

Technical Specifications

iRis	INTELLIGENT REMOTE INSPECTION SYSTEM	
Input voltage	12V DC / 20W	
Power consumption	1.0 A	
Power supply		
Mains operation 110 - 240V / 50 - 60Hz	infinite operating time	
Accumulator	2 hours of operating time (with LED on brightest level)	
Dimensions		
iRis - width x height x depth	170mm x 380mm x 100mm	
iRis - weight	1.5kg incl. accumulator	
iCase - width x height x depth	550mm x 360mm x 225mm	
iCase - weight	8.5kg	
Total weight (incl. accessories)	11.0kg	
Construction		
Frame	Aluminium	
Housing	durable PU, rubberised shock proofed corners	
Display		
TFT Display	4.0"	
Resolution	640 x 480 Pixel (VGA)	
Operator guidance		
Intuitive On-Screen Menu	via control panel	
Navigation	via control panel (arrow keys & OK button)	
Camera setting	Automatic & Manual Mode	
Image inversion	horizontal & vertical	
Text generator	single-line, 13 characters	
Menu language	English	
Documentation		
Memory card	CompactFlash® Type 1, FAT (2GB)	
Video systems	NTSC / PAL	
Resolution / image format - TIFF	640 x 480 Pixel (VGA)	
Interfaces		
Card slot	CompactFlash® Type 1, FAT (2GB)	
Light source		
Lamp	LED	
Colour temperature	ca. 6500°K	
Intensity control	adjustable in 3 steps	
Average lamp durability	5000 Hours	
Videoscope		
Working length:	1.5m / 2.0m / 3.0m	
Articulation	4-way, up to 180°	
Diameter	6.0mm	
Interchangeable objective (included)	Red:  DOV 0° / FOV 90°	Silver:  DOV 0° / FOV 90° (hell)
Interchangeable objectives (optional)	Black:  DOV 0° / FOV 60°	Red:  DOV 0° / FOV 90°
		Black:  DOV 0° / FOV 60°
		Gold:  DOV 0° / FOV 60° (hell)
		Blue:  DOV 0° / FOV 28°
Side View Tip Adapter (optional)	close:  DOV 90° / FOV 60°	universal:  DOV 90° / FOV 60°
	far:  DOV 90° / FOV 60°	
Operation environment		
Temperature	Handle/TFT device	-25°C / +45°C
	Probe	80°C max.
Atmospheric Pressure	Handle/TFT device	1.3 at - splash proofed
	Probe	1.0 at - liquid-tight
Relative humidity	0% - 95% non-condensing	
Storage environment		
Temperature	-20°C / +45°C	
Relative humidity	30% - 75% non-condensing	



C o n t a c t

IT Concepts GmbH
Gewerbestr. 17
D - 3 5 6 3 3 L a h n a u

Tel.: +49 (0) 6441 679299 - 0
Fax : +49 (0) 6441 679299 - 99

[www.itcworld.de]
info@itcworld.de



ITC_CAT_iRis_EN_220409_v1



iRis

Intelligent Remote Inspection System

- Videoscope for the mobile use
- ready for use in no time
- very compact & portable
- sturdy & reliable
- 1.5kg lightweight
- real one-handed operation
- integrated high-power LED light source
- intuitive use
- intelligent camera control



iRis - INTELLIGENT REMOTE INSPECTION SYSTEM

Extremely compact dimensions, minimal weight and optimal handling are the outstanding attributes of the iRis Videoscope System by IT Concepts. Inspections in remote or inaccessible areas of the harsh industrial environments now are feasible in no time and with an undreamed easiness. Only little efforts and iRis is ready for use within seconds. You can move the distal end to any desired position fast, easy and precisely, thanks to the approved tactile 4-way articulation of up to 180°.

Adjustable and interchangeable objectives with different fields of view, f-stops and working distances as well as the high brightness of the LED light source guarantee, that you don't miss any detail on the 4.0" high resolution TFT display. The integrated, changeable and rechargeable high power batteries assure 2 hours of operating time. The balanced handle - designed for real one-handed operation - allows long and effortless working. With diameters of 6.0mm or 8.0mm and lengths from 1.5m to 3.0m the iRis leaves nothing to be desired.



Applications from A to Z

- | | | | |
|------------------------|----------------------|--------------------|----------|
| Astronautics | Building engineering | Power engineering | Security |
| Automotive engineering | Customs | Power plants | ... |
| Aviation | Police | Process technology | |

Videoscope with 4-way articulation: precise, sturdy and reliable. The videoscope applied in the iRis descends from the approved iSeries videoscope family. The ergonomic handle of the iRis allows precise mechanical steering with short adjustment travel and sensitive setting to zero-point. Controlling in four directions up to 180° is carried out via two tactile and mechanical levers.



Permanently deceleration of the controller cables is an important advantage of the mechanical control. As the endoscope needs no locking device, it can hardly be damaged while being removed of the inspected object. Furthermore the articulation system immediately reacts to force effects by driving back the levers on its own. That is effectively reducing down-times and avoids unnecessary costs for repair.

The large range of interchangeable objectives is making the iRis flexible. Being adjustable is a very specific feature of all interchangeable objectives. Using the lens tool changes a close focus objective into a far focus objective or in reverse in the twinkling of an eye. That way the high resolution image sensor can deliver optimal sharp pictures, high colour fidelity and depth of field with only one objective at any time.



LED lightning technology: bright, economical and innovative. The LED light source is characterized by bright white light, 5000 hours of operating time and little power consumption. By pushing one button the LED can be adjusted in three steps and optimum illumination of the inspection objects is reached. The heat which may occur during operation is dissipated by a heat sink to prevent the housing from growing warm. In addition the LED is absolutely non-destructive and safely integrated in the handle of the iRis.

Imaging Hub with 4.0" TFT Display: high-contrast, true to detail and easy to operate.

With the push of a button the iRis is ready for use. A second push and your picture is saved. Thanks to the easy on-screen menu navigation only one further push of a button is required to view the pictures saved. Direct action keys for all further operation modes allow high ease of use and simple learnability of all procedures. The bright 4.0" TFT Display with backlight is perfectly visible even with light incident or a high viewing angle. The battery compartment on the backside is accessible without special tools, so the accumulator can be changed within seconds to gain another two hours of operating time.



Carrying case: easy, quick and secure.

The compact and lightweight inspection case is the sturdy and shock proofed solution for transport and mobile operations. Never before has Remote Visual Inspection been easier and quicker:

1. Open case
2. Take out the iRis with one movement
3. Switch on the iRis
4. Start inspection

As fast as the iRis is removed it is restored in the case, which you can even take with you as hand luggage on flights.



Made in Germany

reliable

mobile

LED

portable

intelligent

Li-Ion