



## Expansion module



**Gas detection module**

**panoramic lens**

**3D lidar module**

### All-terrain Robot

The spiral chassis features a dome camera pan/tilt head and a spiral propulsion design, eliminating the need for pipeline pre-treatment. It is suitable for inspecting complex pipelines with diameters above DN600, such as those with high water levels and high siltation.

### All-Terrain Sonar Robot

This robot features a spiral propulsion design and is equipped with a sonar module. It combines video and underwater sonar detection capabilities, making it suitable for inspecting complex pipelines, such as those with high water levels and high siltation.

### Ultra-High Water Level Sonar Robot

The spiral chassis is equipped with a high-precision sonar and fixed-focus camera assembly. It requires no pipe pre-treatment and is self-propelled, making it suitable for sonar inspections in high-water-level conditions for pipes with diameters exceeding DN600. When used in an inverted position, the robot can perform sonar inspections in nearly full water conditions.

### Wheeled Robot

The wheeled chassis is equipped with a Dolphin-L2 pan/tilt head and lift, making it suitable for inspecting drainage pipes with a diameter of DN400 or larger.

### Crawler Robot

The crawler chassis can be equipped with an L2 gimbal and lifting frame, ensuring smooth, non-slip operation and strong obstacle-crossing and climbing capabilities. It is suitable for working in complex terrain, such as box culverts and large-diameter pipeline.

### crawler Large-Scene Robot

The crawler chassis equipped with a dome camera and a pan/tilt head provides a wide field of view and strong obstacle-crossing and climbing capabilities. It is suitable for inspecting box culverts in complex terrain and large-diameter pipelines.

### Large-Scene Robot

The wheeled chassis equipped with a pan/tilt dome camera offers strong obstacle-crossing capabilities and a wide field of view. It is suitable for inspecting large-scale environments, such as pipelines with a diameter of DN1200 or greater, culverts, open and closed channels, tunnels, and more.

### Long-Distance Robot

The Long-Distance Robot features a wheeled chassis equipped with an L2 gimbal and lifting frame.

It boasts powerful power and exceptional obstacle-crossing capabilities, making it ideal for long-distance inspections, such as water supply pipeline inspections and long-distance inspections of sewage pressure pipes. It can inspect up to 2000 meters.

### Ultra-High Robot

The long-reach chassis can be equipped with an ultra-high lift (electric), an L2 gimbal, and a large wheeled chassis. The center of the gimbal reaches a height of 1.2 meters above the ground. It can be configured with a long-distance cable for inspection in large-diameter pipes.

### Large-Scene Floating Rafts

Large-Scene Floating Rafts consist of a floating structure equipped with a dome camera pan/tilt head and an optional high-precision sonar. Their dual-buoy design enables stable

real-time inspection images in fast-flowing environments. They are primarily used for video and sonar inspections inside municipal drainage pipes, box culverts, and stormwater and sewage collection pipes.

## Application scenarios

