FOR MORE INFORMATION

Made in Germany

INVIZ® REVOLVER 80

The efficient dual view panoramic scan camera head for fast remote visual inspections of pipe and tube wall and orbital welding

Reduce costs of ownership and inspection time with better inspection results by using the INVIZ® Revolver 80 dual view and revolving camera head.

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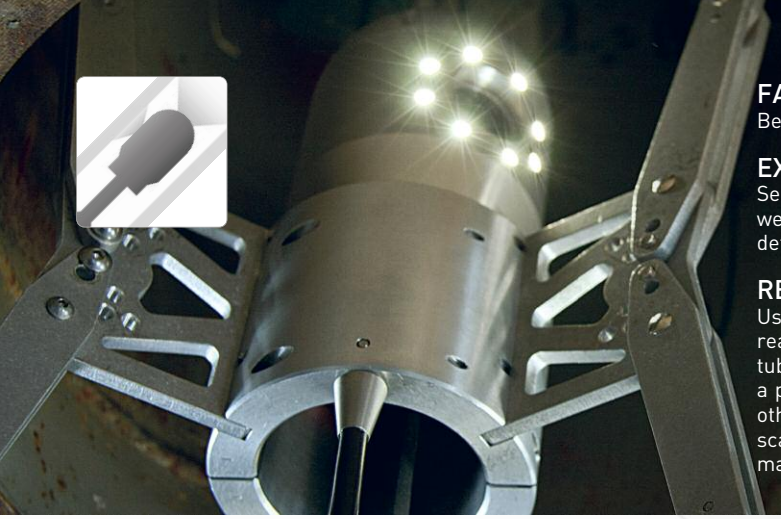


FAST INSPECTION RESULTS

Benefit from information of 360° panorama panning shots with endless rotation.

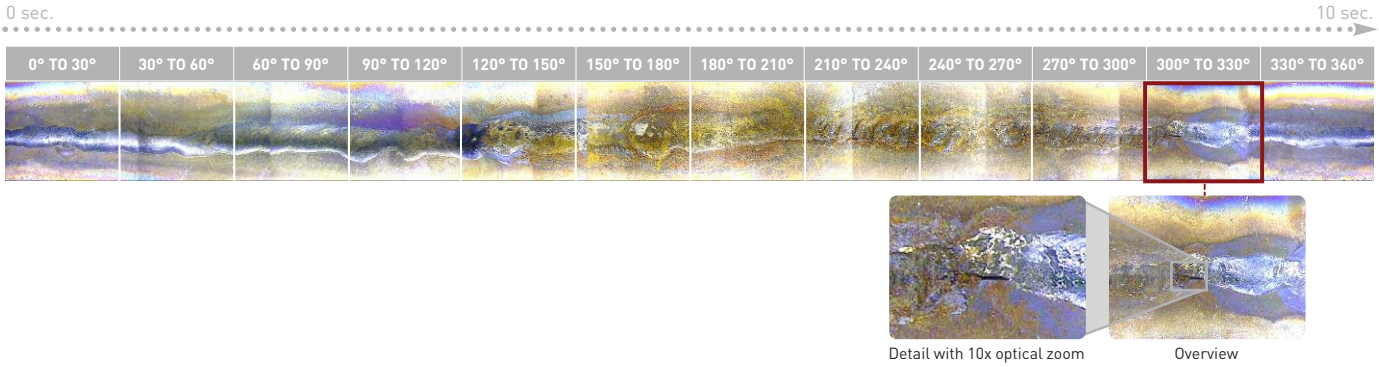
EXCELLENT REPRODUCIBLE IMAGING

Search and focus always from the tube centre. Survey quickly your whole orbital weld with a wide angle view. Find rapid and secure relevant deviations. Get maximal detail even from greater distance with the 10x optical zoom function.

