

# Let's get started

Google Nest Protect (Battery)  
Smoke and carbon monoxide alarm  
User Guide

Google



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Visit [g.co/nest/protectbasics](https://g.co/nest/protectbasics) to learn more about installing, using and troubleshooting Nest Protect.

## Meet your Nest Protect

Nest Protect is designed to detect smoke and carbon monoxide in a residential environment.

It has multiple sensors to help it understand what's happening in your home, including a Split-Spectrum Sensor to detect a wide range of slow-smouldering and fast-flaming fires.

This guide covers the installation of Nest Protect (Battery) - Model number A13

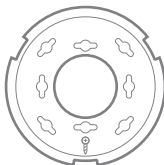
## Requirements

You need Wi-Fi, an iOS or Android phone or tablet, and a free account in order to use some Nest Protect features: spoken room names, wireless mobile notifications, and software updates. During setup, Wi-Fi and a free account are required for wireless interconnect and room naming. After all the Nest Protects in your home are connected, they can communicate with each other without Wi-Fi.

Inside the box you'll find:



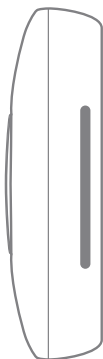
**Nest Protect**



**Back plate**

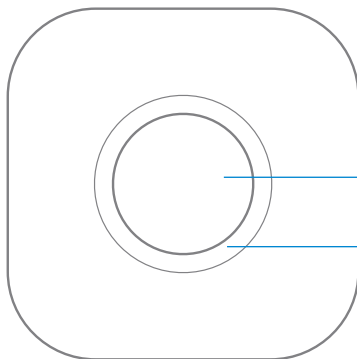


**4 mounting screws**



13.5 cm  
(5.3 in)

3.9 cm  
(1.5 in)

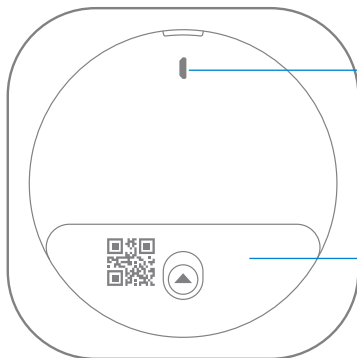


The horn enables Nest Protect to alert you with a loud emergency sound.

The speaker allows Nest Protect to speak with a human voice.

Push the button to silence alarms or run a test.

The light ring changes colour to alert you.



Micro-USB connector  
(not for normal use).

Battery compartment: Six AA Energizer® Ultimate Lithium batteries (L91).

## Setup and installation

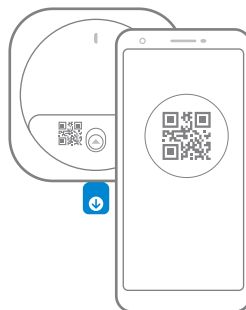
### 1. Get the Nest app

Before you install your Nest Protect on the ceiling or wall, you'll need to set it up with the Nest app. Download the app from the Apple App Store or Google Play and create a free account. You can use a phone or tablet for setup.



### 2. Set up Nest Protect

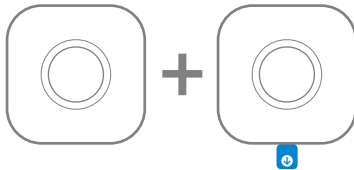
The Nest app will guide you through each step: scanning the Nest Protect QR code, connecting it to the Internet, and connecting it to other Nest Protects in your home. Go to [g.co/nest/installprotect](https://g.co/nest/installprotect) to watch the video.



**Tip:** Set everything out on a table for easy setup.

### 3. Have more Nest Protects?

The Nest app will ask you if you have additional Nest Protects to set up. If you do, it'll take you through a faster setup. Make sure that you keep all your Nest Protects together until they're all set up and ready to be installed.



