

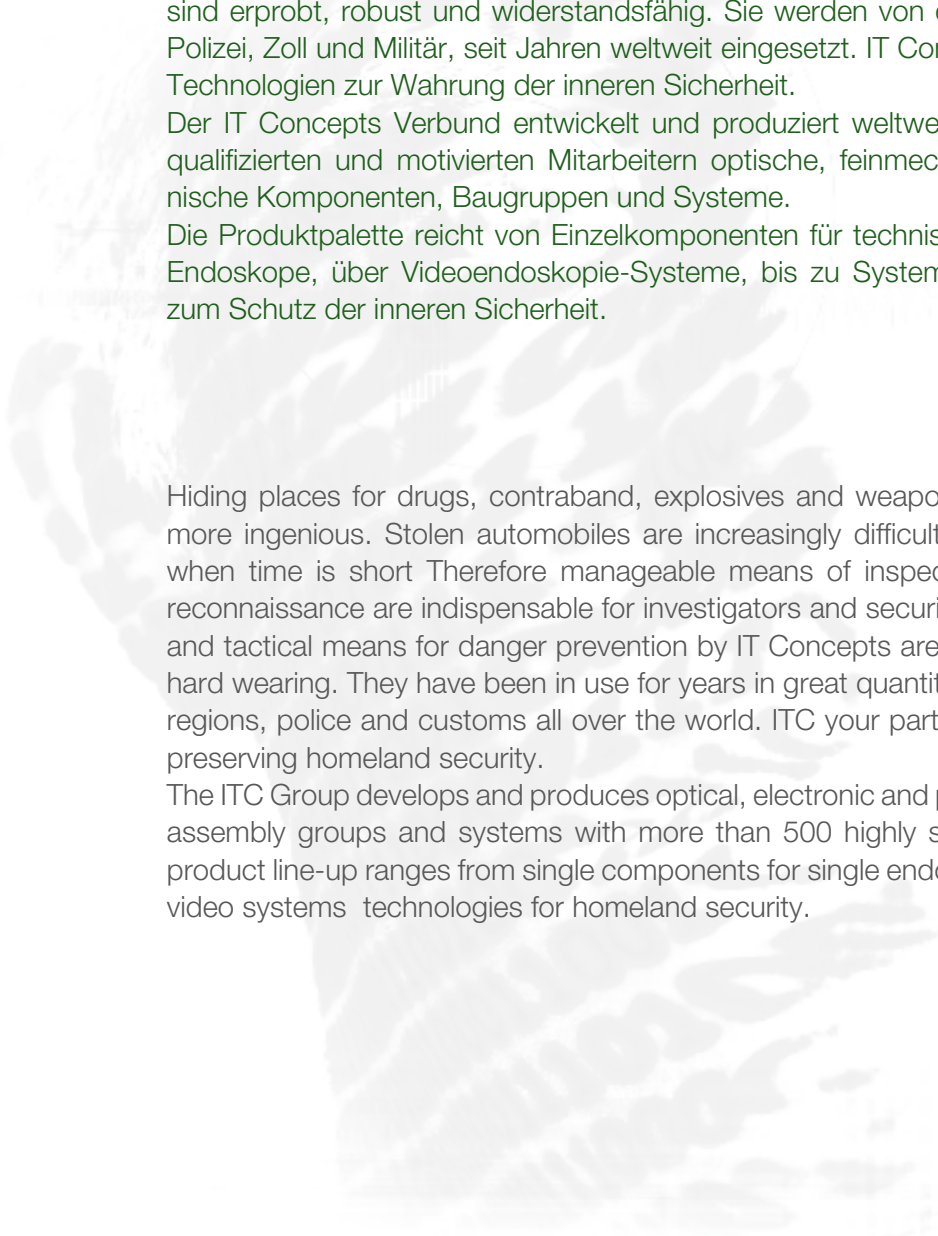
Innere Sicherheit

Visuelle Technologien für BOS und Sicherheitsdienste

Homeland Security

Visual Technologies for Security and Defense





Verstecke von Drogen, Schmuggelware, Sprengstoff oder Waffen werden immer raffinierter. Gestohlene Fahrzeuge sind immer schwieriger zu identifizieren, vor allem wenn die Zeit drängt. Für Fahnder und Zoll-Einsatzeinheiten, Eingreifkommandos und SEKs sind tragbare und handliche Aufklärungsmittel daher unverzichtbar.

