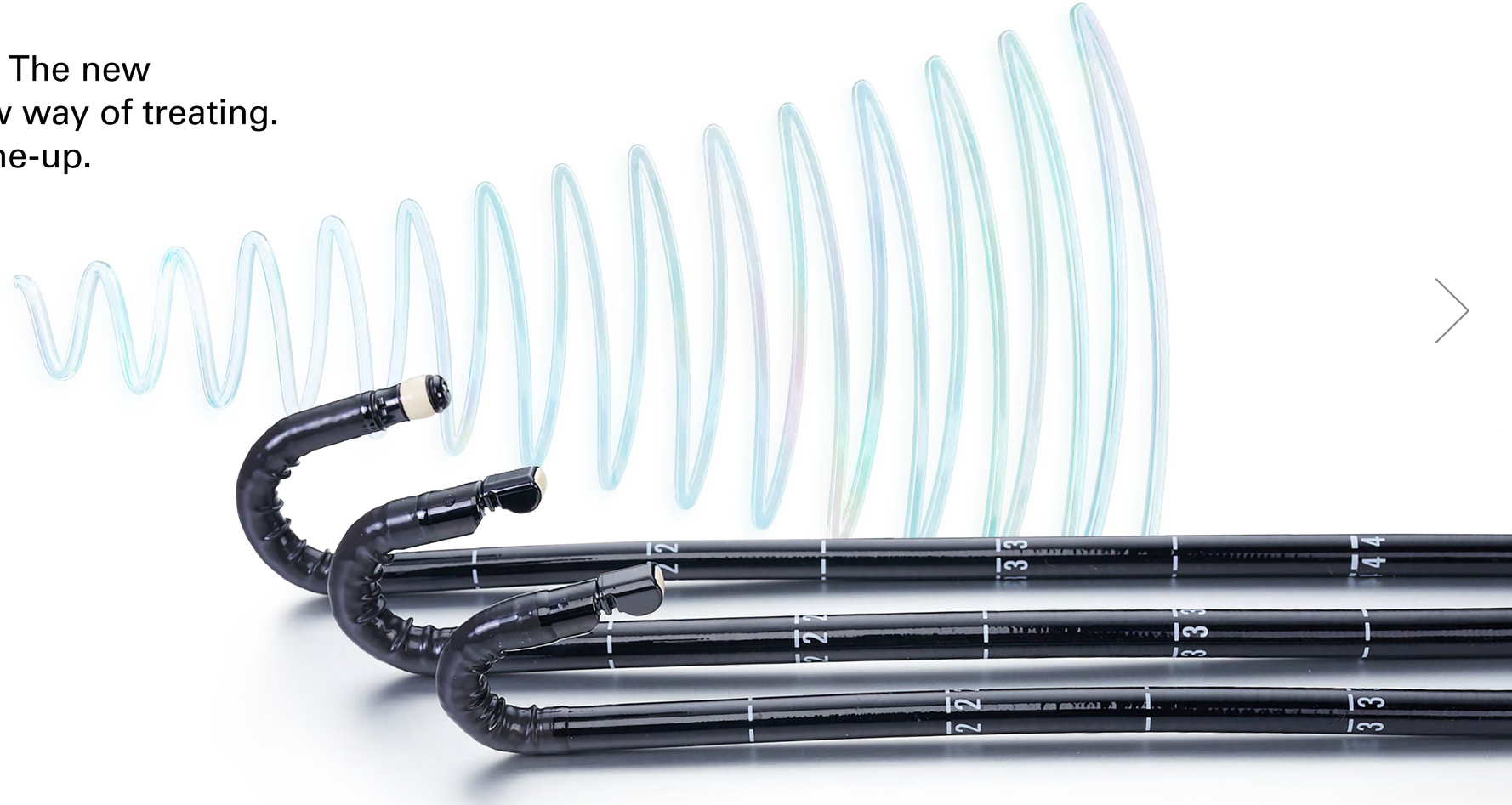
BROADEN YOUR PERSPECTIVE

PENTAX® MEDICAL

The new way of doing. The new way of seeing. The new way of treating. Explore the EUS-J10 line-up.



Broaden your perspective. Explore the EUS-J10 line-up.

The new way of doing. The new way of seeing. The new way of treating.
The EUS-J10 line-up is **designed for optimized procedural efficiency** during diagnostic EUS, EUS-FNA/FNB, and therapy.

