

GECKO 9060

Steerable Pipe Inspection Robot

The Gecko pipe inspection robot has a specially designed 6 wheels drive system that can be driven out to a maximum length of 250m (820ft.). It has variable speed settings up to 33 meters/minute, with return speed control, steerable drive, integrated deviation measurement, a waterproof rating of 1.5 bars (50 ft.). The crawler will run in 4" or larger pipes, and can navigate 45 degree arcs in 8" pipe. The cable is installed on a stable drum with a slip ring. It has Kevlar reinforcing and is abrasion and acid proof.

The live image is displayed on an 8.4" color LCD monitor, which is protected by a metal case with a sun shield for day time viewing. There is a full keyboard to add text to files, and label them, and a built in digital video recorder with an SD memory card to capture and document live video from inspections.



The system features a 78mm (3") diameter pan and tilt camera head with a high resolution Sony CCD chip that produces a bright, crisp, colorful image. The camera focus can be adjusted manually. This robot head auto-levels so the image remains right side up when driving over rocks and sludge, and the pan and tilt functions offer endless 360 degree rotation, 240 degree tilt, automatic 180 degree tilt, and automatic home positioning, controlled through buttons on the base. There is a wide angle 130 degree field of view and 18 high powered SMD LEDs that provide an excellent image in large diameter pipes up to 12". An optional Sonde can be added to this set to locate the camera head behind walls or underground.



Specifications:

Technical Specifications

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| Construction: | Stainless Steel and High Grade Aluminium |
| Image Sensor: | High Resolution ¼” Sony CCD |
| Resolution: | > 470 TV lines PAL TV system. |
| Illumination: | Adjustable, 18 SMD LEDs |
| Focal Distance: | 5mm - ∞, Manual Focus |
| FOV: | 130° |
| Rotation: | Continuous 360° rotation, 240° tilt, automatic 180° tilt, and automatic home position |
| Image Sensor Protection: | Scratch Proof Sapphire front window |
| Sonde: | 512Hz (Optional) |
| Waterproof: | P68, 1.5bar in fresh water |
| Diameter: | 78mm (3.0”) |
| Drive: | Variable speed up to 33 meters/minute, Steerable |
| Dimensions: | L 225mm, W 77mm, H 67mm (crawler only) |
| Optional Wheels: | 63mm (2.5”), 97mm (3.8”), 100mm (4”) abrasive, 117mm (4.6”) |
| Optional Camera Raiser with LED Lights: | Available |
| Optional Inclinometer: | Available |
| Monitor: | Color 8.4” LCD, in a Metal Case, with a Full Keyboard and Sun Shield |
| Text generator: | Yes |
| Footage counter: | Yes |
| Storage: | SD memory card |
| Image/Video Capture: | Yes |
| Cable Hosing: | Kevlar reinforcing, abrasion and acid proof |
| Working Length: | 120m (394’) - Standard, up to 250m (820’) - Optional |
| Reel Construction: | Mild Steel powder coated |