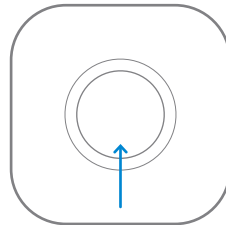
Already added

New

**Tip:** Your Nest Protect came packed in a plastic cover. Keep the cover on so that your Nest Protect stays clean until you install it.

### 4. Test before you install

Once you've finished setting up all your Nest Protects, make sure that they've been added to your account. Push the button on one Nest Protect and follow the instructions. All your Nest Protects should speak up. Now you can install them on the ceiling or wall.



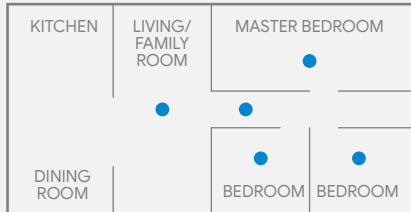
**Tip:** To double-check Nest Protect's room name, press the button once. You'll hear the location that you assigned to it during setup. It'll say something like, "Ready in the bedroom."

## Location in your home

We recommend placing a smoke alarm on every floor and a carbon monoxide alarm in every room containing a fuel-burning appliance.

The Nest Protect smoke and carbon monoxide alarm should be installed:

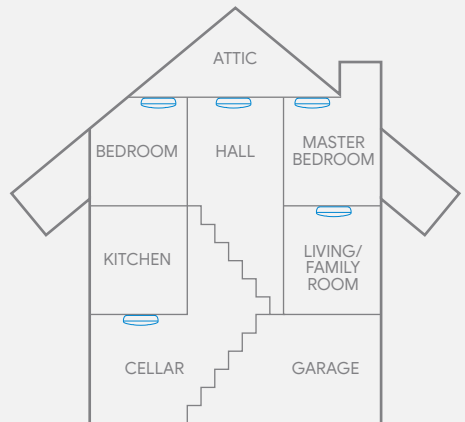
- On every floor (smoke alarms are required by law in certain residences).
- In every room containing a fuel-burning appliance (recommended for CO alarms).
- In every bedroom.
- In remote rooms that are used often but which may be too far away for anyone to hear an alarm.
- Outside unused rooms, like the boiler room.



Nest Protect should be installed at least 3 m (10 ft) away from hobs or cooking appliances.

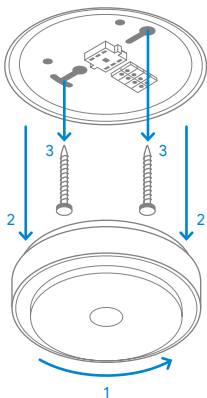
Make sure that there is a clear space around all installed Nest Protects so that they are not obstructed.

Nest Protect should NOT be installed in unfinished attics or garages.



## 5. Remove your old smoke alarm

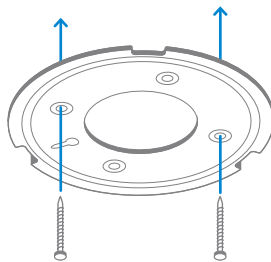
You may have to twist the alarm to release it. Remove it carefully to avoid damaging your ceiling or wall. Unscrew and remove the back plate if there is one.



**Tip:** Your old smoke alarm might make a loud noise when you disconnect it.

## 6. Install the new back plate

Screw the new back plate directly into the wall or ceiling with the screws. There is no need to drill pilot holes, as the screws are self-tapping. Make sure that the screws are driven all the way in and are snug against the back plate.



**Tip:** All smoke alarms prefer to live in a dust free area, so remove any dust before you install Nest Protect.

### Placement on the ceiling or wall

Installation on the ceiling is recommended. Use the back plate as a guide to mark where the screws will go. Make sure that it's at least 30 cm (12 inches) away from the wall.

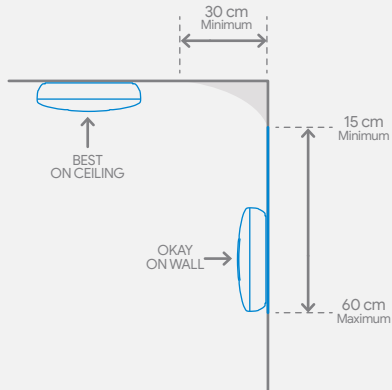


Figure 1

### Placement on a sloping ceiling

If you have a sloping, pitched or cathedral ceiling, Nest Protect should be 90 cm (35 inches) from the highest peak.

