wires that go in the connector (HUM, DEHUM, E, W3) can be connected to the Nest Thermostat.

If you have dual fuel or a whole-home humidifier/dehumidifier, we strongly recommend that you use professional installation.

Sensors

Temperature (10 sensors)
 Humidity
 Near-field activity
 Far-field activity
 Ambient light

Memory

512MB

Size and weight

Display
 Mass: 205.4 g (7.25 oz)
 Diameter: 8.4 cm (3.3 in)
 Height: 2.69 cm (1.06 in)
 Base
 Mass: 38.3 g (1.35 oz)
 Diameter: 7.6 cm (3 in)
 Height: 1.1 cm (0.42 in)
 Assembled (Display+Base)
 Mass: 243.7 g (8.6 oz)
 Diameter: 8.4 cm (3.3 in)
 Height: 3.08 cm (1.21 in)

Battery	Built-in rechargeable lithium-ion battery
Power consumption	Less than 1 kWh/month
Connectivity requirements	<p>Wi-Fi connection with Internet access iOS or Android phone or tablet — Learn more about requirements Nest app Free Nest Account</p>
Wireless	<p>Working Wi-Fi connection: 802.11b/g/n @ 2.4GHz, 5GHz a/b/g/n</p> <p>Wireless Interconnect: 802.15.4 @ 2.4GHz</p> <p>Bluetooth Low Energy</p>
Certification	<p>UL 873, Temperature-Indicating and -Regulating Equipment CSA-C22.2 No. 24, Temperature-Indicating and -Regulating Equipment</p>
Warranty	2-year limited warranty
In the box	<p>Display Base Optional trim kit Mounting screws and labels Installation Guide Pro Installation Card Welcome Guide</p>

Door Locks and Video Door Bells

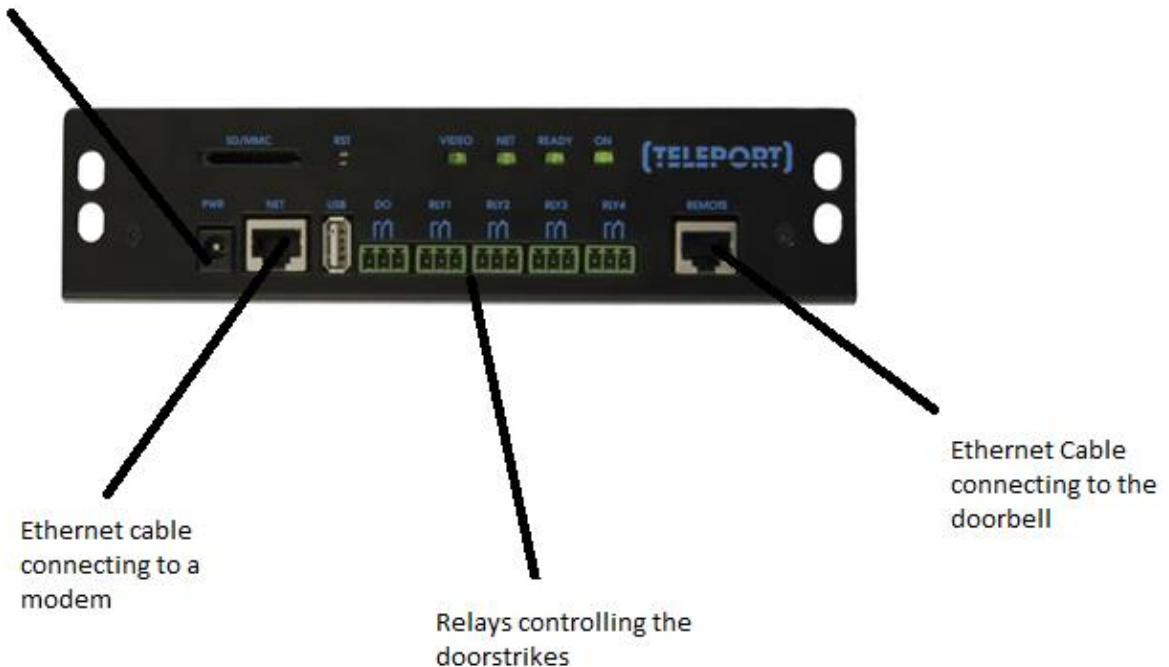
Logenex Teleport Doorbell

Summary:

The Logenex Teleport is a doorbell with voice and video interface. This doorbell will allow you to always be aware of who is at the door, regardless of where you are. The mobile phone app will give you the ability to communicate with whoever is at the door through visual and audio interface and it will allow you to unlock the door and grant access to your home through a push of a button.

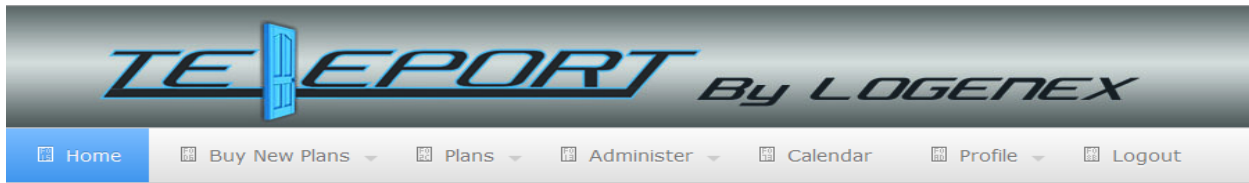
Connection diagram:

12 VDC power supply



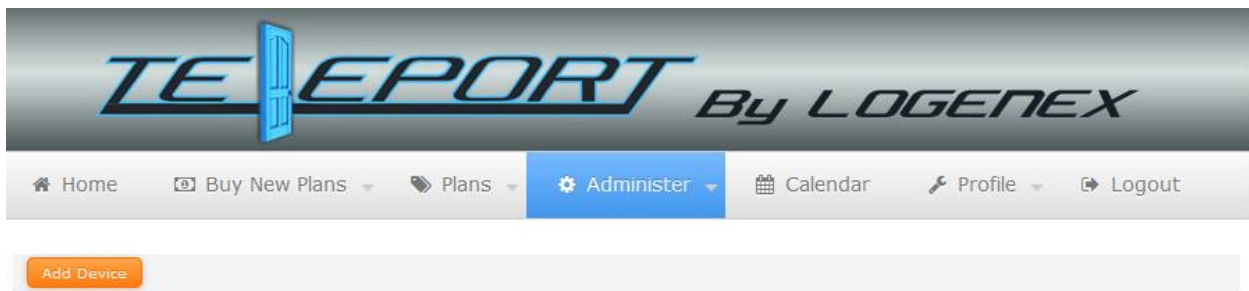
Logenex Account configuration:

Go to <http://teleport.logenex.com> and create an account. After you create an account order a free plan (Please refer to the image below).



Available plans		User
<input type="checkbox"/> Free Plan [\$0.00]		
Back	Add to Order	Confirm Order
		Continue

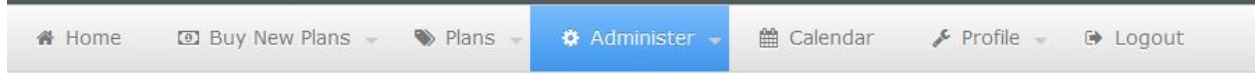
After getting your free plan go to the “Administer” tab and click “Devices”, and then click on “Add Device” (Please refer to the image below).



Now put in your devices network information (can be found on the control box) and click “Verify Device”. After the device is successfully verified click “Save” (Please refer to the image below).

