INSPIRA EPK-i8020c

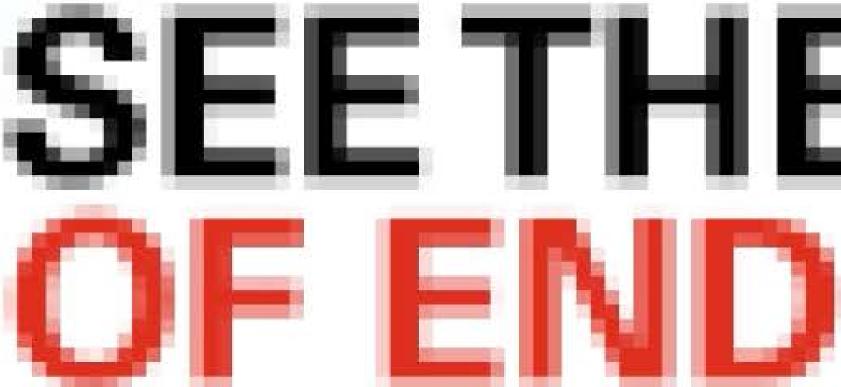
Light version of INSPIRA EPK-i8020c

i20c endoscopes

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At a glance





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INSPIRA EPK-i8020c

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Home See the future of endoscopy

INSPIRA[™] EPK-i8020c video processor



At a glance



i20c video endoscope series





INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

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SEFTHE FUTURE THROUGH EVERY ENDOSCOPE GENERATION

INSPIRA

PENTAX Medical INSPIRA[™] Video Processor

The bridge for legacy endoscopes to next level image quality. The gateway to tomorrow's cutting-edge technology in diagnosis and therapy.







INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

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INSPIRA EPK-i8020c This is what the future looks like





Individual **user profiles** customizable via touchscreen

1

Full detail visualization with up to **4K image** resolution

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Inspired by #PENTAXMedicalTripleAim









INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

i20c endoscopes

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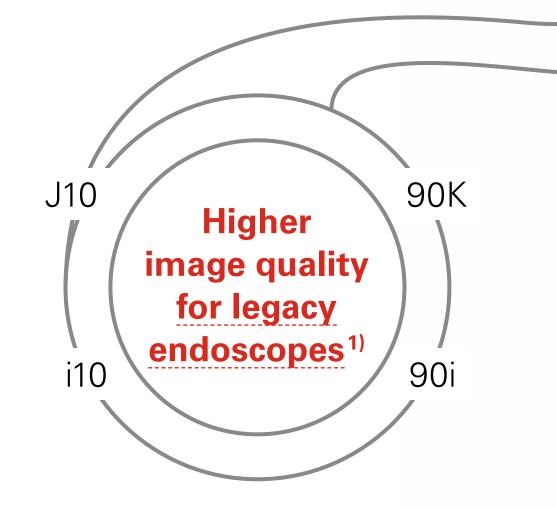
References

At a glance

INSPIRA EPK-i8020c This is what the future looks like

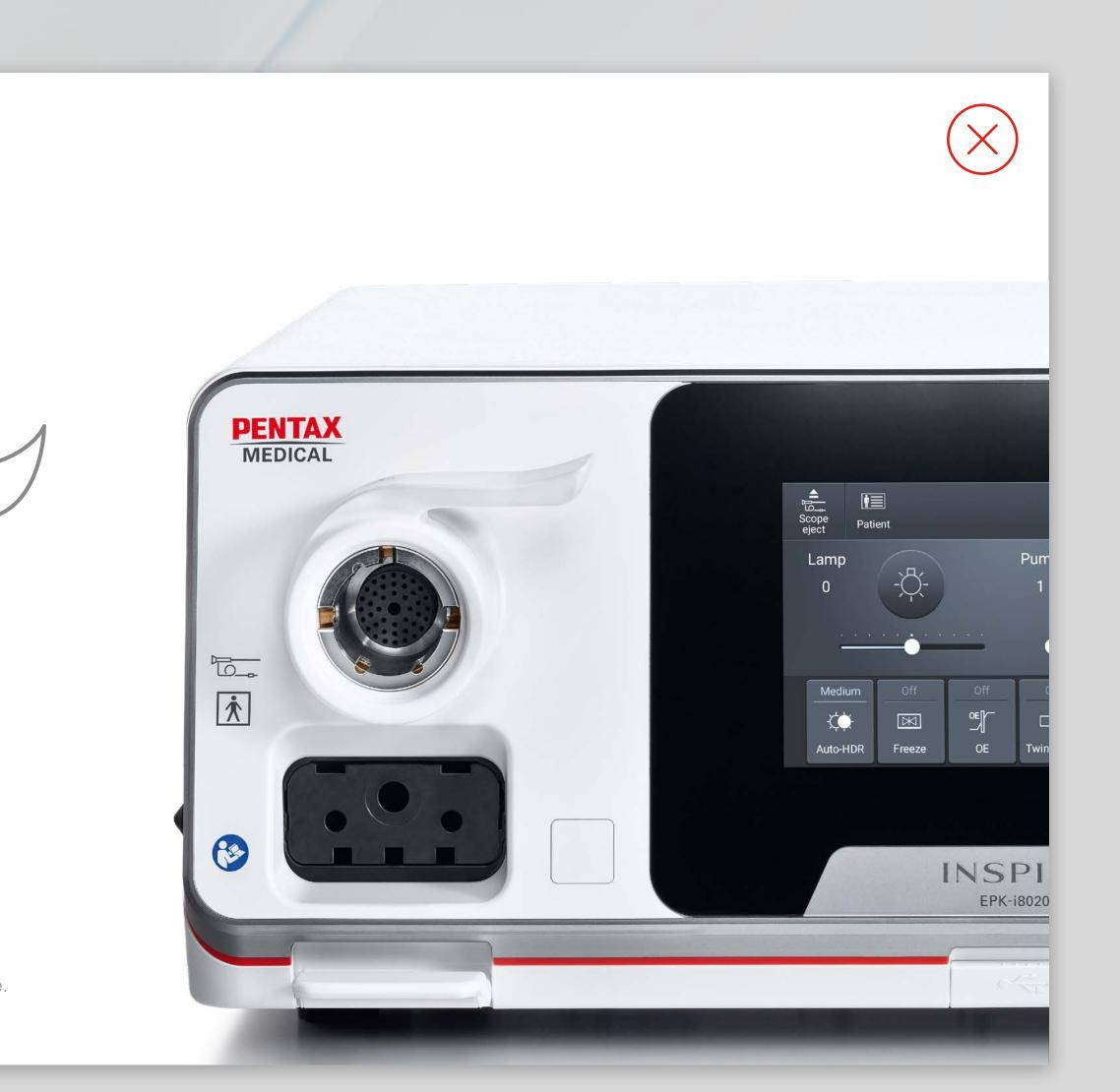
Connecting generations of endoscopes to INSPIRA

Extend your endoscope portfolio's life span and protect your investments.



1) Compatible video endoscopes: 90K, 90i, J10, and i10 series; Not all models are compatible. For details, contact your local PENTAX Medical service facility.







INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

i20c endoscopes

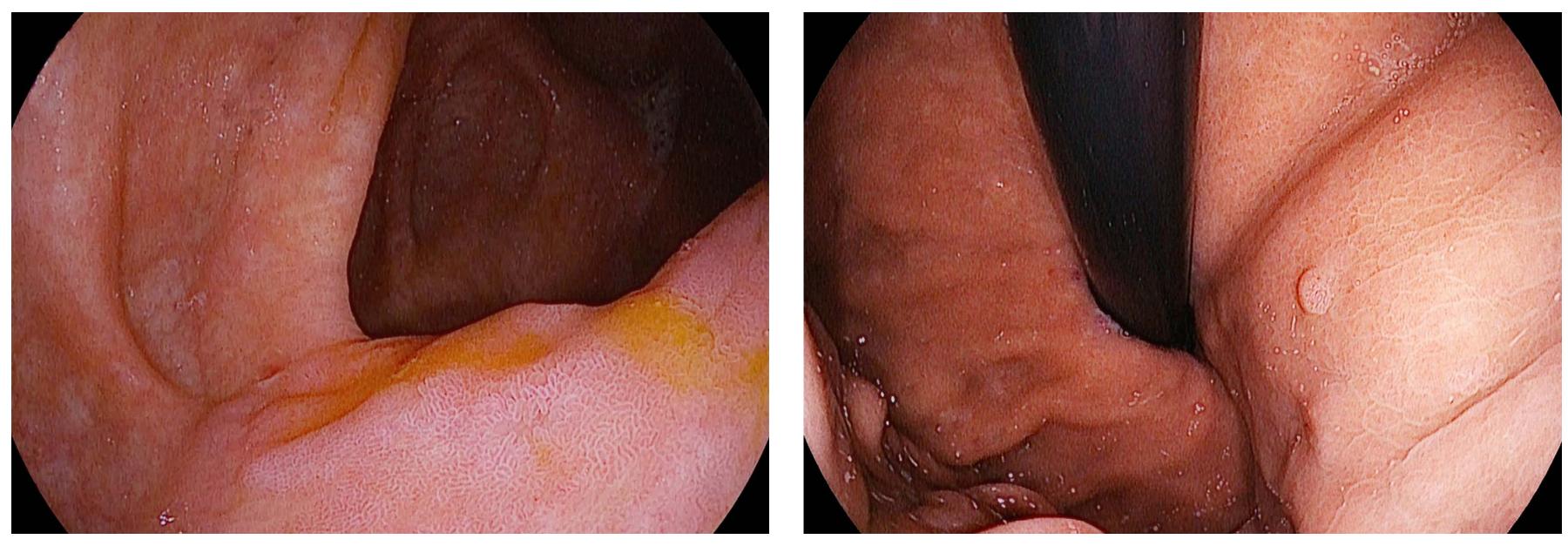
Technical specifications

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At a glance

INSPIRA EPK-i8020c This is what the future looks like

Boosting diagnostic and therapeutic capabilities in i10 and 90i series endoscopes



EC38-i10F2 colonoscope with INSPIRA

Images courtesy by Prof Timo Rath, University of Erlangen, Nuremberg, Germany





EG-2990i gastroscope with INSPIRA



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

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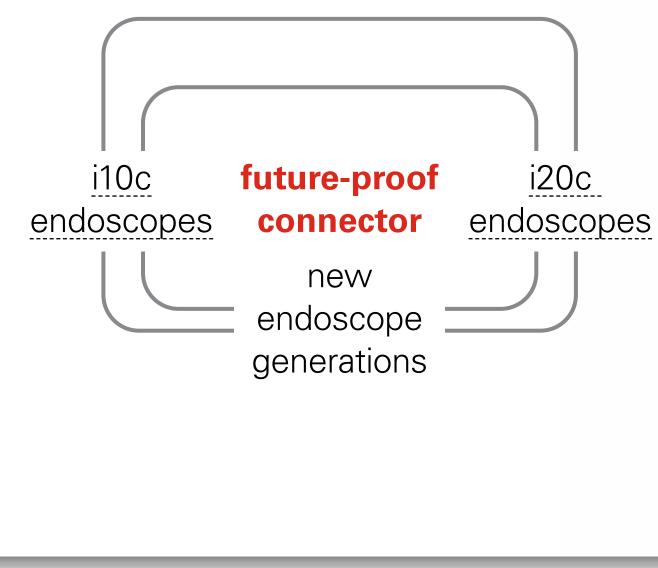
References

At a glance

INSPIRA EPK-i8020c This is what the future looks like

The gateway to the future of endoscopes

INSPIRA establishes a future-proof platform for the latest as well as coming endoscope generations.









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Light version of INSPIRA EPK-i8020c

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INSPIRA EPK-i8020c This is what the future looks like

Providing state-of-the-art imaging quality in i10c series endoscopes



EC38-i10cF2 colonoscope with INSPIRA

Images courtesy by Prof Timo Rath, University of Erlangen, Nuremberg, Germany







EG29-i10c gastroscope with INSPIRA



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At a glance

INSPIRA EPK-i8020c This is what the future looks like

Touchscreen with customizable menu for individual user profiles





- All functions for your daily procedures are easily accessible via 7" **touchscreen**.
- You can **customize the screen**, defining buttons for most used features.
- Save your personal settings in one of the individual user profiles.
- Intuitive to use processor thanks to **smartphone like** touchscreen.
- Programmable "End exam" button to simplify end of procedure (transfer data, switch off pump, etc.)



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

i20c endoscopes

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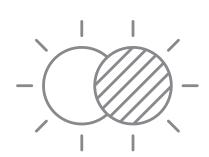
At a glance

INSPIRA EPK-i8020c This is what the future looks like

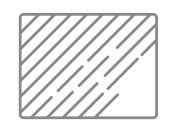
Full detail visualization



Benefit from richly detailed imaging with **resolutions up to 4K**



See true colors and high contrasts for better decisions with Auto HDR¹⁾



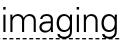
State-of-the-art digital enhancement with i-scan

LED

5 LED lightsource for improved exam results

Image courtesy by Prof Timo Rath, University of Erlangen, Nuremberg, Germany 1) Auto-HDR available with i20c series video endoscopes, only









