

ROVVER™ 225

The Ultimate Solution For Large-Diameter Pipe Inspection.

When you need an adjustable viewing height range and the power to inspect through rough terrain, ROVVER® 225 is the inspection crawler to use. For optimum large-diameter (9–60") pipe inspection, ROVVER 225's pendant-controlled lift platform adjusts camera height from 6–12", centering the camera in the pipe for optimum magnification and undistorted inspection in any direction. This rugged, all-wheel-drive crawler moves easily over debris and around multiple turns. A remotely-operated clutch releases the wheels for free-wheeling retrieval.

ROVVER 225 carries a pan/tilt, pan/tilt/zoom or forward viewing color video camera, plus retrieval, sensing or sampling equipment to distances as far as 660'. Its modular design and ability to inspect pipes with diameters larger than 9" make it ideally suited for a range of applications. ROVVER's remote pendant enables an operator to raise and lower the camera, change camera zoom and orientation, control focus and lighting, engage the clutch and steer the crawler around obstacles such as debris and offsets.

Applications

- Wastewater and storm water lines
- Oil and steam lines
- Service water intake lines

Features/Benefits

- Adjustable platform lifts camera above liquids/debris to view from pipe center line.
- Strong and steerable, it moves easily over and around debris and offsets.
- Quick disconnect simplifies use, reduces maintenance and speeds set-up.
- Handheld pendant controls lift platform, clutch, lighting, focus, travel direction and speed, and camera zoom and orientation.
- Rack-mount control unit integrates into operator's existing vehicle.
- Standard inclinometer for measuring and graphing grade.
- Survives damp and submerged environments (Crawler and camera rated IP68; reel rated IP63).
- Compatible with ROVVER 100 and ROVVER 125 crawlers, cameras and cables

Below: One simple tool is all you need to swap out the ROVVER 225's cameras and cables.



•• Service Center Storm Culvert



•• Collapse Due to Tap-In.



•• Protruding Tap.

Rugged, Mobile and Easy-to-Use, The ROVVER 225 Robotic Crawler Puts Unmatched Inspection Power in Your Hands.

Specifications

*Specifications subject to change without notice.

Crawler

Dimensions	533mm (21") x 203mm (8") x 165mm (6.5") with small wheels
Weight	23.13 kg (51 lb)
Material	Brass, nickel plated, stainless steel, aluminum
Drive	Twin 40W DC motors, steerable 6-wheel drive, electric clutch for retrieval
SONDE	33 kHz
Depth Rating	IP68, 3' of water, 14.7 psi
Sensors	inclination ($\pm 10\%$), pressure

Camera

Type	0.5" color CCD camera, 1 lux sensitivity
Resolution	380,000 pixels, 420 HTV lines resolution
Zoom	optional 40:1 (10X optical; 4X digital)
Lens	4mm, f1.2, remote focus
Lens FOV	68° x 90° x 100° (VxHxD)
Focus	6mm (0.25") to infinity (remotely adjustable)
Dimensions	1.9" dia. x 2.75" long (axial); 3.2" dia. x 7.2" long (pan/tilt)
Camera Lift Rating	Remote-operated for 9" to 28" pipe IP68

Cable Drum

Cable	Standard Cable: 7 mm dia, 0.052 lb/ft Heavy-Duty Cable: 8.5 mm dia, 0.065 lb/ft <i>Both are multi-conductor with 227 kg (500 lb) Kevlar® strength member and polyurethane outer jacket. Both come in 101m (330'), 150m (492') and 200m (660') standard lengths, or custom lengths to 200m (660').</i>
Drum	Portable manual slip-ring cable drum with various cable lengths, or automatic motorized cable reel with level wind feature
Rating	IP63

Control Unit

Size (dxwxh)	420mm (16.5") x 343mm (13.5") x 292mm (11.5")
Weight	18kg (40 lb)
Pendant Control	Left/right steering, crawler speed, light intensity, camera lift up/down, pan/tilt/zoom, clutch control, auxiliary light control, modular slide-in cards for upgrades/accessories
Power Output	110 Vac, 60 Hz (230 Vac optional) NTSC composite (EIA-170A) video (PAL available); 19" rackmount controller is available



ROVVER systems sport a distinctive modular design.

The camera, control unit, cable reel and lighting interchange among all three models, enabling quick adaptation to pipes 4" to 60" dia.

