



Google Nest Cam IQ Outdoor
Product environmental report





Environmental Sustainability at Google

At Google, operating in an environmentally sustainable way has been a core value from the beginning. As our business has evolved to include the manufacturing of electronic products, we've continually expanded our efforts to improve each product's environmental performance and minimize Google's impact on the world around us. This report details the environmental performance of Nest Cam IQ Outdoor over its full life cycle, from design and manufacturing through usage and recycling.

Product highlights

The Nest Cam IQ Outdoor is designed with the following key features to help reduce its environmental impact:

-  99% paper and fiber-based packaging
-  Power adapter with Level VI efficiency rating

Greenhouse gas (GHG) emissions

The production, transportation, use, and recycling of electronic products generate GHG emissions that can contribute to rising global temperatures. Google conducts a life cycle assessment on products to identify materials and processes that contribute to GHG emissions, with the goal of minimizing these emissions.

Estimated GHG Emissions for Nest Cam IQ Outdoor¹

Total GHG emissions over three-year life cycle: 115 kg CO₂e



Energy efficiency of Nest Cam IQ Outdoor

Nest Cam IQ Outdoor uses an energy efficient DOE Level VI power adapter.²

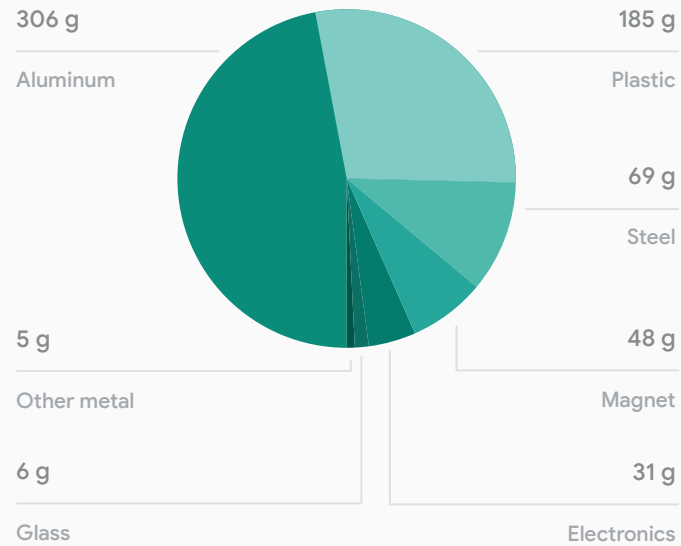
Mode	115 V, 60 Hz
Power adapter average efficiency ³ (5V output)	82.6%
Power adapter average efficiency ³ (15V output)	88.3%
Power adapter no-load power ⁴	0.02 W
Annual energy use estimate ⁵	34 kWh/y
Annual cost of energy estimate	US\$4.42 ⁶

Material use

Nest Cam IQ Outdoor is designed to be small. Minimizing the size and weight of the Nest Cam IQ Outdoor allows materials to be used more efficiently, thereby reducing the energy consumed during production and shipping as well as minimizing the amount of packaging.

Materials used in Nest Cam IQ Outdoor

Total materials:
650 g⁷



Packaging

Packaging for Nest Cam IQ Outdoor uses 99% paper and fiber-based materials. We have designed the Nest Cam IQ Outdoor packaging to minimize its weight and volume, which helps conserve natural resources and allows more devices to be transported in a single shipping container.

Packaging materials for Nest Cam IQ Outdoor

Configuration	Total weight
U.S. retail	842 g

Ethical sourcing

Google and its subsidiaries are committed to ensuring that working conditions in our operations and in our supply chains are safe, that all workers are treated with respect and dignity, and that business operations are environmentally responsible and ethically conducted. Learn more about our expectations for manufacturing partners in the [Google Supplier Code of Conduct](#), our [2018 Responsible Supply Chain Report](#), and our [Conflict Minerals Policy](#).

Learn more

For more information about our environmental sustainability initiatives—including case studies, white papers, and blogs—please see our [Sustainability website](#) and our [2018 Environmental Report](#).

Learn how to recycle your used device in the [Google Store Help](#) section of our website.

Endnotes

1. GHG emissions estimates are calculated in accordance with ISO 14040 and ISO 14044 requirements and guidelines for conducting life cycle assessments, and include the production, transportation, use, and recycling of the product, accessories, and packaging.
2. Level VI is the highest available efficiency rating for power adapters as defined in the [International Efficiency Marking Protocol for External Power Supplies Version 3.0](#).
3. Average efficiency of power adapter when input and output power is measured at 25%, 50%, 75%, and 100% of rated output current and averaged. Tested in accordance with the [U.S. Department of Energy Uniform Test Method for Measuring the Energy Consumption of External Power Supplies](#).
4. Power measured when the power adapter is plugged into an AC power source without being connected to the product. Tested in accordance with the [U.S. DOE Uniform Test Method for Measuring the Energy Consumption of External Power Supplies](#).
5. Estimated energy use is based on 24 hours use per day, 12 hours in day mode, 12 hours in night mode.
6. The average residential cost of energy for U.S. households is \$0.13 per kWh (source: [U.S. Energy Information Agency Feb 2019 report](#)).
7. Product material weights are for Nest Cam IQ Outdoor only. For the U.S. configuration, an additional 644 g of electronic accessories can be included in-box.