The image displays the 'Manage Device' form within the 'Administer' section. The form contains four input fields, each with a red asterisk indicating it is required: 'Device Name*', 'Description*', 'Device MAC Address*', and 'Device Serial Number*'. Below these fields are three buttons: 'Verify Device', 'Back', and 'Save'. The 'Administer' menu item in the navigation bar is highlighted in blue.

After you have saved the device get the four digit extension number and register it on your mobile app (please refer to the image below).



Extension	Caller Name	Device Type	Device Info	FTP Info	Voice Mail	Registration Info
4565	PIE 4565 <4565>					

Now you can view and hear anyone who rings your doorbell, and you can let them in through your phone.



Electrical Consumption and Dash Board Monitoring System

By: Zachary Vankempen

Insteon Smart-Home Power Monitoring

Insteon Power Monitoring allows you to measure and monitor the power usage of your appliances with the iMeter Solo, and view your power consumption and average monthly cost.

iMeter Solo Installation



To install the iMeter and begin monitoring your appliances energy consumption simply plug the appliance into the iMeter and plug your iMeter into a non-switched wall outlet.

The iMeter will then beep and its status LED will turn solid green, after 20 seconds it will beep again.

Ensure that the iMeter is not used in any circuit over 15A of current or 120V and is installed indoors or in a properly insulated and weatherproofed electrical box.

Factory Reset

To restore to factory settings, unplug the iMeter Solo for 10 seconds

Hold the set button and plug the iMeter back into the wall continuing to hold the button for an additional 3 seconds.

Ensure you do not take your hand off the set button during this time. At this point the status LED will turn green and the device will do a double beep.

Energy Display Installation

Ensure that you have properly installed an Insteon Dual-band device and meter device.

Remove the battery compartment door and place two AAA batteries in the correct polarity

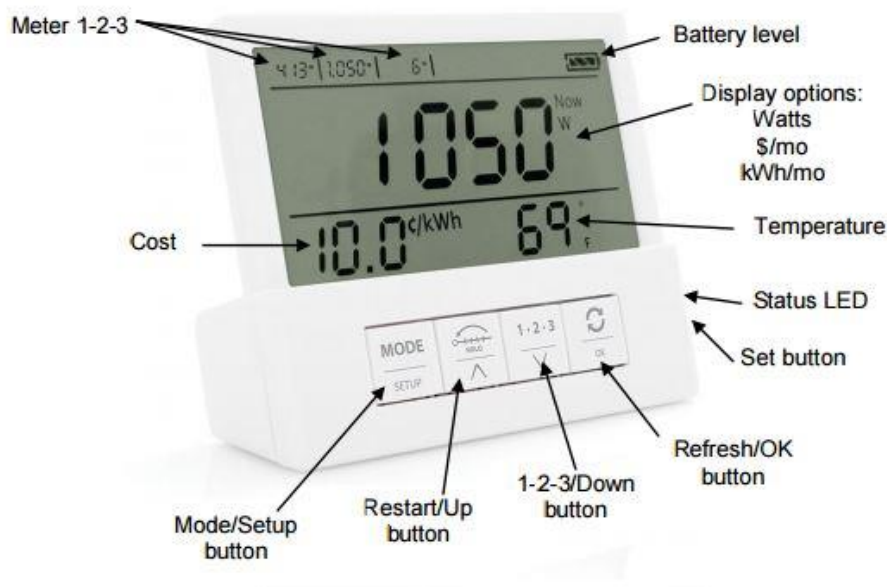
Tap the 123/down button to select the desired meter position (1, 2, or 3. can connect to a total of 3)

Set to Linking mode by pressing and holding the Set button until it beeps and the status LED turns green

On the iMeter press and hold the set button until it beeps. The status LED will turn off.

End User Guide

Our Insteon iMeter Solo measures the energy use of our whole Smart Home system being able to display the standing energy use, energy use while using Smart Home features, and the average monthly cost and consumption.



