

VISUAL INSPECTION HAS EVOLVED





IATA air transport compliant.

increased contrast or avoid any reflection issues. Integrated 'boost' function for clear visualisation in large cavities.

videoprobe and exchange lenses.

VUVAN® dition



HIGH QUALITY INSPECTIONS IN REAL TIME

DESIGNED SPECIFICALLY FOR LONG RANGE INSPECTION

The new VUSCREEN Touchscreen unit combines PPE-compatibility with an intuitive user interface and advanced software features. It offers perfect camera control in any situation and renders a crystal clear image onto the screen. Record videos in full resolution and take images for later analysis with a simple push of a button.



VUSCREEN CONTROL UNIT

Unique and portable LCD control unit with 10.4" LED backlight touch screen. Control your INVIZ® probe and all features via touch screen and direct access buttons.



INTEGRATED SOLID STATE HARD DRIVE

Store your images and video securely and safely on to the integrated solid state hard drive (up to 80 hours of videos and/or thousands of images).



MEDIA AND DATA CAPTURE

Record high resolution videos and images with personalized text entries, reference charts or customer logos. Manage all inspection data in the customizable file manager and export your data to USB for further processing.



CARBON FIBRE CONSTRUCTION

Designed to be robust and durable as well as high performance, the VUMAN and VUSCREEN both have a carbon fibre housing with elasto-polymer bumpers.



MEASUREMENT FUNCTION

Integrated measurement system, allowing for accurate measurement of linear distance, radius, circumference and area. Save the images with measurement data and you can re-measure as required.



THE HIGH PERFORMANCE VIDEOSYSTEM FOR REMOTE VISUAL INSPECTIONS

New dual high power LED light source for precise remote visual inspections, long range X-WAY video probes for an increased application range and extended software features for even better inspection results.



LIGHT AND PRECISE

CLASS LEADING 4-WAY ARTICULATION



PATENTED DRUM STORAGE

Enjoy full X-WAY
probe articulation with
the majority of your probe stored
in the patented drum storage.
Avoid tripping hazard and maintain
clean working environment.



CARBON CONSTRUCTION

Robust, compact and lightweight, optimized for industrial environment.



NO EXTERNAL AIR SUPPLY

Full X-WAY articulation with no external air supply or cartridge due to the integrated micro compressor.



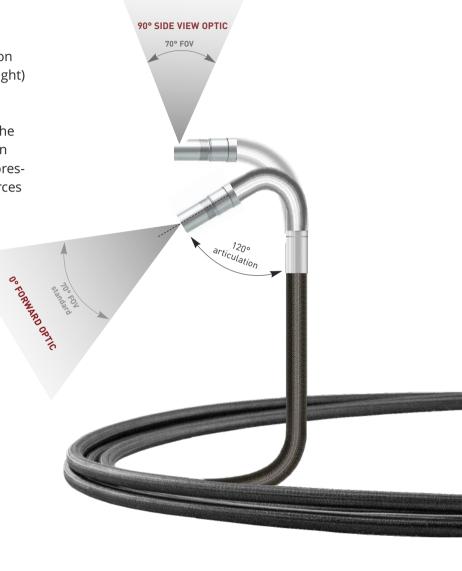
HOT SHOP REPAIR & SPARE PARTS

100% customer commitment:
Our Hot Shop Service meets the demands of all our customers, even those in the most demanding industries. We are ISO 9001 and KTA 1401 compliant and are always constantly improving our products & service.

The proprietary pneumatic X-WAY articulation system allows for full 4 axis (up/down/left/right) articulation of all VUMAN X-WAY probes.

The system is controlled by the joystick on the VUSCREEN control unit and is powered by an integrated, computer controlled microcompressor, so there is no need for external air sources or external gas canisters. The pneumatic connection to the probe is integrated into the connection block and as the system is pneumatic, X-WAY articulation can be applied to probes of up to 30m in length and can be used with the probe

'on-drum'.





