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InDro Robotics Unveils Advanced New Flying Robot Platform

Vancouver, British Columbia, March 26th, 2026. InDro Robotics, the aerial and ground robot division of INDROTEK, today announced a new R&D "flying robot" platform designed for researchers and commercial developers. Built on a rugged carbon-fibre airframe, the system packs high-performance hardware and a flexible sensor suite. As InDro's Head of R&D and Sales explains, "this isn't just a drone. It's more like a flying robot." The ready-to-fly system is now being released to the broader robotics community. The key onboard compute is provided by an NVIDIA Jetson Orin NX module, paired with a PX4 autopilot stack and ROS2-based software tools for advanced autonomy. By default it carries multiple cameras, which are forward-looking and downward-looking HD pinhole cameras, plus stereo depth cameras for SLAM navigation, and GPS for outdoor positioning. InDro emphasizes that the design is meant to be highly customizable. Developers can attach additional payloads such as lidar, thermal imagers, gas sensors or other modules to suit specific projects and missions.

Key Platform Features

Unlike off-the-shelf consumer drones, InDro's platform was built from scratch to meet demanding R&D needs. The high-compute Orin NX + PX4 combination delivers tremendous horsepower for vision processing and AI, enabling advanced tasks like autonomous flight in confined spaces and adaptive landing. InDro Robotic highlights that the platform includes a suite of development resources (ROS2 packages and sample missions) so teams can quickly prototype new capabilities. Internally, engineers have fitted three depth cameras oriented around the vehicle, which feed visual SLAM (simultaneous localization) algorithms so the drone can navigate indoors or in cluttered environments without GPS. The frame also includes a downward-looking HD camera to identify safe landing zones. In summary, the drone is sold not as a finished product but as a research-ready robotic platform. Its basically a hardware and software "sandbox" that teams can extend for innovative

autonomy projects (multi-robot swarms, complex sensor fusion, etc.). Future upgrades are planned by the InDro R&D team, which involves the integration of more sensors, such as lightweight scanning lidar or longwave infrared cameras, making the platform a true testbed for next-generation aerial robotics.

Versatile Industrial and Commercial Use Cases

Thanks to its modular design, the InDro flying robot can be outfitted for a wide range of applications. For example, adding a lidar sensor would allow extremely high-resolution 3D mapping of structures and terrain. Drones with lidar have proven to be able to produce centimetre-accurate point clouds and 3D models for construction, utilities and survey work. Such scans are faster and safer than traditional ground surveys. Likewise, mounting a thermal (infrared) camera turns the drone into a flying heat sensor. In one initiative, thermal drones systematically scanned all buildings in a town, highlighting heat losses through roofs and walls. This kind of aerial heat-map helps facility managers and homeowners pinpoint insulation failures and plan energy-saving upgrades. In practice, an InDro robot with thermal imaging could perform similar tasks in warehouses or factories, locating hotspots (equipment inefficiencies or safety hazards) without putting people at risk.

Other payload examples show the platform's versatility. By adding barcode or RFID scanners and precise indoor navigation, an InDro drone can automate warehouse inventory checks. Commercial systems already fly warehouse aisles night after night, scanning shelves to count stock and flag missing items. These warehouse drones "eliminate… scanning barcodes, locating items, and conducting audits" much faster and more accurately than humans. They use advanced navigation sensors to fly safely between tight rack aisles and then sync data with inventory software. InDro's research platform could be used to prototype similar solutions for logistics, quickly validating new indoor-flight algorithms or sensor combinations for inventory management.

In media and entertainment, drones are already revolutionizing coverage of events. News and sports broadcasters routinely deploy camera drones to capture aerial perspectives that were once only possible with helicopters. These drones create “visually stunning” shots and add an “extra dimension” to live coverage of races, concerts, or ceremonies. Smaller craft like the InDro robot can easily operate around venues, giving TV producers novel angles (on stage, over the crowd, tracking an athlete) at a fraction of the cost of a manned helicopter. For example, FPV drone teams have been capturing dynamic first-person views of ski races and cycling events as recently seen during the Olympics, which provides greatly enhanced storytelling. Similarly, drones equipped with broadcast-grade cameras are used at festivals and parades to safely capture overhead footage without blocking attendees on the ground. InDro’s platform, with its high-speed autonomy and pilot-assist software, could be adapted for such live event cinematography.