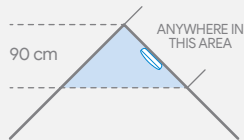


Figure 2

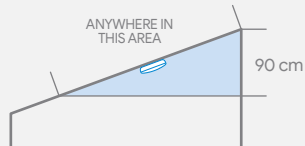
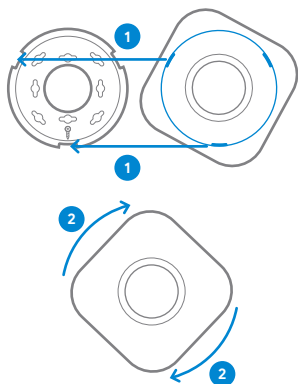


Figure 3

## 7. Install your Nest Protect

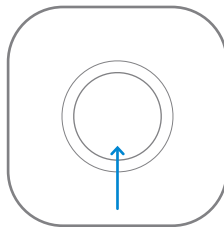
Line up the three tabs on the back of your Nest Protect with the notches on the back plate. Hold Nest Protect against the back plate and turn it clockwise. Continue turning until it's square with the wall or ceiling. Install the rest of your Nest Protects if you have more.



**Tip:** If you ever need to remove your Nest Protect (for cleaning or battery replacement), turn it anticlockwise until it disconnects from the back plate.

## 8. Press to test

Press the button on one Nest Protect. It will tell you what to do next. Every Nest Protect in the house should speak up, confirming that they're connected to each other.



## Heads-Up and Emergency Alarms

### Alerts

When Nest Protect has something to say, it will speak to you and light up instead of just beeping. Nest Protect has two kinds of voice alert: Heads-Up and Emergency Alarm.

When smoke or carbon monoxide levels are heightened but haven't yet reached Emergency Alarm levels, Nest Protect can sound a Heads-Up as an early warning. Nest Protect will pulse yellow and tell you where there's smoke or carbon monoxide.

You'll get an Emergency Alarm when smoke or carbon monoxide reach critical levels. Nest Protect will pulse red, tell you what room the emergency is in and sound a loud alarm. If there's both smoke and CO present, the smoke alarm will take priority.

### Silencing

Heads-Up alerts and Emergency Alarms can be silenced by using the Nest app or pressing the button. Only silence an alarm once you have checked conditions at the Nest Protect that first sounded the alarm. Do not silence Nest Protect by removing the batteries. This will disable the alarm so that it cannot sense smoke or carbon monoxide, leaving you at risk.







Because there are many different types of fire, you may experience an Emergency Alarm without having first experienced a Heads-Up alert. This means that critical levels of smoke or CO occurred extremely quickly and Nest Protect had to sound the Emergency Alarm.

### Have more than one Nest Protect?

After all the Nest Protects in your home are connected to each other, if there's a Heads-Up or an Emergency Alarm in one room, they'll all tell you what the danger is and which room it's in.

If multiple Nest Protects are interconnected, a Heads-Up alert or Emergency Alarm can be silenced only at the Nest Protect that originally sounded the alert. You'll need to go to that room to silence all the Nest Protects in your home. Always check the conditions near the Nest Protect that first detected the smoke or carbon monoxide before silencing it.

