

QUAKELOGIC

PROFESSIONAL MODULAR SEWER  
PIPELINE CCTV INSPECTION SYSTEM

QL-PipeVision  
Pro 1000



# QL-PIPEVISION PRO 1000

## PROFESSIONAL MODULAR SEWER PIPELINE CCTV INSPECTION SYSTEM



### DISCOVER PROFESSIONAL PIPELINE INSPECTION WITH A MODULAR CCTV SOLUTION

QuakeLogic's QL-PipeVision Pro 1000 Professional Modular Sewer Pipeline CCTV Inspection System is a high-performance modular inspection platform engineered for municipal utilities, public works agencies, contractors, and infrastructure professionals. Designed for comprehensive inspection of sanitary sewers, stormwater networks, industrial pipelines, culverts, and underground utility systems, the platform combines Full HD imaging, precision pan-and-tilt camera technology, intelligent crawler mobility, and advanced inspection software to deliver reliable visual inspection, defect documentation, digital recording, reporting, and real-time operational control in demanding field environments.

- Improves inspection efficiency by providing Full HD live video, precise crawler control, and real-time inspection data.
- Reduces maintenance costs by enabling early defect detection, accurate documentation, and comprehensive inspection reporting.
- Enhances operational reliability through an IP68-rated crawler and camera assembly, modular crawler configurations, and rugged field construction.
- Supports comprehensive pipeline inspections with Full HD imaging, continuous 360° pan rotation, optical zoom, laser crack measurement, digital recording, and Windows-based inspection software.

### SYSTEM FEATURES »

- Professional Modular CCTV Inspection System
- Inspection Range: DN100–DN1000
- Full HD 1920 × 1080 Imaging
- High-Definition Pan & Tilt Camera
- Continuous 360° Endless Pan Rotation
- Six-Wheel Drive Crawler Platform
- Electric Camera Lift System
- Integrated Laser Crack Measurement
- Motorized Cable Reel with 1000 ft Cable
- Windows-Based Inspection Software
- IP68 Camera & Crawler Assembly
- Integrated Rechargeable Battery System
- Dual High-Torque Electric Drive Motors
- Automatic Camera Height Adjustment
- Rear-View Camera
- Precision Distance Counter
- 8-Hour Continuous Operation

## KEY FEATURES

- Modular crawler system supports professional inspection of sewer, stormwater, utility, and industrial pipeline networks.
- Full HD 1920 × 1080 imaging with a high-definition pan & tilt camera delivers clear inspection results and accurate defect documentation.
- Continuous 360° endless pan rotation, 10× optical zoom, 12× digital zoom, and integrated laser crack measurement improve inspection accuracy.
- Heavy-Duty Six-Wheel Drive Crawler Platform crawler with dual high-torque motors, electric camera lift, and interchangeable wheel sets adapts to multiple pipe sizes.
- IP68-rated crawler and camera assembly, pressure monitoring, and a durable polyurethane cable provide reliable field performance.
- Windows-based inspection software supports live video display, digital recording, inspection reporting, database management, and USB data export.
- Motorized cable reel with a standard 1000 ft inspection cable, precision distance counter, and real-time data overlay simplify field inspections.
- Integrated rechargeable lithium battery system provides portable deployment with a minimum of 8 hours of continuous operation.

## PRODUCT FEATURES

### Inspection Capabilities

Sewer Pipelines  
Stormwater Networks  
Utility Pipelines  
Industrial Pipelines  
Culverts

### Camera System

Full HD 1920 × 1080 Imaging  
360° Endless Pan Rotation  
10× Optical Zoom  
12× Digital Zoom  
Automatic & Manual Focus  
Integrated Rear-View Camera

### Crawler System

Six-Wheel Drive Platform  
Dual High-Torque Drive Motors  
Electric Camera Lift  
Automatic Camera Height Adjustment  
Interchangeable Wheel Sets  
Obstacle Climbing Capability

### Inspection Functions

Laser Crack Measurement  
Live Video Display  
Image Capture  
Digital Video Recording  
Inspection Report Generation

Inspection Database Management  
Real-Time Data Overlay  
Date / Time / Distance Annotation  
Precision Distance Counter

### Connectivity

USB Data Export  
Ethernet Communication  
Windows-Based Inspection Software  
Laptop-Based Control Workstation

### Field Operation

1000 ft Motorized Cable Reel  
IP68 Camera & Crawler Assembly  
Pressure Monitoring System  
Rechargeable Lithium Battery  
Minimum 8-Hour Operation

**For more information about the QL-PipeVision Pro 1000 Advanced Modular Sewer Pipeline CCTV Inspection System, please contact QuakeLogic.**

## INSPECTION FEATURES

Type	Description
Inspection Range	DN100–DN1000 with Modular Crawler Configurations
Camera System	Full HD 1920 × 1080 Pan & Tilt Inspection Camera
Camera Functions	360° Endless Pan Rotation, 10× Optical Zoom, 12× Digital Zoom, Automatic & Manual Focus
Crawler System	Six-Wheel Drive Platform, Dual High-Torque Drive Motors, Electric Camera Lift
Inspection Functions	Laser Crack Measurement, Live Video Display, Image Capture, Digital Video Recording
Inspection Software	Windows-Based Inspection Software, Report Generation, Inspection Database Management
Distance Measurement	Integrated Precision Distance Counter, 1 mm Accuracy
Cable System	Motorized Cable Reel, Standard 1000 ft Polyurethane Inspection Cable
Communication	USB Data Export, Ethernet Communication Interface
Environmental Protection	IP68 Camera & Crawler Assembly, Integrated Pressure Monitoring System