Display Mode

Mode/Setup is used to cycle between display setting options. Tap to switch between: Instantaneous Watts used (Now|W) average cost per month (Avg|\$/mo) and average energy use per month (Avg|kWh/mo)

Pressing and holding the button will enter setup mode (cost setting field will begin blinking)

Restart/Up Press and hold for 10 seconds to reset the energy value of the meter (used for calculating average energy used and cost per month)

1-2-3/Down Used to cycle between different meters connected. We only have one meter connected so this is not necessary

Refresh/OK Tap to read all information for all meter devices. (Retrieves data when in display mode)

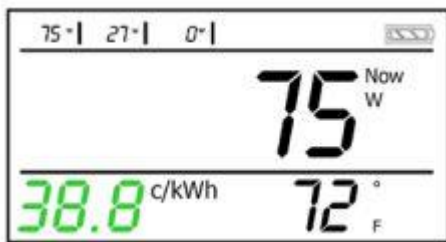
Set Press and hold for 3 seconds to link to a meter device. We are already connected to our meter so this is not necessary.

Setup Mode

There are 3 setup modes, Cost setting, Temperature format setting, and Temperature calibration

Mode/Setup Press and hold until the cost setting field begins blinking, then tap the mode/setup button to cycle the desired settings.

Cost



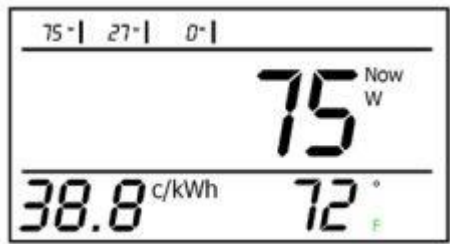
Setting used to change the price of energy usage

Hold/up Tap to increase the cost by .1 cents (1 cent if above \$1) hold to continuously increase

1-2-3/Down Tap to decrease the cost by .1 cents (1 cent if above \$1) hold to continuously decrease

Refresh/OK Tap to accept current cost and exit setup mode

Temperature Format



Used to switch between Celsius and Fahrenheit display

Hold/Up

Used to toggle between C and F

1-2-3/Down

Refresh/OK Tap to accept temperature format and exit setup mode

Temperature Calibration



The device comes pre calibrated. Only complete these steps if re-calibration is necessary

Hold/Up

Tap to set local temperature (based off a thermostat or other device)

