



## Portable, Agile Pipeline Inspection.

Trusted for 20 years, ROVER crawlers have a modular design allowing quick reconfiguration for any combination of pipe size, material and condition. Short and steerable, they navigate past debris and obstructions, climb offsets, and pass through curved inverts. Three chassis sizes allow inspection of pipelines 4–60" diameter.

ROVER's fully automatic reel monitors cable tension to reduce the crawler's pulling burden (extending its range), and to prevent cable tangles during backward travel.

Compact and power-efficient, ROVER systems are extremely portable. With an installed base of more than 4000 systems worldwide, ROVER has a track record for productivity, reliability, and exceptional support.

- ✔ Single modular system inspects 4–60" lines.
- ✔ Steerable 6-wheel drive overcomes obstacles.
- ✔ Compact profile boosts range, fits through curved inverts, and allows panning/tilting even in small pipe.
- ✔ Tension-sensing auto cable reel maximizes crawl range, minimizes cable strain and prevents tangles.
- ✔ Optional rear camera facilitates reverse travel.
- ✔ Crawler performs side image scanning and laser geometry analysis with add-on accessories.
- ✔ Quick cable connect simplifies setup, reduces maintenance and saves time.
- ✔ Handheld pendant controls lighting, focus, speed, pan/tilt, zoom and steering.
- ✔ Rack-mount controls retrofit existing vehicles.
- ✔ Waterproof design tolerates damp/submerged areas (crawler/camera rated IP68; reel IP63).
- ✔ Measures pipe slope with standard inclinometer.

ROVER 125 chassis (w/ lift kit, rear-view camera and aux lights) for pipelines 6–36"

ROVER 100 chassis for pipelines 4–12"



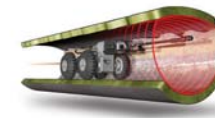
ROVER 225 chassis (w/ high lift kit) for pipelines 9–60"



**Adaptable.** Three interchangeable chassis sizes allow ROVER adapt to practically any line size



Perform side-scan imaging with add-on camera.



Capture dimensional data with add-on laser scanner.



Compact, steerable wheelbase fits through 45 degree inverts.

## Specifications

### Crawler

<i>dimensions</i>	<b>100:</b> 8 × 3.8 × 3.1” (203 × 97 × 79mm) <b>125:</b> 12 × 4.75 × 3.75” (305 × 121 × 95mm) <b>225:</b> 21 × 8 × 6.5” (533 × 203 × 165mm)
<i>weight</i>	<b>100:</b> 12 lb (5.5 kg) <b>125:</b> 16 lb (7.25 kg) <b>225:</b> 51 lb (23.1 kg)
<i>materials</i>	nickel-plated brass, stainless steel, aluminum
<i>rating</i>	IP68
<i>drive</i>	steerable 6-wheel drive with twin 20W motors

### Camera

<i>type</i>	½” color CCD camera, 1 lux sensitivity
<i>resolution</i>	380,000 pixels, 420 HTV lines resolution
<i>zoom</i>	optional 40:1 (10X optical; 4X digital)
<i>lens</i>	4mm, f1.2, remote focus
<i>lens FOV</i>	68° × 90° × 100° (V×H×D)
<i>focus</i>	6mm (0.25”) to infinity (remotely adjustable)
<i>dimensions</i>	2” dia. × 2.9”
<i>rating</i>	IP68

### Control Unit

<i>size</i>	16.5 × 13.5 × 11.5” (420 × 343 × 292mm)
<i>weight</i>	40 lb (18 kg)
<i>pendant</i>	steering, pan/tilt/zoom, crawler speed, light intensity
<i>power</i>	110 Vac, 60 Hz
<i>output</i>	NTSC composite (EIA-170A) video (PAL available); 19” rack-mount version available

### Cable

<i>type</i>	multi-conductor
<i>lengths</i>	330, 492 and 660’ (101, 150 and 200m)
<i>dia.</i>	7.0 / 8.5 mm (standard/heavy-duty)
<i>weight</i>	0.052 lb/ft / 0.065 lb/ft (standard/heavy-duty)
<i>strength</i>	500 lb (227 kg)
<i>material</i>	Kevlar inner jacket, polyurethane outer jacket
<i>drum</i>	<b>auto:</b> motorized cable reel with level wind feature <b>manual:</b> slip-ring design
<i>rating</i>	IP63



**Reconfigurable.** ROVER’s interchangeable wheels adapt to any combination of pipe diameter, material and condition.



**Modular.** ROVER’s modular component design let’s you specify a system optimally suited to your needs.