EC-3890FZi MagniView colonoscope with high magnification



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

i20c endoscopes

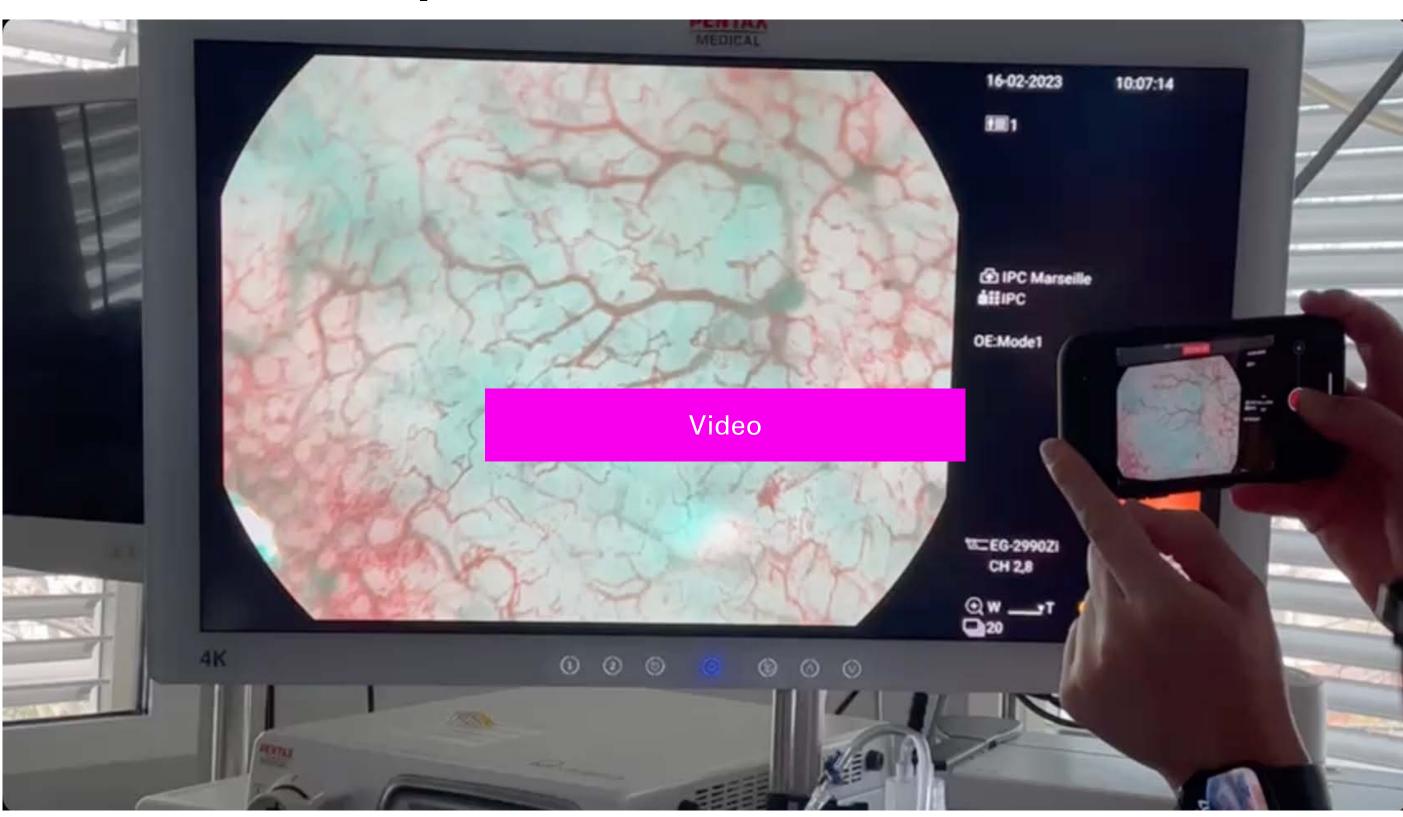
Technical specifications

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At a glance

INSPIRA EPK-i8020c This is what the future looks like

Benefit from richly detailed imaging with resolutions up to 4K





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EG-2990Zi MagniView gastroscope with high magnification

Video courtesy by Dr Marc Giovannini, Institut Paoli-Calmettes, France



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

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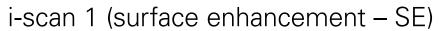
At a glance

INSPIRA EPK-i8020c This is what the future looks like

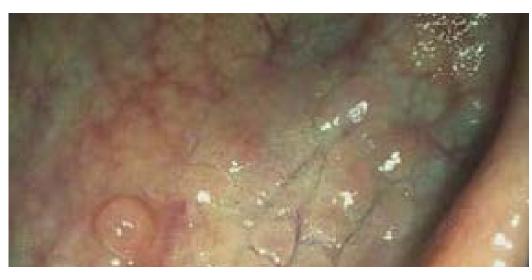
State-of-the-art image enhancement technology on board

The well renowned i-scan technology provides you with clearly distinguishable images of tissue and vessels.





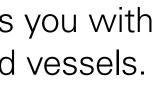




i-scan 2 (tone enhancement – TE)







i-scan 2 (tone enhancement – TE)

i-scan 3 (optical enhancement – OE) Mode 1





i20c endoscope with white light and i-scan OE Mode 1



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

i20c endoscopes

Technical specifications

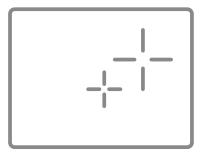
References

At a glance

INSPIRA EPK-i8020c This is what the future looks like

5 LED lightsource for improved exam results

The newly developed 5 LED supports you in diagnosis and management:



See realistic images with improved tissue and vessel assessment.

Reduce maintenance costs, as the service life of the LED is longer compared to common Xenon lamps.

Video courtesy by Prof Timo Rath, University of Erlangen, Nuremberg, Germany









EC38-i10 series colonoscope with INSPIRA



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

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INSPIRA EPK-i8020c This is what the future looks like

PENTAX Medical Triple Aim

PENTAX Medical INSPIRA[™] video processor is designed to boost diagnostic and therapeutic capabilities by providing optimum image quality for all PENTAX **Medical endoscopes**¹⁾. It paves the way for innovative technologies to improve clinical outcomes.

PENTAX Medical INSPIRA[™] video processor combines cutting-edge functionalities in **one plug-and-play** solution with intuitive usability. The customizable graphical user interface helps to focus on what is really important: the patient.

1) 90i, i10, J10, 90K, i10c and i20c series endoscopes 2) 90i, i10, J10, 90K and i10c series endoscopes Not all models are compatible. For details, contact your local PENTAX Medical service facility.





PENTAX Medical INSPIRA[™] video processor upgrades your legacy endoscope portfolio²⁾ to the latest imaging standards,

extending the life cycle of each endoscope for

greater sustainability. The system provides a future-proof platform for next generation medical solutions.



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

i20c endoscopes

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INSPIRA EPK-i8020c This is what the future looks like

INSPIRA helps you improve sustainability

PENTAX Medical aims to continuously improve the level of sustainability. The INSPIRA video processor allows you to continue using the endoscopes of today while upgrading their visualization performance. All this helps to improve sustainability by

- reducing waste volume,
- saving material resources,
- and avoiding energy consumption.







INSPIRA EPK-i8020c

> Light version of INSPIRA EPK-i8020c

i20c endoscopes

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At a glance

Light version of INSPIRA EPK-i8020c Start your INSPIRA journey, step by step

Light version of INSPIRA with upgradeable capabilities

- Sighter, clearer HD imaging, bridging today's endoscopes to **next level image quality**
- Solution Easier set-up and handling on customizable touchscreen
- Solution Future-proof gateway to coming endoscopes with dual port

A brilliant basis to access next gen medical solutions with maximum flexibility – upgradeable anytime.







* PENTAX Medical DICOM & 4K Upgrade Key OS-I23

INSPIRA

INSPIRA

with all software options unlocked

- ✓ Full detailed visualization with up to 4K image resolution
- Simplified patient data exchange through **DICOM** connection
- Srighter, clearer HD imaging, bridging today's endoscopes to **next level image quality**
- Solution Easier set-up and handling on customizable touchscreen
- Solution Future-proof gateway to coming endoscopes with dual port

Achieve excellence and be ready for coming innovations.

INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

Technical specifications

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At a glance

SE/ETHE FUTURE **GREATVISION** AND HANDLING

PENTAX Medical i20c video endoscope series

Supporting procedures with superior vision and ergonomics.







INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

Technical specifications

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At a glance

i20c video endoscope series The next generation of endoscopes

Lightweight **EasyOn** -ihm connector, one-handed operation, waterproof for easy reprocessing

TriDrive technology:

Adjustable stiffness (colonoscopes only) adds to well proven TrueTorque[™] and i-FLEX[™]

Easier control during procedures due to new ErgoFeel control body,



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(hu

steering wheels and valves



Stunning clarity and visibility with **highly** detailed images

Outstanding maneuverability and accessibility due to **210° tip angulation** (up) also in i20c colonoscopes



Inspired by #PENTAXMedicalTripleAim





INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

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At a glance

i20c video endoscope series The next generation of endoscopes

Lightweight EasyOn connector, one-handed operation, waterproof for easy reprocessing

The EasyOn connector design was optimized for fast, one-handed and fail-safe operation.