## Heads-Up and Emergency Alarms

	What You Hear	What You See	What It Means	What To Do
Alerts	"PLEASE BE AWARE. THERE'S SMOKE IN THE [ROOM NAME]. THE ALARM MAY SOUND."	 YELLOW pulses.	Smoke levels are rising.	Put out the source of the smoke. Then use the Nest app or press the button to silence the alert.
	"PLEASE BE AWARE. THERE'S CARBON MONOXIDE IN THE [ROOM NAME]. THE ALARM MAY SOUND."	 YELLOW pulses.	Carbon monoxide levels have been high for a while.	Open a window or door to get fresh air. Then use the Nest app or press the button to silence the alert.
	(Alarm siren) "EMERGENCY. THERE'S SMOKE IN THE [ROOM NAME]."	 RED pulses.	The smoke in the room has reached critical levels.	Get out of the house immediately.
	(Alarm siren) "EMERGENCY. THERE'S CARBON MONOXIDE IN THE [ROOM NAME]. MOVE TO FRESH AIR."	 RED pulses.	The carbon monoxide in the room has reached critical levels.	<ol style="list-style-type: none"> <li>1) Keep calm and open all doors and windows.</li> <li>2) Stop using all fuel-burning appliances and ensure that they are turned off.</li> <li>3) Evacuate the premises if the CO alarm continues to sound.</li> <li>4) Once outside, call 999 or the fire brigade.</li> </ol>
Silencing	"SMOKE ALARM SILENCED."	 YELLOW or RED pulses.	You've silenced an alert. Nest Protect will now keep quiet, unless smoke or carbon monoxide remains at critical levels.	Make sure you're safe and have put out the source of smoke or carbon monoxide.
	"CARBON MONOXIDE ALARM SILENCED."			
	"THE ALARM IS OVER."	 GREEN pulses.	Smoke or carbon monoxide levels are decreasing.	Make sure you're safe and have put out the source of smoke or carbon monoxide.

## Daily Use and Emergency Preparation

### Daily Use

#### Nightly Promise

Nest Protect continuously tests itself, so you don't have to wonder if it's working. Nightly Promise reports on every Nest Protect in your home.

When you turn off the lights for the night, Nest Protect will glow green for a moment – this means that everything is working. If it glows yellow, one of the Nest Protects in your home needs your attention. For instance, the batteries are low, Wi-Fi is down or there's a problem with the sensors. Just push the button or use the Nest app to see what's wrong.

#### Pathlight

Nest Protect usually has its light turned off, but it can light your way as you walk underneath it in the dark. You can enable or disable Pathlight and set its brightness with the Nest app.

### Emergency Preparation

#### Testing

We recommend running a weekly manual test. During a test, all interconnected Nest Protects in your home check their sensors, power, Wi-Fi connection, light ring, emergency siren, speaker and microphone.

When you run a test, Nest Protect will give you a countdown before sounding the alarm so that you have time to move away from the loud noise.





Test procedure:

1. Start a test by pressing the button twice.
2. Nest Protect will say: "This is only a test. The alarm will sound."
3. Ensure that the alarm sounds and the light illuminates on each Nest Protect.
4. Once the Nest Protect has made sure it's working, it'll tell you that everything's OK. If you have interconnected Nest Protects, all of them should speak.

#### Sound Check

Nest Protect can automatically perform a monthly test to confirm that its speaker and siren are working properly. You can choose to enable this option during initial setup with the app, but you can change it at any time. For more information, visit [g.co/nest/soundcheck](https://g.co/nest/soundcheck)

# Daily Use And Emergency Preparation

	What You Hear	What You See	What It Means	What To Do
Daily Use		 <p>You turn off the room lights for the night, and the GREEN light pulses once.</p>	Nest Protect has tested its sensors, power and Wi-Fi to confirm they are working correctly.	Sleep well thanks to Nightly Promise.
		 <p>WHITE light.</p>	Pathlight lights your way at night as you pass under it.	
Emergency Preparation	 <p>"READY. PRESS TO TEST."</p>	 <p>BLUE rotates.</p>	To set up or run a manual test.	Press the button.Nest Protect will walk you through next steps.