A TOOL FOR **EVERY** TASK



INTERCHANGEABLE VIDEO PROBE INVIZ® 6

INTERCHANGEABLE VIDEO PROBE INVIZ® 6

INTERCHANGEABLE VIDEO PROBE INVIZ® 8

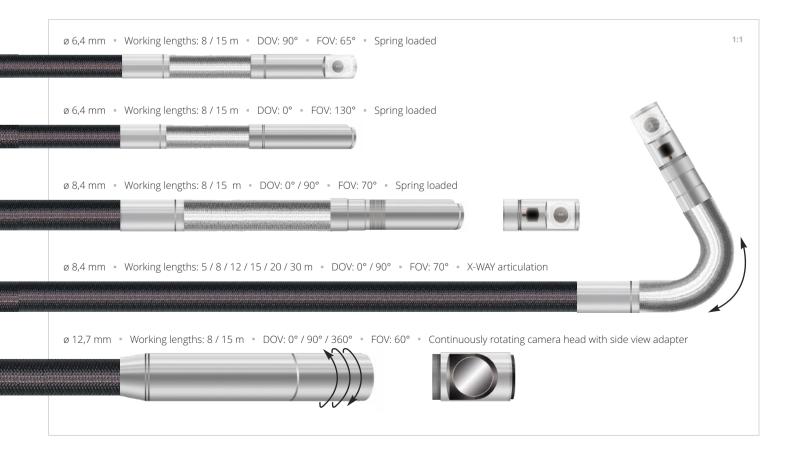
INTERCHANGEABLE VIDEO PROBE INVIZ® 8 X-WAY

INTERCHANGEABLE VIDEO PROBE INVIZ® REVOLVER 12.7

A unique feature allowing quick and simple exchange of probes with the base unit if your inspection application requires the use of different diameters or lengths of probes (a very wide range is available). This avoids the need to carry multiple base units, ensures modular repair capability and allows for a very cost effective solution. In the event of use within a contaminated environment (i.e. chemical, nuclear, food, pharmaceutical), it also allows for the probe to be removed or disposed of without having to clean or dispose of the entire system.

- :: Scan your application step by step with two probe articulation types and the probe lock for precise camera head control. The robe head either remains in the current position or moves back to 0°.
- :: All interchangeable VUMAN® video probes are available with working lengths up to 30 m / 100 ft. for maxium range.
- :: The functional design of our interchangeable VUMAN® video probes is based on the feedback of our customers and the extensive experience of our own industrial inspection service.
- :: Over 100 times more flexibility and bending radius, still remaining excellent torsion and friction characteristics due to the polyurethane stainless steel composite construction.
- :: The patented Remote Focus technology is offering the best focus range on the market from <1 mm to ∞, with no need for optical adapters.

- The INVIZ® Revolver 12.7 is the most efficient and effective tool available for extensive orbital tube and weld inspections. Adjustable and endless 360° camera head rotation (clockwise / counter-clockwise), this small motorized camera head offers excellent continuous orbital weld & wall inspections.
- :: The boost of the dual high power LED light source provides outstanding illumination in every application. Balance two seperately adjustable light outputs increasing failure analysis capabilities, reducing reflections and thus improving inspection results. Increase safety and productivity. A light source failing is no longer ending in sightless and risky probe exits and work stops.
- Non articulating VUMAN® video probes are designed for heavy duty tube inspections over long periods. Operated with its centering devices, these video probes with its spring loaded probe tip are an economically unbeatable and robust remote visual inspection system for your tube inspection needs.