EG36-J10UR

EG34-J10U

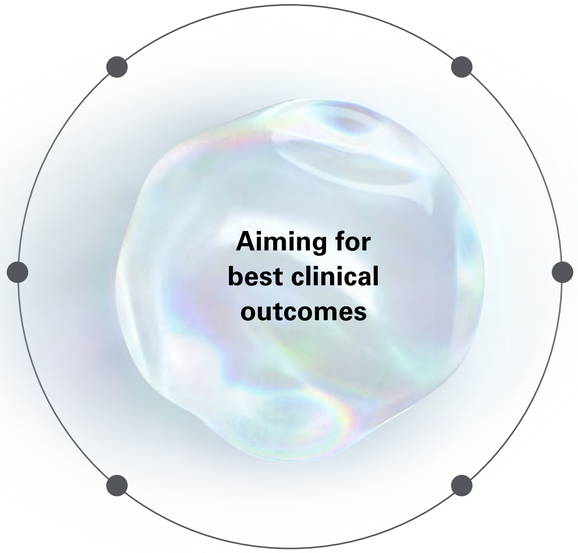
EG38-J10UT

PENTAX Medical and Ultrasound Scanner:
Leveraging strong synergies for the best clinical outcomes

Outstanding image quality
Clear ultrasound and endoscopic images result in improved sensitivity for diagnosis.

Advanced imaging modalities
Advanced imaging modalities contribute additional diagnostic information.

Portfolio of ultrasound systems
The largest range of EBUS/EUS compatible ultrasound systems – from budget class to high specialization.



Customization and image optimization
Image settings can be optimized for each individual user in real-time on-site.

Complementary ultrasound transducers
A wide range of ultrasound transducers extends the application for complementary imaging.

Training and education
Training programs provide the highest standard of professional education across a range of skill levels, from basic to expert.

Broaden your perspective.
Explore the EUS-J10 line-up.

PENTAX Medical always has Triple Aim in mind when providing solutions to you, in order to support your goals of improving clinical outcomes, improving healthcare productivity and enhancing provider and patient experience.

Optimize access

Increased maneuverability and improved ergonomics contribute superb stability and ease of intubation to support higher procedural success rates, optimized working comfort, and better patient tolerance. *The new way of doing.*

Click for more information

Enrich diagnostic findings

Greater detail, better delineation, and superior penetration: a proven PENTAX Medical image quality enhanced to provide improved diagnostic outcomes, and guidance on therapy.
The new way of seeing.

Click for more information

Redefine therapy

A unique, enlarged 4.0 mm working channel expands therapeutic capabilities to advance EUS-guided intervention while providing full control of the procedure.
The new way of treating patients.

Click for more information

Optimize access.
The new way of doing.

Supports higher procedural success rates, optimized working comfort, and better patient tolerance through increased maneuverability:

Optimize access.
The new way of doing.

Supports higher procedural success rates, optimized working comfort, and better patient tolerance through improved ergonomics and lightweight control body:

Ergonomically designed control knobs

One umbilical cable to reduce stress injury and keep better balance

New braking mechanism for better device control

Air/water nozzle to maintain good endoscopic view

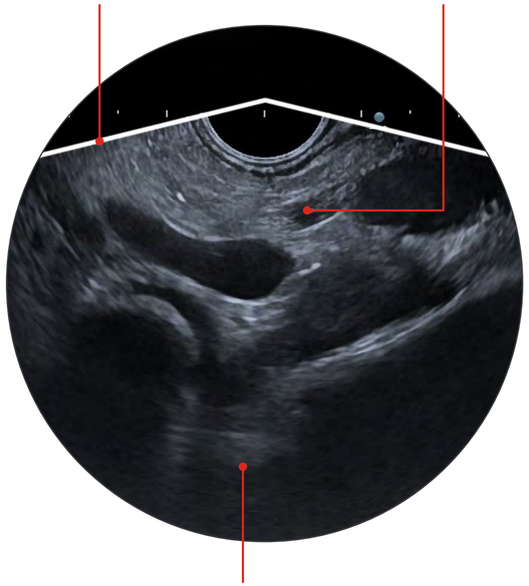
Newly designed for optimized handling:
- Air/water/balloon feeding valve OF-B207
- Suction/balloon suction control valve OF-B206

Enrich diagnostic findings.
The new way of seeing.

