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IT CONCEPTS
IMAGING SOLUTIONS

REAL 3D

REAL 3D | REAL INSPECTION | REAL VIEW

Everything for Your Application

3D Measurement | Dual View | Working Channel with Tools | UV | ATEX | rigid and flexible | modular

Endoscopes in a wide range of configurations

Rigid Flexible Ultra-thin Robust UV Dual View with tools 3D measurement compact modular individually configurable!

iX3D

The iX3D system is a modular solution designed for high-precision 3D measurements. It is available with one or two video probes featuring 0° or 90° viewing direction and integrates stereo-sensor technology at the distal tip.
Combined with the proprietary iX3D software, the system captures even the finest surface structures with exceptional accuracy.
Measurement results can be documented, exported, and visualized as 3D models or point clouds, providing a reliable basis for technical evaluation and decision-making.

Diameter	4,0mm	6,0mm
Working Length	ab 1,5m	ab 1,5m
Direction of View	0°/0° | 90°/90°	0°/0° | 90°/90°
Articulation	4-Way	4-Way
Software	iX3D	

XLED

The XLED system forms the foundation of most flexible IT Concepts devices.
It delivers outstanding image quality and supports a wide range of applications.

Available in four diameters and multiple working lengths, it covers everything from very small access points 2.4 mm to robust 6.0 mm probes.
Together with the intuitive XOS software, inspections and documentation can be performed quickly and efficiently.

Diameter	2,4mm	3,0mm
Working Length	ab 1,0m	ab 1,0m
Direction of View	0°/90°	0°/ 90°
Articulation	2-Way	2-Way
Diameter	4,0mm	6,0mm
Working Length	ab 1,0m	ab 1,0m
Direction of View	0°/90°	0°/ 90°
Articulation	4-Way	4-Way
Software	XOS	

iXBO

The iXBO is a rigid video endoscope for inspection tasks where a flexible probe is not required, but modern imaging and software features are still essential.
It combines durability, excellent image quality, and advanced technology in a compact system.

Available viewing options include 0°, 90°, and Dual View, enabling simultaneous visualization of two perspectives.

Diameter	4,0mm	6,0mm
Working Length	ab 100mm	ab 100mm
Direction of View	0° / 90°	0° / 90°
Rundumsicht	360°	360°
Software	XOS	

iLED

The iLED PRO is a flexible CCD endoscope featuring global shutter technology, ensuring distortion-free images even during fast movements.

Available in three diameters and numerous lengths, it adapts to a wide variety of inspection environments.
The base configuration includes a 0° viewing direction and an interchangeable 90° field-of-view lens.
Additional interchangeable and focusable lenses 28°–120° and a 90° side-view adapter are available.

Diameter	4,0mm	6,0mm
Working Length	ab 1,5m	ab 1,5m
Direction of View	0°	0°
Articulation	4-Way	4-Way
Diameter	8,0mm	
Working Length	ab 1,5m	
Direction of View	0°	
Articulation	4-Way	
Software	XOS	

Endoscopes in a wide range of configurations

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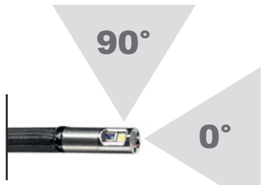
XLED DUAL VIEW

The XLED PRO Dual View builds on the proven 4.0 mm and 6.0 mm systems and adds a powerful feature: Two integrated sensors provide simultaneous 0° and 90° views.

Both perspectives are displayed side-by-side in the XOS software, eliminating the need for repositioning and significantly reducing inspection time and cost.

Diameter	4,0mm	6,0mm
Working Length	ab 1,5m	ab 1,5m
Direction of View	0° + 90°	0° + 90°
Articulation	4-Way	4-Way
Software	XOS	



Working Channel

This system is designed for inspections that require both visual analysis and direct intervention.

Tools such as hooks, magnets, baskets, and graspers can be mounted at the distal tip to remove foreign objects or debris.

Available in 6.0mm and 8.0mm diameters with multiple lengths, it offers maximum flexibility.

Diameter	6,0mm	8,0mm
Working Length	ab 1,5m	ab 1,5m
Direction of View	0°+ tool	0°+ tool
Direction of View	90° Adapter	90° Adapter
Articulation	4-Way	4-Way
Software	XOS	

iRIS 5 Touch

A compact all-in-one system with CCD technology, delivering sharp and detailed images.
The integrated 5“ display provides excellent visibility while keeping the device lightweight and portable.

The intuitive software can be operated via touchscreen or side buttons—ideal when wearing gloves.

