



REMOTE VISUAL INSPECTION

Videoscope Systems

Customers Solution

Videoscopes from 3mm Ø

Flexible Endoscopes from 0.5 mm Ø

Rigid Endoscopes from 1.9 mm Ø

Application Consulting

Special Service Packages

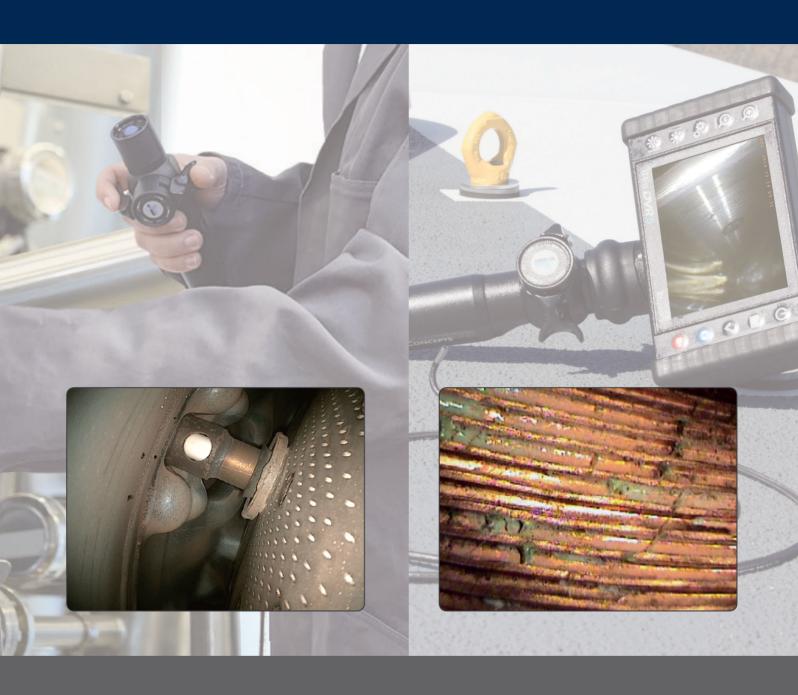
Manufacturing and Service in Germany

www.itcworld.com













iRis DVR 5

Portable Videoscope System



Tactile feedback

Thanks to the non-motorized infinite joystick control, users can navigate the probe responsively with tactile feel and precise tip positioning.

Operating unit

Display size: 5.0" (12.7cm) TFT colour
Display resolution: VGA (640 x 480 pixel)

Operating system: Real-time operating system with

on-screen menu

Direct action keys / function keys /

arrow keys

Languages: English, German, Polish, French, Spanish,

Italian, Turkish

Video interface:Composite video-out (BNC)Power supply, primary:Rechargeable Li-ion batteryPower supply, secondary:12V adapter (optional accesorys)

Documentation

Video format: MPEG4 (.avi) (with time and date stamp)
Image format: BMP (.bmp) (with time and date stamp)
Storage: SDHC Memory card up to 32GB (FAT32)

Image analysis

Method: Camera

Image sensor:

Camera control:

Image control

Text annotation:

Functions:

Comparative Measurement

High resolution Super HAD

CCD image sensor

White balance, AGC level, Gamma, Shutter, Gain Control, Time exposure

- 16 step digital zoom

- Horizontal and vertical image inversion

- Brightness

- Contrast

- Colour

Buil-in text overlay generator

Bright and high-contrast display **Excellent image quality Rotatable Monitor Ergonomic handle** Precise articulation control **High Power LED light source** Temperature resistant up to 140°C

Focusable and interchangable objectives lens and side view tip adapters





6.0mm

6.0mm

6.0mm

6.0mm

8.0mm

8.0mm** 90°

DOV

U°

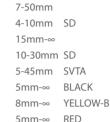


60°

60°

FOV

60°



CODE

GREEN









5-15mm SVTA-CF 15-50mm SVTA-FF 25mm-∞ BLUE 5mm-∞ **BLACK** 8mm-∞ YELLOW-B

3mm-∞





SMART-FOCUS

Close focus and far focus





turned in = far





turned out = close



DOV = Direction of view CF = Close focus FOV = Field of view FF = Far focus DOF = Depth of focus B = Bright objective lens SVTA = Side view tip adapter (90°DOV) **Compatible to FOV60°

