



nest

Nest Learning Thermostat (3rd Gen) -  
Carbon Black

T3016US

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## A sleeker, brighter Nest thermostat

The Nest Learning Thermostat, 3rd Generation has a sleek design, a display that's easier to read, and it can now see you coming from across the room.

The circular screen displays crucial information at 480 x 480 pixels and in full 24-bit color. With Farsight technology, the thermostat senses your presence and lights up immediately. It's not only a handy way to see exactly what the current temperature is, and whether you're operating at peak energy efficiency, but it'll help you get around better if you're up at night.

Spend just one week setting your Nest thermostat by hand, and it will learn your preferences. You'll find yourself waking up, leaving for work, coming home and settling in for an evening with the family without having to worry about setting the right temperature. And you'll notice the difference on your utility bill, too. If you walk out of the house with the heat or AC still blasting, your Nest thermostat will remember to turn it down for you while you're gone. And if the boss asks you to stay late at work, no problem, you can just fire up the free Nest app and make sure energy isn't being wasted while you're away.

## Easy to connect, a snap to use

The Nest Learning Thermostat installs easily, using an included wall plate and two screws. After it's in place, you can begin monitoring and controlling your energy usage via strong Wi-Fi on the 5GHz spectrum. You'll be able to change the temperature from anywhere using your smartphone, tablet or laptop. You can make instant changes to your thermostat's schedule and check your energy usage from wherever you are. Whether you're keeping tabs on your own home while you're at work or helping out your aging parents, saving energy has never been easier.

## Pays for itself

In independent studies, the Nest Thermostat saved an average of 10-12% on heating bills and 15% on cooling bills. Based on typical energy cost, that means it paid for itself in under two years. Use these handy tools to determine if Nest is right for you: [Nest Savings Estimator](#) | [Will the Nest Thermostat work for you?](#)

## Expand your Nest system

Your Nest devices work together to give you more control over home security. If your smoke detector sends you an alert while you're at work, you can turn on your Nest camera and assess the situation instantly, then use the camera's microphone and speakers to warn anyone who might be home. Even better, if your Nest Protect senses rising levels of carbon monoxide, your Nest Thermostat can automatically turn off your gas furnace.

## Features

- Smart thermostat creates a personalized schedule based on the temperature changes you've made
- Adjust the temperature from anywhere using your smartphone, tablet or laptop
- Easy installation with included wall plate and two screws
- Free smartphone app for Apple and Android devices available from App Store and Google play

- Smartphone control requires connecting the Nest thermostat to your Wi-Fi network
- Farsight technology senses when you're in the room, even at a distance
- NestSense can automatically turn your thermostat to a pre-programmed temperature when you are not home
- Nest Leaf icon appears when you turn to a temperature that's energy efficient
- Two-step authentication makes your Nest devices more secure
- Compatible with:
  - Amazon Echo (Alexa)
  - Google Home
- Works with Apple Watch
- Easy to read 24-bit color LCD screen:
  - 480 x 480 pixel display
  - 2-1/8" display diameter
- Runs on built-in rechargeable lithium-ion battery
- Dimensions: 3-5/16" diameter x 1-1/4" depth
- Weight: 8.6 oz.
- Warranty: 2 years

Power	<p><b>Battery</b> Six long-life AA Energizer® Ultimate Lithium batteries</p> <p><b>Wired</b> 120V Connector Three long-life AA Energizer® Ultimate Lithium backup batteries</p>
Features	<p>Voice alarms with custom location Phone alerts include: Low-battery Smoke Carbon monoxide Sensor failure</p> <p>Split-Spectrum Sensor Nest App App Silence Detects carbon monoxide Heads-Up alerts 10-year product lifetime Sound Check Nightly Promise Self Test Pathlight Steam Check Wireless Interconnect Safety History What To Do Home Report Emergency Shutoff with Nest Learning Thermostat Emergency clip record with Nest Cam</p>
Languages	<p>Pre-installed languages by country United States: English, Spanish Canada: English, French (Québécois) United Kingdom: English (British) France, Belgium and Netherlands: French and Dutch</p> <p>Note: After setup, you can change the language Nest Protect speaks to any of the above languages.</p>

Sensors	<p>Split-Spectrum Sensor, 450nm and 880nm wavelength</p> <p>10 year electrochemical carbon monoxide sensor</p> <p>Heat sensor, <math>\pm 1.8^{\circ}\text{F}</math> (<math>\pm 1^{\circ}\text{C}</math>)</p> <p>Humidity sensor, <math>\pm 3\%\text{RH}</math></p> <p>Occupancy sensor, <math>120^{\circ}</math> field of view to 20 feet</p> <p>Ambient light sensor, 1-100k Lux Dynamic Range</p> <p>Omnidirectional microphone, 70dBA SNR</p>
Speaker, Horn, and Light Ring	<p>2 Watt Speaker</p> <p>Horn: 85dB SPL at 10 feet (3 m)</p> <p>RGB color ring with 6 LEDs</p>
Size and Weight	<p><b>Battery</b></p> <p>Height: 5.3 inches (13.5 cm)</p> <p>Width: 5.3 inches (13.5 cm)</p> <p>Depth: 1.5 inches (3.85 cm)</p> <p>Mass: 13.9 ounces (379 g)</p> <p><b>Wired</b></p> <p>Height: 5.3 inches (13.5 cm)</p> <p>Width: 5.3 inches (13.5 cm)</p> <p>Depth: 1.5 inches (3.85 cm)</p> <p>Mass: 13.2 ounces (375 g)</p>
Connectivity Requirements	<p>Wi-Fi connection</p> <p>Phone or tablet with iOS 8 or later, or Android 4.1 or later</p> <p>Free Nest Account</p>
Wireless	<p>Working Wi-Fi connection: 802.11b/g/n @ 2.4GHz</p> <p>Wireless Interconnect: 802.15.4 @ 2.4GHz</p> <p>Bluetooth Low Energy (BLE)</p>
Certification	<p>Nest Protect has been tested to comply with safety standards in the United States set out by: UL</p> <p>California State Fire Marshal</p> <p>Nest Protect complies with all of the following smoke and carbon monoxide alarm standards:</p> <p>UL 2034 - "Single and Multi Station Carbon Monoxide Alarms"</p> <p>UL 217 - "Single and Multi Station Smoke Alarms"</p> <p>NFPA-72 - "National Fire Alarm and Signaling Code"</p>
Operating Temperature	<p>The alarm should not be installed in locations where the normal ambient temperature is below <math>40^{\circ}\text{F}</math> (<math>4^{\circ}\text{C}</math>) or exceeds <math>100^{\circ}\text{F}</math> (<math>38^{\circ}\text{C}</math>).</p> <p>Humidity range: 20%RH to 80%RH (non condensing).</p>
Warranty	<p>2-year limited warranty. For support, visit <a href="http://nest.com/support">nest.com/support</a>.</p>
In the Box	<p><b>Nest Protect (Battery)</b></p> <p>Six long-life batteries (Energizer® Ultimate Lithium "L91" AA)</p> <p>Backplate</p> <p>Four screws</p> <p>User's Guide</p> <p>Welcome Guide</p> <p>2-year limited hardware warranty</p> <p><b>Nest Protect (Wired 120V)</b></p> <p>Three long-life backup batteries (Energizer® Ultimate Lithium "L91" AA)</p> <p>120V AC connector</p> <p>Three wire nuts</p> <p>Backplate</p> <p>Four screws</p> <p>User's Guide</p> <p>Welcome Guide</p> <p>2-year limited hardware warranty</p>