Diameter	4,0mm	6,0mm
Working Length	ab 1,5m	ab 1,5m
Direction of View	0°	0°
Articulation	4-Way	4-Way

iRIS XT

Developed for demanding and sensitive environments, especially explosion-hazard areas.
Its shielding meets the highest safety requirements.

The ergonomic design enables comfortable one-hand operation, while the other hand guides the probe. Silent controls and reinforced housing edges ensure reliability in tactical operations.

Diameter	4,0mm	6,0mm	8,0mm
Working Length	ab 1,5m	ab 1,5m	ab 1,5m
Direction of View	0°	0°	0°
Articulation	4-Way	4-Way	4-Way

Endoscopes in a wide range of configurations

Rigid Flexible Ultra-thin Robust UV Dual View with tools 3D measurement compact modular individually configurable!

iRIS 7 PRO

A powerful all-in-one system combining video endoscope and documentation unit.
The integrated 7“ touchscreen enables efficient operation.

Powered by the EIOS software, it supports live streaming to smartphones and offers advanced documentation features.
Based on the iLED PRO technology, it includes CCD and global shutter imaging. Interchangeable lenses 28°–120° and a 90° side-view adapter are available.

Diameter	4,0mm	6,0mm	8,0mm
Working Length	ab 1,5m	ab 1,5m	ab 1,5m
Direction of View	0°	0°	0°
Articulation	4-Way	4-Way	4-Way

Wechselobjektive für alle Modelle

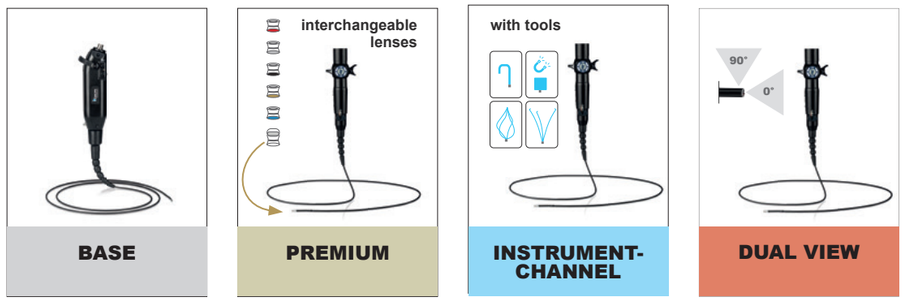
Compact or Modular – Maximum Flexibility

Our compact video endoscopy systems are all-in-one solutions that can be individually configured to meet the requirements of a wide range of applications.
At the same time, our modular systems offer maximum flexibility: all video endoscopes can be combined in versatile ways and can be adapted, expanded, or reconfigured at any time.
Each video endoscope is designed to be used with a display or documentation unit. For example, users can operate multiple endoscopes for different applications efficiently using a central documentation unit such as the rugged “XTAB” tablet.
The range of applications is extensive—from classic indirect visual inspection to highly specialized inspection tasks. For challenging viewing conditions, interchangeable objectives with different viewing angles provide perfectly optimized visibility within the inspection area. Additional high-performance options further expand the system’s capabilities: Dual-view technology: Simultaneous viewing in 0° and 90° directions within a single inspection pass, e.g. for parallel inspection of weld seams. Instrument channel: Enables direct intervention during inspection, such as removing foreign objects or deposits. Special lighting: In addition to LED illumination, options such as infrared, UV, or blue light are available.
A particular highlight is the advanced 3D measurement technology: using stereo sensors and our proprietary 3D software, three-dimensional point clouds, rotatable 3D models, and color-coded depth maps can be generated. This allows damage such as cracks, corrosion, or defects to be measured, analyzed, and documented directly—providing an ideal basis for well-founded decisions.

Nearly all of the described functions and features are available in both our rigid and flexible video endoscopes.
In addition, we offer a comprehensive range of case solutions and mounting systems designed for a wide variety of environmental conditions.

Compact devices Individually configurable

Modular – combinable devices Individually configurable



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Display / documentation

Product portfolio explained

REAL 3D - Sicht und Messung

Point to Point Point to line point to plane multipoint area profile max depth dent

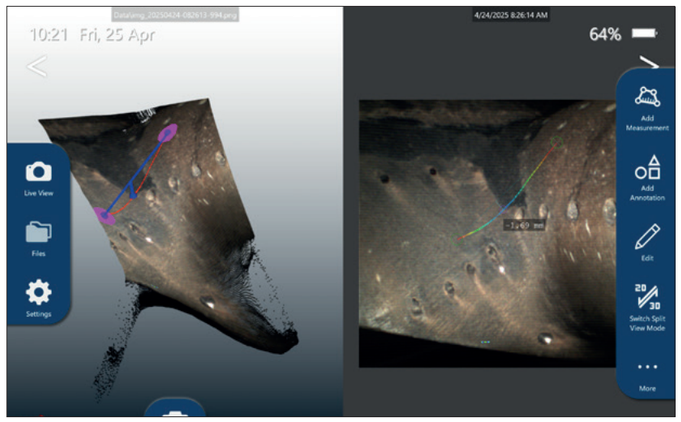
The perfect interface between the endoscope and the computer

