

IRIS HD

Mainline Crawler

PORTABLE • POWERFUL • ACCURATE

Integrated Remote Inspection System

Mainline sewer inspection system for pipeline maintenance and damage detection.



Key Features

- Brushless DC motors for strong traction
- 3MP Digital HD Camera with 10x optical zoom
- Motorized Camera Lift up to 12"

Applications

- Municipalities
- Contractors
- Civil and Environmental Engineers
- DOT
- Water Reclamation

System Includes

- High-definition 3MP digital camera with LED lighting, autofocus, 360° rotating and 270° tilt camera
- Crawler with auto scan, rewind, and cruise
- Samsung Galaxy Tab S10 Ultra flagship tablet with custom app for full inspection control
- Aviation-grade cable connectors
- Built-in 512 Hz Sonde
- Quick-Change Wheel Design with five size options
- PS5 Bluetooth Controller

PRODUCT OVERVIEW

The IRIS HD Crawler Inspection System is an integrated remote inspection system equipped with a 3-megapixel digital HD color camera, motion posture sensors, intelligent control terminal, high-power LED lighting, and automatic cable management. It delivers real-time imaging and video recording for sewer and storm water inspection applications. The system supports on-site inspection reports for project evaluation, acceptance, maintenance, and repair options.

KEY SYSTEM FEATURES

- Pipe Range: Handles diameters from 6 inch to 48 inch across various pipe materials.
- Drive: Dual 91W brushless DC motors, 35° climbing, continuously variable speed up to 108 feet/min.
- Camera: 3MP digital HD camera with 360° axial rotation, 270° tilt, autofocus, and 160x zoom (10x optical, 16x digital); 2MP rear camera.
- LED Lighting: Adjustable high-intensity LEDs.
- Control Station: Samsung Galaxy Tab S10 Ultra tablet interface (wired/wireless), touchscreen, Bluetooth controller.
- Camera Lift: Up to 12 inch camera center height.
- Wheel Exchange: Multiple wheel sizes.
- Connections: Aviation-grade twist-lock cable connectors.
- Auto Scan, Rewind, Cruise: One-button camera scan, automated cable rewind, directional/adaptive cruise mode.
- Locator: 512Hz sonde.
- Reel: Portable. Four wheels with handle.



SMART CONTROL STATION

Samsung Galaxy Tab S10 Ultra with app for full inspection control: live preview, video recording, defect grading, cable length, lift height, crawler speed, GPS location identification, preloaded damage catalog, inclination.

SAFETY DESIGN

IP68 waterproof crawler body with real-time monitoring: air pressure, tilt, rollover prevention, and emergency stop.



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