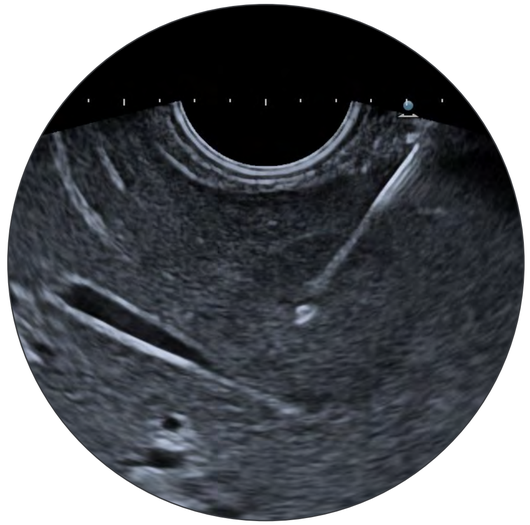
Improved diagnostic outcomes, and guidance on therapy thanks to greater detail, better delineation and superior penetration:

150° scan angle

13 MHz frequency

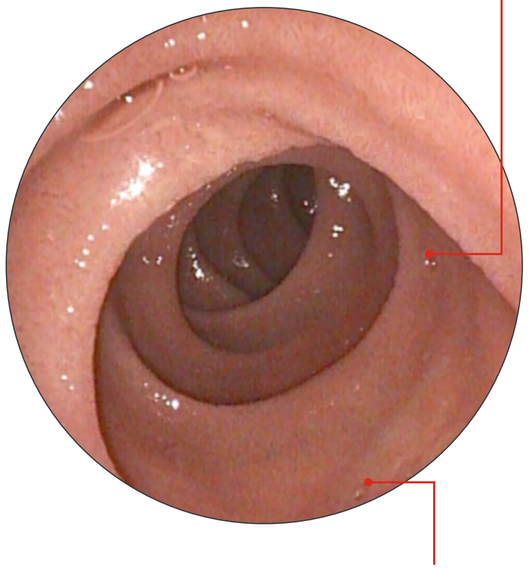


Improved spatial and contrast resolution together with depth penetration due to the latest ultrasound probe crystal technology



EUS-FNA/FNB with clear needle visibility

3 mm near field of view



Improved resolution due to new image sensor

All ultrasound pictures on pages 7, 8 and 9 are obtained with an Arietta V70.
Clinical images used are courtesy of our recognized clinical partners.

Enrich diagnostic findings.
The new way of seeing.

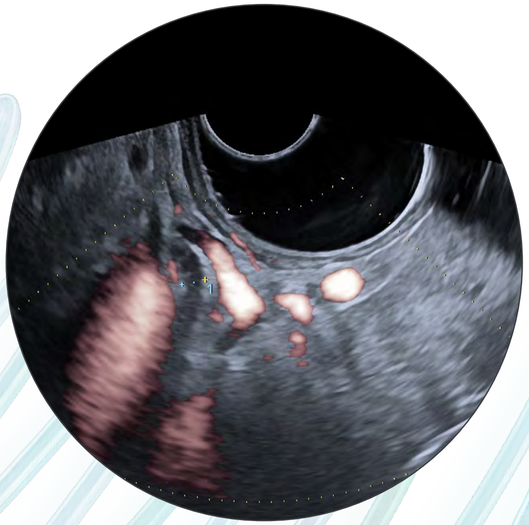
Improved diagnostic outcomes, and guidance on therapy thanks to greater detail, better delineation and superior penetration:

Broadband Harmonic Imaging

Optimal tissue differentiation with clear delineation of boundaries

Compound Imaging

Improves image resolution with clear visualization of irregular borders, calcifications and enhanced needle visibility



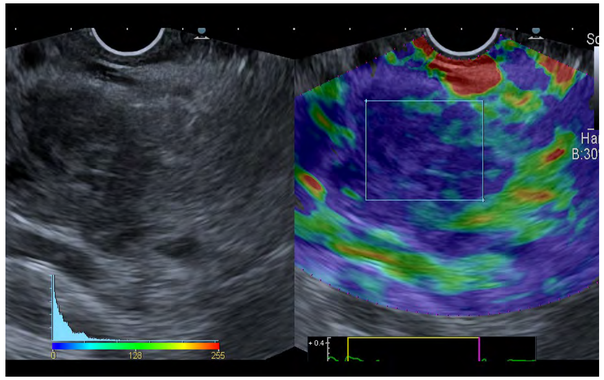
eFLOW

Accurately depicts blood flow dynamics, and helps vessel depiction during challenging EUS-FNA/FNB

Clinical images used are courtesy of our recognized clinical partners.