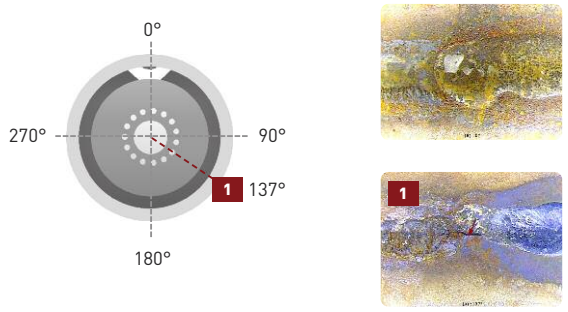
REDUCE INSPECTION TIME & COSTS

Using the forward viewing camera, the inspection target is easy to locate and reach. The centring device with connected push rod is keeping the camera in the tube centre. Image settings are in the right setting and focus at any time during a panoramic scan. No typical force, wear and tear or image offset known from other technologies. Instead you gain precise camera control with the motorised scan and stop functionality. Save search and inspection time, reduce equipment maintenance costs while improving inspection results.

PANORAMIC SCAN



POSITION SAVE & AUTO REUTURN



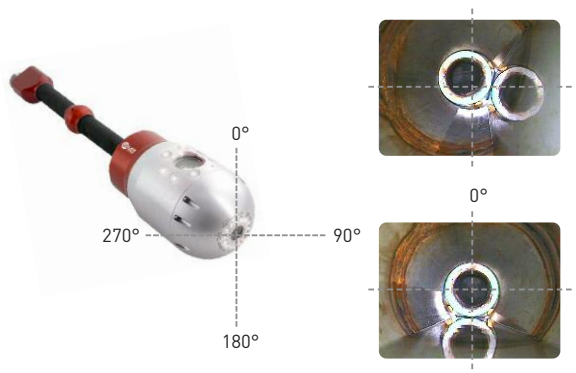
FAST OVERVIEW WITH PANORAMIC SCAN OF ENDLESS 360° ROTATION

:: Controlled by the joystick or following a predefined software scan mode, the side view camera is revolving 360° endlessly, ensuring 100% orbital weld or tube wall panorama inspections.
:: No detail is missed. On the tip of your finger you zoom onto the smallest detail from the remotest areas with the impressive 10x optical and additional electronically zoom.
:: A high resolution forward view camera is offering excellent sight and orientation within your application.
:: The powerful dual illumination technology is delivering homogenous automatic or manual illumination, even in big dark cavities. A user defined left/right level functionality maximizes the potential failure contrast also on shiny and reflective surfaces such as coated or electro polished food grade tubes.

POSITION SAVE SCAN & AUTO RETURN

:: Specific camera positions can be saved and recalled. If used, the camera automatically returns precisely to positions of interest. The auto Run & Scan function is ensuring the systematic outright containment wall inspection. Camera positions can be displayed and recorded.

AUTO LEVELING



AUTO LEVELING FUNCTION

:: Orientation and image interpretation are easy now. Orientation during remote visual inspection after a view twists and turns is difficult .If there is no specific geometry or water level, up/down left or right orientation will be lost. Manoeuvering the instrument, interpretation of the image and securing full inspection can become a nightmare. The INVIZ® Revolver 80 auto level function solves all. It keeps your camera in an upright 0° position. That resets the orientation and ensures a precise inspection staring point. Equipment handling and image interpretation is easy. It reduces inspection time, user and equipment fatigue and therewith cost. Longitudinal weld seam inspections are seamless.

INVIZ® MATRIX RVI AND DOCUMENTATION PLATFORM

BENEFIT WITH THE INVIZ® REVOLVER 80 FROM THE INVIZ® MATRIX INSPECTION & DOCUMENTATION PLATFORM

Simply connect the single camera head cable to the INVIZ® MATRIX SNK / INVIZ® Revolver 80 docking bay interface. The MATRIX software will recognize your Revolver 80 automatically and offer a fantastic portfolio of features and capabilities setting new standards in the industry. The camera image is shown in unique quality and high resolution. System operation is controlled by the integrated joystick and easy touch screen interface. The image and video documentation quality of the INVIZ® MATRIX system will elevate your work to the highest standard. Other alternative remote visual equipment perhaps needed to complete the full inspection will connect to the same system. The INVIZ® MATRIX platform is offering many additional useful capabilities and time advantages while just using one remote visual inspection solution. Find more details and all about those additional benefits by visiting our webpage or contact simply our representative for a product presentation.