Maximum flexibility in application, and so intuitive that you can get started right away!
With the introduction of our new software solutions XOS and iX3D, we are revolutionizing video endoscopy. Our powerful software enables the seamless integration of our video probes on all Windows-based devices—from tablets and laptops to high-performance workstations.
By utilizing state-of-the-art algorithms and an optimized interface architecture, XOS and XOS 3D ensure high image quality in real time, including true 3D visualization. Automatic device detection and user-friendly operation eliminate the need for extensive training—simply connect and start immediately.

Software

XOS The proprietary software provides all the necessary functions for carrying out indirect visual inspections and offers optimal support for users throughout all inspection processes. It enables comprehensive control of the video endoscope, particularly with regard to imaging and camera functions. In addition, images and videos can be easily organized, edited, and analyzed. This allows the collected data to be evaluated efficiently, documented in a structured manner, and, if required, digitally shared—ensuring seamless integration into existing workflows.

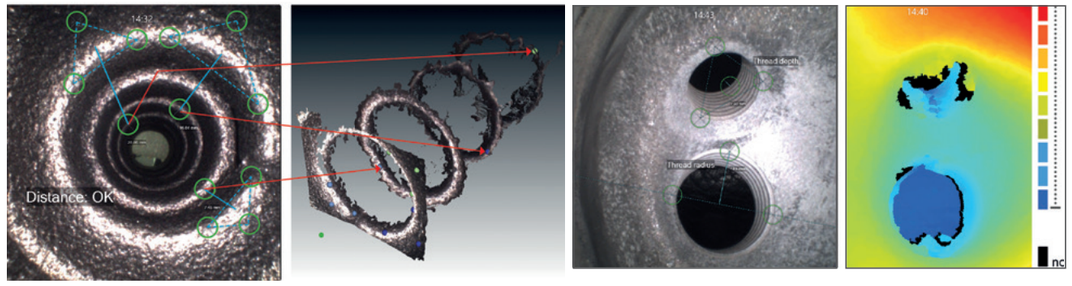
XOS 3D With the XOS 3D software option, in combination with 3D stereo probes, you gain access to a powerful and comprehensive measurement technology for precise analysis in inspection applications.
Eight integrated measurement functions allow damage, deviations, and complex structures to be measured accurately and evaluated in detail. This ensures that even demanding inspection tasks can be documented reliably and transparently.
The visualization as 3D point clouds, rotatable 3D models, and color-coded depth maps enables precise verification of measurement points and significantly increases the accuracy of the analysis.



Measurement Methods

Point-to-point
Point-to-line
Point-to-plane
Multipoint
Area
Profile
Max depth
Dent analysis
AI

Our iX3D measurement software enables precise analyses through the targeted selection of optimal measurement methods. In addition to the classic 2D display, **the freely rotatable 3D point cloud** visualizes the set measurement points in the inspection space – for double control and maximum measurement accuracy.



iX3D measurement methods

point to point Set 2 measurement points, Result shows distance between both points in mm

point to line Set 2 points to define reference line - Set 3. point as measurement point - Result shows shortest distance between measurement point and reference line in mm

point to plane Set 3 points to define the ref. Plane - Set 4. Point as measurement point - Result shows shortest distance between measurement point and the middle of reference area

multipoint Set points to define the multipoint line - Result shows distance between all measurement points in mm

area In this measurement mode, you can set any number of points to form an area. The surface area will then be displayed. The points can also be moved afterwards

profile In this measurement mode, the tread depth between two points can be displayed and analysed in a graph

max depth In this measurement mode, you can create a plane using three points, just like in depth mode. The deepest point of the surface will then be displayed and a height profile will be created. The points can also be moved afterwards

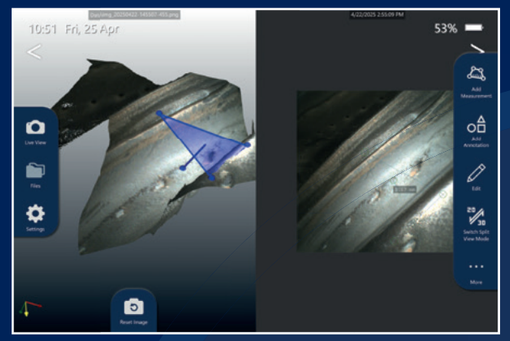
dent Similar to Max Depth, you can select several points, but instead of a straight surface, the surrounding surface is interpolated. In the selected area, the largest deviation from the simulated surface is displayed; this mode is more suitable for finding dents on curved surfaces

