

TVS-2000 CCTV

PIPELINE INSPECTION SYSTEM



DESCRIPTION

TVS-2000 CCTV pipe video inspection system, consist of control unit, cable reel unit, crawler(s) and camera(s) units. The crawler with PTZ camera, “walking” in the pipe, can record the high definition inspection video and store it into 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, internal pressure, pipe distance, work date and time, contractor and operator, etc. The preloaded software is available to edit and store the on-jobsite inspection video. and also available to create an inspection report automatically. The system is easy to operate and offers complete functionality for pipe video inspection.

- ▲ This system can inspect pipe diameter ranging from DN150mm to 800mm
- ▲ The crawler and camera is waterproof up to 10m under water with rating IP68
- ▲ The crawler is driven by two motors with four wheels, which has a very strong capacity to pass the obstacles
- ▲ The PTZ camera is equipped with high definition color camera with noise ratio no more than 50dB
- ▲ The front and rear camera have the light equipped with the adjustable level according to the pipe diameter. The maximum lightness of the front lamp is 4800lux from 1m (3.3ft) distance. and the rear one is 2500lux from 1m (3.3ft) distance
- ▲ Inclination function with measurement scope ± 45 degree, precision 0.1 degree and optional pitch angle processing software, which can export the pipe sloping curve
- ▲ The preloaded software can edit and save the data and create the report automatically
- ▲ The monitor can display the real time pressure, inclination 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 requirements
- ▲ The electric cable reel automatically matches the crawler backward speed to avoid cable knotting

SALES OFFICE

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Controller	Control Functions	Control the crawler speed, direction, camera focus, camera rotation, brightness, camera elevation, clutch operation, auxiliary light and video output interface
	Camera Control	One key to reset (Centralize the camera)
	Data Output	Time, pressure, pitch angle, animation display of elevator height
	Input Power	AC 110V-220V, 50Hz
	Working Current	Standby current 0.46A, max. 1.2A
	Video Output	PAL/NTSC
	Dimension	510mm (19inch)*330mm (14inch)*365mm (11inch)
	Weight	approx. 8kg (17.6lbs)
	Rating	IP63, dust and water proof
Electric Cable reel	Input	AC100-240V
	Drive	motorized
	Cable Diameter	7mm Reinforced multiple cores cable
	Material	304 stainless steel
	Standard Length	200m (656ft), 300m (984ft) for option
	Wind up/down	motorized
	Traverse shaft	automatic
	Rating	IP63, dust proof, water proof
	Weight	approx. 45kg (99lbs), according to the cable length different
Crawler	Pipe Diameter	DN150 to DN300
	Material	Nickel plated, stainless steel and alloy
	Drive	four or six-wheel driven, two 20W DC motors (six wheel upon special request)
	Light	Unlimited brightness adjustment
	Front light	4800 Lux from 1m (3.3ft)
	Rear light	2500 Lux from 1m (3.3ft)
	Slopping	45 degree
	Pitch	Measuring scope ± 45 degree, precision 0.1 degree
	Speed	Adjustable unlimited speed, max. Speed 32m/min
	Pressure Indicator	Normal pressure (1.1bar—1.5bar)
	Rating	IP68, 10m (33ft) underwater
	Weight	Approx. 8kg (17.6lbs)

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Crawler	Dimension	300mm (12")*120mm (4.8")*100mm (4")
	Standard Camera	Pan Tilt and Zoom camera

Crawlers and the Wheel Sets in Different Pipes

Diameter(mm)	150-300	300-400	400-600
Wheel Sets	3"	4"	6"
Small Crawler	OK	OK	
Big Crawler		OK	OK

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