## ⚠ WARNING

- DO NOT stand close to the alarm when the siren is sounding. Exposure at close range may be harmful to your hearing. When testing, move away before the siren starts sounding.
  - If you have been away from home for a long period of time, such as on holiday, test Nest Protect by pressing the button twice.
  - If the alarm ever fails to test correctly, have it replaced immediately! If the alarm is not working properly, it cannot alert you to a problem.
- DO NOT use a match, cigarette or any other makeshift fire to test the smoke alarm.
  - NEVER use vehicle exhaust to test the CO alarm! Exhaust may cause permanent damage and will void your warranty.
  - NEVER use an open flame of any kind to test this alarm. You might accidentally damage or set fire to the unit or to your home.

## General Maintenance

### Cleaning your Nest Protect

Nest Protect has been designed to be as maintenance free as possible, but you should keep it clean. As with any smoke alarm, dust build-up on the outside or inside of Nest Protect can stop it from working properly.

To clean Nest Protect:

1. Remove it from the wall or the ceiling (turn anticlockwise until it comes off the back plate).
2. Wipe the outside with a clean, slightly damp cloth. Don't use any soaps or solvents.
3. Place Nest Protect on a soft, dry cloth with the button facing down. Open the battery compartment door and remove the batteries. Remove the screws and lift off the back. Be careful not to lose the screws.
4. Gently vacuum the inside. Make sure that you clean all the way around the mesh sides of the smoke chamber (the large metal circle).

**Note:** Never use detergents or solvents (like glass cleaner) on your Nest Protect and do not spray air fresheners, hair spray or other aerosols near it. Do not get water inside the alarm or paint over it.

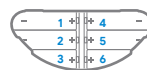
### Replacing the batteries

Nest Protect uses six AA Energizer® Ultimate Lithium batteries (L91). These batteries can be purchased at your local retailer.

1. Twist Nest Protect anticlockwise until it disconnects from the back plate.
2. Open the battery door on the back of Nest Protect.








3. Replace the batteries. Align the + positive and - negative ends with the markings in the battery compartment.
4. Close the battery compartment. Do not force the door closed.
5. Push Nest Protect onto the back plate and turn it clockwise until you feel it grip.
6. Press the button twice.



#### ⚠ WARNING

- Only use batteries specified by Google. Use of a different battery model will have a detrimental effect on the operation of the smoke alarm. The alarm may not operate properly with other batteries. Never use rechargeable batteries, as they may not provide a constant charge.
- Never remove the batteries from a battery-operated alarm to stop an unwanted alarm (caused by cooking smoke, etc.). Removing batteries disables the alarm so that it cannot sense smoke or carbon monoxide, leaving you at risk.

# General maintenance

	What You Hear	What You See	What It Means	What To Do
General Maintenance	"THE SENSORS HAVE FAILED IN THE [ROOM NAME]. REPLACE NEST PROTECT NOW." Single chirp every 60 seconds.	 YELLOW pulses.	Nest Protect has tested its sensors, and there is a problem.	Clean according to instructions on p.16. If the problem persists, replace Nest Protect.
	"THE BATTERY IS LOW IN THE [ROOM NAME]. REPLACE THE BATTERY SOON."	 YELLOW pulses.	Low battery.	Change Nest Protect's batteries soon.
	"THE BATTERY IS LOW IN THE [ROOM NAME]. REPLACE THE BATTERY NOW." Single chirp every 60 seconds.	 YELLOW pulses.	Low battery.	Change Nest Protect's batteries now.
	"NEST PROTECT CANNOT SOUND THE ALARM IN THE [ROOM NAME]." Two chirps every 60 seconds.	 YELLOW pulses.	There's a problem with Nest Protect's siren.	Replace Nest Protect now.
	"NEST PROTECT HAS EXPIRED. REPLACE NEST PROTECT NOW." Two chirps every 60 seconds.	 YELLOW pulses.	Nest Protect has expired and reached the end of its life.	Replace Nest Protect now.

## ⚠ WARNING

- The alarm will not operate without battery power. The alarm cannot work until you install the batteries in the correct position (Match + to +, and - to -).
- This device contains lithium batteries. If tampered with, the battery may be short circuited and create

a risk of fire. Never attempt to open or damage the alarm.

- Replace all batteries at once and only use new, unused batteries as replacements.