Probe

Diameter: 6.0 mm Working lenght: 4-way / 360° 4-way / 360° 4-way / 360° Integrated objectiv lens: Interchangeable objectiv: Side view tip adapter: X (60° FOV) Multi-layer tungsten braid on PU jacket Braid:

Illumination

High-power LED Type:

Illumination control: approx. 6500 k Colour temperature: approx. 5000 h Average lamp lifetime:

with high transmission fiberoptics

Resistance:

± 90° rotatable display, **Ergonomics:** alt. ±90° rotatable handle

Weight:

Dimensions: 180 mm X 105 mm X 45 mm

Housing: Rugged PU,

with integrated rubber shock caps

140°C less than 5 Minutes Tip operating temperature:

-25°C to +80°C

System operating temperature: -25°C to +46°C -25°C to +60°C Storage temperature:

Relative humidity: 95% less than - non condensing

Waterproof: Probe and distal End

up to 1 bar- 10.2m H2O Probe and distal End to oils and saline (5%)

iRis DVR X

Portable Videoscope System



Tactile feedback

Thanks to the non-motorized infinite joystick control, users can navigate the probe responsively with tactile feel and precise tip positioning.

Documentation unit

Display size: 5.0" (12.7cm) TFT colour Display resolution: VGA (640 x 480 pixel) Operating system: Realtime operating system, with on-screen menu

arrow keys

Language: English, German, Polish, French, Spanish,

Italian, Turkish

Video interface: Composite video-out (BNC) Power supply, primary: Rechargeable Li-ion Akku 12V Adapter (optional accessory) Power supply, secondary:

Video format: MPEG4 (.avi) (with time and date stamp) Image format: BMP (.bmp) (with time and date stamp) SDHC Memory card up to 32GB (FAT32) Storage:

Image analysis Method:

Camera

Image sensor:

Camera control:

Image control

Functions:

Comparative Measurement

AIT CMOS Image sensor

White balance, AGC level, Gamma,

Shutter, Gain Control, Langzeitbelllumina-

Text annotation:

- 16 steps digital zoom

- Horizontal and vertical image inversion

- Brightness

- Contrast

Built-in text overlay generator



+ Extreme economical

Large Display LED-Beleuchtung Fast and easy to use Up to 6 hours operation

Portable 90° Side View Tip Adapter **Economical Repair Service**





Probe

Diameter: 4.0mm 6.0mm Working lenght: 1.5 - 4.0m 4-way / 360° 4-way / 360° Articulation: Integrated objectiv: 90° FOV 90°FOV Side view tip adapter:

Braid: Multi-layer tungsten braid on PU jacket

Illumination

High power LED Type:

(4mm with high transmission fibreoptics /

Illumination control: Colour temperature: approx. 6500k Average lamp lifetime: approx. 5000h Construction

Ergonomics: ± 90° rotatable display, alt. ±90° rotatable handle

Weight:

Dimensions: 180mm x 105mm x 45mm Rugged PU, with integrated Housing:

rubber shock caps

-13°F to 176°F (-25°C to +80°C) Tip operating temperature: System operating temperature: -13°F to 115°F (-25°C to +46°C) Storage temperature: -13°F to 140°F (-25°C to +60°C) Relative humidity: 95% less than - non condensing

Waterproof: Probe and distal End

up to 1 bar- 10.2m H2O

Resistance: Probe and distal End to oils and

saline (5%)

iTool DVR Scalable

Modular Videoscope System



Model

Connectable to: iSeries Videoproben iWC Working Channel

UV Proben

Cube Cam (Faser- and Starres Endoskop)

X-LED Videoproben

Device

Display size: 7" TFT Colour
Display resolution: VGA (640x480 Pixel)

Operating system: Realtime operating system, with on-

screen menu

Direct action keys / function keys / arrow

evs

Language: English, German, Polish, French, Spanish,

Italian, Turkish

Video interface: Composite Video-out, Composite

Video-in, S-Video-in

Audio interface: 3.5mm Audio-in / Audio-out

Power supply, primary: Power supply, secondary:

12V via AC-Adapter 12V via Batterie Belt

Image analysis

Method Comparative Measurement

Storage

Video format:MPEG4 (.avi) (with time and date stamp)Image format:BMP (.bmp) (with time and date stamp)Storage:SD-HC-Memory card up to 32GB (FAT32)

