



HD Air Studio customizes **its Infinity MR-S2 gimbal** for Drone Systems ApS



Client

Drone Systems ApS performs thermographic mapping of district heating supply grids using drones.

About the project

Drone Systems has its core qualifications and competencies within drone operation, systems integration and software development. Currently the primary market segment are district heating plants, for which the company provides a complete solution consisting of reconnaissance, flight survey planning, security measurements, legal permissions, flight, post processing, analysis of thermal data and presentation in custom web platform.

Unsatisfied with the level of stabilization and time-consuming set-up of its previous gimbal, Drone Systems turned to HD Air Studio looking for a better solution. The project covered both 2-axis and 3-axis gimbals, so Drone Systems could handle a variety of payloads and projects. Drone Systems opted for Infinity MR-S2 with custom modifications to stabilize the thermal sensor.

How HD AIR Studio helped

- ✓ HD Air Studio recommended Infinity MR-S2 gimbal to Drone Systems, since the gimbal is very light, yet powerful thanks to reinforced materials. Practically speaking, this ultra-light construction allows Drone Systems to make each drone flight a little longer.
- ✓ After successful tests of a standard unit of Infinity MR-S2, HD Air Studio introduced custom modifications to the gimbal to optimize it mechanically for the use of an unusual thermal sensor. This saved a lot of time for Drone Systems, since each unit of customized Infinity MR-S2 became ready for a new mission literally after clicking the switch-on button.
- ✓ Moreover, to make this custom gimbal maintenance-free, HD Air Studio supported Drone Systems in selecting the software settings that would work best while monitoring heating lines.
- ✓ Drone Systems has used HD Air Studio gimbals, both 2-axis and 3-axis, since 2016. Since that time the client has expanded its drone fleet and ordered more gimbals. Drone Systems has covered more than 6,500 km of district heating pipes, using HD Air Studio gimbals.



„Our thermal data collection is performed in a cold and challenging environment. In that regard, HD Air Studio has been helpful and committed to providing targeted assistance and has in addition implemented custom measures to enhance our data collection quality. We find that HD Air Studio are both professional, agile and innovative while maintaining a pragmatic solution approach.“

Drone Systems ApS