

Echodyne Corp
Response for Border Security Technology Consortium
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Echodyne has developed and produced the Metamaterials Electronically Scanning Array (MESA™) radar that provides phased-array like performance, but at orders of magnitude lower Cost, Size, Weight, and Power (C-SWaP).

Echodyne's first commercially available product, EchoFlight, was designed for airborne use on drones and other SWaP-challenged platforms. For their second commercial product, Echodyne developed a ground-based security and surveillance radar variant (the EchoGuard radar) that is focused on detecting non-traditional targets like drones, vehicles, and people walking. Specifically for the border security scenario, this low C-SWaP mobile security and surveillance radar can be used to detect slow moving ground targets (e.g. walkers, vehicles) or overhead targets (e.g. aircraft/drones) entering the United States illegally.

Echodyne has worked with several commercial and government partners on the border security use case. For example, Echodyne is part of the charter class of DHS/CBP's Silicon Valley Innovation Program and is currently in Phase IV, the final phase. In concert with DHS/CBP, Echodyne is also working with partners like Johns Hopkins-APL and the University of Washington APL who are integrating the MESA radar into security solutions on behalf of their government customers. Finally, Echodyne's radars are integrated into border security towers produced by a commercial company for DHS/CBP's use as well.

Echodyne is a privately held venture capital backed company that was founded in December 2014 and is located in Kirkland, WA. The company has approximately 85 employees and is growing at approximately 10% per quarter.