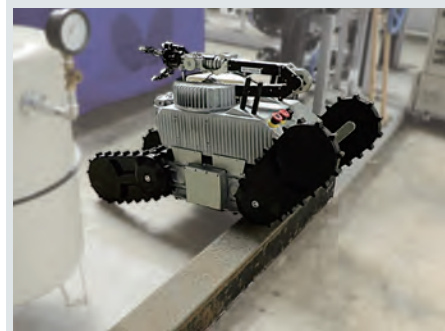


Network Architecture of EX ROVR

At any time and from anywhere around the world, you can control EX ROVR and review inspection data.



Remote operation



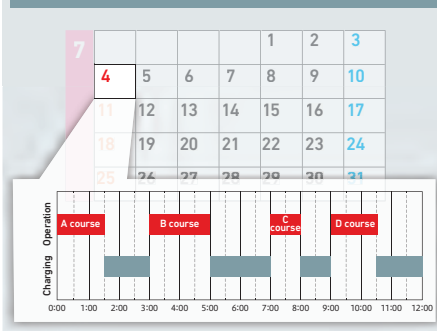
Real-time monitoring



Inspection data analysis



Inspection scheduling



Detailed information and videos, etc for EX ROVR are available. Scan to go website.

https://www.mhi.com/products/energy/ex_rovr.html EX ROVR

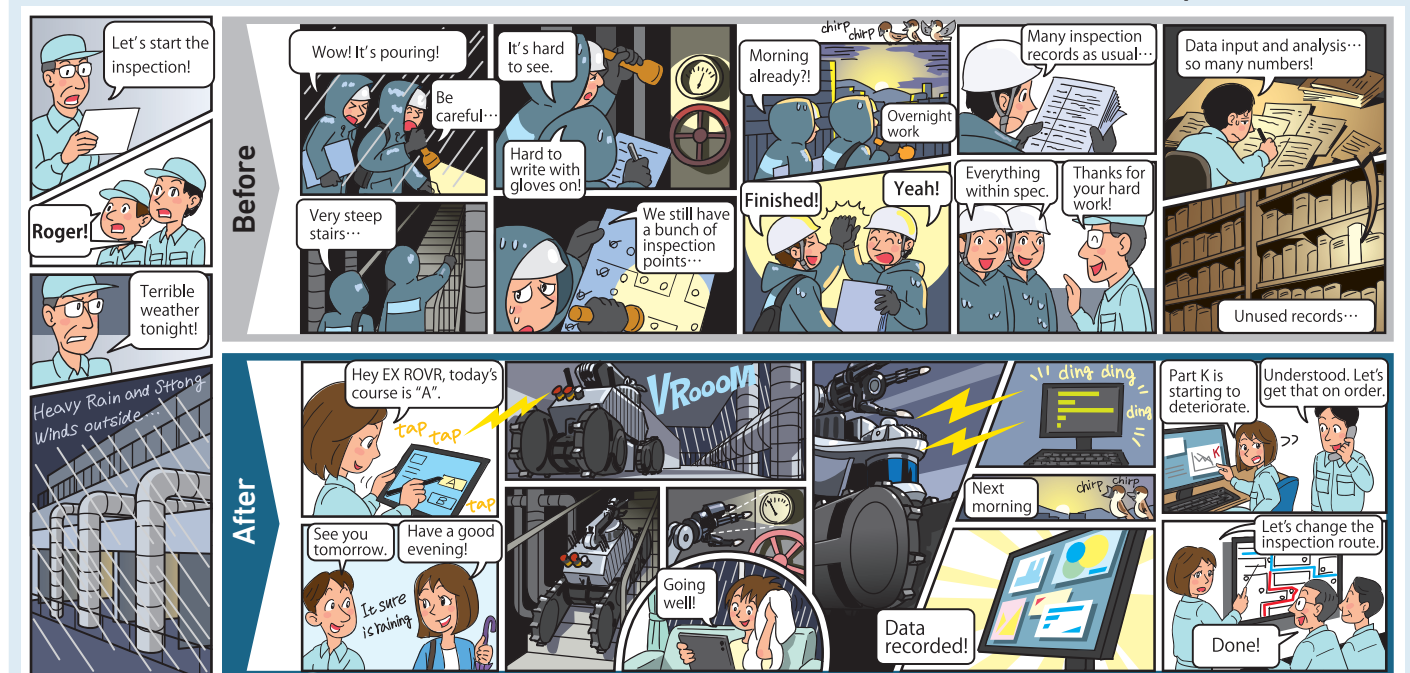
EX ROVR "ASCENT"