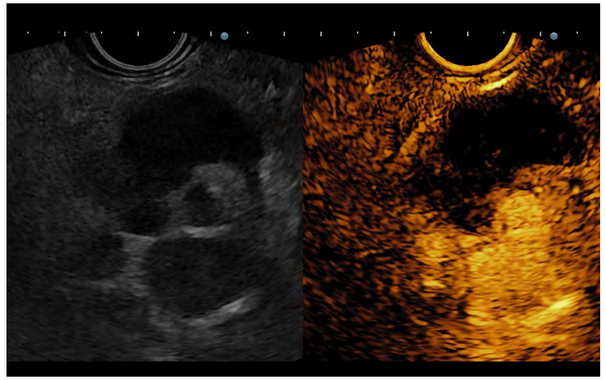
Enrich diagnostic findings.
The new way of seeing.

Improved diagnostic outcomes, and guidance on therapy thanks to greater detail, better delineation and superior penetration:



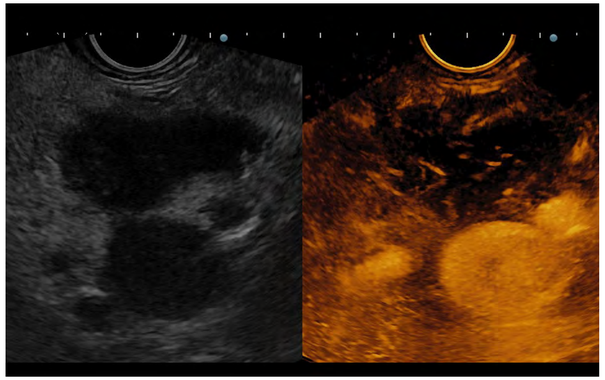
Elastography (RTE)
(Real-Time Tissue Elastography)

Aids characterization of focal lesions, lymph nodes, and improves targeting for EUS-FNA/FNB



Contrast Harmonic Imaging (CHI)
(Real-time display of Contrast Harmonic Imaging)

CHI aids for differential diagnosis of focal lesions (cystic or solid lesions, particularly pancreatic) and monitoring of treatment response



Contrast Harmonic Imaging (CHI)
(Real-time display of Contrast Harmonic Imaging)

Accumulation mode, within CHI, provides information of the target's vascular supply or parenchymal perfusion pattern and enables accurate lesion characterization

Clinical images used are courtesy of our recognized clinical partners.

Enrich diagnostic findings.
The new way of seeing.

Noise reduction and tissue structure extraction technologies that provide cleaner images, with delineating the boundaries around organs and emphasizing the subtlest differences in echo pattern.

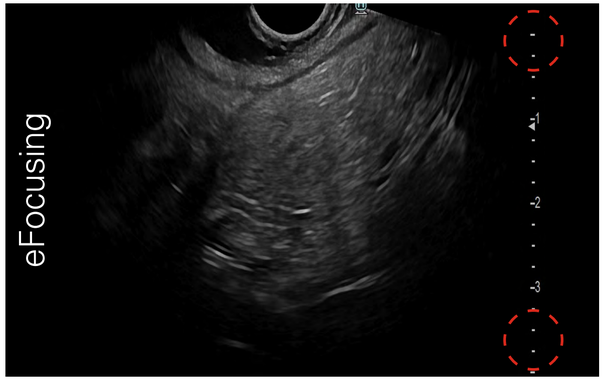
Carving Imaging – Advanced features

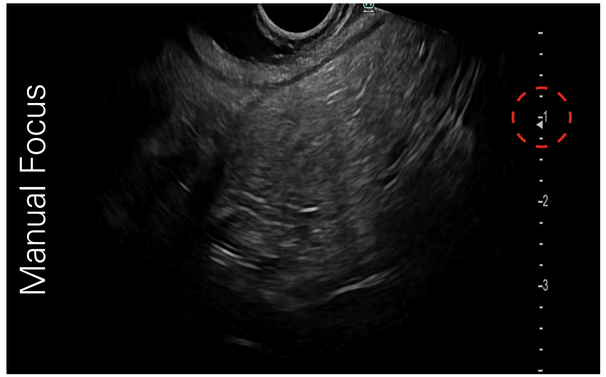
Applies to AR850 and 750 only with all PENTAX Medical EUS-J10 and EUS-70K endoscopes. AR65 can adjust ANR/NNR to achieve similar effect. Images from AR750.