Operative und taktische Aufklärungsmittel zur Gefahrenabwehr von IT Concepts sind erprobt, robust und widerstandsfähig. Sie werden von diversen Organen, wie Polizei, Zoll und Militär, seit Jahren weltweit eingesetzt. IT Concepts - Ihr Partner für Technologien zur Wahrung der inneren Sicherheit.

Der IT Concepts Verbund entwickelt und produziert weltweit mit über 500 hochqualifizierten und motivierten Mitarbeitern optische, feinmechanische und elektronische Komponenten, Baugruppen und Systeme.

Die Produktpalette reicht von Einzelkomponenten für technische und medizinische Endoskope, über Videoendoskopie-Systeme, bis zu Systemen und Technologien zum Schutz der inneren Sicherheit.

Hiding places for drugs, contraband, explosives and weapons become more and more ingenious. Stolen automobiles are increasingly difficult to identify, especially when time is short. Therefore manageable means of inspection, surveillance and reconnaissance are indispensable for investigators and security agencies. Operative and tactical means for danger prevention by IT Concepts are approved, sturdy and hard wearing. They have been in use for years in great quantities by military in crises regions, police and customs all over the world. ITC your partner in technologies for preserving homeland security.

The ITC Group develops and produces optical, electronic and precision components, assembly groups and systems with more than 500 highly skilled employees. The product line-up ranges from single components for single endoscopes and complete video systems technologies for homeland security.



- Entwickelt für die Sicherheitstechnik
 - Weiss Licht & Infrarot LED
 - Lichtempfindlicher S/W Sensor
 - Geräuschlose Sonden-Steuerung
 - 5" Display hochauflösend
 - Schwenkbarer Monitor
 - Brillante Bildqualität
 - Ergonomischer Handgriff
 - Helles und kontrastreiches Display
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- Made for security
 - Visible and Infrared LED
 - Light sensitive B&W sensor
 - Noiseless articulation control
 - 5" high-resolution display
 - Rotatable Monitor
 - Excellent image quality
 - Ergonomic handle
 - Bright and high-contrast display

Operating unit

Display size:	5.0" (12.7cm) TFT colour
Display resolution:	VGA (640x480 pixel)
Operating system:	Real-time operating system, with on-screen menu
User interface:	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 battery (charger and battery are provided in delivery set)
Power supply, secondary:	12V adapter (optional accessory)

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) (8GB provided in delivery)

Camera control

Image sensor:	Black & White Super-HAD CCD
Image type:	CCIR B/W (291.000 effective Pixel)
Sensitivity	0.005 Lux

Image control

Zoom:	16 step digital zoom
Invert:	Horizontal and vertical image inversion
Brightness:	Adjustable
Contrast:	Adjustable
Text annotation:	Built-in text overlay generator

Illumination

Interchangeable Light Source	White light or IR
Light Transmission	Fiberoptics

Probe

Diameter:	8.0mm
Working length:	1.5 - 3 m
Articulation (bending neck):	4-way / 360° control
Articulation feature:	noiseless and tactile
Articulation angle* L/R U/D:	100°/100° 160°/130°
Integrated objective lens:	90° FOV
DOF:	5 mm to infinity
Braid:	Multi-layer tungsten braid on PU jacket

Construction

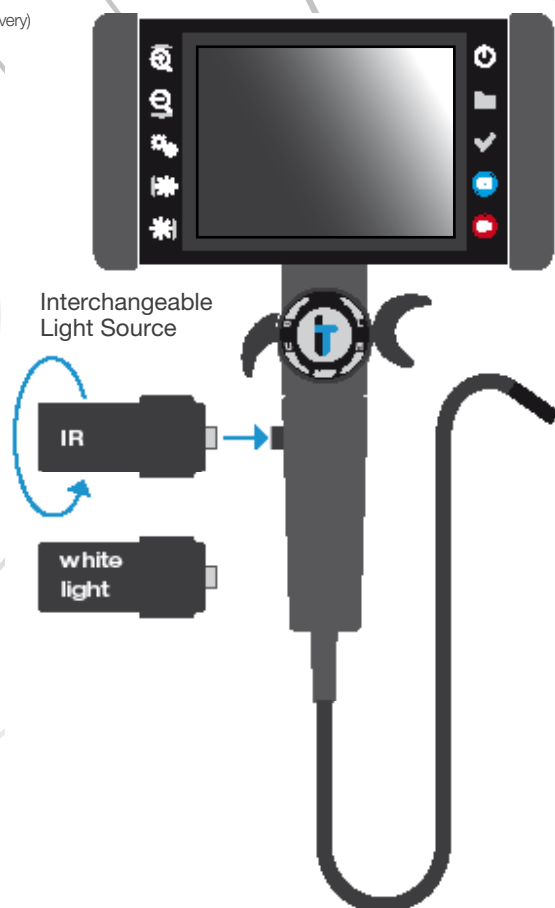
Ergonomics:	± 90° rotatable display unit, alt. ±90° rotatable scope handle
System weight:	1,35Kg
Dimensions:	180mm x 105mm x 45mm
Housing:	Rugged PU, with integrated rubber shock caps