Characteristic plug shape for fail-safe connection

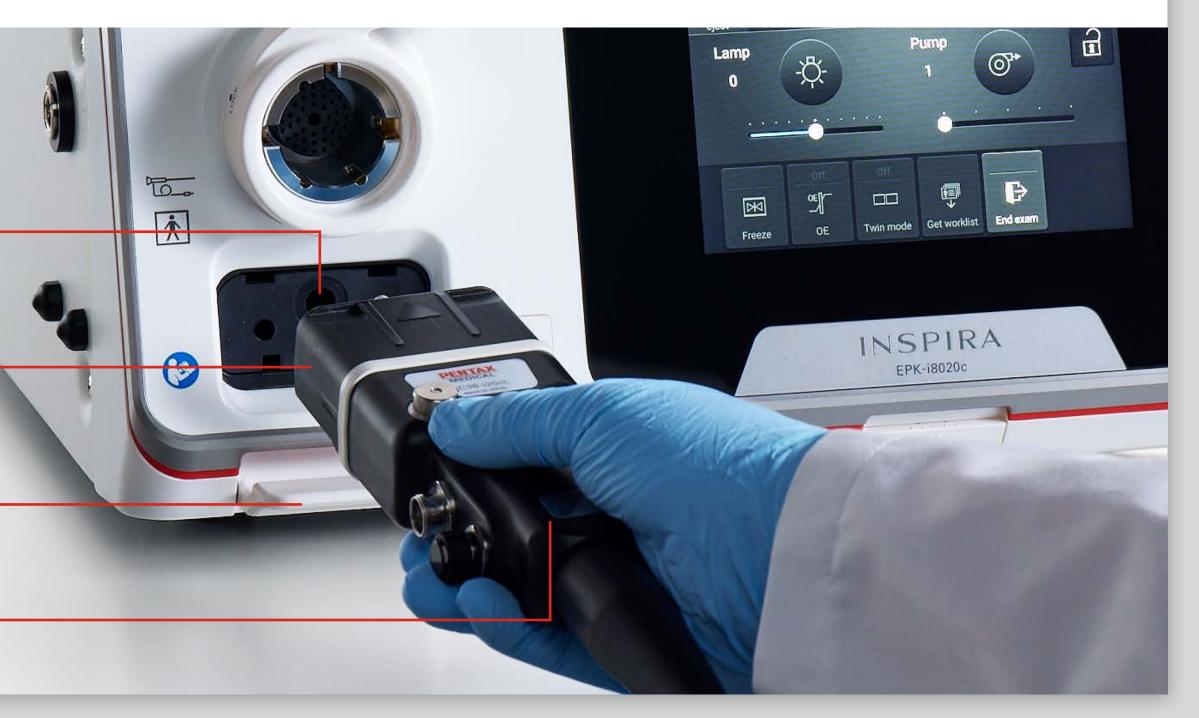
Waterproof connector for an efficient reprocessing with no need for soaking caps

Release button enables **single-handed** operation and unplugging

Weight and size reduced connector for an easier overall handling









INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

Technical specifications

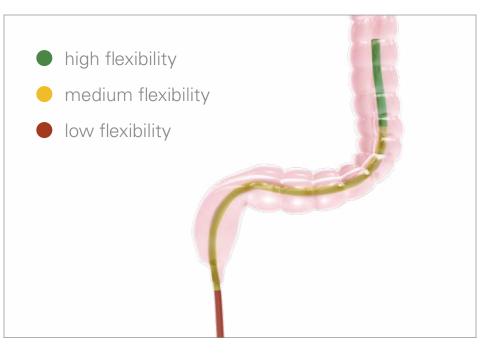
References

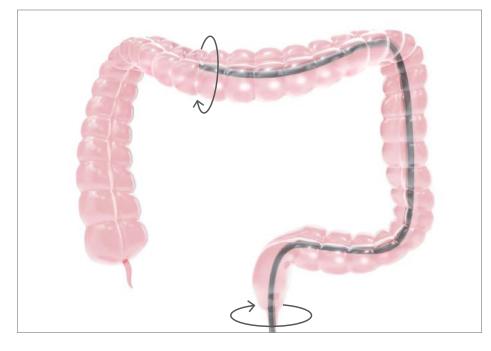
At a glance

i20c video endoscope series The next generation of endoscopes

Colonoscopes with TriDrive technology insertion tube: i-FLEX[™], TrueTorque[™] enhanced by adjustable stiffness

The i20c colonoscopes support efficient endoscope advancement, designed to reduce loopings, provide direct torque and an overall improved maneuverability.





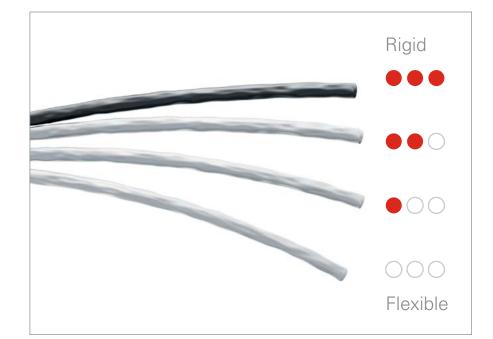
i-FLEX[™]

Graded endoscope flexibility to ease the maneuverability and help to reduce loopings

TrueTorque[™] Delivers a higher tactile feel with the endoscopes, supporting a predictable movement

Learn more about i-FLEX[™] and TrueTorque[™]





Adjustable stiffness

Rigidity of the insertion tube can be adjusted for individual patient's anatomy





INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

Technical specifications

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At a glance

i20c video endoscope series The next generation of endoscopes

ErgoFeel ergonomic control body: improved steering wheels, remote buttons and valves

Steering wheels for tip angulation reduced in size and lowered for easy access

Control body size optimized

for all hand dimensions aiming for stressless usage

> Improved air / water and suction valves for smooth operation





Optimized remote button positioning and activation for easier access and operations



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

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i20c video endoscope series The next generation of endoscopes

Steering wheels for tip angulation reduced in size and lowered for easy access









with wider diameter for easier access

Flatter U/D wheel

shape for improved access and operability





INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

Technical specifications

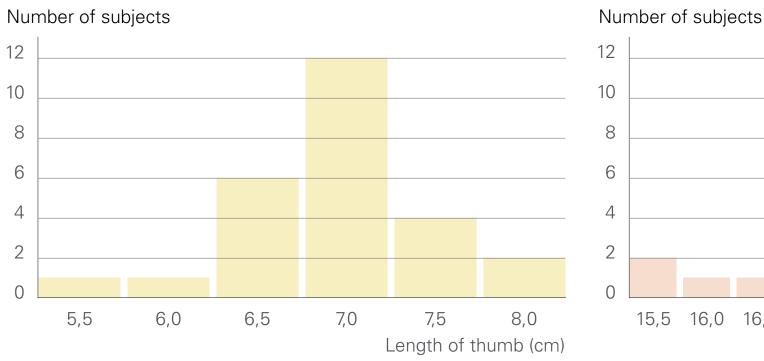
References

At a glance

i20c video endoscope series The next generation of endoscopes

Control body size optimized for all hand dimensions

In a user focused evaluation¹⁾, the **average hand and finger dimensions** were measured, to optimize the control body's fit:



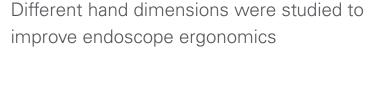
The results of this survey led to a redesign of the control body, allowing a most comfortable endoscope usage considering the spectrum of all handsizes, from large to small hands.

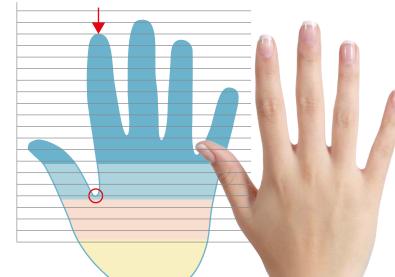
1) Evaluation was conducted 2019 with 42 probands, reflecting potential gender and geographical considerations.

15,5 16,0 16,5 17,0 17,5 18,0 18,5 19,0 19,5 20,0 Length of index finger (cm)

The OE-B17 R/L Knob adapter (optional) supports even easier R/L wheel operation.