1-2-3/Down

Refresh/OK Tap to accept current local temperature

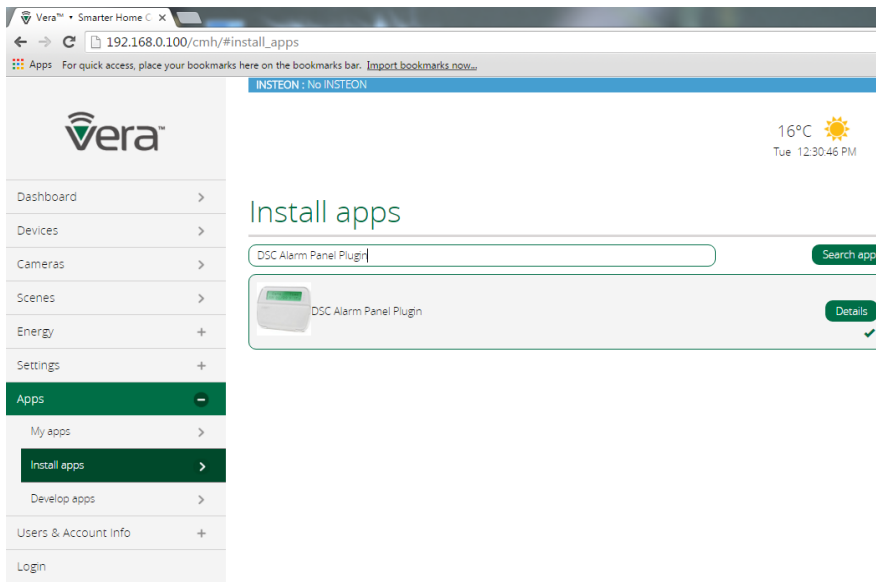
Mode/Setup Tap to exit setup mode

Integrated VERA Smart Home Gateway

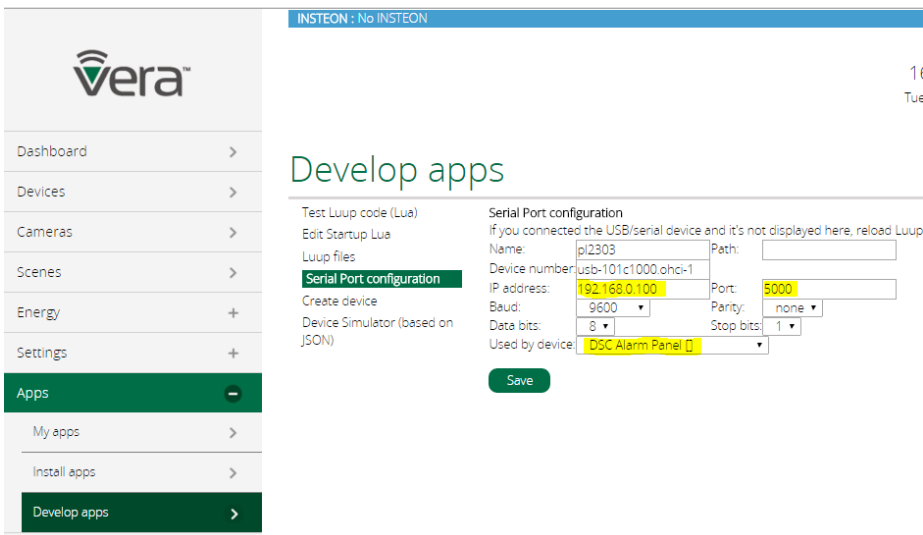
By: Jeffrey Leung

Integrating DSC Alarm Panel to Vera using IT-100

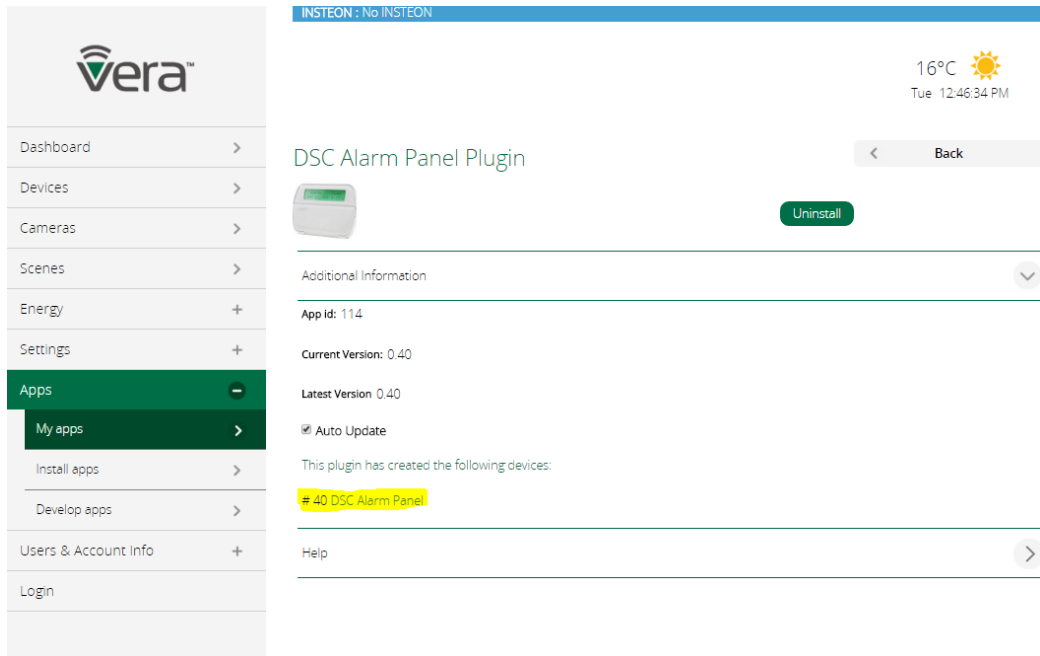
1. Attach the USB side of the USB to Serial cable to your Vera box and the Serial side to your IT-100
2. Jumper a Red/Black/Green/Yellow wire from the IT-100 to the DSC board.
3. Login to home.getvera.com
4. Install a plugin called DSC Alarm Panel Plugin by clicking on Apps on the side menu, then click on Install apps



