DACON Inspection Technology

DEKRA

VT 70 PTZ SD camera system

Compact and watertight camera with pan-tilt function and integrated LED lighting

Applications and features

Applications

- All underwater inspections and monitoring applications in hard to reach areas
- Nuclear applications - e.g. pressure vessel inspections
- Industrial applications - e.g. deep well inspections
- Decommissioning applications - e.g. pipe and tank inspections

Features

- Robust and compact design
- Zoom lens 10x optical / 16x digital
- High-resolution camera for detailed pictures
- Easy handling
- Integrated LED lighting
- Pan and tilt functions
- Watertight

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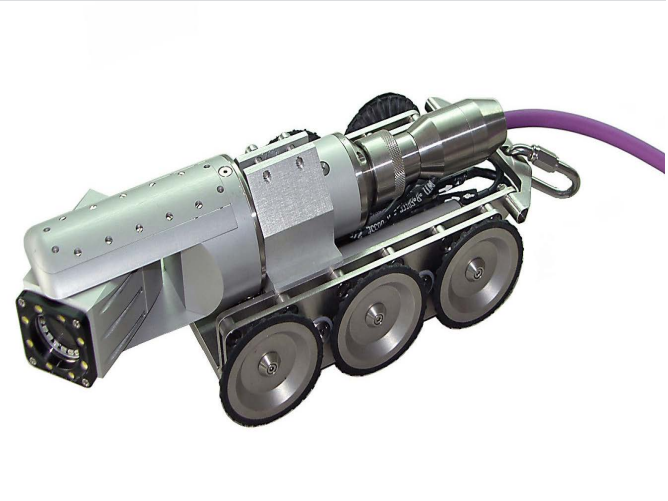
VT 70 PTZ with anodized aluminium body

VT 70 PTZ with anodized aluminium body

Watertight color camera with 10:1 optical zoom. Equipped with Pan-Tilt function, integrated LED lighting and extended camera functions makes it ideal for all inspections in nuclear environments. Compact dimensions make the camera ideal for inspections in pipes and hard to reach areas.



VT 70 PTZ attached to VT 100 DAR ROV

VT 70 PTZ on VT 100 DAR ROV

The VT 70 PTZ can be attached to visatec's VT 100 DAR ROV to work as a deployable inspection system in pipes, tanks or any other area that cannot be reached with poles or other tooling. The whole system is controlled via one integrated remote control.

VT 70 PTZ with carbon fiber poles attached to holder

VT 70 PTZ on carbon poles and holder

The VT 70 PTZ camera system can easily be deployed with visatec's carbon fiber poles. Various pole diameters makes this kind of deployment easy and cost effective. Visatec's holder VT Vario can be used to attach the camera system on poles to any rail or side wall of tanks.

Technical data - VT 70 PTZ SD

Housing	Anodized aluminium
Dimensions /diameter	L x ø 225 x 70 mm
Image sensor	1/3" CMOS (Progressive Scan)
Video output	Composite / PAL-NTSC
Zoom / Lens	10x optical f=3.3 mm (wide) to 33.0 mm tele F1.8 to F3.4 / 16x digital
Field of vision	59.2° - 6.7° hor.
Focus	Auto or manual
Iris / brightness	Auto or manual
Pan / tilt range	Infinite / 270° with position feedback encoder
Illumination	9 x 3W LED
Laser module	Optional
Weight	1,55 kg
Temperature	0 – 50 °C
Pressure water tight	5 bar
Radiation resistance	Total (cumulative) dose 25000 rad (250 Gy) for CCD module
	Total (cumulative) dose for camera 1MGy (Change of module required)

Related / compatible products

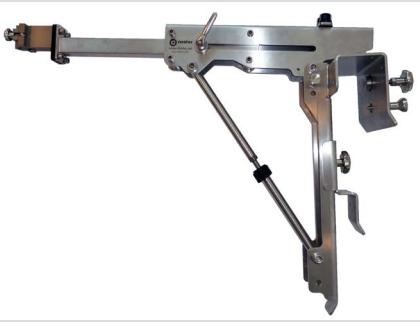
Control units	
VT 300 CU series	19"-Rackmount / Standalone control unit
VT 6360 CU	Mobile control unit with integrated 21,5"-inch Full-HD monitor in PeliCase
Deployment tools	
ROV	VT 100 DAR
Carbon poles	Sealed wired and non-wired carbon poles in various lenghts for easy deployment of camera system
Manipulators and holders	Various Tripods, holders and mounting units available
Lighting	
Additional lighting	Various additional lighting sources available - for increased illumination of objects and surrounding inspection area
Cables	
Cable reels	Various cable reels with adaptable cable lenghts available, motor-driven if needed
Single cable	Single cable for fast and flexible cabling, various lenghts

Related products and accessories

Control unit VT 6360 CU
Compact control unit in watertight PeliCase with integrated 21,5" Full-HD monitor and optionally integrated text inserter

Control unit VT 300 CU series
Rack mountable or standalone control unit in 19-inchcase for VT 40, VT 44, VT 72, VT 300 and VT 120 PT HD camera series

Remote control VT 780 FB
Robust remote control for all camera features



VT Vario tool holder
Variable rail holder for nearly all visatec systems on poles (29mm and 42mm)

CU text overlay system
Video text inserter with a wide functionality range for professional applications

VT 72 SKT cable reel
Reel equipped with kevlar reinforced cable

Carbon poles - wired
Wired carbon poles for deployment of cameras and tools

Pole adaptor
Stainless steel adaptor to connect camera to carbon fiber poles