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Light version of INSPIRA EPK-i8020c

> i20c endoscopes

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i20c video endoscope series The next generation of endoscopes

Optimized remote button positioning for an efficient triggering

Unique side-triggering

Remote buttons can be triggered also from the side, leading to an ergonomic usage.

Horizontal positioning

Buttons 3 and 4 are located in an optimized horizontal position for an easy access.







INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

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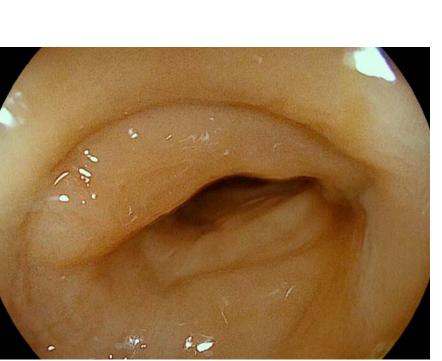
At a glance

i20c video endoscope series The next generation of endoscopes

Stunning clarity and visibility with highly detailed images



EG29-i20c



EC38-i20c

EG27-i20c (slim)

EC34-i20c (slim)

Images courtesy Prof Timo Rath, University of Erlangen, Nuremberg, Germany; Erasmus MC Rotterdam, The Netherlands; Croydon University Hospital, UK













INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

Technical specifications

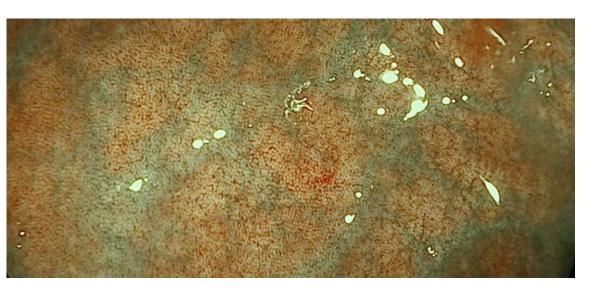
References

At a glance

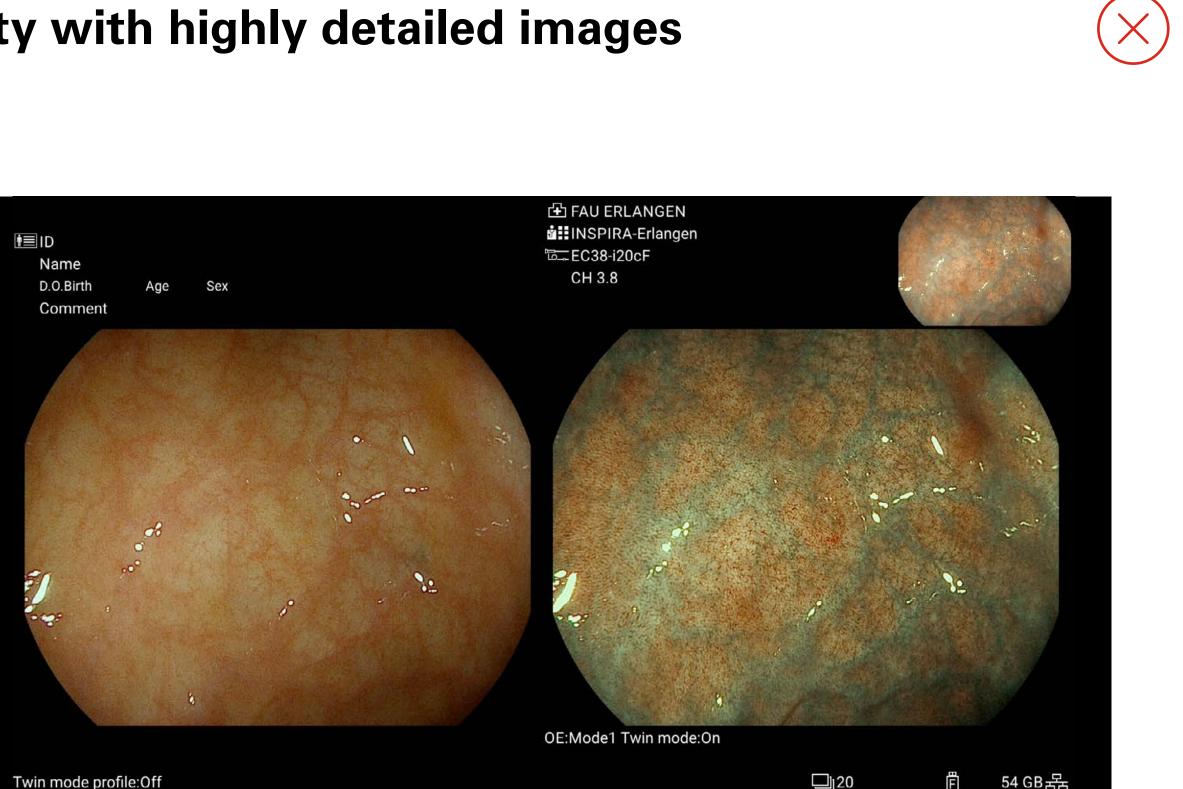
i20c video endoscope series The next generation of endoscopes

