SROD
ROBOTICS

S190DHD

Pipe Inspection Robot

- Wireless control and motorized reel
- High reliability and low failure rate
- Digital high-definition camera
- DN200~3000



Product Introduction

The S190DHD pipeline inspection robot is equipped with front and rear digital high-definition camera units, a portable hand-held tablet control terminal, and is assisted by a powerful lighting source and a high-precision meter cable winding device. It can automatically match the winding and unwinding speed according to the vehicle's traveling speed and automatically arrange the wires during the winding process.It can enter the interior of the pipeline to conduct video recording, defect capture, record defect location information and produce professional pipeline inspection reports.





100mm 130mm 200mm 230mm

Key Specs

Camera	Applicable diameter range	200-3000 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	580×190×160 mm
	Weight	19kg
	Lifting height	200mm
	Lifting and lowering the load	≤5kg
	Working temperature	-20°C-55°C
	Motor power	max300W
	Protection grade	IP68
	Climbing ability	≤40°

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	743×403×483 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	Electric or manual winding

Key Features

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

Automatic winding

Centimeter-level metering accuracy, compatible with both manual and automatic winding and unwinding modes, convenient and practical

High reliability and low failure rate

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

Modular design with strong scalability

The efficiency of daily maintenance has increased by 50%.Pre-installed expansion interfaces can be connected externally to devices such as robotic arms, water quality collection boxes, and laser ring scanning devices

Precision craftsmanship, compact structure

The X-shaped lifting frame design enables precise control. With a compact structural design, the lifting frame can reach up to 200mm in height

Application Scenarios



Municipal Drainage Pipes Box Culvert Inspection Tunnel and Culvert Inspection