Search, Rescue and Security Applications

The InDro flying robot can also serve public safety and defense roles. In search-and-rescue missions, drones with thermal and visual sensors save lives by quickly locating lost or injured people. For instance, after earthquakes in Nepal, UAS equipped with thermal imagers scanned rubble piles until they detected human body heat, which is a method credited with finding survivors who were invisible to ground teams. In mountainous terrain or dense forests, such aerial searches dramatically cut down search times and reduce risks to rescuers. By carrying a powerful compute module, the new InDro drone could even run onboard AI to recognize humans or pets on the ground. When flying over wilderness or disaster zones at night, its FLIR camera could highlight warm bodies against the cold background. Indeed, recent U.S. SAR cases report drones finding hikers and missing seniors within minutes using thermal scanners.

On the security and defense side, the platform’s extensibility allows integration of specialized payloads. Military and border-surveillance drones today commonly use multispectral cameras (combining visible, infrared and even radar sensors) to

achieve true 24/7 coverage. Thermal cameras are critical for detecting people or vehicles at night or through foliage, while synthetic-aperture radar (SAR) can see through clouds or in all weather. An InDro research drone could carry lightweight radar units or AIS trackers to experiment with these capabilities. Additionally, ruggedized radios and anti-jamming GPS could be added for secure operations, as often used in modern UAV surveillance to prevent hostile spoofing of navigational signals. In a border-security scenario, the robot could participate in multi-drone patrols. AI routines onboard might flag suspicious movement (e.g. a heat signature moving toward a fence) and relay coordinates to ground teams. InDro's emphasis on ROS2 and open autonomy makes it ideal for testing such cooperative security tactics. Perfect dual-use case as the system is very customizable.

Future Directions: New Sensors and Enhancements

Looking ahead, InDro Robotics, part of INDROTEK's robotic ecosystem, plans to expand the platform's sensor suite based on customer feedback and mission needs. One obvious addition is LiDAR scanning. Affordable solid-state lidar sensors can be mounted under the fuselage to produce instant 3D meshes of terrain or structures. As DJI and others have noted, drone-based lidar yields centimetre-level models that outperform standard photogrammetry in accuracy. Combining lidar with the on-board cameras would give the InDro robot very rich environmental data. Thermal imaging is another priority, both for energy inspection (e.g. roof and warehouse audits) and search/rescue.

Other promising payloads include hyperspectral or multispectral cameras for agriculture and conservation. Gas/radiation sensors for environmental monitoring in industrial sites, and even acoustic arrays to overhear distant events or gunfire. For example, drones are already being tested with laser-based methane detectors and particulate sensors to safely inspect pipelines and power plants.

In Summary

INDROTEK's new InDro Robotics flying robot marks a significant step toward a more capable, research-grade aerial platform. By combining high-end compute (NVIDIA Orin), flexible software (ROS2/PX4) and an open architecture, the system empowers developers to innovate across industries. Whether used for industrial inspection, inventory management, broadcast media or critical search-and-rescue. The InDro robot is built to be customizable, with future sensor add-ons unlocking even more use cases. This launch demonstrates the commitment to supporting advanced autonomy as InDro puts it, the R&D drone "pushes aerial vehicles into a new frontier" on par with InDro's ground robots.

About INDROTEK

INDROTEK is a Vancouver-based group of robotics companies (including InDro Robotics, Bravo Zulu, and Stratocom) that designs, integrates and operates AI-powered air and ground systems for defence, critical infrastructure and commercial customers. The group develops cutting-edge autonomous systems for customers such as government agencies and critical infrastructure operators. INDROTEK's mission is to bridge commercial and defense technology needs while adhering to all regulatory and security requirements.

Contact: For further information, please visit www.INDROTEK.com or contact investor relations at news@INDROTEK.com.

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Enhanced Disclaimer & Risk Language

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