







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.











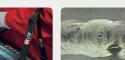








Connect, control









PW03-005_1-3



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.

0° TO 30° 30° TO 60° 60° TO 90° 90° TO 120° 120° TO 150° 150° TO 180° 180° TO 210° 210° TO 240° 240° TO 270° 270° TO 300° 300° TO 330° 330° TO 360°

Detail with 10x optical zoom Overview

180° 180°

180°

DOCUMENTATION PLATFORM BOCUMENTATION PLATFORM CARRIER RVI AND CARRIER R

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 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.

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.

Dimensions in mm linch	CAMERA HEAD								
Accessory soft pouch	Dimensions in mm (inch)	(W) 409 (16.10) x	Ø 79 (3.11)						
Accessory soft pouch	Weight in kg (lbs)								
Side view carners: 10x optical / 12x digital zoom IFOV range: 4,6*to 46*] Iris & shutter Manual and automatic 2 x 4 utra-bright LED illumination for side module Imanual / autol 15 x utra-bright LED illumination for finder module Installation 2 x 4 utra-bright LED illumination for side module Imanual / autol 15 x utra-bright LED illumination for front module Installation 2 x 4 utra-bright LED illumination for side module Imanual / autol 15 x utra-bright LED illumination for front module Installation 3 ling sign post for positioning dependent to arith-gravitation) 3 ling sign post for positioning dependent to arith-gravitation 3 ling sign post for positioning dependent to arith-gravitation 3 ling sign post for positioning dependent to arith-gravitation 3 ling sign post for positioning dependent to arith-gravitation 3 ling sign post for positioning dependent to arith-gravitation 4 ling sign post for positioning dependent to arith-gravitation 5 ling sign post for positioning dependent to arith-gravitation 5 ling sign post for positioning dependent to arith-gravitation 6 ling sign post for positioning dependent to arith-gravitation 7 ling sign post for positioning dependent to arith-gravitation 8 ling sign post for positioning dependent to arith-gravitation 8 ling sign post for positioning dependent to arith-gravitation 9 ling sign post for positioning dependent 9 ling sign post for positioning dependent to arith-gravitation 9 ling sign post for positioning dependent 10 ling sign post for positioni	Material								
Pris & shotter Manual and outematic 24.4 futr-a-bright LED illumination for side module Imanual 7 auto 115 x utrra-bright LED illumination for root module Imanual 7 auto 115 x utrra-bright LED illumination for front module Industrial Control 180 attoins speed: 0.11 to 79° / sec. Self-levelling automatic keeps the camera head in upright position [positioning dependent to earth-gravitation]	Resolution	Side view camera: 530 lines Front view camera: (H) 752 x (V) 582 pixel, light sensitive, FOV: 70° Camera moduls toggle							
### Received to the processor of the pro	Zoom	, , , ,							
Paneramic Scan Endies S&P relation Diplat corter Retailon speed (0.1* to 90° / sec. Self-levelling automatic keeps the camera head in uprisph position in positioning dependent to earth-gravalational	Iris & shutter								
in upright people in the Control of	Illumination								
Temperature ### -10**C 15**Fill to 50**C 120**Fil, recommended range Up to 1.5 m (5 ft.] depth of water ### OPTIONAL ACCESSORY Camera head transport case	Panoramic Scan	Endless 360° rotation Digital control Rotation speed: 0.1° to 90° / sec. Self-levelling automatic keeps the camera head							
Temperature 10°C (15°F) to 50°C (120°F), recommended range Watertight OPTIONAL ACCESSORY The robust, mobile storage and transportation case fitting one INV2* Revolver 80 and one INV2* SNK camera head. Dimensions in mm linchi: INVI 415 (16.24) x IH) 465 (18.21) x (D) 190 (7.48) Accessory soft pouch The soft pouch has a defined interior to hold loose camera cable up to 50 m [144 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: Slandard main cable self tog lup to 50 m / 164 ft.]. Stip 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 initide a pipe. It helds the camera head in central position allowing fast orbital inspection without receiting indies a pipe. It helds the camera head in central position allowing fast orbital inspection without receiting indies a pipe. It helds the camera off the ground and cases inspection without receiting indies a pipe. It helds the camera head in central position allowing fast orbital inspection without receiting in the camera without receiting in the camera and the ground and cases inspection without receiting in the camera without receiting in the camera and the ground and cases inspection when centreed. Six plastic wheels ensure low operation friction when pushing the system in diese the pipe. Construction allowinition. The recommended min. pipe dimensions are 426 mm [5.70], to max. 400 mm [15.74]. This tool is to be used with the INVIZ* Revolver 80 camera head inside big size pipes. The adjustment	Working cable length in m (ft.)								
### Camera head transport case The robust, mobile storage and transportation case fitting one NNZP Revolver 80 and one INVZP SNK camera head. Dimensions in mm linch!; INV 415 [16.24] x [H] 465 [18.21] x [D] 100 [7.48] ### Accessory soft pouch The soft pouch has a defined interior to hold loose camera cable up to 50 m [16.4 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 / 16.4 ft.). ### The practical reel is to be used if the camera cable legit exceeds 50 m. Just unwind as much cable as needed while operating. The cable on the reet 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 [6.40 ft.] cable length. #### Centring ring small (included in scope of delivery) 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 [3.947] to max. 200 mm [7.877]. #### Centering fixture medium ##### This centering tool is used inside medium size pipes. The adjustment range of the tool is 140 mm [5.747]. ##### This centering tool is used inside medium size pipes. The adjustment range of the tool is 140 mm [5.747]. #### This centering tool is used inside medium size pipes. The adjustment range of the tool is 150 mm [6.747]. #### This centering tool is used inside medium size pipes. The adjustment range of the tool is 140 mm [5.747]. #### This centering from [7.747] it positions the revelving camera in the centre of the pipe. Six strong plastic wheels ease the operation and friction. The recommended min. pipe dimensions are 230 mm [9.757]. Constructions aluminium. ##### This cold is 0.52 mm [8.87] to 500 mm [2.757]. It positions the revelving camera in the centre of the pipe. Six strong plastic wheels ease the operation									
Camera head transport case The robust, mobile storage and transportation case fitting one INMZ® Receiver 80 and one INMZ® SNK camera head. Dimensions in mm linehi. (W) 415 16.34 ix (H) 465 18.31 ix (D) 190 (7.48) Weight in kg (lbs.): 3.25 (7.16). 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 includings: Standard main cable soft bag (up to 50 m / 164 ft.). Stip 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 crasting minimal friction without resetting image and focus settings. The recommended min. pipe dimensions are 100 mm (3.947) to max. 200 mm (7.877). Centering fixture medium This centering tool is used inside medium size pipes. The adjustment range of the tool is 140 mm (5.717) to 270 mm (8.277). It knops the camera of the ground and cases inspection when centered. Six plostic wheels saure leve operation friction when pushing they specime misdle to pipe. Construction: aluminium. The recommended min. pipe dimensions are 145 mm (5.707), to max. 400 mm (18.747). Centering fixture (argue the construction) aluminium. The scots are available in different tength and flexibility. Standard length is 1.5 m (4.92 ft.). They since the construction aluminium. These push rods are available in different tength and flexibility. Standard length is 1.5 m (4.92 ft.). They since the construction aluminium. These push rods are available in different tength and flexibility in grade rods help pushing the camera over great workin	Temperature	-10°C (15°F) to 50°C (120°F), recommended range							
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PE coated 6 mm / 0.23 50 m / 164 ft. 7.8 kg / 17.19 lbs Reel in steel	Glass fiber pushing aid				-				
DF control 0 mm / 0.25"					-				
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					-				











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