Operating environment

Tip operating temperature:	-13°F to 284°F (-25°C to +140°C)
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% max. - non condensing
Carrying Case	550mm x 360mm x 240mm / 6,2kg

Manufacturer's Data

Country of Origin	Germany
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IR Under Door kit

SECURITY



- IR Türspalt-Kamera
- Chip on the tip Technologie
- Hochleistungs IR Beleuchtung
- Umschaltbare Blickrichtung

- Lichtempfindlicher S/W Sensor
- 5" Display hochauflösend
- Brillante Bildqualität
- Helles und kontrastreiches Display

- IR Under Door Camera
- Chip on the tip technology
- High Power IR Illumination
- Switchable DOV (forward/up)

- light sensitive B&W sensor
- 5" high-resolution display
- Excellent image quality
- Bright and high-contrast display

IR Under Door kit

SECURITY

Operating unit

Display size:	5.0" (12.7cm) TFT colour
Display resolution:	VGA (640x480 pixel)
Operating system:	Real-time operating system, with on-screen menu
User interface:	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 battery (charger and battery are provided in delivery set)
Power supply, secondary:	12V adapter (optional accessory)

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) (8GB is provided in delivery set)

Camera control

Image sensor:	1/4" Black & White Super-HAD CCD
Image type:	CCIR B/W (291.000 effective Pixel)
Sensitivity:	0.005 Lux
Special function:	automatic frame integration

Image control

Zoom:	x 3.5
Invert:	Horizontal and vertical image inversion
Brightness:	Adjustable
Contrast:	Adjustable
Text annotation:	Built-in text overlay generator

Illumination

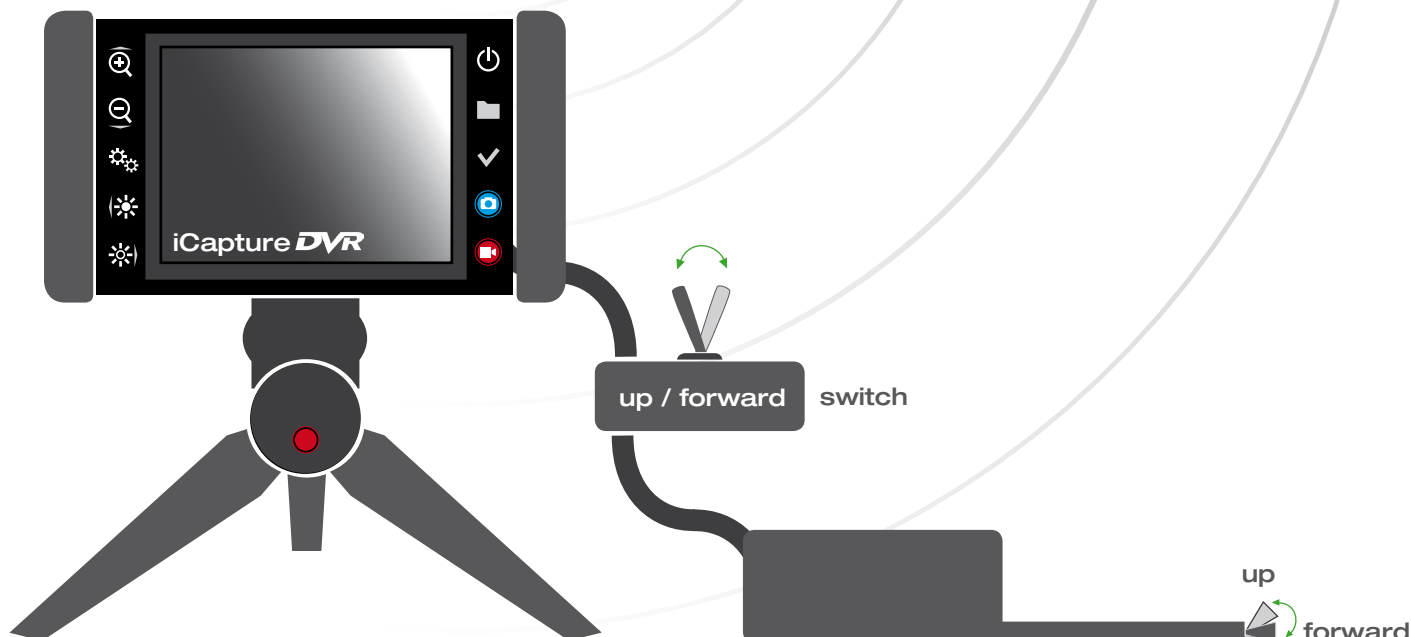
Interchangeable LED:	IR
Wavelength:	940nm
Power Dissipation:	630 mW forward 420 mW up

