

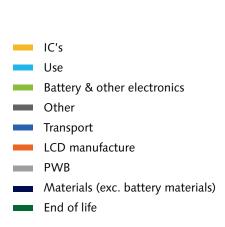


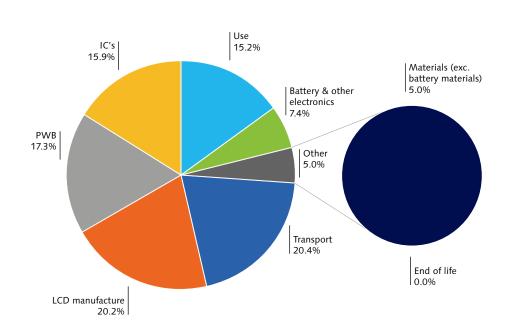
Product Carbon Footprint:

TOUGHBOOK S1

At Panasonic, we are committed to continually improving the environmental performance of our products and processes. By calculating a product's carbon footprint, and understanding the impacts that occur throughout its lifecycle, we can innovate smarter – reforming frontline processes across various sectors to reduce CO₂ emissions and make effective use of limited resources.







Panasonic uses PAIA (Product Attribute to Impact Algorithm) to calculate our product carbon footprints.

PAIA is a streamlined LCA tool developed by MIT's Materials System Laboratory which takes into consideration the specifications listed under 'Assumptions' on Page 2 to calculate the product's CO_2 equivalent emissions based on the footprint of a corresponding industry-average device.

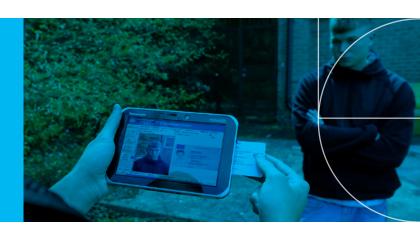
This product's estimated carbon footprint:

71.1 kgCO₂e +/- 19.1 kgCO₂e

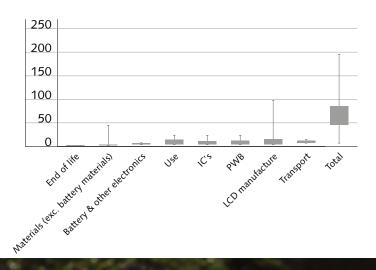
Panasonic CONNECT

To provide our customers with greater transparency, this chart demonstrates the degree of uncertainty that exists within the PAIA model for product carbon footprinting.

Uncertainty can result from differences in data, assumptions, and methodology used.



GWP impact/product (kg CO, eq)



Product lifetime	Product size	Screen size	Assembly location	Energy demand (yearly TEC)
5 Years	193mm x 131mm	7	Taiwan	4.29

