Supporting Information

High-performance Near-infrared Schottky-photodetectors Based Graphene/In₂S₃ Van der Waals Heterostructures

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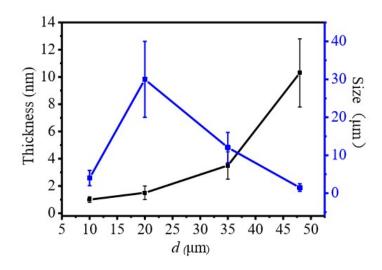


Figure S1 The confined space (d) dependence of β -ln₂S₃ sheets thickness (black bar) and size (blue bar).

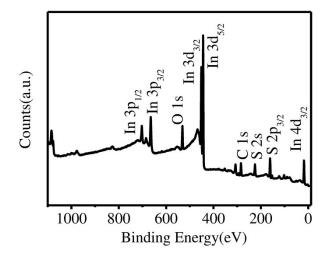


Figure S2 XPS spectrum of the as-grown β -In₂S₃ nanosheets.

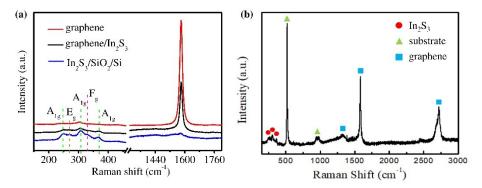


Figure S3 (a) Raman spectra of the as-grown β -In₂S₃ nanosheet, graphene and heterojunction; (b) Raman spectra from 200-3000 cm⁻¹ of graphene/In₂S₃ heterostructure.



Figure S4 Schematic diagram of space-confined chemical vapor deposition system to synthesize $\beta\text{-In}_2S_3$ nanosheets.