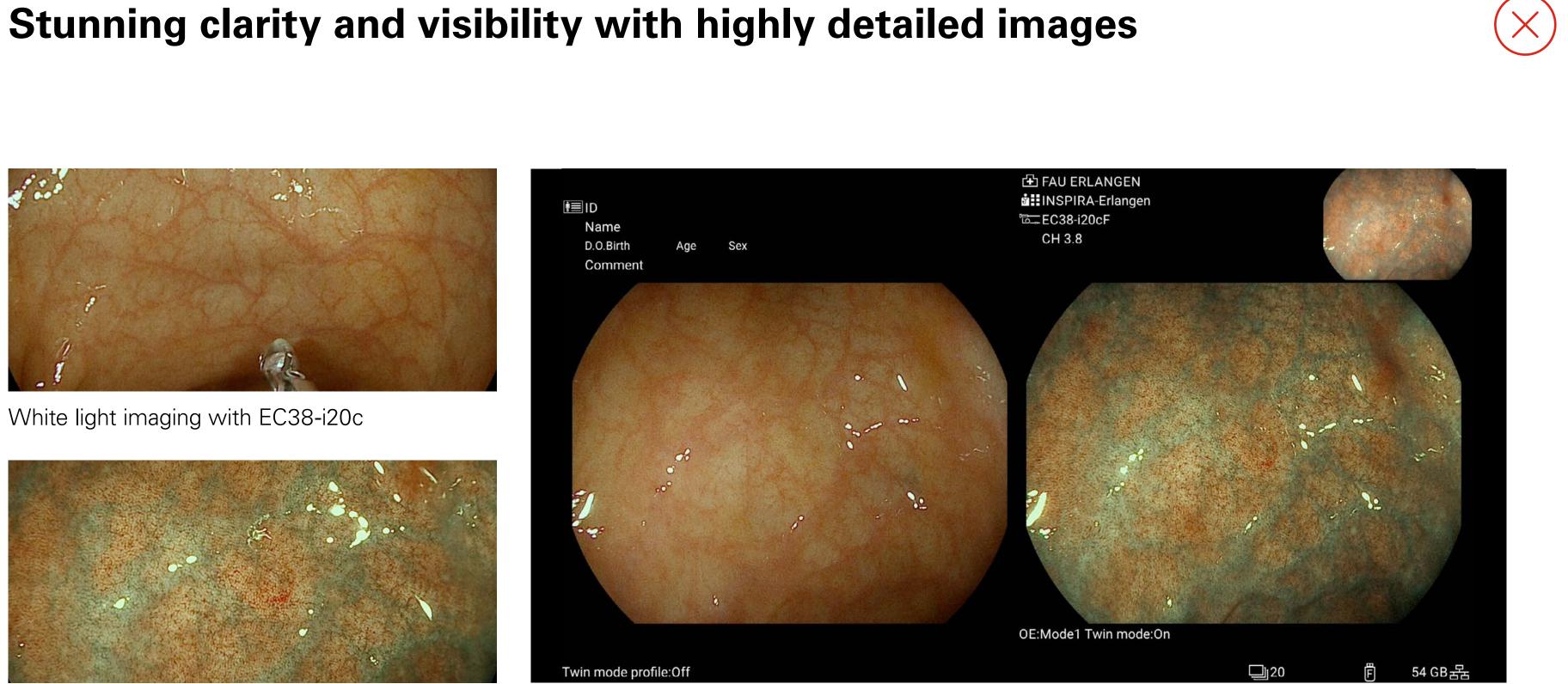


White light imaging with EC38-i20c



i-scan optical enhancement (OE) with EC38-i20c





Side-by-side visualization with TwinMode

Images courtesy by Prof Timo Rath, University of Erlangen, Nuremberg, Germany





INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

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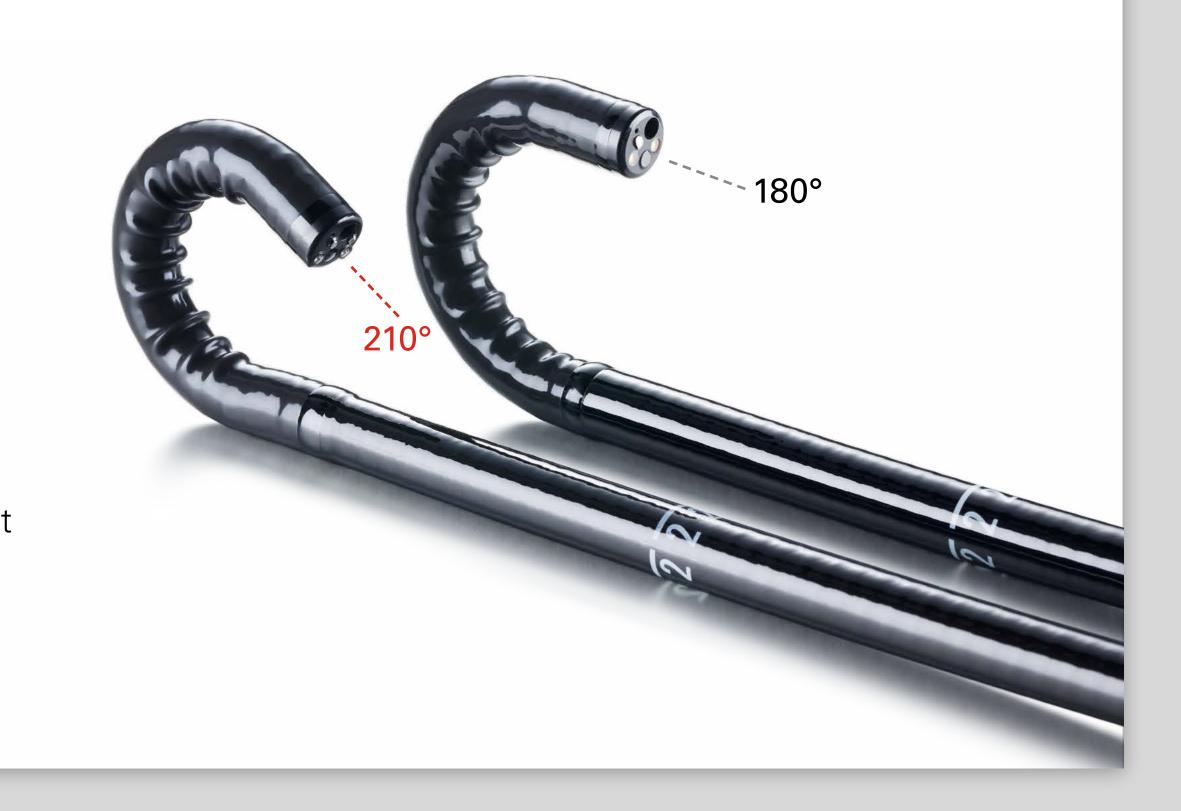
i20c video endoscope series The next generation of endoscopes

Outstanding positioning and accessibility due to 210° tip angulation (up) also in i20c colonoscopes

210° tip angulation in colonoscopes to enable detection and resection of even hard to reach lesions.

- Excellent maneuverability due to 210° deflection and minimised bending radius.
- Advanced therapy: Combining flexibility of the endoscope tip and stability of the endoscope body.
- Advanced orientation and detection due to deflection, up to 4K resolution and excellent 5 LED illumination in combination with i-scan.







INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

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At a glance

i20c video endoscope series The next generation of endoscopes

PENTAX Medical Triple Aim

i20c endoscopes aim to support healthcare professionals in detection, diagnosis and therapy better than ever. Physicians can instantly benefit from uncompromising vision and maneuverability.



The i20c endoscope generation has been designed with superior ergonomics for medical professionals who spend countless hours working with it. Its adjustable stiffness and the advanced imaging have the potential to **improve the** quality of procedures.



IMPROVE CLINICAL OUTCOMES MAXIMIZE VALUE EXPERIENCE AND SATISFACTION

The new, unique control body and lightweight connector of the i20c endoscopes are designed to optimize the workflow.



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

Technical specifications

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At a glance

i20c video endoscope series A range of high-end endoscopes

The range of highly advanced features endoscopes for upper and lower GI procedures, available in regular and extra slim diameters, for every anatomical situation.

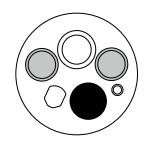
Gastroscopes

EG29-i20c

Distal end Ø 9.9mm Working channel Ø 3.2 mm

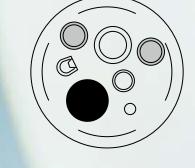






EG27-i20c (slim)

Distal end Ø 9.2 mm Working channel Ø 2.8mm



See specifications



See visualization





EC38-i20c

Distal end Ø 13.2 mm Working channel Ø 3.8 mm

EC34-i20c (slim)

Distal end Ø 11.5 mm Working channel Ø 3.2 mm

INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

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At a glance

i20c video endoscope series Supporting you in every step of the routine

2 3



1) 90i, i10, J10, 90K, i10c and i20c series endoscopes Not all models are compatible. For details, contact your local PENTAX Medical service facility.