REAL 3D from IT Concepts

Real three-dimensional inspection

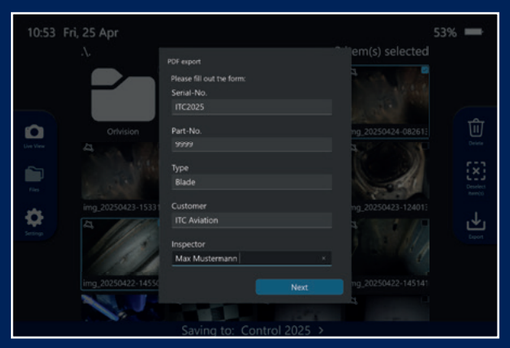
Experience the future of 3D with our latest measurement endoscope system and proprietary iX3D software! We bring the human ability of spatial vision to life like never before.

3D has never been this real.



Measurement view with 2D/3D visualization for intuitive measurement of complex components

Simple report generation with 2D/3D view and measurement table



ITCONCEPTS IMAGING SOLUTIONS

RVI Report

General Information

Serial-No.	ITC2025	Type	Blade
Part No.	9999	Customer	ITC Aviation
Inspector	Max Mustermann	Date	4/25/2025

Findings analysis

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2D view

3D view

Report as PDF file

REAL 3D ...and you won‘t miss a single detail!

Rediscover endoscopy like never before!

See more – thanks to realistic 3D perception in the inspection room.
We digitize human vision with two eyes to create perfect visibility and maximum detail accuracy.

High-performance

Robust. Compatible. High imaging performance.

Our documentation units are specifically designed for professional use. Thanks to their robust housing and shock-resistant design, they are ideally suited for daily operation (MIL-STD-810H, dual high-capacity, hot-swappable battery packs)—even under demanding conditions.
Equipped with high-resolution touchscreens, they deliver sharp and highly detailed visuals.

Maximum mobility. Highest image quality. Full compatibility.

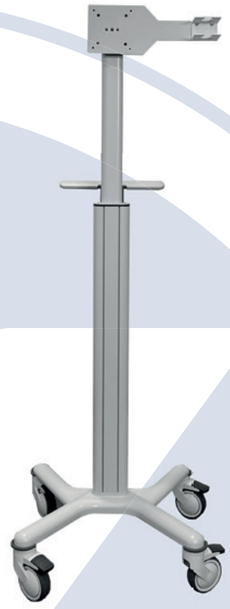
XTAB

- 10“ high-brightness touchscreen (1000 nits), with digital pen support
- Intel® Core™ i7 Pro® processor - dual hot-swappable batteries during operation
- IP65 certified
- MIL-STD-810H compliant
- Easy-to-open patented I/O ports
- Foldable tabletop stand

XTAB

- 14“ high-brightness touchscreen (1000 nits), with digital pen support
- Intel® Core™ i7 Pro® processor – two hot-swappable high-capacity batteries
- IP65 certified
- MIL-STD-810H compliant
- Foldable tabletop stand

Mobile Workstations



Trolley Basic

- Base area: 520 x 520 mm
- Maximum load capacity: 30 kg
- Compliant with MDR 2017/745
- EN 60601-1 compliant
- VESA mount – height adjustable from 1.510 to 1.770 mm
- Tilt range: -0° to +35°
- Swiveling: ±28°
- Total weight: 14.3 kg

Trolley Premium

- Variable working height = 89-118 cm; column height continuously adjustable
- VESA mount for PC/tablet with tilt and swivel functionality
- Storage shelf with recessed handle
- Endoscope holder
- 4 stable, rubberized swivel casters with locking brakes
- Overall dimensions: 529 mm (W) × 590 mm (D) × 1.290–1.640 mm (H)
- Weight: 30 kg
- Aluminum column and base made of aluminum

Konfiguration

Videoprobes	PC	Tablet-mounting	Software	3D-Measurement	Trolley	Case	Mounting
iX3D	XTAB  10 Inch		 XOS	 iX3D			
XLED							
XLED DV							
XIC							
iLED	XTAB  14 Inch						
iXBO							
iXBO DV							
iXBO 3D							

Compact Devices

iRIS 5 TOUCH			integrated				
iRIS XT			integrated				
iRIS 7 PRO			EIOS				

We will be happy to advise you

www.itcworld.com

Please ask

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