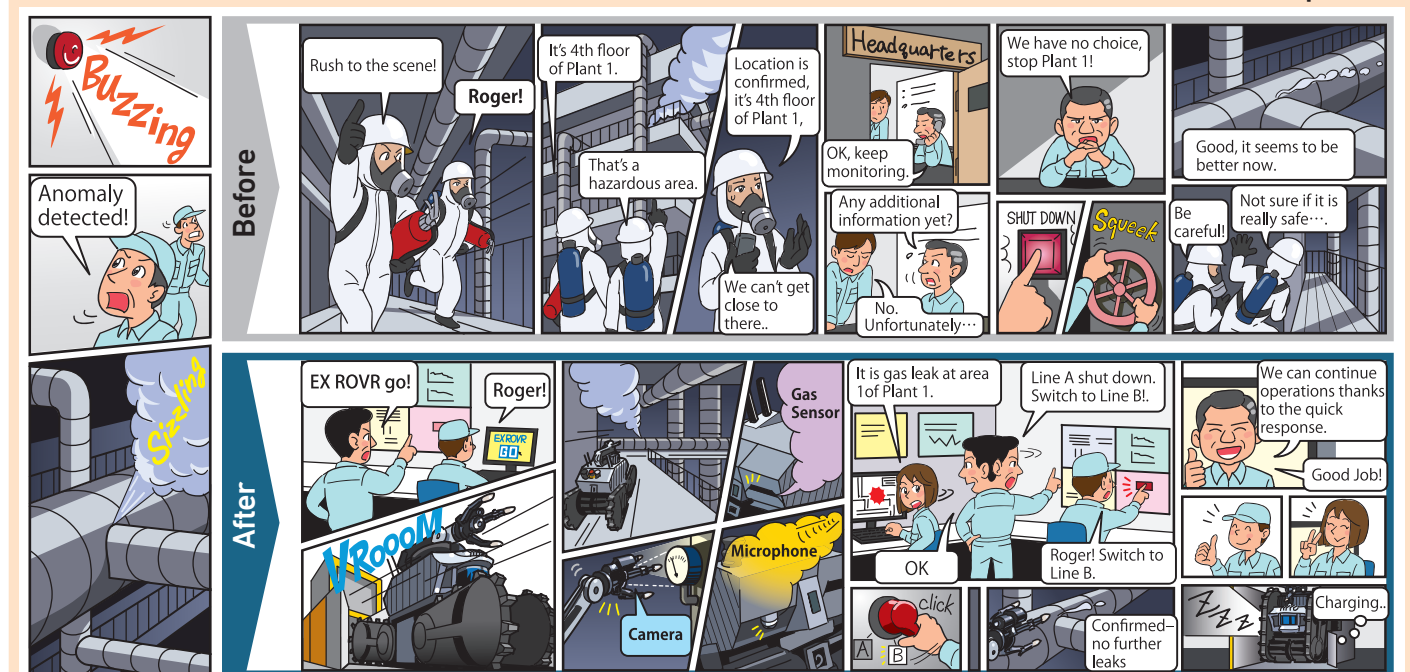
Robot works alongside human operators to enhance efficiency and safety in the work environment.

- High-frequency, multi-sensor inspections and efficient use of data
- Safe and timely resolution of any detected anomalous conditions

