

[Nest](#) [MENU](#)

# Nest Protect

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## This is going to be easy.

You can set up your Nest Protect in just minutes using your iPhone, iPad, or Android device.

And Nest Protect is now even easier to install. But if you need help, we have 24/7 [customer support](#) with real humans to answer your questions.

[Watch the installation video](#)

Low on time? Scared of wires?

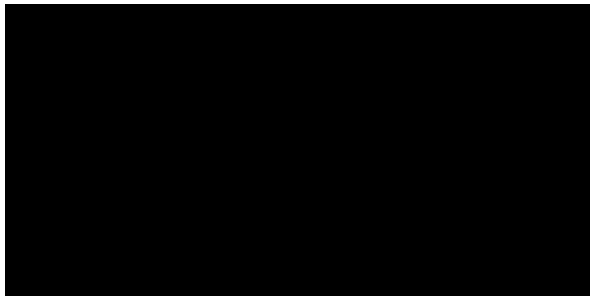
[Find a Nest Pro in your area >](#)

## Which Nest Protect should I get?

Just check the smoke alarm you have now. If it connects to wires, you'll want Nest Protect (Wired 120V). If it doesn't, you should get Nest Protect (Battery). After that you just have to choose the color that looks best on your ceiling, black or white.

Battery

Wired 120V







As furniture and construction materials have changed, so has fire. Fires now burn much faster. The smoke is more toxic. Nest Protect has the technology to detect today's fires.

## Beautiful on the outside. Rocket science on the inside.

[Dive in >](#)

### The Split-Spectrum Sensor looks for fast and slow burning fires.

Ionization alarms use radiation to detect fast-flaming fires. Photoelectric alarms are better at seeing smoldering fires. The Split-Spectrum Sensor looks for both. Instead of radiation, it uses a 450nm wavelength of light to detect the tiny particles created by fast fires. It also uses a second, 880nm infrared wavelength to look for the larger particles created by smoldering fires. It's the first sensor in a home alarm to use two sources of light to get a more accurate picture of the fire.

[Learn more about the Split-Spectrum Sensor >](#)

### It's also designed to detect smoke, not cry wolf.

To reduce false alarms, the Split-Spectrum Sensor is shielded against outside light, etched to protect it against dust, and encased in a stainless steel screen. The screen's hexagonal pattern is designed to let smoke in and keep bugs and fibers out.

Ionization detectors are eight times more likely to false alarm. [Source: Western Journal of Medicine](#)

### 10-year carbon monoxide sensor.

Many alarms that detect CO expire after 7 years. Now Nest Protect has a new electrochemical CO sensor that lasts up to a decade.

[What should I do if there's CO in the house? >](#)

### It has a microphone to test the alarm.

Nest Protect uses its microphone to quietly test the speaker and horn once a month. That way you know there will be an alarm and a voice alert if something goes wrong. To protect your privacy, the microphone only listens while the test runs and the audio is deleted. You can turn Sound Check on or off in the Nest app and schedule when it happens.

[Listen to Sound Check](#) [Learn more about Sound Check](#) >

## Nest Protect can see movement and light.

The motion and light sensor work together to turn on Pathlight to light your way at night. The light sensor also triggers Nightly Promise, which lets you know if everything's working when you turn out the lights.

## The humidity sensor looks for steam.

Nest Protect is the first alarm to use both a humidity sensor and an advanced algorithm to cut false alarms from steam by 50%.

[Learn more about Steam Check](#) >

## Designed to connect.

If the Nest Protect in your kitchen senses danger, every Nest Protect in your home will speak up to make sure you know where the danger is – even if Wi-Fi goes down. And once you've checked that everything's OK, you can hush them from your phone over Bluetooth LE.

[Learn more about wireless interconnect](#) >

When you go to bed tonight, look at your old smoke alarm. You'll probably notice a tiny little light. It could be green. Or red.

But what does it even mean?

## Look for the light ring.

In addition to its voice, Nest Protect uses colors to communicate. And we gave the new Nest Protect a brighter light ring so it's easier to see in an emergency and better at helping you see things in the dark.

[What will I see and hear from Nest Protect?](#) >

### Nightly Promise

Nest Protect constantly monitors its sensors and batteries. A quick green glow when you turn out the lights says everything's working.

[Learn more about Nightly Promise](#) >

### Pathlight

When you walk under Nest Protect at night, it will light your way. You can choose different light levels or turn Pathlight off entirely in the app.

[How do I adjust the brightness?](#) >

### Heads-Up

If there's only a little smoke, like you've just burned toast, it will glow yellow and give you a friendly Heads-Up so you can check on things.

[Listen to a Heads-Up](#)

### Emergency

When smoke or carbon monoxide reaches dangerous levels, Nest Protect sounds the alarm, pulses red, and tells you where the emergency is.