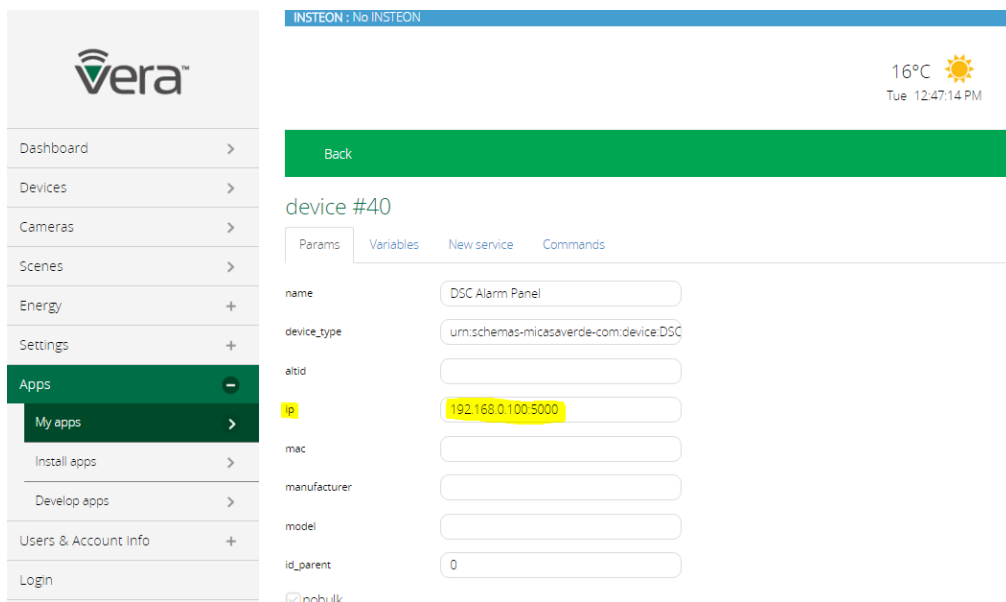
5. Configure the serial port to the assigned IP of your Vera and use port 5000 by clicking on Apps>Develop apps>Serial Port configuration



- Configure the DSC Alarm Panel Plugin that you installed in Step 3. Click on the DSC Alarm Panel highlighted below and click on “Advanced”



- Configure the IP address marked in yellow below, to your assigned IP address for your Vera.



- Click on Apps>My apps>DSC Alarm Plugin>Advanced and configure the “EnableRemoteArm” to ON by changing “false” to “disarm”.

The screenshot shows the configuration page for 'device #40' in the Vera alarm plugin. The left sidebar is expanded to 'Apps' > 'My apps'. The main content area shows various configuration options for the alarm plugin, including InterfaceType (IT100), ActivePartitions (1), DoorZones (1,2,3,4), MotionZones (5,6,7,9), and SmokeZones. The 'EnableRemoteArm' property is highlighted in yellow and set to 'disarm'. A red warning message states: 'If you want to use normal input type text you will have to check the checkbox beneath the div input each time you enter this section!'. There are also checkboxes for 'switch to input type text' for several properties.