		242	200	555	
BASE UNIT	INVIZ® VUMAN® E3	INVIZ® VUMAN® E3 X-WAY	INVIZ® VUMAN® E3+	INVIZ® VUMAN® E3+ X-WAY	
Dimensions in mm / inch	(W) 335 x (H) 410 x (D) 275 (W) 13.19 x (H) 16.14 x (D) 10.83	(W) 335 x (H) 410 x (D) 275 (W) 13.19 x (H) 16.14 x (D) 10.83	(W) 335 x (H) 410 x (D) 275 (W) 13.19 x (H) 16.14 x (D) 10.83	(W) 335 x (H) 410 x (D) 275 (W) 13.19 x (H) 16.14 x (D) 10.83	
Weight in kg / lbs	8.5 / 18,7	10/ 22	8.5 / 18.7	10 / 22	
X-WAY drive	-	Integrated compressor, maintenance free.	-	Integrated compressor, maintenance free.	
Probe length	max. 20 m	max. 20 m	max. 20 m	max. 20 m or 30 m*	
Construction	Aluminum–Carbon fiber with elastomer bumpers	Aluminum–Carbon fiber with elastomer bumpers			
LED dual light source	Lifetime guarantee High efficiency LED illumination 7.8 Watt Color temperature 6.500 K	Lifetime guarantee High efficiency LED illumination 7.8 Watt Color temperature 6.500 K	Lifetime guarantee High efficiency LED illumination 7.8 Watt Color temperature 6.500 K	Lifetime guarantee High efficiency LED illumination 7.8 Watt Color temperature 6.500 K	
System memory	10GB SSD	10GB SSD	80GB SSD	80GB SSD	
Connectors	USB 3.0 Recording remote control 12V(DC) / 750mA Aux-Out Optional external compressed air Rechargeable battery	USB 3.0 Recording remote control 12V(DC) / 750mA Aux-Out Optional external compressed air Rechargeable battery	USB 3.0 Recording remote control 12V(DC) / 750mA Aux-Out Optional external compressed air Rechargeable battery	USB 3.0 Recording remote control 12V(DC) / 750mA Aux-Out Optional external compressed air Rechargeable battery	
Video input	-	-	PAL / NTSC, Composite, S-Video	PAL / NTSC, Composite, S-Video	
Video output	HDMI	HDMI	HDMI, optionally with additional TV-Out (Composite, S-Video)	HDMI, optionally with additional TV-Out (Composite, S-Video)	
AC input	90V(AC) - 264V(AC) 47Hz - 63Hz max. 140 Watt	90V(AC) - 264V(AC) 47Hz - 63Hz max. 220 Watt	90V(AC) - 264V(AC) 47Hz - 63Hz max. 150 Watt	90V(AC) - 264V(AC) 47Hz - 63Hz max. 240 Watt	
Environmental specifications	Operation: -15°C (+5°F) to +48°C (+118°F) Storage: -25°C (-13°F) to +65°C (+150°F) Relative humidity: max. 95%, non condensing	Operation:-15°C (+5°F) to +48°C (+118°F) Storage:-25°C (-13°F) to +65°C (+150°F) Relative humidity: max. 95%, non condensing	Operation: -15°C (+5°F) to +48°C (+118°F) Storage: -25°C (-13°F) to +65°C (+150°F) Relative humidity: max. 95%, non condensing	Operation: -15°C (+5°F) to +48°C (+118°F) Storage: -25°C (-13°F) to +65°C (+150°F) Relative humidity: max. 95%, non condensing	
Software Kit	E3	E3	E3+	E3+	
Software	Default user Multi language user interface E-Manual White balance Probe articulation display** Articulation mode (absolute) Text color (black / white) Text background color (black / white) Copy / delete files Play / pause image capture (JPG) video capture (AVI)		Individual user 1-9 Multi language user interface E-Manual Dual LED illumination balance 8x (left/right)* Dual LED illumination boost** Brightness / contrast Digital image processing (Presets)** Long time exposure Flip / Mirror / Zoom Rotate (dockwise / counter-clockwise) Individual reference chart / customer logo Point marker Articulation mode (absolute / relative) Adjustable video recording length image capture (JPG / BMP) video capture (AVI / MPG) Continuous image capture** 4 status bars Date & time Item positioning Advanced data management Measure distances between two points** Measure circles (radius, diameter, circumference, circular area)** Assistance (grid & reference quality)** Save / move / zoom / delete measurements**		

 $^{{\}rm *~30~Meter~version~of~INVIZ@~VUMAN@~E3+~X-WAY~only~available~with~HDMI~and~additional~TV-Out~(Composite,~S-Video)}\\$

^{**} Features only available with V3 VUMAN $^{\rm @}$ probes and base units from V3.



VUSCREN CONTROL UNIT				
Dimensions in mm / inch	(W) 320 / 12.6 x (H) 30 / 1.18 x (D) 230 / 9.06			
Weight in kg / lbs	1.6/3.5			
Mounting	On base unit: integrated mounting Portable: shoulder strap			
Display	10.4" touch screen Transreflective LED backlight Viewing angle all directions +/- 80°			
Contrast	700:1			
Brightness	700 cd/m²			
Colors	True Color			
Operation	Touch screen incl. five direct access buttons and joystick (approved for operation with working gloves).			
Construction	Carbon fiber design with all around elastomer bumper; 2.5 m / 8.2 ft cable designed for harsh environments			
Functions	Image recording Video recording Freeze Toggle function Articulation control Articulation lock Probe lock Remote Focus slide bar Illumination slide bar			

IMPROVED BATTERY PACK

HALF THE WEIGHT, DOUBLE THE POWER.

