



X1-P1 Pipeline Quick View Camera

Rapid Inspection with HD Imaging and Portable Design



Why Choose X1-P1?



The X1-P1 Pipeline Quick View Camera is designed for rapid visual inspection of pipelines and industrial containers. With its integrated high-definition camera and built-in lighting, it provides clear real-time footage of internal structural and functional defects. The system combines hardware and software for efficient data capture, annotation, and reporting, making it ideal for field operations in mobile environments.

Performance

- High-definition imaging ensures clear visibility of pipeline defects and conditions.
- Real-time video recording with instant image capture and text annotation capabilities.
- Powerful built-in lighting adapts to low-light environments for optimal visibility.

Intelligence

- Integrated PipeX1H software allows for real-time data acquisition, defect tagging, and report generation.
- On-screen keyboard enables quick text input and annotation directly on video footage.
- All data is synchronized and saved for comprehensive inspection analysis.

Portability

- Compact, lightweight, and highly integrated design for easy transport and operation.
- Built-in high-performance battery supports extended field use without external power.
- Simple setup and operation reduce preparation time and improve efficiency.

Versatility

- Suitable for a wide range of pipeline and container inspection applications.
- Modular design allows easy maintenance and adaptability to various scenarios.

Key Features & Components



Main Controller

- **Processing Capability:** 4GB or higher RAM;
- **Storage Capacity:** 128GB or higher internal storage;
- **Display:** 10.1-inch capacitive screen with 1920 * 1200 resolution;
- **Control:** Wireless control;
- **Operation:** Touch control for focus, zoom, primary/auxiliary light brightness, camera rotation, etc.;
- **Image Capture:** Quick capture and save defect images;
- **Playback:** Browse and replay video files or images;
- **Text Input:** Input text via soft keyboard, overlaid and saved in video footage;
- **Battery Life:** Continuous operation ≥ 8 hours, with battery level indicator;
- **Interface:** Type-C port;
- **Dimensions:** 240mm160mm8mm;
- **Weight:** Approx. 400g;



Camera Probe

- **Applicable Environment:** Urban stormwater, sewage, combined pipelines, water supply, industrial wastewater pipelines, etc.;
- **Applicable Pipe Diameter:** 100mm-2000mm;
- **Operating Temperature:** -10°C ~ 50°C ;
- **Light Source Follow:** Light source moves with camera probe, upward rotation 60° , downward rotation 30° ;
- **Pressure Indicator:** Green light for normal pressure ($1.1\text{bar} \leq P < 1.7\text{bar}$); red light for high/low pressure ($P \geq 1.7\text{bar}$ or $P < 1.1\text{bar}$);
- **Lighting:** Primary 10W LED with spotlight cup, auxiliary 6x3W LEDs with floodlight design, independent and stepless adjustment;
- **Image Sensor:** Color 1/2.8", progressive scan CMOS;
- **Image Resolution:** PAL standard, 1920 * 1080, 2 megapixels;
- **Viewing Angle:** Horizontal 58.4° (wide angle), 2.3° (telephoto);
- **Zoom & Focus:** 30x optical zoom, 12x digital zoom, auto or manual focus;
- **Sensitivity (Minimum Illumination):** 0.01LX;
- **Adaptability:** One-touch defogging, one-touch probe centering;
- **Waterproof Rating:** IP68;
- **Weight:** 2.45kg;



Signal Box

- **Battery Life:** Approximately 13 hours, with battery level indicator;
- **Dimensions:** $\varnothing 117 * 58\text{mm}$;
- **Weight:** 663g;
- **Standard Charger:** Output 25.2V/2A;



Support Rod

- Lightweight material, length 0.8m;
- Integrated micro-adjustment spring device for probe height, rubber buffer ball at end;
- Unique detachable design (can be directly packed into the case);

EXTENDED REACH, PRECISION ANALYSIS LONG-DISTANCE INSPECTION WITH 3D ACCU- RACY



Main Configuration Including:

- Main Controller
- Camera Probe
- Signal Box
- Support Rod