Camera settings

Functions: White balance, AGC level, Gamma,

Shutter, Gain Control

Modular documentation unit Extrem flexible in use High resolution monitor Station or portable Interchangeable probes and cameras



Image control

Functions: - 16 steps digital zoom

- Horizontal and vertical image inversion

- Brightness - Contrast

- Colour

Text annotation: Built-in text overlay generator

Illumination

Type: 24Watt Metal Halide Illumination control: stepless/manual Colour temperature: approx. 6000k Average lamp lifetime: approx. 500h

Device

Weight: 2,25kg Device / 9,2kg incl. Probe and Case

Dimensions: 290mm x 190mm x 70mm

Housing: Rugged PU Frame: Alluminium

Tip operating temperature: $14^{\circ}F$ to $176^{\circ}F$ (- $10^{\circ}C$ to $+80^{\circ}C$)

System operating temperature: $-13^{\circ}F$ to $113^{\circ}F$ (- $25^{\circ}C$ to $+45^{\circ}C$)

Storage temperature: $-13^{\circ}F$ to $113^{\circ}F$ (- $25^{\circ}C$ to $+45^{\circ}C$)

Relative humidity: 95° less than - non condensing

Interchangeable Probes

ITOOL DVR IWC WORKING CHANNEL Scalable

Modular Videoscope System



Video interface

Connectable to: • iTool DVR • iCapture DVR • USB Frame Grabber • Composite Video

Wechsel-Proben

Diameter: Working lenght: Articulation: 4-way / 360° 4-way / 360° Integrated objectiv: Interchangeable Objectives: Working channel (iWC) UV version Side view tip adapter: o (**60° FOV) Multi-layer tungsten on PU jacket

- 13°F to 176°F (-25°C to +80°C) 140°C less than 5 Minutes Tip operating temperature:

System operating temperature: - 13°F to 115°F (-25°C to +46°C) Storage temperature: - 13°F to 140°F (-25°C to +60°C) Relative humidity: 95% less than - non condensing

Probe and distal End up to 1 bar- 10.2m H2O Waterproof: Resistance: Probe and distal End to oils and saline (5%)

iTool DVR UV Illumination Scalable

Modular Videoscope System



Interchangable Objectives and Side View Tip Adapter SVTA

Probe	DOV	FOV	DOF	CODE
4.0mm	0°	60°	7-50mm	
4.0mm	0°	60°	4-10mm	SD
4.0mm	0°	90°	15mm-∞	
4.0mm	0°	90°	10-30mm	SD
4.0mm**	90°	60°	5-45mm	SVTA
6.0mm	0°	60°	5mm-∞	BLACK
6.0mm	0°	60°	8mm-∞	YELLOW-B
6.0mm	0°	90°	5mm-∞	RED
6.0mm	0°	120°	3mm-∞	GREEN
6.0mm**	90°	60°	5-15mm	SVTA-CF
6.0mm**	90°	60°	15-50mm	SVTA-FF

Probe	DOV	FOV	DOF	CODE
8.0mm	0°	28°	25mm-∞	BLUE
8.0mm	0°	60°	5mm-∞	BLACK
8.0mm	0°	60°	8mm-∞	YELLOW-B
8.0mm	0°	90°	8mm-∞	SILVER-B
8.0mm	0°	90°	5mm-∞	RED
8.0mm**	90°	60°	5mm-∞	SVTA

 $\mathsf{DOF} = \mathsf{Depth} \ \mathsf{of} \ \mathsf{focus} \qquad \qquad \mathsf{B} = \mathsf{Bright} \ \mathsf{objective} \ \mathsf{lens}$

SVTA = Side view tip adapter (90°DOV)

^{**}Compatible to FOV60°



Operating unit

alternative

Display: Operating system:

User interface:

Languages:

Video interface: Power supply, primary:

Power supply, secondary:

Documentation

Saving/recording:

Video format:

Image format:

Storage:

5.0" (12.7cm) TFT colour/nonreflecting

Real-time operating system,

with on-screen menu

Direct action keys / function keys /

English, German, Polish, French,

Spanish, Italian, Turkish

Composite video-out (BNC) Rechargeable Li-ion battery

Operating time more than 2 h 12V adapter (optional accessory)

