



CUSTOMER SUCCESS STORY

Driving Innovation in Manhole and Confined Space
Inspection Technology with RinnoVision and IONODES

MANHOLE AND CONFINED SPACE INSPECTIONS

RinnoVision, a leading provider of sewer and aqueduct inspection solutions, received a significant request from their existing customer base. These customers needed an improved manhole and confined space inspection solution that would optimize their operators' workflow and increase operational efficiency.

To bring their vision to life, they partnered with the leading Canadian video technology company IONODES to develop and manufacture a 360-degree inspection system. This partnership led to the creation of the RV-MAX 360, a unique state-of-the-art manhole and confined space inspection system that has revolutionized operational—

efficiency, personnel safety, and cost-effectiveness in water and sewer network maintenance operations worldwide.



THE SOLUTION



The RV-MAX 360 represents a significant advancement in manhole and confined space inspection. It is the first affordable, easy-to-use, and carry-around inspection system that allows a single unspecialized operator to conduct a full inspection in under 5 minutes. Moreover, its built-in Wi-Fi and 4G/LTE networking connectivity make it the first fully connected system to ever hit the market, a unique aspect that enables a new level of operational efficiency and oversight for public works departments, contracts, and Subsurface Utility Engineering (SUE) firms. The RV-MAX 360's dual high-resolution 187-degree lenses allow a seamless 360-degree view, ensuring that no detail goes unnoticed, and an embedded GPS for automatic geolocation of each inspection. Its powerful 360-degree light module features six intensity modes, allowing operators to adapt to various opening sizes.

POSITIVE CUSTOMER OUTCOME

Paired with the intuitive RinnoView software which provides live streaming capabilities during recording, this system ensures smooth operation and thorough inspections.

This advanced system enables a single operator to carry out up to 80 inspections per day, which is twice as much as what was previously possible. To perform an inspection, the RV-MAX 360 is lowered into the structure using the extendable pole or tripod which are supplied with the system. The single operator of the RV-MAX 360 can simply arrive at the structure to inspect, start recording, lower and raise the camera, stop the video, and be certain that the entire structure has been filmed, whereas competing heavy devices may require the intervention of two or three people and take a lot more time to complete.

The impact of the RV-MAX 360 system on RinnoVision's customer base has been transformative, significantly enhancing its operational capabilities across various sectors. Public Works Departments can now inspect more manholes per day using fewer resources. This increase in efficiency has greatly improved their infrastructure assessment programs, enabling them to quickly identify and address issues, thereby ensuring the safety and reliability of our essential but unfortunately very outdated subsurface infrastructure

A Visionary Perspective



Reflecting on the partnership with IONODES, **Félix Ladouceur, General Manager of RinnoVision**, shared how crucial their collaboration has been; *"IONODES has enabled us to develop and manufacture a disruptive manhole and confined space inspection system, the RV-MAX 360, which is improving subsurface infrastructure asset management programs worldwide by allowing cities, contractors and SUE firms to drastically improve their efficiency while diminishing the bottleneck caused by the scarcity of human resources."*

THE RV-MAX 360 EXPERIENCE

Contractors in sewer and aqueduct construction have seen a notable increase in daily revenues due to the enhanced efficiency of the RV-MAX 360 system. By completing more inspections in less time, they can undertake more projects and meet tight deadlines, all while maintaining high standards of quality.

Subsurface Utility Engineering (SUE) firms have also greatly benefited from the capabilities of the RV-MAX 360. This system allows for thorough inspections and detailed reporting, elevating the level of service these firms can provide. This has led to increased client satisfaction and loyalty, further solidifying RinnoVision's reputation in the industry.



Lightning-fast embedded Wi-Fi hotspot for data transfer



Get a 360-degree 4k video image



Georeference each inspection using the embedded GPS



IP68-based water & dust resistant design



LOOKING AHEAD

As RinnoVision continues to deploy the RV-MAX 360 across the world, the future looks promising. Competitively priced, the RV-MAX 360 offers exceptional value when compared to similar systems that can cost significantly more. With its excellent performance and affordability, it makes cutting-edge inspection technology more accessible in the industry. With continuous enhancements in cloud and SIM card connectivity, the system is primed to enhance subsurface infrastructure management on a global scale. In partnership with IONODES, RinnoVision remains committed to driving innovation and delivering value to its customers.

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www.ionodes.com



Head Office (Canada)
1-450-696-1060
1-844-696-1060 (Toll Free)



sales@ionodes.com

EMEA Office (Luxembourg)
+352 661 23 03 33

