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Graphene Electrostatic Microphone QIN ZHOU[1], SEITA ONISHI[2], A. ZETTL[3], Department of Physics, University of California - Berkeley — We demonstrate a wideband electrostatic graphene microphone displaying flat frequency response over the entire human audible region as well as into the ultrasonic regime. Using the microphone, low-level ultrasonic bat calls are successfully recorded. The microphone can be paired with a similarly constructed electrostatic graphene loudspeaker to create a wideband ultrasonic radio.

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