Setting up Nest

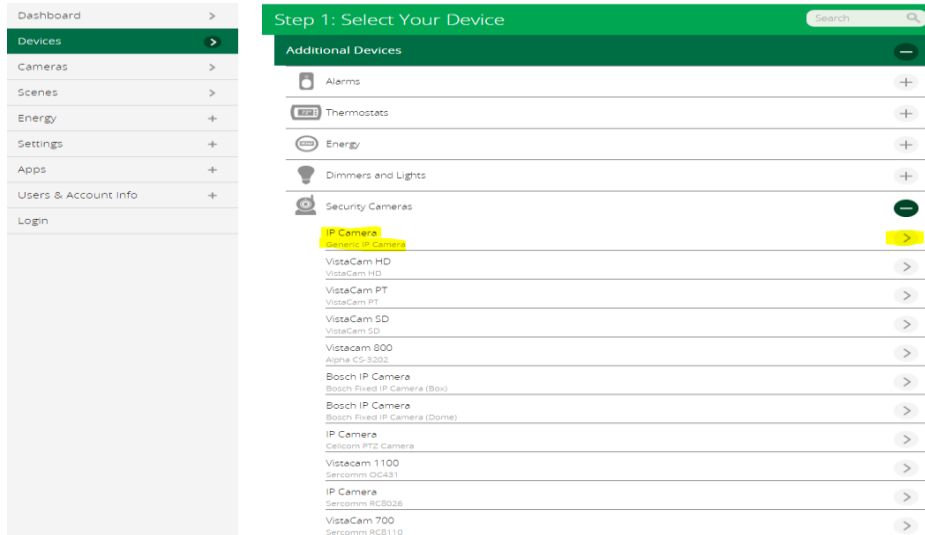
Integrating Nest Thermostat

- Click on “devices” on the left side the screen then click “add devices”, select Nest Thermostat and it should automatically pair with your device if you connected it to Vera’s WIFI.

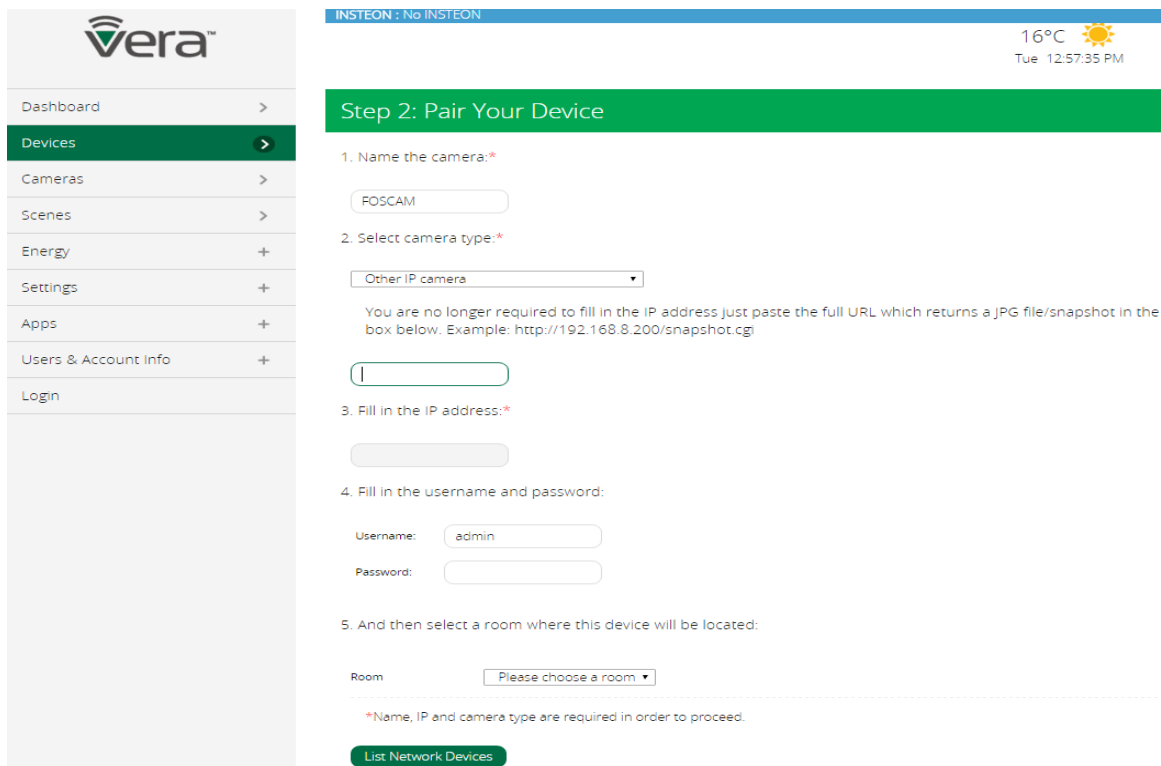
The screenshot shows the 'Step 1: Select Your Device' screen in the Vera interface. The left sidebar is expanded to 'Devices'. The main content area shows a list of 'Additional Devices' with a search bar. The 'Thermostats' category is expanded, showing several options: Danfoss Radiator, Thermostat Evolve T-100R, Thermostat Remotec ZTS100/ZTS110, Thermostat RT CT100, Nest Thermostat (highlighted in yellow), Netatmo Thermostat, and Netatmo Weather Station. The 'Nest Thermostat' option is highlighted in yellow, and a yellow arrow points to its selection button.

