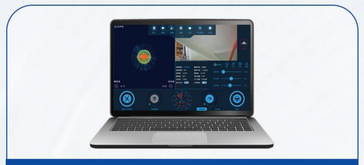
Sonar Probe

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)
Working Temp	0~40°C
Dimension	L485mm, Diameter 70mm
Weight	2.7kg



Main Control

Standard Device	Windows system laptop
Compatibility	Customer laptop 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	Multi-language support (EN, CN, FR, IT, RU, TH, etc.)
Defect Location	Clock positioning display
Warnings	Roll angle overrun, abnormal air pressure

Joystick

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

FOR MORE INFO

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EASY-SIGHT

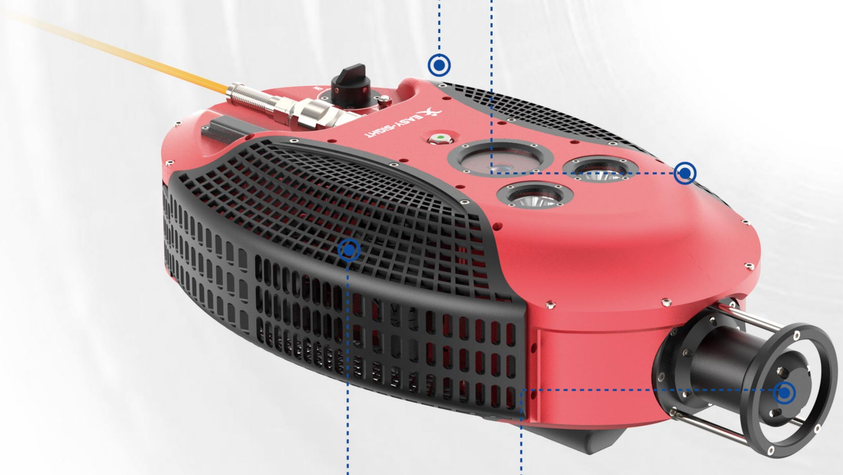
X7-DM

Pipeline Power Sonar System (DN350-1000mm)

Product Overview

The X7-DM Pipeline Power Sonar system consists of three main components: an underwater powered thruster, a cable reel, and a main control unit.
It is suitable for inspecting pipelines with diameters of DN350mm and above, as well as box culverts and rivers, under conditions of high water levels or complete submersion.
The system features a unique underwater submersible with a maximum travel speed of 1 meter per second.

Key Features



LIFTING

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

PANORAMIC LASER

2MP high-definition imaging

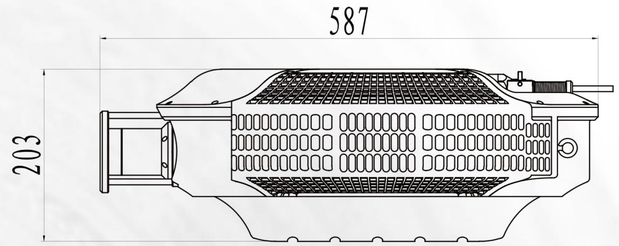
SPIRAL PROPULSION CRAWLER

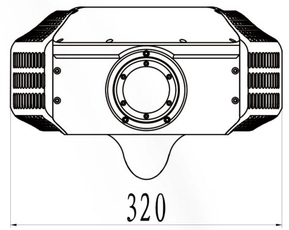
Patented floating roller design (0.5m/s in still water)

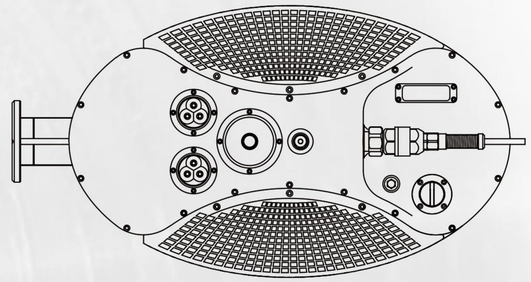
DRIVE

Max single-survey distance 2000m

Dimensions







Specifications

Crawler

Pipe Diameter	DN 350~1000mm
Speed	Still water: 0.5m/s, (Strong mode: 1m/s)
Lighting	Integrated lights
Camera	1920×1080 (2.0 MegaPixels)
Control Mode	Auto (fixed depth), manual, yaw lock, strong mode
Drive System	2× horizontal, 2× vertical thrusters
IP Rating	IP68 (10m water depth)
Working Temp	0°C~40°C
Dimension(LxWxH)	587×320×203mm
Weight	10kg

Cable Reel

Length	150m (300m/2000m optional)
Cable Specs	2-core, 7mm 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)