

Microdrones *Expanding the Lineup of Fully Integrated Systems*



Microdrones President Vivien Heriard Dubreuil is expanding the company and product lineup around the daily needs of the geomatics, engineering and construction trades. Fully integrated turnkey systems include everything that a field professional needs to collect and make use of data. The workflow is clean and simple: plan, fly, process and visualize.

Microdrones has been engineering and perfecting unmanned aerial vehicles and integrating our drones with the most advanced sensors, software and hardware for more than a decade. Our fully integrated systems are built upon the needs of professionals in the construction, engineering and geomatics trades.

At first, our job was to design and build the most durable and resilient drones. However, today, professionals demand an easy turnkey solution that provides a faster, more effective way to capture elevation data with extreme accuracy. That's why we've launched an entire family of fully integrated aerial systems, with cutting edge technology, so that our customers can work smarter while cutting costs, saving

time, and completing projects more easily.

We view our role as delivering a full end to end solution: Plan, Fly, Process, Visualize. So we're not just talking about the drone and sensors, but also the integrated workflow, software, training and support that ties it all together and makes life easy for the geomatics professional. We are more than just a drone company- we're a solutions company. That's why we call our product line-up mdSolutions.

We started with the mdMapper series of photogrammetry-based packages. Next came mdTector, based on customer demand for an easy to use methane gas detection system. Most recently, we saw the need for very quick processing of



Vivien Heriard-Dubreuil,
President

data to create 3D pointcloud models, which lead to the development of mdLiDAR, a series of fully integrated LiDAR solutions.

All of our mdSolutions are engineered so that geomatics and construction professionals can start using them in the field and bring meaningful data back to the office for visualization. In order to maintain our competitive edge and provide the most effect solutions, we are advancing new additions to

our lineup with features and pricing that fit a broader range for our customers.

LiDAR is going to play an important role in our future. The mdLiDAR3000 is the most recent entry in our series of fully integrated LiDAR solutions. It offers the complete package of a high-end UAV LiDAR and camera all integrated into one system. The camera and laser technology, integrated with the mdLiDAR3000, accommodates high end requirements for data collection in the areas of construction,

PLAN

FLY

PROCESS

VISUALIZE

mining, and engineering, as well as surveying and research. It also includes a SONY RXIRIII for easy colorization of the pointcloud.

We also continue to offer our smaller laser-based solution in the mdLiDAR1000. This lighter model has one integrated laser scanner and is presented as an entry-level UAV LiDAR solution. With mdLiDAR, we are adding new tools for customers to expand their businesses but also to address new markets and new applications; like being able to map power lines and vegetation, and output detailed pointcloud models. Having multiple entries in our LiDAR series enables our customers to select the best possible solution to meet their needs more efficiently.

Our philosophy has been simple- work to understand what professionals are trying to accomplish, and provide the systems they need. So, in addition to a new LiDAR system, we are adding two new systems to round out our mdMapper offering. Each mdMapper system is outfitted to deliver custom aerial surveying, mapping, and precision agriculture, tailored to the needs of the customer, ranging from the mdMapper1000DG to the entry level, aerial mapping package in the mdMapper200.

Our top-line entry, mdMapper1000DG, uses direct georeferencing where customers are able to save time by using fewer or no ground control points for less sidelap and more productivity.

Not all of our customers may need the power of direct georeferencing just yet, but they still need highly accurate and precise data collection. That's where the mdMapper1000PPK comes in and provides high accuracy with just 1-3 ground control points. It's ideal for a survey crew looking to save time and complete projects more easily. Furthermore, down the road, if their business is ready to expand to DG,



the mdMapper1000PPK is easily and affordably upgradeable via the DG READY firmware update.

At an even lower price point comes the new mdMapper1000+. This system is ideal for those who do not need DG or PPK and are willing to install ground control points

on site for their projects. For example, customers who frequently fly the same site repeatedly find this to be an adequate solution. Best of all the mdMapper1000+ is ready to expand with the user. It's both PPK ready and DG ready with a practical and affordable firmware upgrade.

Our turnkey systems empower professionals to plan a mission, fly the UAV, process data, and fulfill their project. It's important to note, that our technology is complementary to the people, talent and principles of surveying.

We aim to be another tool in the box to get the job done. Our entire lineup of mdSolutions empowers the Geospatial professional to be more efficient and more effective in the field.

Our aim is to be the global leader in providing professionals with the hardware, software, workflow, training and support they need to produce the right data. Microdrones systems are a natural fit, both from a safety and efficiency standpoint, and also from an investment standpoint. By expanding our lineup we can help our customers match the most acceptable solution to their needs- we're able to provide the full suite of solutions to meet our customers where they are price wise and in terms of accuracy and technology. Then the question is no longer should I chose a Microdrones system, but rather which Microdrones system is right for me.



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