Integrating Foscam IP Camera

1. Click on “devices” on the left side the screen then click “add devices”,
2. Select “security cameras” and click on the one labelled as IP Camera(Generic)



3. Click on “Manually add devices” or you can use the automatic option if you do not know the IP address.



4. Click on “Select camera type” and then using the drop down menu select “Other IP Camera” and input the IP address of your cameras.

Accounts and Passwords

FOSCAM IP Cameras: 192.168.0.111 - 114 User: admin User interface access: http://192.168.0.111/ - Foyer http://192.168.0.112/ - Kitchen http://192.168.0.113/ - Basement http://192.168.0.114/ - 2 nd Floor Direct Video Link: http://192.168.0.111/videostream.cgi?user=admin&pwd=	
FOSCAM No-IP DDNS: http://westsidec505.ddns.net/ User: Westsidec505 Pass: @Classc505	FOSCAM IP Cameras have been port forwarded onto CAMNET network 192.168.0.209:10111-10114 *IP may have changed as it is not a static IP on CAMNET but ports should remain the same
VERA IP: 192.168.0.100 User: westsidec505 Password: @Classc505	
Insteon for Hub APP on tablet User: harryxiao360@hotmail.com Pass: class505	
DSC Master code: 1234 (type code then click Arm on VERA)	
Gmail: T171westside@gmail.com Pass: class505	
Teleport User: Swynne2@gmail.com Password: 11habs11	
Ring User: t171westside@gmail.com Pass: class505	
WiFi: ASUS / ASUS_5 Pass: 12345678	
Nest User: t171westside@gmail.com Pass: @Classc505	

Group Youtube Video

https://www.youtube.com/watch?v=pzSciC_xBuM



The image shows a YouTube video player interface. At the top, there is the YouTube logo and a search bar. The video player itself displays a title card with a blue background and a glowing purple orb. The text on the title card reads: "West Side Home Automation Systems", "T171 Connected Homes Project", and "George Brown College". Below the video player, the video title "T171 West Side Connected Homes Project Video" is visible, along with the channel name "T171 West Side", a "Subscribe" button with a "0" next to it, and "31 views". At the bottom of the player, there are icons for "Add to", "Share", "More", "Like" (with a "1"), and "Comment" (with a "0").