## MEASUREMENT CAPABILITIES

Type	Description
Distance Measurement	Integrated Precision Distance Counter
Measurement Accuracy	0.03937 inch (1 mm)
Crack Measurement	Integrated Laser Crack Measurement System
Inspection Coverage	Suitable for Straight, Curved & Complex Pipeline Networks
Camera Positioning	Electric Camera Lift with Automatic Height Adjustment
Data Overlay	Real-Time Date, Time & Distance Annotation
Image Documentation	High-Resolution Image Capture & Digital Video Recording
Reporting	Inspection Report Generation & Database Management

## INSPECTION SETTINGS

Type	Description
Focus Mode	Automatic & Manual Focus
Camera Height	Automatic Height Adjustment
Zoom Control	10× Optical Zoom & 12× Digital Zoom
Data Overlay	Date, Time & Distance Annotation
Distance Counter	Integrated Precision Distance Measurement
Video Recording	Digital Video Recording
Image Capture	High-Resolution Image Capture
Report Output	Inspection Report Generation
Data Export	USB Data Export
Communication	Ethernet Communication Interface

# FEATURES & ACCESSORIES

## OPTIONAL FEATURES & ACCESSORIES

- Optional Extended Inspection Cable Lengths
- Modular Crawler Configurations for Larger Pipe Diameters
- Interchangeable Wheel Sets

## MODULAR CRAWLER CONFIGURATIONS

The modular crawler platform supports inspection of pipeline diameters from DN100 to DN1000 and can be expanded for larger diameter pipeline applications. Interchangeable wheel sets and the electric camera lift system provide flexibility for different pipeline conditions.

## EXTENDED INSPECTION CABLE OPTIONS

The system supports optional extended inspection cable lengths for applications requiring longer inspection distances. Combined with the motorized cable reel and heavy-duty polyurethane inspection cable, the system provides reliable performance across a wide range of pipeline inspection environments.

## INTERCHANGEABLE WHEEL SETS

Multiple interchangeable wheel sets allow the crawler to adapt to different pipeline diameters and operating conditions, providing stable traction, improved maneuverability, and optimized inspection performance across a wide range of sewer and pipeline applications.

## TECHNICAL SPECIFICATIONS

Specification	Description
Product	QL-PipeVision Pro 1000 Advanced Modular Sewer Pipeline CCTV Inspection System
Inspection Range	DN100–DN1000 with Modular Crawler Configurations
Application	Municipal Sewer, Sanitary Sewer, Stormwater, Culvert, Industrial Pipeline & Underground Utility Inspections
Crawler Platform	Heavy-Duty Six-Wheel Drive
Drive System	Dual High-Torque Electric Drive Motors
Camera Lift	Electric Camera Lift with Automatic Height Adjustment
Camera	Full HD 1920 × 1080 Pan & Tilt Inspection Camera
Pan Rotation	Continuous 360° Endless Rotation
Viewing Angle	Wide-Angle Viewing Capability
Optical Zoom	10×
Digital Zoom	12×
Focus Modes	Automatic & Manual Focus
Rear Camera	Integrated Rear-View Camera
Illumination	High-Intensity Adjustable LED Lighting
Crack Measurement	Integrated Laser Crack Measurement System
Low-Light Performance	High-Sensitivity Low-Light Imaging
Software	Windows-Based Inspection Software
Control System	Laptop-Based Control Workstation with Industrial Joystick
Distance Counter	Integrated Precision Distance Counter
Distance Accuracy	1 mm (0.03937 inch)
Cable Reel	Motorized Cable Reel
Inspection Cable	1000 ft Heavy-Duty Polyurethane Inspection Cable with Waterproof, Abrasion-Resistant & Corrosion-Resistant Jacket
Communication	USB Data Export, Ethernet Communication Interface
Protection Rating	IP68 Camera & Crawler Assembly
Pressure Monitoring	Integrated Pressure Monitoring System
Operating Temperature	0°C to +50°C
Power System	Integrated Rechargeable Lithium Battery
Operating Time	Minimum 8 Hours Continuous Operation

## TECHNICAL SPECIFICATIONS

Specification	Description
Viewing Angle	Wide-Angle Viewing Capability
Obstacle Climbing	Obstacle Climbing Capability
Pipeline Compatibility	Suitable for Straight, Curved & Complex Pipeline Networks
Data Overlay	Real-Time Date, Time & Distance Annotation
Emergency Stop	Emergency Stop Function
Cable Jacket	Waterproof, Abrasion-Resistant & Corrosion-Resistant Polyurethane Cable Jacket
Extended Cable Option	Optional Extended Inspection Cable Lengths Available
Deployment	Portable Field Deployment

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**About QuakeLogic:**

- QuakeLogic Inc. is a California-based engineering and technology company providing innovative, reliable, and high-quality solutions to customers worldwide.

**Our Commitment**

- At QuakeLogic, we are committed to quality, innovation, and customer satisfaction. We build lasting partnerships by delivering reliable solutions and dependable support.

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