SROD
ROBOTICS

S300EHD

Pipe Inspection Robot

- √ *Strong power and heavy load*
- √ *High reliability and low failure rate*
- √ *Zero-latency transmission*
- √ *DN300~3000*



Product Introduction

The S300EHD pipeline inspection robot is mainly composed of a camera, a crawler body, a cable reel, an industrial-grade intelligent control terminal and a computer software control system, etc. It adopts an industrial-grade high-resolution color camera unit to continuously and in real time record the actual situation inside the pipeline. According to the video data captured by the camera system,make a judgement and analysis of the defect existing inside the pipeline to provide reliable technical basis for the next step of maintenance, unblocking and repair.









130mm



200mm



230mm

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	600×200×230 mm
	Weight	24kg
	Lifting height	250mm
	Lifting and lowering the load	⩽10kg
	Working temperature	-20°C-55°C
	Motor power	max300W
	Protection grade	IP68
	Climbing ability	⩽45°

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

High-definition PTZ camera

2.1-megapixel zero-latency high-definition camera, 360° panoramic lens, one-click defogging function

Industrial-grade control terminal

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

Strong power and high load capacity

It adopts dual 83W planetary reduction imported motors with an ultra-strong load capacity of 80kg

High reliability and low failure rate

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

Precision craftsmanship, compact structure

The X-shaped lifting frame design achieves precise control and a compact structural design, with a maximum lifting frame size of 250mm

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

Application Scenarios



Municipal Drainage Pipes



Box Culvert Inspection



Tunnel and Culvert Inspection