Under Door Blade

Height:	6.0 mm
Length:	134 mm
Weight:	390 g
Direction of view DOV:	15° 90°

Manufacturer's Data

Country of Origin	Germany
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Lightflex LED Fiberscope

SECURITY



- 6mm diameter probe
- Non-conductive polyurethane Tube or tungsten braid
- Gazoline and Fuel resistant
- Articulation 2 directions + / - 120 °
- Built-in Rechargeable Battery
- High power LED
- 4:00h working time
- Adjustable focus
- Carrying case included

The LED endoscope is designed specifically for law enforcement. This is the only fiberscope with incorporated battery and LED lighting directly into the handle. There are no cables to connect, making it the easiest and fastest endoscope to use. Up to 4 hours working time with the integral rechargeable battery or cigarette lighter adapter for use directly on the vehicle. The scope could be easily grounded and allows fast and safer inspection of tanks, doors, ventilation systems or other cavaties.

Technical Data

Probe

Diameter: 6mm
Articulation: 2-way
Length: 1,5 - 2,7m

DOV: 0°
FOV: 60°
Pixel: 12 000
Light Source: High power LED

iRis XT

The fuel tank inspection scope



- Zum Sichten von Schmuggelware
- Sonde: Benzin- und Ölbeständig
- Speziell geschirmte Videosonde
- Geräuschlose Sonden-Steuerung
- 5" Display, hochauflösend

- Contraband Search Scope
- Gazoline and Fuel resistant
- Special isolated videoprobe
- Noiseless articulation control
- 5" high-resolution display

- Schwenkbarer Monitor
- Brillante Bildqualität
- Ergonomischer Handgriff
- Helles und kontrastreiches Display

- Rotatable Monitor
- Excellent image quality
- Ergonomic handle
- Bright and high-contrast display

Operating unit

Display size:	5.0" (12.7cm) TFT colour
Display resolution:	VGA (640x480 pixel)
Operating system:	Real-time operating system, with on-screen menu
User interface:	Direct action keys / function keys / arrow keys
Languages:	English, German, Polish, French, Spanish, Italian, Turkish
Power supply, primary:	Rechargeable Li-ion battery (charger and battery are provided in delivery set)

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) (8GB is provided in delivery set)

Camera control

Image sensor:	Advanced chip on the tip image sensor
White balance:	Factory default or user defined

Image control

Zoom:	16 step digital zoom
Invert:	Horizontal and vertical image inversion
Brightness:	Adjustable
Contrast:	Adjustable
Colour:	Adjustable
Text annotation:	Built-in text overlay generator

Illumination

Type:	High-power LED with high transmission fiber optics
Illumination control:	3 steps
Colour temperature:	approx. 6500k
Average lamp lifetime:	approx. 5000h

Probe

Diameter:	6.0mm	8.0mm
Working length:	2m	1,5 - 3m
Articulation (bending neck):	2way	4-way / 360° control
Integrated objective lens:	90° FOV	90°FOV
Braid:	Multi-layer tungsten braid on PU jacket	

Operating environment

Tip operating temperature:	-13°F to 176°F (-25°C to +80°C)
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% max. - non condensing
Waterproof:	Probe and distal end up to 14.7 psi (1 bar- 10.2m H ₂ O)
Resistance:	Probe and distal end to oils and saline (5%)
Carrying Case	508mm x 373mm x 147mm / 4,5kg

