TVS-15 CCTV
PIPE INSPECTION SYSTEM

triviex

The system consists of the following main components

- ▲ Crawler
- ▲ Laptop With Control Software
- ▲ High Definition Camera
- ▲ Motorised Elevator
- ▲ Manual Drum
- ▲ Remote Controller

The system consists of the auxiliary components

- ▲ Motorised drum
- ▲ Wheel support
- ▲ Auxiliary Light

DESCRIPTION

TVS-15 CCTV pipe inspection system comprises of control unit (laptop or tablet), cable drum, crawler(s) and camera(s). The crawler, walking in the pipe, can record the high definition inspection video and store it onto the control unit . When a defect in the pipe is identified, you can type text onto the screen and the default information is overlaid on the video. The real time information of the crawler status can be displayed by adjusting the functional buttons, including pitch angle, pressure, distance, date and time etc. The embedded software is available to edit and store the on-site inspection video; and also available to create an inspection report automatically. The system is easy to operate and offers complete functionality for pipe inspection.
The elevator can be disassembled to adapt to inspection of 150-2000mm pipes, and export video images with 1080P. There is also a laser measurement module in the camera, which can measure the pipe diameter. The system configuration can meet different kind of complicated pipe inspection requirement.

Functions of TVS Series Pipe Inspection System

- Inspect pipe diameter ranging from 150mm to 2000mm
- IP68 Waterproofing, suitable for inspection 10m (33ft) under water
- Two brushless motors, able to pass obstacles
- 2 million resolution high definition color camera with noise ratio more than 50dB
- Multiple choices of operation mode: laptop, software control
- The front and rear camera can adjust the lightness unlimitedly according to the pipe diameter
- High resolution color rear sight camera with 2 million resolutions
- Display crawler status by animation, pitch angle output function with measurement scope±45 degree, precision 0.1 degree and optional pitch angle   processing software, which can export the pipe sloping curve
- There is an air pressure indication lamp inside the crawler body. The inside pressure is displayed on the monitor. Embedded inflation valve avoid collision
- The cable counter shows the distance of the crawler travelling in the pipe;
- The laptop can be connected with the equipment via cable (recommended) or WIFI, to realize the functions of control, display, editing and video storage
- The monitor can display the real time pressure, pitch angle, distance and time etc. The inspection information is easy and convenient to input through the keyboard. The monitor can save five pages information, convenient to review to meet the requirement
- The embedded software can edit and save the data and create the report automatically
- Be able to inspect the pipe diameter
  1. The elevator can be disassembled

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SPECIFICATIONS

Cable Reel	Cable Length	120m
	Meter Counter	Yes
	Working Mode	Auto/Manual/Cable Retrieve Only
	Power Supply	AC110-220V
	Frequency	50/60Hz
	Electrical Current	2.5A/5A
	Fuses	10A
	Protection Class	IP44
	Ambient Temperature Range	0℃-40℃
	Storage Temperature Range	-30℃~-70℃
	Dimension	530*330*525mm
Camera head	Weight	43.4kg
	Panning Range	± 135°
	Rotation Range	Endless
	View Angle	About 60° (Horizontal)
	Focus	Auto/Manual
	Optical/Digital Zoom	10x/12x
	Resolution	1080*1920P
	Laser Point	Yes
	Laser Gauge Length	50mm
	One-Key Center	Yes
	Drive	Six-Wheel Drive; Both Sides Can Be Controlled Independently From Each Other
Crawler-TVS15	Equipment	Steerable, Backeye Camera, Electrically Controllable Clutch, Location Transmitter, Roll And Pitch Sensor, Pressure Monitoring
	Nominal Pipe Widths	DN125-DN2000mm (With Elevator And Large Support)
	Location Transmission	33Hz
	Pressure Tightness	1.2-1.5Bar
	Auxilary Light	High Resolution Camera, 1080p, 4 Sets Of Auxilary Lights
	Pitch And Roll Sensor	Yes
	Power Supply	Via Cable Reel
	Protection Class	IP68 Up To 10m Water Depth
	Ambient Temperature Range	0℃-65℃
	Storage Temperature Range	0℃-65℃
	Material	Aluminum Anodized
	Dimension(Lxwxh)	516*260*230mm
	Weight	10kg