





REVOLVING DUAL PANORAMA SCAN CAMERA

REVOLVER 80

REMOTE VISUAL INSPECTIONS OF PIPE AND TUBE WALL AND ORBITAL WELDING



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 and secure relevant deviations. Get maximum details even from a 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 a connected push rod is keeping the camera in the center of the tube. Focus at any time during a panoramic scan. Precise camera control with the motorised scan and stop functionality. Save search and inspection time, reduce equipment maintenance costs while improving inspection results.

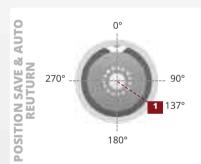
0 sec 10 sec.





Detail with 10x optical zoom

Overview



PANORAMIC SCAN





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.

AUTO LEVELING 909

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 Revolver 80 auto level function solves these problembs by keeping your camera in an upright 0° position. This resets the orientation and ensures a precise inspection starting point. Equipment handling and image interpretation are easy. Reduced inspection time leads to lesser user and equipment fatigue and hence to lower costs. Longitudinal weld seam inspections are seamless.



terface. The MATRIX software will automatically recognize your Revolver 80 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 MATRIX system will elevate your work to the hig-

The MATRIX platform is offering many additional useful capabilities and time advantages while just using one remote visual inspection solution.





CAMERA HEAD						
Dimensions in mm (inch)	(W) 409 (16.10) x Ø 79 (3.11)					
Weight in kg (lbs)	1.2 kg (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 length in m (ft.)	3 m (9.8) to 50 m (164), optional up to 200 m (640)					

OPERATING ENVIRONMENT			
Temperature	-10°C (15°F) to 45°C (113°F), recommended range		
Watertight	Up to 1.5 m (5 ft.) depth of water		

OPTIONAL ACCESSORY						
	The robust, mobile sto e Dimensions in mm (in Weight in kg (lbs): 3.25					
MATRIX E3 power pack with battery interface	MATRIX E3 power pack					
	The soft pouch has de centering device and t Accessory soft pouch i	@ C				
Slip ring cable reel	The practical reel is to I ting. The cable on the ramplify and drive the c					
Centering ring small (included in scope of delivery)	The material (POM) an The camera head is he The recommended mi					
Centering fixture medium	This centering tool is us keeps the camera off th pushing the system insi max. 400 mm (15.74").	to.				
Centering fixture large	This tool is to be used to 540 mm (21.25"). It ration and friction. Th struction: aluminium.	Z.				
Connectable push rods	These push rods are a mm fast connectors. S stances and around ti					
	The fibre rod connects The following sets of w					
	TYPE	FIBER SIZE	LENGTH	WEIGHT	OTHER	C.
	PE coated	6 mm / 0.23"	30 m / 98 ft.	6.8 kg / 14.99 lbs	Reel in steel	(X 1
	PE coated	6 mm / 0.23"	50 m / 164 ft.	7.8 kg / 17.19 lbs	Reel in steel	1
	PE coated	9 mm / 0.35"	50 m / 164 ft.	12 kg / 26.45 lbs	Reel in steel	Allen
	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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