

ROVVER™ 100

Built Small for
Big Versatility.

A compact yet powerful inspection tool, the ROVVER 100 robotic crawler is valued around the world for its rugged versatility. The ROVVER 100 features a unique modular design with interchangeable controls and lighting for maximum adaptability. It provides full directional viewing in a horizontal pipe or line with its pan/tilt, pan/tilt/zoom or forward-viewing video camera. Remote-adjustable focus maintains a clear view at all times. ROVVER 100 offers the shortest footprint and most clearance of any crawler in its class.

Fast, portable inspection for a wide variety of industries.

With such a diverse range of features, the ROVVER 100 is an essential tool for virtually any application—from examining underground piping in environmental inspections to maneuvering through wreckage or steam and process lines—keeping workers safe during search and rescue missions. The ROVVER 100 packs enough power to inspect:

- Pipes 10–31 cm (4–12") ID
- Restricted piping
- Large offsets
- Protruding pipe taps
- Pipes with many bends

Distinctive features include:

- Waterproof design tolerates damp and submerged areas (crawler/camera rated IP68; reel rated IP63)
- Quick disconnect for rapid, no-hassle setup
- Handheld pendant that controls lighting, focus, speed, camera orientation, zoom and steering
- Color axial and pan/tilt cameras with remote focus
- Remote viewing up to 200 m (660') from operator
- Standard inclinometer

Rugged, mobile and easy to use—the ROVVER 100 Robotic Crawler. Put the power of the ROVVER 100 in your hands.



Above: Short wheelbase and steerability help ROVVER 100 travel with ease through 45 degree sewer inverts.

Below: One simple tool is all you need to swap out the ROVVER 100's cameras and cables.



•• Severe Root Blockage



•• 8" Terra Cotta Mainline with Offset and Infow.



•• Dropped 10' Section of PVC and Eroding Joint.

Specifications

*Specifications subject to change without notice.

Crawler

Dimensions	203mm (8") x 97mm (3.8") x 79mm (3.1")
Weight	7.25 kg (16 lb)
Material	Brass, nickel plated, stainless steel, aluminum
Navigation	Steerable with speed control
Distance	Up to 200m (660')
Rating	IP68

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	50.8mm (2") dia. x 74.6mm (2.9") long
Rating	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")
Pendant Control	Left/right steering, crawler speed, pan/tilt/zoom, light intensity, modular slide-in cards for upgrades/accessories
Power	110 Vac, 60 Hz (also available in 220 Vac)
Output	NTSC composite (EIA-170A) video (PAL available); 19" rack-mount controller is available



ROVER 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.