Certification

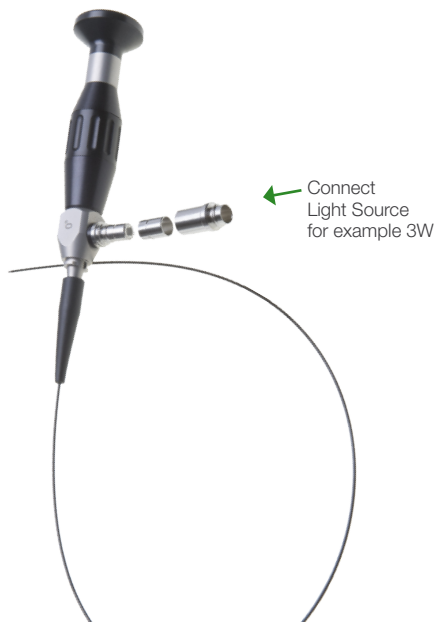
UL certified for use in Class I, Division 2 Hazardous Locations based on it complying with the UL standards and requirements and was determined to be nonincendive equipment.

*Nonincendive equipment is defined as "equipment having electrical/electronic circuitry that is not capable, under normal operating conditions, of causing ignition of a specified flammable gas-, vapor-, dust-air mixture fibers or flyings due to arcing or thermal means." See 3.21 of ISA 12.12.01:2013.

iRIS XT 2-6-200 (CSECO), IRIS XT 4-8-XX (pending)

Manufacturer's Data

Country of Origin	Germany
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microFlex Glasfaserendoskope enthalten einen optischen Bildleiter aus hochflexiblen, dünnen und parallelen einzelnen Glasfasern. Dadurch sind scharfe und hochauflösende Bilder mit hoher Farbtreue für professionelle Aufklärung gewährleistet. Ein fokussierbares Okular passt das optische System an die Sehschärfe des Betrachters an.

The microFlex contain an optical image guide made of highly flexible, thin and parallel single fibres. This assures sharp and high-resolution pictures with high colour fidelity for professional tactical search. A focusable ocular adjusts the optic system to the visual acuity of the viewer.

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

Durch die besonders biegsame Abwinklungseinheit im Bereich des Sondenkopfes lässt sich das iFlex Glasfaserendoskop sehr präzise steuern und maximal abwinkeln. Dies ist besonders bei Einsätzen von Vorteil, bei denen das Endoskop durch enge Radien geführt werden muss.

The extremely durable and pliable articulation section ensures that the iFlex Fiberscope is very precise in control and provides maximum articulation angle

Probe Ø	Length m (Articulation) DoV (FoV) Pixel (Braid)
2.4mm	0.4m (2-way) 0° (45°) 6000 (Tungsten)
	0.7m (2-way) 0° (45°) 6000 (Tungsten)
	1.0m (2-way) 0° (45°) 6000 (Tungsten)
	1.3m (2-way) 0° (45°) 6000 (Tungsten)
	1.3m (2-way) 0° (50°) 8000 (Tungsten)
3.5mm	0.7m (2-way) 0° (50°) 8000 (Tungsten)
	1.0m (2-way) 0° (50°) 8000 (Tungsten)
	1.3m (2-way) 0° (50°) 8000 (Tungsten)
	1.5m (2-way) 0° (50°) 8000 (Tungsten)
	1.0m (2-way) 0°/90° (50°) 11500 (Tungsten)
4.0mm	1.3m (2-way) 0°/90° (50°) 11500 (Tungsten)
	1.5m (2-way) 0°/90° (50°) 11500 (Tungsten)
	2.0m (2-way) 0°/90° (50°) 11500 (Tungsten)
	1.0m (2-way) 0°/90° (60°) 12000 (Tungsten)
	1.5m (2-way) 0°/90° (60°) 12000 (Tungsten)
6.0mm	2.0m (2-way) 0°/90° (60°) 12000 (Tungsten)
	2.7m (2-way) 0°/90° (60°) 12000 (Tungsten)
	1.0m (4-way) 0°/90° (60°) 12000 (Tungsten)
	1.5m (4-way) 0°/90° (60°) 12000 (Tungsten)
	2.0m (4-way) 0°/90° (60°) 12000 (Tungsten)
8.0mm	2.7m (4-way) 0°/90° (60°) 12000 (Tungsten)
	1.0m (4-way) 0°/90° (60°) 16000 (Tungsten)
	1.5m (4-way) 0°/90° (60°) 16000 (Tungsten)
	2.0m (4-way) 0°/90° (60°) 16000 (Tungsten)
	2.7m (4-way) 0°/90° (60°) 16000 (Tungsten)



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