Video recording

Direct image capturing / Freeze modus

MPEG4 (.avi)

(with time and date stamp)

BMP (.bmp) (with time and date stamp)

Could be converted to JPG at PC

SDHC memory card up to 32GB (FAT32) 8GB /SDHC in device when delivered

Measurement

Method

Camera control

Inegration modes:

White balance:

AGC level (gain control):

Gamma:

Image control

Zoom:

Invert: Brightness:

Text annotation:

Construction Ergonomics:

System weight:

Housing:

Comparative Measurement

automatic frame integration

standard / manuell / short / long

Factory default or user defined

Adjustable

Adjustable

3.5X / 16 step variable

Horizontal and vertical image inversion

Adjustable Adjustable

Built-in text overlay generator

rotatable display unit

205mm X 180mm X 70mm

Rugged PU,

with integrated rubber shock caps

- Operable by left/right handed users
- Excellent image quality
- Interchangeable lenses
- Integrated LED
- Ergonomic handle
- Precise and tactile articulation control
- Temperature resistant up to 140°C

- Variable video interface
- Compact and versatile
- Water & dust resistant
- Easy to carry, easy to setup, light in weight
- Compact case IATA standard

C	bjective				
	PROBE	DOV	FOV	DOF	CODE
	4.0mm	0°	60°	7-50mm	
	4.0mm	0°	90°	15mm-∞	
	4.0mm**	90°	60°	5-45mm	SVTA
h	nterchangeable	Objective			
	PROBE	DOV	FOV	DOF	CODE
	6.0mm	0°	60°	5mm-∞	BLACK
	6.0mm	0°	60°	8mm-∞	YELLOW-B
	6.0mm	0°	90°	5mm-∞	RED
	6.0mm	0°	120°	3mm-∞	GREEN
	6.0mm**	90°	60°	5-15mm	SVTA-CF
	6.0mm**	90°	60°	15-50mm	SVTA-FF
	PROBE	DOV	FOV	DOF	CODE
	8.0mm	0°	28°	25mm-∞	BLUE
	8.0mm	0°	60°	5mm-∞	BLACK
	8.0mm	0°	60°	8mm-∞	YELLOW-B
	8.0mm	0°	90°	8mm-∞	SILVER-B
	8.0mm	0°	90°	5mm-∞	RED
	8.0mm**	90°	60°	5mm-∞	SVTA

-		4:		
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System operating temp.: -13°F to 115°F (-25°C to +50°C)
Storage temperature: -13°F to 140°F (-25°C to +60°C)
Protection Class: IP 53
Relative humidity: 95% max. - non condensing

Probe

Sensor image: High Resolution 1/6" Image Sensor

 Resolution:
 total 752 x 582 px / 440.000 pxls

 Diameter:
 4.0 mm
 6.0 mm
 8.0 mm

 Working length:
 4.9 - 13.1ft
 4.9 - 13.1ft
 4.9 - 13.1ft

 (1.5 - 4.0 m)
 (1.5 - 7.5 m)
 (1.5 - 7.5 m)

 Articulation (bending neck):
 4-way / 360°
 4-way / 360°
 4-way / 360°

 Integrated objective lens:
 X

 Interchangeable objective lens:
 X
 X

 Side view tip adapter:
 X (with 60° FOV lens)
 X
 X

 Braid:
 Multi-layer tungsten braid on PU jacket

Interchangeable Objective Lens: X Side View Tip Adapter: X

Braid: Multi-layered tungsten braid

Protection Class: IP 53

Illumination

Average lamp lifetime:

Operating environment

Tip operating temperature:

Storage temperature: Relative humidity: Protection Class: Waterproof:

Resistance:

High Power LED approx. 15.000 h

-13°F to 176°F (-25°C to +80°C) (284°F/140°C less than 5 Minutes) -13°F to 140°F (-25°C to +60°C) 95% max. - non condensing IP 55 Probe and distal end

up to 14.7 psi (1 bar- 10.2m H2O) Hydrostatic head of 5 meters

Probe and distal end

to oils, saline (5%) and petroleum fluids



Modular Videoscope System









Documentation unit

Display size: 5.0" (12.7cm) TFT Colour Display resolution: VGA (640 x 480 pixel)