Inspection Rounds



Incident Response

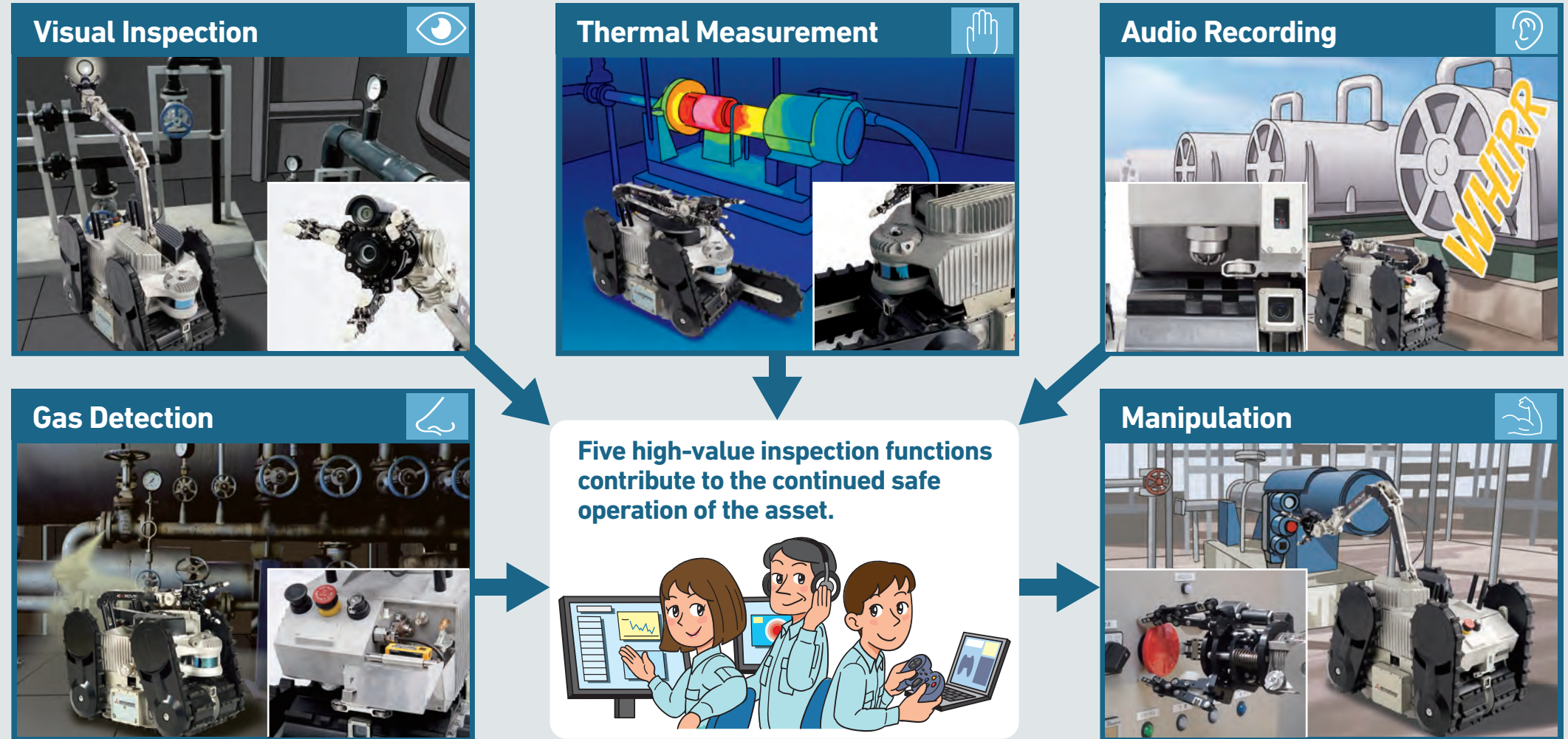


Reliable partner for autonomous plant inspection

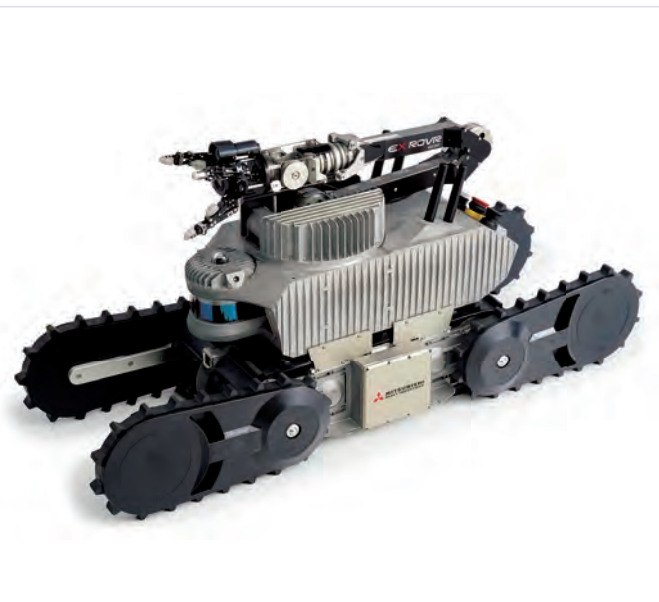
EX ROVR can perform inspection rounds day & night in potentially hazardous locations (Zone 1) increasing the safety and efficiency of the asset.

Digitalization of inspection records streamlines the data analysis process freeing up operators for higher value tasks.

EX ROVR protects your employees, assets, and effectively contributes to a human friendly working environment.



State of the art technology enables five high-value inspection functions



EX ROVR

Explosion Proof
Complies with regulations in various countries, IECEx, ATEX, Ex2018
 • Gas Class: II B + H2 T3 Gb
 • Area: Zone1

Manipulator
Capable of complex articulation to position camera and end effector close to the target
 • 6 degree of freedom
 • End effector with 3 finger gripper for positive contact

Autonomous Navigation
Performance of autonomous operator rounds even in the complicated environments and low light conditions
 • Localization through advanced 3D LIDAR maps
 • Fully autonomous obstacle recognition
 • Fully autonomous stair climbing ability

Autonomous Charging
Capable of long run times and quick charging
 • Contactless induction charger is explosion proof and can be placed in the hazardous location
 • Rapid charging allows for high availability with 2 hours of operation by 2 hours of charging

High Mobility
Able to negotiate narrow paths across multiple floors in a complex environment
 • Can ascend and descend 46 degree staircases
 • Can turn "on a dime" on a narrow staircase landing

Data Management
Mission planning and data validation can be performed remotely from anywhere in the world
 • Mission planning inspection waypoints can be set through secure connection via internet browser
 • Inspection data is securely stored in the cloud and can be accessed on demand

Main Dimensions (mm)
Unit Weight: 70 kg (excluding charging station)