SROD
ROBOTICS

S300Y

Long-Distance Inspection Robot

- 500m long-distance cable reel
- Six-wheel drive, strong power
- Equipped with a front battery
- DN300~3000



Product Introduction

The S300Y medium and long-distance pipeline inspection robot is composed of a crawler, a long-distance cable reel, a portable tablet control terminal and a software system.It is mainly used for pipeline network inspection of urban drainage pipes, box culverts and culverts, industrial, oil and gas pipelines. The minimum detectable length is DN300 and the maximum detectable length is 500 meters.It has outstanding obstacle-crossing ability and can detect various problems such as pipeline blockage, rupture, corrosion and leakage.





Optional extended lighting



Optional tracked chassis



Optional industrial-grade controller

Key Specs

Camera	Applicable diameter range	300-3000 mm
	Front and rear view camera	Front and rear 210W
	Zoom the gimbal	10x optics, 16x digital
	Pan-tilt control	Axial 360°, radial 270°
	Light source	Main light: 8×2W Auxiliary light: 6×3.5W
	Laser width measurement	Yes
	One-click defogging	Yes
Crawler body	Body size	580×190×250 mm
	Weight	25kg(Including battery)
	Lifting height	200mm
	Lifting and lowering the load	≤15kg
	Working temperature	-20°C-55°C
	Motor power	Dual-motor drive 2×80W
	Protection grade	IP68
	Climbing ability	≤35°

Controller	Controller type	Portable tablet terminal
	Size	177.3×261×6.2 mm
	Resolution	2800 × 1840
	GPS	Optional
	Hard disk/Memory	256G / 8GB
	WIFI	Yes
	Operating system	Harmony OS
	Operation mode	Touch screen
	Working temperature	0-35°C
Cable drum	Size	564×564×538 mm
	Weight	50kg(Including cables)
	Working temperature	-20°C-55°C
	The way to record meters	Absolute value encoder
	Cable length	500m, customizable
	Winding type	Electric or manual winding

Key Features

Medium and long-distance detection

Equipped with a quick-release front battery, it can easily handle medium and long-distance detection

The minimum detectable size is DN300

When paired with a small wheelset, it can enter DN300 pipes.Support the expansion of lamp and beacon positioning and tracking modules

High-definition PTZ camera

2.1-megapixel zero-delay digital high-definition camera, 360° panoramic lens, one-click defogging

Portable tablet control terminal

High-definition IPS full-view display screen, portable and simple interface operation

High reliability and low failure rate

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

Strong power and excellent obstacle-crossing ability

The maximum climbing ability can reach 35 degrees.It has strong power, is stable and does not roll, and can easily pass over 100mm obstacles

Application Scenarios



Municipal Drainage Pipes



Oil and Gas Pipes Inspection



Industrial Pipes