## General Maintenance

### Servicing

If your Nest Protect needs servicing, contact our support team first at [g.co/nest/support](https://g.co/nest/support) to get a returns number and delivery information.

### Expiry

Like any smoke and CO alarm, Nest Protect has a limited life. You will need to replace Nest Protect after 10 years with a brand-new Nest Protect. You can check the replacement date written on the back of Nest Protect to see when it will expire.

About two weeks before it expires, Nest Protect will light up with a yellow light. Press the button and it will say, "Nest Protect has expired. Replace it now." Buy a new alarm and recycle the expired one. Make sure that you test your new Nest Protect once it's installed.

### Recycling And Disposal

Google recognises its responsibility to minimise the environmental impact of its operations and products. Once Nest Protect has expired, you will need to recycle it according to local regulations. Please visit [g.co/nest/recycle](https://g.co/nest/recycle) to learn more about Google's commitment to environmental responsibility and to find where you can safely recycle your Nest Protect.



The WEEE symbol means that your Nest Protect must be disposed of separately from general household waste. When Nest Protect reaches its end of life, take it to a designated waste collection point in your area for safe disposal or recycling. By doing this, you'll conserve natural resources, protect human health and help the environment.

### Resetting Nest Protect

You can reset Nest Protect to erase all your settings and reset the wireless interconnection with other Nest Protects. You may want to do this when you move to a new home. Follow the steps below on each Nest Protect that you want to reset.

1. Press and hold the button. Nest Protect will chime and glow blue.
2. Keep holding the button until Nest Protect begins to say its version number. Then release the button.
3. Nest Protect will start a verbal countdown and tell you that it's erasing all settings. You can cancel the reset by pressing the button during the countdown.
4. It will restart after a few seconds.

Your Nest Protect will still detect smoke and carbon monoxide after being reset.

Go to [g.co/nest/protectreset](https://g.co/nest/protectreset) for complete reset instructions.

### Technical Specifications

- Temperature range: 4.4 °C (40 °F) to 37.8 °C (100 °F).
- Humidity range: 20% RH to 80% RH (non-condensing).

## Wireless interconnect

Nest Protects connect wirelessly to each other so that when one speaks, they all speak. This means that when one Nest Protect raises any kind of alert, every Nest Protect in the house will tell you which room the smoke or CO is in. For example, if you're in the bedroom and the alarm goes off in the basement, the Nest Protect in the bedroom will tell you where the smoke or CO is. To silence the alert, go to the room where the alarm was triggered. All the Nest Protects in the house can be silenced from there. Either press the button on the Nest Protect or use the Nest app to silence the alarm.

Nest Protect does not have a wire for interconnect because it connects wirelessly. There's no need to connect any Nest Protect wire to the interconnect wire coming from the ceiling or wall.

Nest Protect - Battery (model numbers 05A-E and A13) and Nest Protect - Wired 230 V (model numbers 05C-E and A14) are compatible and can be interconnected wirelessly. Nest Protect wireless interconnect will not work with other smoke, CO and heat alarm brands.

Nest Protects can generally communicate with each other if they're 15 m (50 feet) or less apart inside a home. Some features of a home may reduce Nest Protect's wireless interconnect range, including the number of floors, number and size of rooms, furniture, type of building materials, suspended ceilings, ductwork, large metal appliances and metal studs. This kind of interference can be overcome by adding more Nest Protects that can route wireless signals around obstructions.

### WARNING

- The range and proper operation of any wireless device will vary depending on its surroundings.
- Nest Protect alarms are not to be used outdoors or to transmit between buildings. The alarms will not communicate properly in those conditions.
- Metal objects and metallic wallpaper may interfere with signals from wireless alarms. Test your Nest Protects with metal doors opened and closed.

**Note:** Nest Protect can be used as a single-station or multiple-station alarm. You can connect up to 18 interconnected Nest Protects to your account.

ATTENTION: Please read carefully and keep this user guide in a safe place.  
Refer to the included Safety and Warranty document for regulatory  
information and additional precautions.