Operating system: Realtime operating system, with on-screen

Direct action keys / function keys / arrow

Language: English, German, Polish, French, Spanish,

Italian, Turkish

Video interface: Composite video-out (BNC) Power supply, primary: Rechargeable Li-ion Akku Power supply, secondary: 12V Adapter (optional accessory)

Storage

Video format: MPEG4 (.avi) (with time and date stamp) Image format: BMP (.bmp) (with time and date stamp) Storage: SDHC Memory card up to 32GB (FAT32)

Image analysis

Method:

Camera settings

Text annotation:

Functions:

Image control

Functions:

- 16 steps digital zoom

White balance, AGC level, Gamma, Shutter, Gain Control, Time exposure

Comparative Measurement

- Horizontal and vertical image inversion

- Brightness, contrast, colour Built-in text overlay generator

Device

Ergonomics: rotatable display Weight: 1.12kg

205mm x 180mm x 70mm Dimensions: Rugged PU, with integrated Housing:

rubber shock caps

-13°F to 115°F (-25°C to +46°C) System operating temperature: Storage temperature: -13°F to 140°F (-25°C to +60°C) Relative humidity: 95% less than - non condensing



→ Small diameter - 3.0 and 4.0mm

Perfect price performance ratio Clear images by high resolution sensor LED lighting for low power consumptions

Direction of view 0° direct and 90° Side view Faster and more economical repair and service



X-LED Video interface

Connectable to:

Camera control:

Probe

Braid:

Tip operating temperature: System operating temperature: Storage temperature: Relative humidity: Waterproof:

Resistance:

iTool DVR, iCapture DVR, USB Frame Grabber, Composite Video

AIT CMOS Image sensor Automatically

Multi-layer tungsten on PU jacket

-13°F to 150°F (-25°C to +46°C)

-13°F to 140°F (-25°C to +60°C) 95% less than - non condensing Probe and distal end up to 1 bar- 10.2m H2O

Probe and distal end to oils and saline (5%)

Diameter: Working lenght: Articulation: Articulation L/R: Integrated objectiv: Weight:

Dimensions:

Illumination

Type:

Control Colour temperature: Average lamp lifetime: 3.0 and 4.0mm 2 way

130°/130° 90° FOV 90° version

220 x 40 x 60mm

DOV 90° side view LED on the tip ON/OFF

LED with fiberoptic ON/OFF approx. 6500k approx. 6500k approx. 500h approx. 5000h

3.0 and 4.0mm

2 way

130°/130°

0° version

90° FOV

iFLEX

Flexible Fiberscope

High resolution
Robust in use
Optical image guide made from highly flexible fibre glass
Focusable eyepiece

Direct view / side view lens
Variable working lenghts
Many different probe diameters
Angular deflection of the probe tip
Diameter 2.4mm - 8.0mm



Probe Ø 2	.4mm			
Lenght	Articulation	DoV	FoV	Pixel
0.4m	2 way ±120° L/R	0°	45°	6000
0.7m	2 way ±120° L/R	0°	45°	6000
1.4m	2 way ±120° L/R	0°	45°	6000
1.3m	2 way ±120° L/R	0°	45°	6000
Probe Ø 3	.5mm			
Lenght	Articulation	DoV	FoV	Pixel
0.7m	2 way ±120° L/R	0°	50°	8000
1.0m	2 way ±120° L/R	0°	50°	8000
1.3m	2 way ±120° L/R	0°	50°	8000
1.5m	2 way ±120° L/R	0°	50°	8000
Probe Ø 4	.0mm			
Lenght	Articulation	DoV	FoV	Pixel
1.0m	2 way ±120° L/R	0°/90°	50°	11500
1.3m	2 way ±120° L/R	0°/90°	50°	11500
1.5m	2 way ±120° L/R	0°/90°	50°	11500
2.0m	2 way ±120° L/R	0°/90°	50°	11500

