

# S100C ( MINI Pipe Inspection Robot )

Lighter, shorter, and cost-saving with direct-drive wheels and reel options



Optional Cable Drum  
(Can be shared with S150A)



Optional Cable Drum  
(Can be shared with S190DHD)

**DN100~500**

Applicable Diameter Range

**4.5kg**

Body Weight (70mm Wheel)

**210W**

Resolution

**Optional**

Optical Zoom

**50mm**

Lens Lifting Range

**120m**

Cable Length

## Product Introduction

The micro pipe inspection robot S100C can inspect pipes as small as DN100. When equipped with the smallest wheel, it weighs only 4.5kg and can be completed by a single person. It is convenient and efficient to operate. Hub motor direct drive is highly efficient, energy-saving, smoother and more power-saving. Freely combine multiple models of line cars to save you more money. S100C is dedicated to solving the detection challenges of small pipe diameters. It conducts real-time image inspection for various concealed and confined spaces such as small pipes in communities, bridges and tunnels, and ship pipes. The robot can process the pipe inspection data and generate professional report files.



70mm



100mm



130mm

## Key Specs

|              |                               |   |            |                          |                            |
|--------------|-------------------------------|---|------------|--------------------------|----------------------------|
| Camera       | Applicable diameter range     | 100-400 mm                                | Controller | Controller type          | Portable tablet termina    |
|              | Front and rear view camera    | Front: 210W                               |            | Size                     | 177.3×261×6.2 mm           |
|              | Zoom the gimbal               | Optional                                  |            | Resolution               | 2800 × 1840                |
|              | Pan-tilt control              | Axial 360°, radial 180°                   |            | GPS                      | Optional                   |
|              | Light source                  | Main light: 2×1W<br>Auxiliary light: 4×1W |            | Hard disk/Memory         | 256G / 8GB                 |
|              | Laser width measurement       | Optional                                  |            | WIFI                     | Yes                        |
|              | One-click defogging           | Optional                                  |            | Operating system         | Harmony OS                 |
| Crawler Body | Body size                     | 520×90×83mm(70wheel)                      | Cable Drum | Operation mode           | Touch screen               |
|              | Weight                        | 4.5kg (70wheel)                           |            | Working temperature      | 0-35°C                     |
|              | Lifting height                | 50mm                                      |            | Size                     | 564×310×538 mm             |
|              | Lifting and lowering the load | /   |            | Weight                   | 45kg(Including cables)     |
|              | Working temperature           | -20°C-55°C                                |            | Working temperature      | -20°C-55°C                 |
|              | Motor power                   | max240W                                   |            | The way to record meters | Absolute value encoder     |
|              | Protection grade              | IP68                                      |            | Cable length             | 120m, customizable         |
|              | Climbing ability              | ≤30°                                      |            | Winding type             | Electric or manual winding |

## Key Features



### Miniaturized design

Portable Mini type, capable of inspecting pipes with an ultra-small diameter of DN100, is widely used for defect detection in concealed and narrow spaces



### Efficient and convenient

The operation can be completed by a single person



### Digital high-definition camera

210W digital high-definition camera system, wear-resistant and scratch-resistant lenses, 360-degree rotation and ± 90-degree pitch



### Adjustable lifting frame design

The operation is simple. The lifting frame can be raised within one second, and it can be raised up to 50mm at most



### Four-wheel direct drive with great power

Hub motor direct drive is highly efficient, energy-saving, smoother and more power-saving



### Wide range of applications

According to different pipe diameters, it can be matched with 70-wheel, 100-wheel and 130-wheel models for inspection operations

## Application Scenarios



Municipal Drainage Pipes



Residential Small Diameter Pipes



Septic Tanks