SROD
ROBOTICS

S100

MINI Pipe Inspection Robot

- √ *Miniaturized design*
- √ *Industrial-grade control terminal*
- √ *Powerful expansion performance*
- √ *DN100~1000*



Product Introduction

The S100 is a small pipe inspection robot, suitable for pipe diameters ranging from DN100mm to 1000mm. It is widely used for defect detection in various concealed spaces and narrow Spaces, such as water supply pipeline inspection, drainage pipeline inspection, sewage pipeline inspection, mine inspection and depth exploration, earthquake search and rescue, steel pipe weld inspection, internal inspection of wind turbine blades, tunnel acceptance and other narrow fields that cannot be inspected and explored by human power.



Optional widened chassis



50mm 65mm 100mm 130mm

Optional lifting frame

Key Specs

Camera	Applicable diameter range	100-1000 mm
	Front and rear view camera	Front: 130W
	Zoom the gimbal	Optional
	Pan-tilt control	Axial 360°, radial 270°
	Light source	20×0.1W
	Laser width measurement	Optional
	One-click defogging	Optional
Crawler Body	Body size	450×90×70mm
	Weight	8kg
	Lifting height	/
	Lifting and lowering the load	/
	Working temperature	-20°C-55°C
	Motor power	max300W
	Protection grade	IP68
	Climbing ability	⩽35°

Controller	Controller type	Industrial-grade terminal
	Size	460×420×180 mm
	Resolution	1920×1080
	GPS	Yes
	Hard disk/Memory	256G / 8GB
	WIFI, USB, 4G module	Yes
	Operating system	Windows
	Operation mode	Touch, Operation box, Mouse
	Working temperature	-10-50°C
Cable Drum	Size	680×350×450 mm
	Weight	45kg(Including cables)
	Working temperature	-20°C-55°C
	The way to record meters	absolute value encoder
	Cable length	120m, customizable
	Winding type	Manual

Key Features

Miniaturized design

The applicable pipe diameters of S100 range from DN100mm to 1000mm.It is widely applicable to defect detection in concealed and narrow spaces

Industrial-grade intelligent control terminal

Cold and heat resistant, high definition and high brightness, visible in sunlight, high-performance CPU, brings large bandwidth and zero latency

All-round detection

360° seamless inspection of the pipe wall reveals all internal defects of the pipeline at a glance

High reliability and low failure rate

Dust-proof, water-proof and explosion-proof, three independent sealed compartments, IP68 protection grade, stable and reliable

Powerful expansion performance

The vehicle body can be equipped with a lifting frame and a widened chassis, and tires of different sizes can be replaced to meet the inspection requirements of different pipe diameters

Centimeter-level meter positioning

The centimeter-level high-precision metering device accurately locates the position of the robot

Application Scenarios



Municipal Drainage Pipes Residential Small Diameter Pipes Wind Turbine Blade Inspection