Maximum portability and flexibility is provided by the new and improved NiMH modular battery pack. It offers the best performance and safety on the market and is air transportable. Operation of up to 3 hours on battery alone* and seamless changeover between battery and mains.







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INVIZ® INTERCHANGEABLE VIDEO PROBES	6 SIDE VIEW	6 STRAIGHT VIEW	8 X-WAY	8	REVOLVER 12.7
Probe diameter in mm / inch	6.4 / 0.25	6.4 / 0.25	8.4 / 0.33	8.4 / 0.33	12.7 / 0.5
Probe length in m / ft.	8 / 26.3 15 / 49.3	8 / 26.3 15 / 49.3	5 / 16.4 8 / 26.3 12 / 39.4 15 / 49.3 20 / 65.6 30 / 100	8 / 26.3 15 / 49.3	8 / 26.3 15 / 49.3
Probe length extension (up to 30 m / 100 ft.)	~	~	-	-	~
Weight in g / lbs	820 / 1.8 1140 / 2.5	820 / 1.8 1140 / 2.5	920 / 2.0 990 / 2.2 1175 / 2.6 1360 / 3.0 2330 / 5.4 3300 / 7.2	870 / 1.9 1240 / 2.7	1120 / 2.5 1520 / 3.4
X-WAY camera head articulation up / down / left / right	-	-	+/- 90° to +/- 120°	-	-
Remote Focus (RF)	•	-	✓	✓	-
Direction of view (DOV)	90°	0°	0° / 90°	0° / 90°	90° / 360°
Field of view (FOV)	65°	130°	70°	70°	60°
Focus range	< 1 mm to ∞	7 mm to ∞	< 1 mm to ∞	< 1 mm to ∞	< 1 mm to ∞
Resolution 440.000 px, (H) 752 x (V) 582	~	~	•	~	•
Mounting for centering device	•	•	✓	✓	•
Mounting for side view adapter	-	-	✓	✓	✓
Self centering supple bending section at camera head	~	~	-	~	-
Hard wearing stainless steel braid on polyurethan probe	~	~	✓	~	~
Watertight up to 1.5 bar / 22 psi	~	~	~	~	-
Splash waterproof	~	~	✓	~	✓
Centering device kit included in scope of delivery	•	-	-	-	~







ACCESSORIES					
Transport case	Dimensions in mm / inch: (W) 635 / 25 x (H) 510 / 20.08 x (D) 365 / 14.37. Weight (empty): 8,7 kg / 19,1 lbs. Transport case with wheels.				
Transport case INVIZ® spare probe	Dimensions in mm / inch: (W) 415 / 16.34 x (H) 465 / 18.31 x (D) 190 / 7.48. Weight (empty): 3,25 kg / 7.16 lbs. Transport case for spare probe.	S S S S S S S S S S S S S S S S S S S			
Option side view adapter	Side view prism for 8 mm interchangeable probes and side view adapter for 12.7 mm interchangeable probes.				
Option centering device kit	INVIZ® VUMAN® 8 mm X-WAY, Ø in mm / inch: 60 / 2.36 44 / 1.73 34 / 1.34 24 / 0.94 17 / 0.67 INVIZ® VUMAN® 8 mm non articulating, Ø in mm / inch: 60 / 2.36 44 / 1.73 34 / 1.34 24 / 0.94 17 / 0.67 INVIZ® Revolver 12.7 mm, Ø in mm / inch: 60 / 2.36 46 / 1.81 36 / 1.42 26 / 1.02				
Option pushing aid	PE coated glass fiber pushing aids with 4.5 mm / 0.17" for up to 30 m / 100 ft. video probe length.				
Option battery incl. charging unit	Capacity of coldness resistent NiMh: 9 Ah, 24 Volt. Operation time: approx. 3 h. Operation environment: 0°C to +48°C (32.0°F to +118.4°F).				

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





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