CAMERA HEAD	
Dimensions in mm (inch)	(W) 409 (16.10) x Ø 79 (3.11)
Weight in kg (lbs)	1.2 (2.6)
Material	Anodized aluminium
Resolution	Side view camera: 530 lines | Front view camera: (H) 752 x (V) 582 pixel, light sensitive, FOV: 70° | Camera moduls toggle
Zoom	Side view camera: 10x optical / 12x digital zoom (FOV range: 4.6° to 46°)
Iris & shutter	Manual and automatic
Illumination	2 x 4 ultra-bright LED illumination for side module (manual / auto) | 15 x ultra-bright LED illumination for front module (auto)
Panoramic Scan	Endless 360° rotation | Digital control | Rotation speed: 0.1° to 90° / sec. | Self-levelling automatic keeps the camera head in upright position (positioning dependent to earth-gravitation)
Working cable length in m (ft.)	3 (9.8) to 50 (164), optional up to 200 (640)

OPERATING ENVIRONMENT	
Temperature	-10°C (15°F) to 50°C (120°F), recommended range
Watertight	Up to 1.5 m (5 ft.) depth of water

OPTIONAL ACCESSORY

Camera head transport case

The robust, mobile storage and transportation case fitting one INVIZ® Revolver 80 and one INVIZ® SNK camera head.
Dimensions in mm (inch): (W) 415 (16.34) x (H) 465 (18.31) x (D) 190 (7.48)
Weight in kg (lbs): 3.25 (7.16).

Accessory soft pouch

The soft pouch has a defined interior to hold loose camera cable up to 50 m (164 ft.). There is space for accessories such as centring device and tools needed. The practical shoulder strap makes it easy to transport freeing up hands.
Accessory soft pouch including: Standard main cable soft bag (up to 50 m / 164 ft.).

Slip ring cable reel

The practical reel is to be used if the camera cable length exceeds 50 m. Just unwind as much cable as needed while operating. The cable on the reel helps cable handling and the workspace clear of tripping hazards. The drum integrated electronics amplify and drive the camera and power up to 200 m (640 ft.) cable length.

Centring ring small (included in scope of delivery)

The centering ring's material (POM) and shape is creating minimal friction when pushing the camera inside a pipe. It holds the camera head in central position allowing fast orbital inspection without resetting image and focus settings. The recommended min. pipe dimensions are 100 mm (3.94˝) to max. 200 mm (7.87˝).

Centering fixture medium

This centering tool is used inside medium size pipes. The adjustment range of the tool is 140 mm (5.51˝) to 210 mm (8.27˝). It keeps the camera off the ground and eases inspection when centered. Six plastic wheels ensure low operation friction when pushing the system inside the pipe. Construction: aluminium. The recommended min. pipe dimensions are 145 mm (5.70˝), to max. 400 mm (15.74˝).

Centering fixture large

This tool is to be used with the INVIZ® Revolver 80 camera head inside big size pipes. The adjustment range of the tool is 225 mm (8.86˝) to 540 mm (21.25˝). It positions the revolving camera in the centre of the pipe. Six strong plastic wheels ease the operation and friction. The recommended min. pipe dimensions are 230 mm (9.05˝), to max. 1.000 mm (39.37˝). Construction: aluminium.

Connectable push rods

These push rods are available in different length and flexibility. Standard length is 1.5 m (4.92 ft.). They simply connect with 10 mm fast connectors. Soft, medium and stiff flexibility grade rods help pushing the camera over great working distances and around tight radiuses. Up to twenty-five rods find space in the practical quivers style soft bag. With that, transportation hands free is easy.

Glass fiber pushing aid

The fibre rod connects with the fast mount end to the camera head or alternatively to the centring trolley. Different sets of working length and stiffness are available. Following dimensions are available:

TYPE	FIBER SIZE	LENGTH	WEIGHT	OTHER
PE coated	6 mm / 0.23˝	30 m / 98 ft.	6.8 kg / 14.99 lbs	Reel in steel
PE coated	6 mm / 0.23˝	50 m / 164 ft.	7.8 kg / 17.19 lbs	Reel in steel
PE coated	9 mm / 0.35˝	50 m / 164 ft.	12 kg / 26.45 lbs	Reel in steel
PE coated	9 mm / 0.35˝	70 m / 230 ft.	14 kg / 30.86 lbs	Reel in steel
PE coated	11 mm / 0.43˝	100 m / 328 ft.	35 kg / 77.16 lbs	On wheels / Reel in steel
PE coated	15 mm / 0.59˝	150 m / 492 ft.	77 kg / 169.75 lbs	On wheels / Reel in steel

All specifications are subject to change without notice due to technical progress.

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