# Robotic Inspection

from Unipart Rail

A unique robot driven infrastructure inspection and reporting solution

Lightweight robots for internal & external inspection

Multifunctional camera and sensing options

Live image feed, analysis & smart reporting

Inspection management system

UNIPART RAIL

Acuity Robotics

SERVING THE WORLD'S RAILWAYS

## World-class expertise in the delivery of remote data capture and analysis on structures, using the worlds smallest robots.

Working in partnership with Unipart Rail, Acuity Robotics specialise in bespoke robotic systems to capture data and imagery in order to provide critical intelligence on metallic infrastructure.

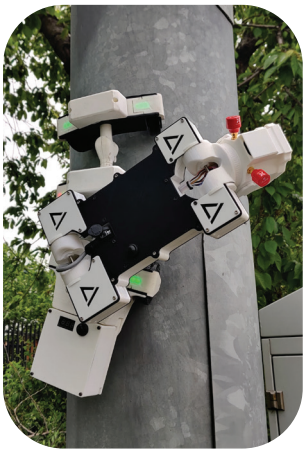
The data is captured in real-time and analysed using the **Acuity Robotics Infrastructure Insights Data Dashboard** (ARIID), a cloud based management tool for robotic data capture that provides smart reporting to manage inspections and enable predictive maintenance schedules. ARIID provides asset owners with instant access to monitor the health of their infrastructure and to produce detailed inspection reports to support improved decision making.

## Features & Benefits

- Lightweight, untethered robots that can access hard to reach places on live infrastructure
- Multifunctional camera and sensing options for internal and external inspection
- Advanced data and analytics to support the creation of predictive maintenance schedules
- Live image feed, analysis and smart reporting on infrastructure, alongside an inspection management system

## External Inspection - Squirrel

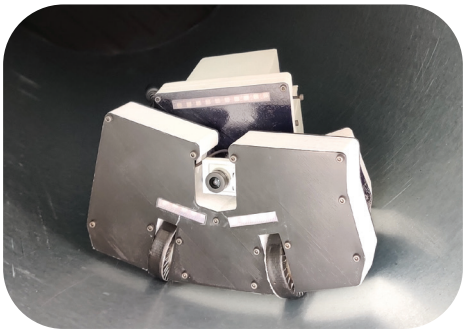
The Squirrel robot is highly manoeuvrable, with six-wheel drive and a coupled super dexterous camera turret.



It provides a remote operator an unparalleled vantage point to inspect the surface of structures and surroundings. Squirrel has payload options including metal thickness sensors, thermal and depth cameras.

## Internal Inspection - Stoat

With four wheels, the Stoat robot is operated remotely (untethered), transmitting low latency video at 28ms at 720P resolution to head mounted goggles for real time analysis and navigation, along with LED lights for inspecting internal pipework.



For more information on the Acuity Robotics range, please contact **innovation@unipartrail.com**

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