

## X4 PIPELINE SONAR DETECTION SYSTEM



When the pipeline is full of water without emptying conditions, any traditional video testing method fails to obtain a better testing effect. However, X4 pipeline section sonar imager is just applicable to such pipelines (various pipelines with the diameter or section up to 125mm~6000mm).

For structural defects (such as deformation, collapse, crack, encrustation, the secret joint of branch pipelines, etc.) and functional defects (such as deposition, floaters) of most pipelines, X4 pipeline section sonar imager can reach an accurate effect and a mouse is adopted for measurement and analysis.



X4 pipeline section sonar imager is composed of four parts including sonar capsule, cable reel, host computer and Pipe Sonar pipeline sonar testing imaging analysis software. By adopting sonar imaging technology, the underwater scanning unit (sonar capsule) is placed underwater inside the pipeline (both the full and semi-full pipeline are available) and the image moves by the creeper or artificial dragging (sliding or floating) inside the pipeline. Integrating Pipe Sonar pipeline sonar testing imaging analysis software, the host computer can acquire and display profile pictures with high resolution. Any deposition and coagulation inside the pipeline or structural damage pipe wall damage on the pipe wall can be determined by the analysis of profile features.

**Application range:**



Sewage Pipeline



Rainwater Pipeline



Water supply Pipeline



Fire-fighting Pipeline

**TECHNICAL DETAILS X4**

Sonar capsule

-Size: 346mm in total length; diameter up to 50mm\70mm

	<ul style="list-style-type: none"> <li>-Material: stainless casing</li> <li>-Maximum applicable pipe diameter: 6000mm</li> <li>-Power requirements: 26V DC (+/-1V), 0.5A constant; 1A peak</li> <li>-Weight: 3kg</li> </ul>
Master control box	<ul style="list-style-type: none"> <li>-Size: 110mm * 165mm * 35mm;</li> <li>-Weight: 0.2kg;</li> <li>-Power supply: 220V electric supply connection</li> </ul>
Manual Cable Reel	<ul style="list-style-type: none"> <li>-Counting: high precision coder(+ 0.1M), used for measuring the length of cables;</li> <li>-Cable arrangement: manual winding device;</li> <li>-Protection: IP63, dust proof and water-splattering resistance;</li> <li>-compatibility: applicable to various models of creepers;</li> <li>-Size: 330mm * 420mm * 570mm.</li> <li>-Length: standard cable length is of 150m and it can be customized.</li> </ul>
Probe Floatin cylinder	<ul style="list-style-type: none"> <li>-Stainless material; integral cylinder design; applicable</li> </ul>



range of pipe diameter: 150mm~6000mm;

-Size: 140mm \* 70mm \* 400mm;

-Weight: 2kg;

-Buoyancy force: 5kg;