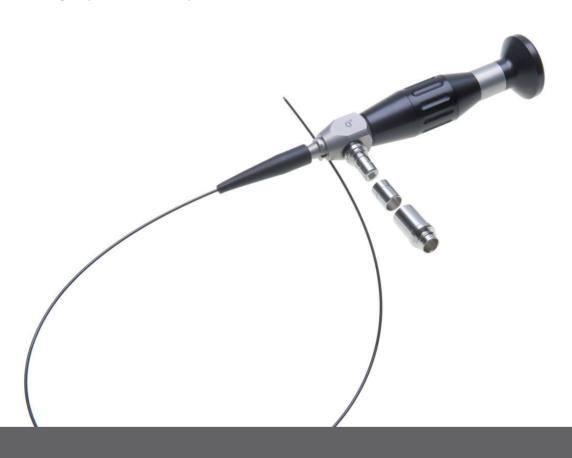
Probe Ø 6	.0mm			
Lenght	Articulation	DoV	FoV	Pixel
1.0m	2 way ±120° L/R	0°/90°	60°	12000
1.5m	2 way ±120° L/R	0°/90°	60°	12000
2.0m	2 way ±120° L/R	0°/90°	60°	12000
2.7m	2 way ±120° L/R	0°/90°	60°	12000
1.0m	4-way ±100° L/R - 160° UP - 130° DW	0°/90°	60°	12000
1.5m	4-way ±100° L/R - 160° UP - 130° DW	0°/90°	60°	12000
2.0m	4-way ±100° L/R - 160° UP - 130° DW	0°/90°	60°	12000
2.7m	4-way ±100° L/R - 160° UP - 130° DW	0°/90°	60°	12000
Probe Ø 8	.0mm			
Lenght	Articulation	DoV	FoV	Pixel
1.0m	4-way ±100° L/R - 160° UP - 130° DW	0°/90°	60°	16000
1.5m	4-way ±100° L/R - 160° UP - 130° DW	0°/90°	60°	16000
2.0m	4-way ±100° L/R - 160° UP - 130° DW	0°/90°	60°	16000
2.7m	4-way ±100° L/R - 160° UP - 130° DW	0°/90°	60°	16000
Braid :	Multilayer tungsten			

microFLEX

Flexible Fibrescope

Elegant, high resolution, flexible
Variable working lenghts
Many different probe diameters
Special designs possible on request

Optical image guide made from highly flexible fibre glass Diameter 0.5mm - 1.8mm



Probe Ø	Working lenght	Bending Radius	DoV	FoV	Pixel	Braid
0.5mm	special designs up to 2000mm	min. 20mm	0°	70°	6000	PU
0.7mm	special designs up to 2000mm	min. 20mm	0°	70°	6000	PU
0.9mm	special designs up to 2000mm	min. 20mm	0°	70°	6000	PU
1.2mm	special designs up to 2000mm	min. 20mm	0°	70°	6000	PU
1.4mm	special designs up to 2000mm	min. 20mm	0°	70°	10000	PU
1.6mm	special designs up to 2000mm	min. 20mm	0°	70°	10000	PU
1.8mm	special designs up to 2000mm	min. 20mm	0°	70°	10000	PU

RIGID ENDOSCOPES

MULTI SWING PRISM

Robust, high precision optics Special rotation 370° Line of vision 7° to 133° Angle of vision 45° Variable working lenghts

Many different probe diameters

Special designs possible on request



Ø 6.0mm			
Lenght	DoV	FoV	rotatable
175mm	-7° to 133°	45°	370°
245mm	-7° to 133°	45°	370°
315mm	-7° to 133°	45°	370°
385mm	-7° to 133°	45°	370°
455mm	-7° to 133°	45°	370°
945mm	-7° to 133°	45°	370°
Ø 8.0mm			
115mm	-7° to 133°	45°	370°
185mm	-7° to 133°	45°	370°
255mm	-7° to 133°	45°	370°
325mm	-7° to 133°	45°	370°
395mm	-7° to 133°	45°	370°
465mm	-7° to 133°	45°	370°
605mm	-7° to 133°	45°	370°

Ø 9.0mm			
Lenght	DoV	FoV	rotatable
205mm	-7° to 133°	45°	370°
305mm	-7° to 133°	45°	370°
405mm	-7° to 133°	45°	370°
505mm	-7° to 133°	45°	370°
605mm	-7° tos 133°	45°	370°
705mm	-7° to 133°	45°	370°

INDUSTRIAL LINE

High precision, rigid, semi flexible Ideal for small cavities Durable design Variable Working lenghts