Easy exam room preparation

- Easily connect your PENTAX Medical endoscopes¹⁾ to INSPIRA
- Quick setup thanks to the **EasyOn connector** on i10c and i20c endoscopes for single-handed operation
- Easy processor setup due to saved individual user profiles for each physician
- Quick direct patient data import from hospital information system via **DICOM** interface

INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

> i20c endoscopes

Technical specifications

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At a glance

i20c video endoscope series Supporting you in every step of the routine







Supported examination and treatment

- Clear visualization with up to **4K resolution** to support you for high-level clinical results
- i20c endoscopes with adjustable stiffness (colonoscopes), TrueTorque[™] and i-FLEX[™] provide exceptional maneuverability
- ErgoFeel control body lessens the strain during long procedures



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

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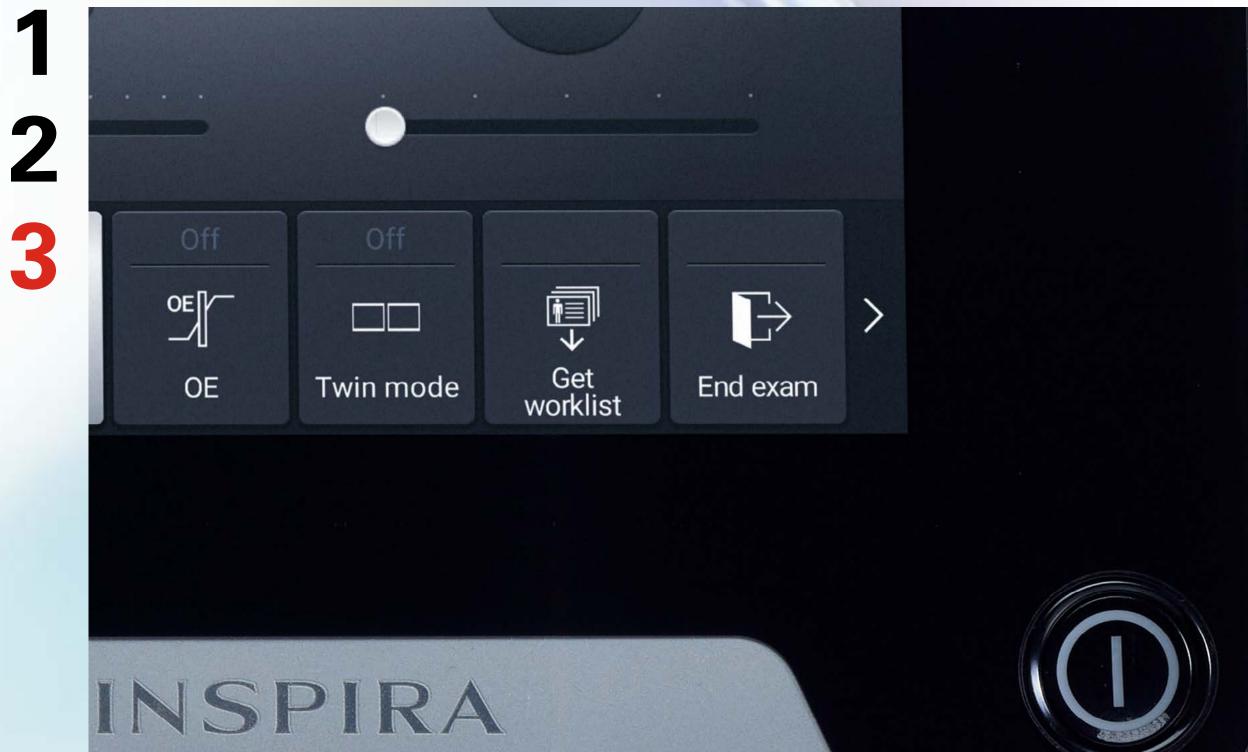
i20c endoscopes

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i20c video endoscope series Supporting you in every step of the routine





Efficient post procedure routines

- Simplified video and patient **data** transmission into patient files thanks to **DICOM interface**
- Easier reprocessing due to waterproof EasyOn connector on i20c endoscope series
- Programmable button for "End exam" routines, simplifying procedure closures by bundling f.e. data transfer, water pump shut-down, etc.

INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

i20c endoscopes

> Technical specifications

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Technical specifications INSPIRA Video Processor EPK-i8020c

PARAMETERS	VALUES		VIDEO SIGNAL	CONNECTOR	RESOLUTION	
Power supply	Voltage	100 – 240V ±10%	Digital output	DVI	1920×1080/60p(i)	
	Frequency	50/60Hz ±1 Hz		3G-SDI	1920×1080/60p	
	Rated Input	380 VA		HD-SDI	1920×1080/60i	
Dimensions ($W \times H \times D$)	400×205×520mm			12G-SDI	3840×2160/60p*	
Net weight	24 kg		Analogue	Y/C	NTSC/PAL format	
Illumination	5 LED lightsource		output			
User interface	7 inch customizable with individual profil		Digital input DVI		1920×1080/60p 1280×1024/60p 1024×768/60p	
Image enhancement	hage enhancement i-scan (Surface Enhancem Contrast Enhancement, To OE-Optical Enhancement Auto-HDR; D-Range expar		IMAGE RECORE		VALUES Yes (internal & external)	
Freeze scan	Yes		Video recording		Yes (internal & external)	
Twin Mode	Yes					
Picture in Picture	Yes		NETWORK COMPATIBILITY		VALUES	
Control signal	1 × RJ45 (LAN) 100BASE-TX/1000BASE-T/ 10Base-T 3 × Remote, 5 × USB 2.0		DICOM/PACS*		Yes* (Image Transfer & Worklist Management	
			Endoimage2 (OS-I3)		Yes	
Compatible	90K, 90i, J10, i10, i1		LANGUAGES			
video endoscopes	Not all models are compatible. For details, contact your local PENTAX Medical service facility.		English, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Latvian, Lithuanian, Macedonian, Norwegian, Polish, Portuguese, Romanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Turkish			





INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

i20c endoscopes

> Technical specifications

References

Technical specifications i20c Video Endoscopes

PARAMETERS	EG27-i20c (Slim)	EG29-i20c	EC34-i20c (Slim)	EC38-i20c
Direction of view	Forward	Forward	Forward	Forward
Field of view	140°	140°	170°	170°
Depth of field	2–100 mm	2–100 mm	2–100mm	2–100 mm
Tip angulation up-down	210°/120°	210°/120°	210°/180°	210°/180°
Tip angulation right-left	120°/120°	120°/120°	160°/160°	160°/160°
Distal end width	9.2 mm	9.9mm	11.5 mm	13.2 mm
Insertion tube width	9.2 mm	9.8mm	11.6 mm	12.8mm
Minimum working channel width	2.8mm	3.2 mm	3.2 mm	3.8mm
Insertion tube working length	1,050 mm	1,050 mm	1,300/1,500/1,700mm	1,300/1,500/1,700mm
Forward water jet	Yes	Yes	Yes	Yes
Adjustable stiffness	_	_	Yes	Yes
EasyOn connector	Yes	Yes	Yes	Yes
OE-B17 R/L Knob adaptor compatible	Yes	Yes	Yes	Yes
Compatible video processor	PENTAX Medical INSPIRA™ EPK-i8020c	PENTAX Medical INSPIRA™ EPK-i8020c	PENTAX Medical INSPIRA™ EPK-i8020c	PENTAX Medical INSPIRA™ EPK-i8020c

At a glance





INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

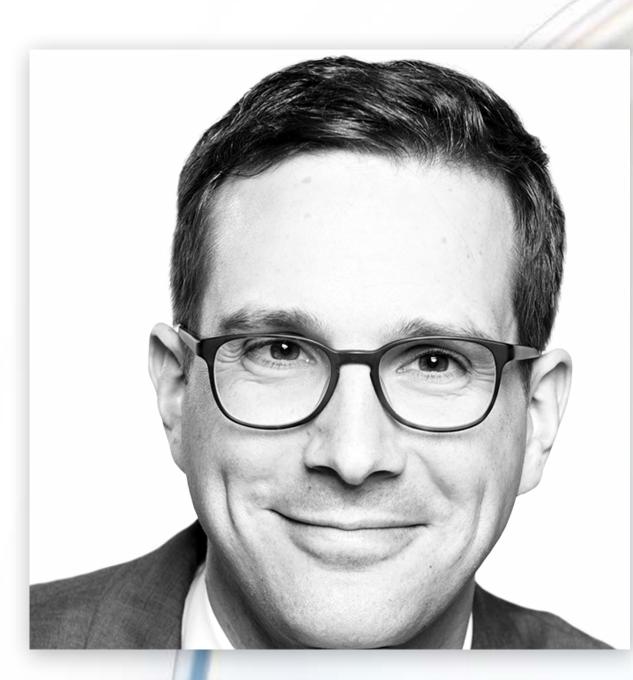
i20c endoscopes

Technical specifications

References

At a glance

References What Experts say about INSPIRA





"The new INSPIRA processor offers superb image quality in terms of contrast, saturation, illumination and also crystal-clear freeze function. And all that with the existing scope setup that we are used to."

