

Question 7: Purpose of Experiment
Weibel Xenta

Applicant: Weibel Equipment, Inc.
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The Weibel XENTA-D3 is a 3D X-band surveillance radar using advanced sensor and signal processing designed to detect low, slow, and small objects such as drones. The XENTA-D3 provides radar operators with range, height, bearing and target classification of targets at a distance of up to 75 kilometers. Smaller, commercially available drones such as a DJI Phantom-4 can be detected and tracked at up to 10 kilometers. The Weibel system is a non-developmental item that was funded entirely with company funding.

Weibel Equipment, Inc. has leased a 6,000 square foot building at 2994 S. Kyla Avenue, Yuma, Arizona. We plan to use this as a staging ground for experiments and demonstrations. We will fly a DJI Mini 2 drone (or similar) by an FCC licensed pilot within our leased property for short tests of the radar. We don't expect the tests to last more than ten minutes. Unless there is a problem that needs to be resolved, we don't expect the tests to be more than once or twice a day during normal business hours. Most of the flights will be at very low altitude since that is the most stressful test case. The highest we expect to fly at this location is 50 feet. Our protocols require a spotter to maintain visual contact with the drone at all times.

Our local Yuma point of contact is Gerard Murello, (928) 259-1182.

If you have any questions, please feel free to contact me at (571) 278 1989 or pete@weibel.us
Thanks.