[Listen to an alarm](#)

# Nest Protect helps you before, during, and after something goes wrong.

## Not just an alarm. A guide.

What To Do in the Nest app teaches your family how to get out of the house safely. It will also pop up on your phone if the alarm goes off. You can even enter an emergency contact so it's right there when you need it.

[Learn more >](#)

## Know what happened.

You're not always home when there's an emergency. So Nest Protect remembers what happened and shows you the details in a 10-day Safety History.

[Learn more >](#)

## It helps you every month.

Nest will email you a monthly Home Report. You'll see a summary of anything that happened and tips to help you stay safe.

[See an example >](#)

## Proven safe.

You have to know your smoke and CO alarms are safe. And we've proven Nest Protect is.

Meets all these standards:

Underwriters Laboratories

California State Fire Marshal

British Standards Institution

Canadian Standards Association

[How is Nest Protect certified? >](#)

## Tech Specs

SHOW DETAILED SPECS HIDE DETAILED SPECS

Power	Battery	Wired
	Six long-life AA Energizer® Ultimate Lithium batteries	120V Connector Three long-life AA Energizer® Ultimate Lithium backup batteries
Color	White Black	
Features	Available soon exclusively on <a href="https://nest.com">nest.com</a>	
	Voice alarms with custom location	
	Split-Spectrum Sensor	
	Detects carbon monoxide	
	10-year product lifetime	
	Heads-Up alerts	
	Sound Check	
	Nightly Promise	

	Pathlight
	Steam Check
	Self Test
	Wireless Interconnect
	Emergency Shutoff with Nest Learning Thermostat
	Emergency clip record with Nest Cam
	Home Report
	Nest app
	Phone alerts include:
	Smoke
	Carbon monoxide
	Low-battery
	Sensor failure
	App Silence
	Safety Checkup
	Safety History
	What To Do
	Pre-installed:
	United States: English, Spanish
	Canada: English, French (Québécois)
Languages	United Kingdom: English (British)
	France, Belgium and Netherlands: French, Dutch
	After setup, you can change the language
	Nest Protect speaks to any of the above languages
	Split-Spectrum Sensor, 450nm and 880nm wavelength
	10 year electrochemical carbon monoxide sensor
Sensors	Heat sensor, $\pm 1.8^{\circ}\text{F}$ ( $\pm 1^{\circ}\text{C}$ )
	Humidity sensor, $\pm 3\%\text{RH}$
	Occupancy sensor, 120° field of view to 20 feet
	Ambient light sensor, 1-100k Lux Dynamic Range
	Omnidirectional microphone, 70dBA SNR
Speaker, horn, and light ring	2 Watt Speaker
	Horn: 85dB SPL at 10 feet (3 m)
	RGB color ring with 6 LEDs
Size and weight	Height: 5.3 inches (13.4 cm)
	Width: 5.3 inches (13.4 cm)
	Depth: 1.5 inch (3.85 cm)
	Mass: 13.9 ounces (379 g)
Connectivity requirements	Wi-Fi connection with Internet access
	Phone or tablet with iOS 8 or later, or Android 4 or later
	Free Nest Account
Wireless	Working Wi-Fi connection: 802.11b/g/n @ 2.4GHz
	Wireless Interconnect: 802.15.4 @ 2.4GHz
	Bluetooth Low Energy (BLE)
	<b>Nest Protect has been tested to comply with safety standards in the United States set out by:</b>
	UL
	California State Fire Marshal
Certification	<b>Nest Protect complies with all of the following smoke and carbon monoxide alarm standards:</b>
	UL 2034 - "Single and Multi Station Carbon Monoxide Alarms"
	UL 217 - "Single and Multi Station Smoke Alarms"
	NFPA-72 - "National Fire Alarm and Signaling Code"

Operating temperature	The alarm should not be installed in locations where the normal ambient temperature is below 40°F (4°C) or exceeds 100°F (38°C). Humidity range: 20%RH to 80%RH (non condensing).
Warranty	2-year limited warranty. For support, visit <a href="https://nest.com/support">nest.com/support</a> Our support team is also available by phone 24/7. <b>Nest Protect (Battery)</b>  Nest Protect (Battery) Six long-life batteries (Energizer® Ultimate Lithium “L91” AA) Backplate Four screws User’s Guide and Welcome Guide <b>Nest Protect (Wired)</b>
In the box	Nest Protect (Wired 120V) Three long-life backup batteries (Energizer® Ultimate Lithium “L91” AA) AC 120V connector Three wire nuts Backplate Four screws User’s Guide and Welcome Guide Replacement batteries (Energizer® Ultimate Lithium “L91” AA) available for purchase at your local retailer.

[Learn more about the Nest Protect batteries >](#)



# Nest Protect

Bring yours home today.

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**BUY NOW**

Get Nest for less

Find rebates, rewards and new ways to save.

Find an installer

Get help installing your Nest products.

Works with Nest

Explore what connects with the rest of your Nest.