Many different probe diameters

Special designs possible on request



Standard			
Ø 2.7mm			
Lenght	DoV	FoV	Type
175mm	0°	80°	Starr
175mm	0°	80°	Semi
175mm	30°	80°	Starr
175mm	30°	80°	Semi
175mm	70°	80°	Starr
Ø 4,0mm			
Lenght	DoV	FoV	Type
175mm	0°	80°	Starr
175mm	0°	80°	Semi
175mm	30°	80°	Starr
175mm	30°	80°	Semi
175mm	45°	80°	Starr
175mm	70°	80°	Starr
302mm	0°	80°	Starr
302mm	0°	80°	Semi
302mm	30°	80°	Starr
302mm	30°	80°	Sami

With mirror	tube		
Ø 1.9mm			
Lenght	DoV	FoV	Mirror tube
up to 240mm	0°	45°	90°/2.7mm
Ø 6.0mm			
Lenght	DoV	FoV	Spiegelrohr
245mm	-7° to 133°	45°	370°
315mm	-7° to 133°	45°	370°
385mm	-7° to 133°	45°	370°
455mm	-7° to 133°	45°	370°
945mm	-7° to 133°	45°	370°
Ø 8.0mm			
Lenght	DoV	FoV	Mirror tube
115mm	-7° to 133°	45°	370°
185mm	-7° to 133°	45°	370°
255mm	-7° to 133°	45°	370°
325mm	-7° to 133°	45°	370°
395mm	-7° to 133°	45°	370°
465mm	-7° to 133	45°	370°
605mm	-7° to 133	45°	370°

With	mirror	tube
~ ~ ~		

Ø 9.0mm			
Lenght	DoV	FoV	Mirror tub
205mm	-7° to 133°	45°	370°
305mm	-7° to 133°	45°	370°
405mm	-7° to 133°	45°	370°
505mm	-7° to 133°	45°	370°
605mm	-7° to 133°	45°	370°
705mm	-7° to 133°	45°	370°

SERVICE **15** ✓

As soon as possible and not longer than 15 working days

In event of a service, you have only to do 2 things:

Your device is defective!

- Please send us the device.
 At the latest after 48 hours we will provide you with a detailed cost estimate for the lump sum repair price.
- 2. Please approve this cost estimate

 We will send you back the device free of charge after 15 working days at the latest .

You can still plan with your device despite the failure!



Special design possible

Ask for your special solution

You are looking for your special solution.

The possible areas of application for the industrial endoscopy and technical endoscopy are practically infinite.

We are certain that we already have the matching solution for your requirements or will be able to develop it.

IT Concepts is developer and manufacturer of:

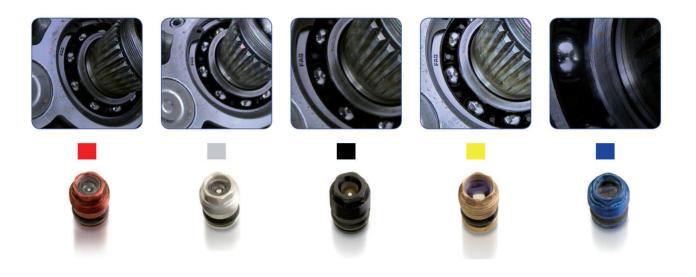
Cameras | Special Cameras | Video Electronic | Camera Components | Flexible Image Guides Fiber Optics and optical Components | Precision Mechanics

Describe your requirements to us!



Interchangeable Objectives

For different applications

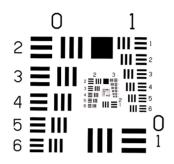


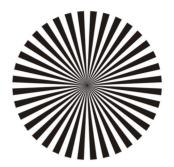
SMART-FOCUS Close focus and far focus with only one objective lens.

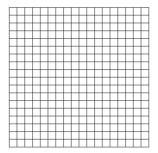


It's not necessary anymore to buy another objective lens, if a different focal length is needed. In comparison with fix focus lenses, SmartFocus lenses save not only the complicated lens changing process, they also save additional/hidden costs. SmartFocus lenses with different field of view (FOV), f-stops (f-stop) and depth of field (DOF) are available.

TEST-Chart









Equipment and Accessories

Batterie Belt | USB 2.0 Frame Grabber | Inspection Guides | Device Clamp | Lightsources Cameras | Camera Adapters | Power Supply | Lightguide Cable | Lightguide Adapters Neck Holder | Cases | Side View Tip Adapter | Objectives | Special Working Tools | Centerizer | ...

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