Thermo-graphene™ modules for smart heaters

The Graphene Radiator is a virtual fireplace that generates heat from graphene, the thinnest (one-atom-thick) and strongest material in the world. Recently discovered, its discoverers were awarded the Nobel Prize in Physics (2010). And now, we bring it to use, where heat can be generated more efficiently with less space and 10~30% less energy. Graphene Heater Modules can be further used as defrost/defogging windows for EV, cameras, and LiDAR sensors



Model number: GS2023R001, Length 11.8 in, Width 16.8 in, Height 3~15 in (folded and unfolded), Weight 7 pounds, 110~220V, 200W-1kW. The product can also be combined with an additional bottom display.

GRAPHENE SQUARE



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graphene radiator

a virtual fireplace with hologram display and transparent graphene heaters





Invisible becomes Luxuary



foldable design for portability

Foldable Design for Portability: The flexibility and transparency of graphene enable the thinner and lighter design of a heating device that can project 3D hologram images through the reflected LCD screen, mimicking a real fireplace. The Z-shaped 3 pieces of The Graphene Radiator are completed foldable and angle-adjustable, so it can be carried like a laptop and simply unfolded to use. The front window can be mildly heated up to 75°C (167°F) for mild heating (~200W), while to bottom plate can be heated up to 400°C (752°F) for strong heating (~1kW).

thinnest & strongest
foldable & portable
energy-saving
eco-friendly

Nobel prize winning technology

Graphene, a single sheet of graphite, is the thinnest, the strongest, and the best conductor of heat and electricity, recently discovered and awarded Nobel prize in 2010. When a voltage is applied across the graphene sheets, the honeycomb-structured carbon atoms collide with electron flows and emit strong mid-infrared (mid-IR) radiation, which is more efficient in heat generation compared to conventional coil heaters. Thus, when utilized as a transparent heat radiator, it is advantageous in terms of power-saving, space-saving, and design aspect.

