

Monitor

Product Category: Electronics

Specifications:

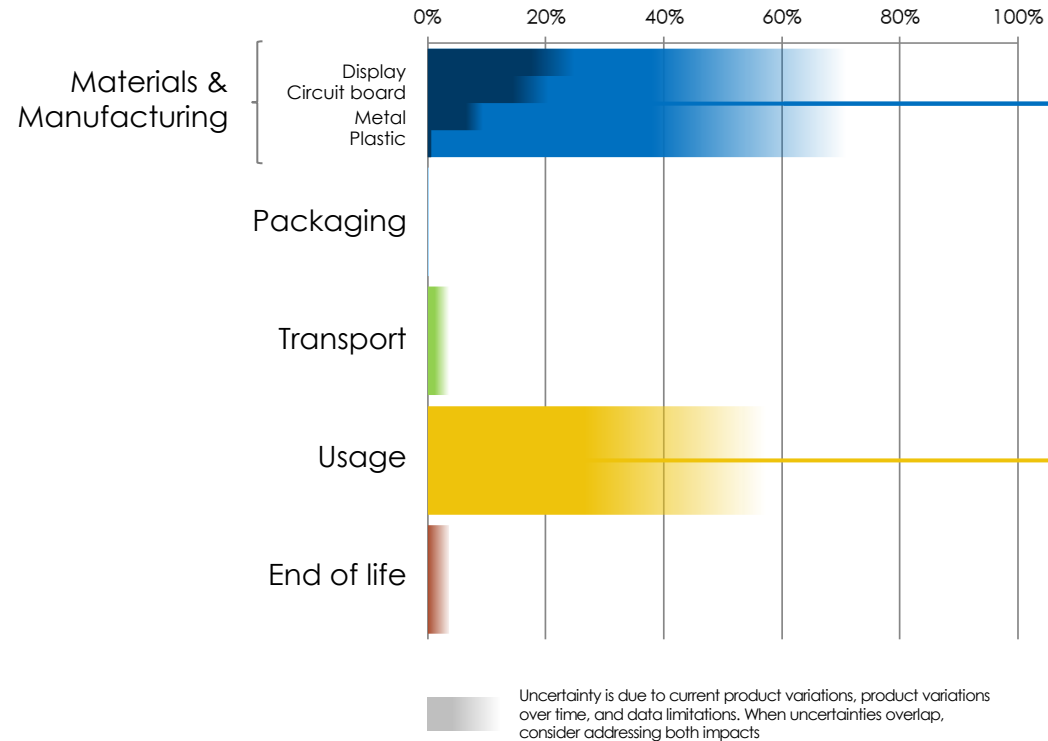
- 15" LCD screen
- Weight: 22 – 24 lbs
- Brightness: 200 Candelas
- Contrast ratio: 100:1

Lifetime: 6 – 10 years

Usage: 5 – 10 hrs use, 2 – 4 hrs sleep, 10 – 17 hrs idle per day

Functional Unit: Impact per hour of usage

Lifetime impact by percent



Sustainable Design Strategies

- Design for durability**
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- Design for repair, upgrade, and recycling**
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- Design for energy efficiency**
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Data from:
• Bhakar, V., Agur, A., Digalwar, A. K., & Sangwan, K. S. (2015). Life cycle assessment of CRT, LCD and LED monitors. *Procedia CIRP*, 29, 432-437.
• Sociof, M. L., Overly, J. G., & Geibig, J. R. (2005). Environmental life-cycle impacts of CRT and LCD desktop computer displays. *Journal of Cleaner production*, 13(13-14), 1281-1294. <https://doi.org/10.1016/j.jclepro.2005.05.014>
• Apple (2011, July). Thunderbolt Display Environmental Report. Retrieved February 6, 2020 from https://www.apple.com/environment/pdf/products/archive/2011/ThunderboltDisplay_PER_july2011.pdf
• Zhang, L. (2014). Empirical Analysis of product teardown of a Dell monitor [unpublished].
• Missing data on packaging and transportation in some publications supplemented by calculations using the Idemat 2020 and Ecolvent 3-5 database.