Cable Reel

Length	150m (300m/2000m optional)
Cable Specs	2-core, 9mm diameter, anti-kevlar
Durability	300kg Kevlar, PUR sheath, anti-corrosive
Versatility	Connect to the Sonar Probe independently
Winding	Auto winding
Counter Precision	1mm
IP Rating	IP63
Dimension(L×W×H)	570×395×475mm
Weight	45kg (w/ 150m cable)

Main Control

Standard Device	Android system tablet
Compatibility	Customer tablet supported (no specific reqs)
Connection	WiFi or Internet cable
Software Control	Movement, speed, PTZ, focus/zoom, lighting, lift
Status Display	Time, distance, project info, diameter, pressure, speed
Text Input	English & Chinese support only
Defect Location	Clock positioning display
Warnings	Roll angle overrun, abnormal air pressure

Joystick

Connection	Wired connection with Windows System
Control	Movement, speed, focus/zoom

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EASY-SIGHT

X5-HR4

Screw Type CCTV Inspection Robot (≥DN600mm)

Product Overview

X5-HR4 all-terrain pipeline robot consists of spiral crawler, cable reel and control terminal. Adapted for DN600 minimum-diameter pipelines with heavy silt and high water where standard CCTV robots fail. Its 360 ° HD camera delivers full internal footage for municipal drains, box culverts, covered channels and watercourses.

Boasting a patented floating drum structure, it navigates deep silt, turbid water and high-water zones. It travels at 0.5 m/s in static water and withstands 0.2 m/s reverse flow. Integrated sonar and LiDAR sensors generate visualized data for pipeline defects, underwater terrain, deformations and alignment analysis. Single-run inspection reaches 2000 meters to support long-distance underwater surveys.

Key Features

Lifting

Simultaneous sonar&2D laser scanning for pipeline wall profiling/deposits

Panoramic Laser

2MP high-definition imaging

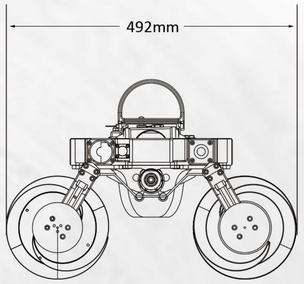
Spiral Propulsion Crawler

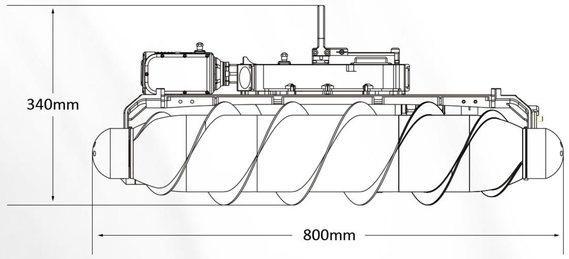
Patented floating roller design (0.5m/s in still water)

Drive

Max single-survey distance 2000m

Dimensions





Specifications

Crawler

Pipe Diameter	≥DN 600mm
Drive System	Dual 90W DC motors, Screw-propelled drive
Speed	Still water: 0.5m/s
Front Lighting	12× LEDs; 40W (detachable)
Rear Lighting	3× LEDs; 10W
Rear Camera	1920×1080 (2.0 MegaPixels)
IP Rating	IP68 (10m water depth)
Working Temp	-10°C~50°C
Dimension(LxWxH)	800×495×320mm (no sonar)
Weight	15.8kg (no sonar)

Red PTZ Camera

Zoom	10× Optical
Imaging System	1/2.8" CMOS, 1920×1080 (2.0 MegaPixels)
Lighting	4× LEDs; 6W
Optics	FOV 7°-81°, 0.05Lux sensitivity
Rotation	360° endless rotation, ±90° tilt, 1-click reset
Focus	Auto/manual focus
IP Rating	IP68 (10m water depth)
Working Temp	-10°C ~ 50°C
Dimension(LxWxH)	170×105×90mm
Weight	1.9kg

Sonar Probe(optional)

Pipe Diameter	Max DN 6000mm
Material	Aluminum alloy shell
Sonar Power	Pulse 4~20us, Bandwidth 500KHz, 48V DC
Acoustic Freq	1MHz
Beam Width	1.1° (-3dB), conical
Range Resolution	0.5mm (at 0.125m range)
IP Rating	IP68 (10m water depth)
Operating Temp	0~40°C
Dimension	L485mm, Diameter 70mm
Weight	2.7kg