



Technical Solutions Company
ISHIKAWA IRON WORKS

Inspection Robot for sewer pipe

HYPER-MOGURINKO



第2弾!

ハイパーモグリンコ

Skid-steering, powerful 6-wheel drive, tires arranged in V-shape
CCD video camera with 190 degree wide-angle lens and 380,000 pixels
Superior performance with low cost



Extremely low-cost Sewer Pipe Screening Inspection



Independent double-side high-torque engine (2 forward speeds, 2 reverse speeds.) Powerfully run through the dirt and obstacles with great mobility. By improving the performance of autonomous horizontal-driving (non-control), run flat inside cylindrical pipe without any accessory, Skid-steering, 6-wheel drive, arranged in V-shape. Capable of changing the direction without moving in some undesired direction.



Skid steering is a method of steering by changing the speed of the wheel on one side, which is commonly used in a track vehicle. It is possible to change the direction on the spot.



Record with CCD video camera (380,000pixels and 190 degree wide-angle lens) and store in SD card memory. With lighting (32 dimming range) and position-variable structure (elevation and depression angle), the camera position is always set in center (200-350 in diameter). This enables stable record in the center of the pipe.

■Controller monitoring screen



Provide a variety of usage with the detachable mission module system. Waterproof structure enables underwater researches; tested without regard to the tube. Types of machine and can be choose according to the purpose, one with the remote controller and autonomous running one. Cable length: 50m and 100m for long-distance research.



Handy controller provides control of all the operations (driving, lighting, audio, etc.) with 5.6-inch, high-luminance monitor, even during operation of the robot under the saved local conditions, you can record real-time status with actual speech made by observing the local condition on the monitor. Also, you can create precise reports based on recorded video and audio.

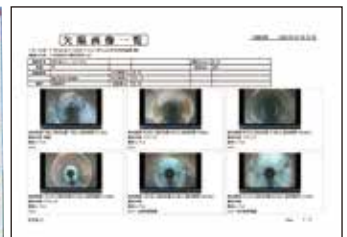
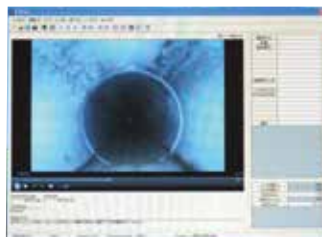


Transportable Kit (sample)

Evolving "Mogurinko". Developed under the concept of "simple structure and easy single-handed operation". Considerable low-cost achieved by innovative ideas. Excellent in portability and operability, significantly reduce inspection costs.

■Option: Report generator (software)

For generating the detailed report based on video and audio reports of local inspection.



■SPEC:

Drive system : Independent double-side high-torque engine (7kg traction, max speed 10m/min)
6-wheeled (6×6), low-pressure tires, arranged in a V-shape, skid steering
Recording camera : 190 degree wide-angle lens / SD card memory / Voice recorder / Data format: .avi /
Power : Rechargeable battery / Dimensions : L150mm・D175mm・H140mm /
Weight : Main unit 8kg / Cable drum 11.7kg (50m roll) / Controller 2.0kg / Power box 3.9kg

■Production / sale:



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ISHIKAWA IRON WORKS

9-8, Norimatsuhigashi 1-chome, Yahatanishi-ku, Kitakyushu-city, Fukuoka, 807-0837, Japan
TEL +81-93-691-4466 FAX +81-93-602-3065
E-mail ; info@iiw.co.jp

URL ; <http://iiw-future.com/>