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We introduce a real  $C^*$ -algebra over the ring of all real measurable functions as a real symmetric Banach-Kantorovich  $*$ -algebra whose vector norm satisfies real  $C^*$ -like conditions and show that such an algebra admits a unique up to a  $*$ -isometry representation as a measurable Banach bundle of real  $C^*$ -algebras with vector-valued lifting. (Received September 20, 2016)