Prof Dr Timo Rath, Professor of Endoscopy and Molecular Imaging, University of Erlangen, Nuremberg, Germany



INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

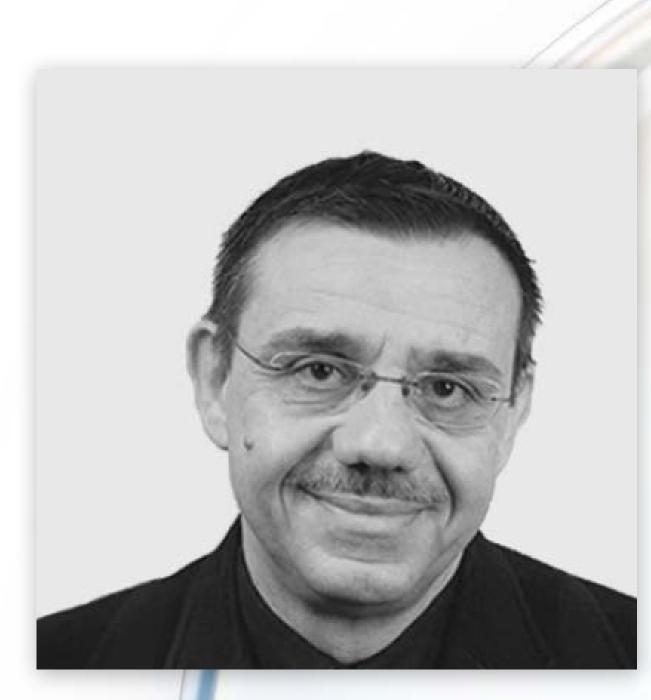
i20c endoscopes

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At a glance

References What Experts say about INSPIRA



"This new processor improves dramatically the quality of the endoscopic image, especially with the 4K screen."

Dr Marc Giovannini, Chief of the Dept of Medico-surgical Digestive Oncology, Institut Paoli-Calmettes, France.



About White Light Improvement

"In white light, the margins of digestive lesions, in particular colonic polyps and Barrett's esophagus, are better defined."

About i-scan OE Improvement

"The use of chromoendoscopy in OE1 mode makes it possible to better appreciate the vascularization of gastro-colic lesions and thus to better define the possibilities of endoscopic resection."

About Legacy Image Boost – MagniView

"The INSPIRA and gastroscope zoom connection allows an almost microscopic approach to the digestive wall. In conclusion, the INSPIRA processor qualitatively increases the performance of PENTAX Medical J10 series endoscopes."

INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

i20c endoscopes

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At a glance

At a glance **INSPIRA Video Processor and i20c Video Endoscopes**

INSPIRA



Brilliant image quality

the quality of the procedure.

7" touchscreen with smartphone like usability. The customizable user profiles support easy setup.



Smart functionalities such as "End exam" make handling more efficient and comfortable.

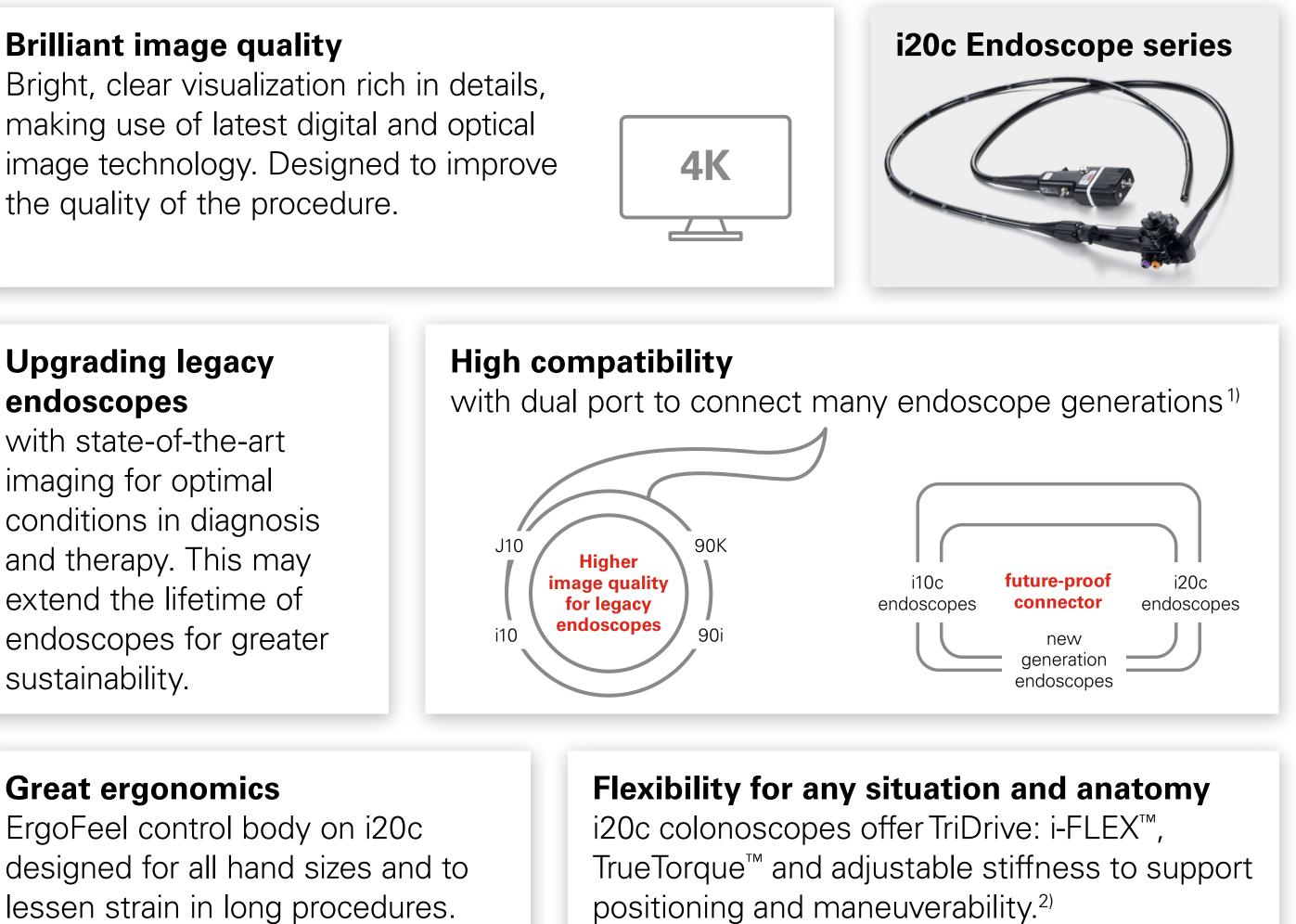
Upgrading legacy endoscopes

with state-of-the-art imaging for optimal conditions in diagnosis and therapy. This may extend the lifetime of endoscopes for greater sustainability.

Great ergonomics ErgoFeel control body on i20c lessen strain in long procedures.

1) 90i, i10, J10, 90K, i10c and i20c series endoscopes; Not all models are compatible. For details, contact your local PENTAX Medical service facility. 2) Colonoscopes with TriDrive insertion technology: i-FLEX[™], TrueTorque[™] and adjustable stiffness







INSPIRA EPK-i8020c

Light version of INSPIRA EPK-i8020c

i20c endocsopes

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