Images courtesy of Dr. Marc Giovannini, IPC Marseille – France

Enrich diagnostic findings.
The new way of seeing.

A transmission and reception technology that achieves outstanding imaging quality from the near field to the far field, for a more detailed clinical assessment and accurate diagnosis throughout the whole imaging depth. eFocusing eliminates the need to adjust focal zone and reduces patient-dependent variability.





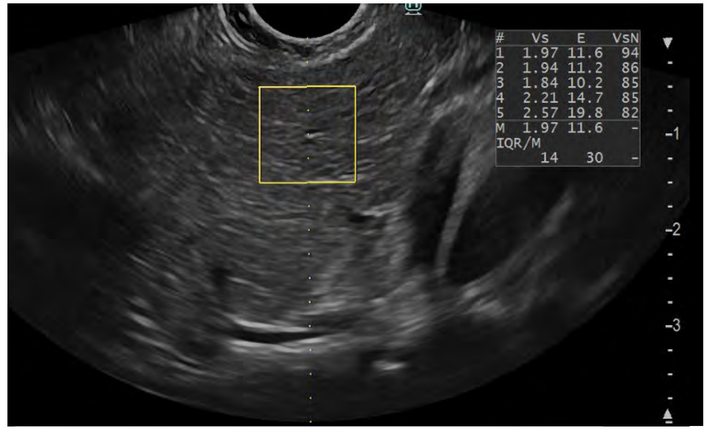
eFocusing – Advanced features

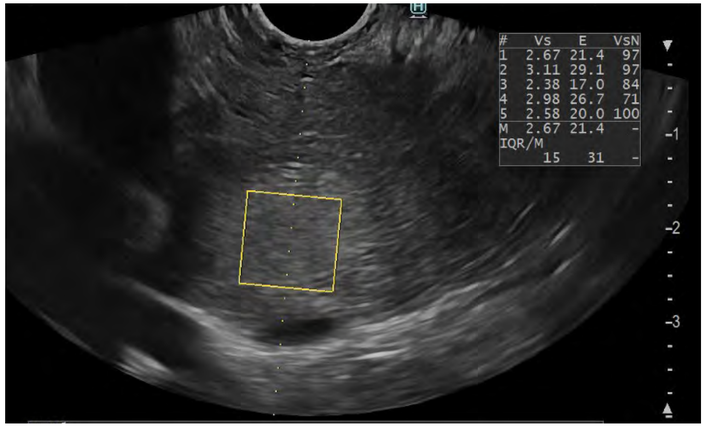
Applies to AR850 with all PENTAX Medical EUS-J10 (from version 4.0) and EUS-70K (from version 4.1) endoscopes, and AR750 with all EUS endoscopes (from version 2.1). Images from AR750.

Images courtesy of Dr. Marc Giovannini, IPC Marseille – France

Enrich diagnostic findings.
The new way of seeing.

SWM (shear-wave measurement) is a function to access tissue stiffness by calculating shear wave propagation velocity (Vs). The propagation velocity of shear waves varies with tissue hardness. The SWM also provide Vs effective rate (VsN) as a reliability indicator, as an objective evaluation of the Vs measurement.





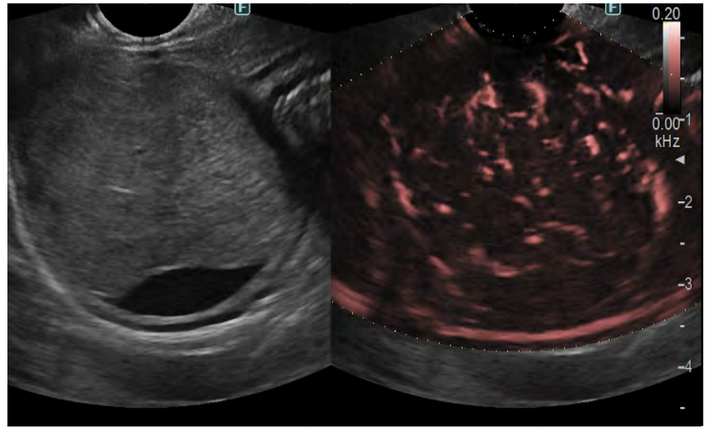
SWM – Advanced features

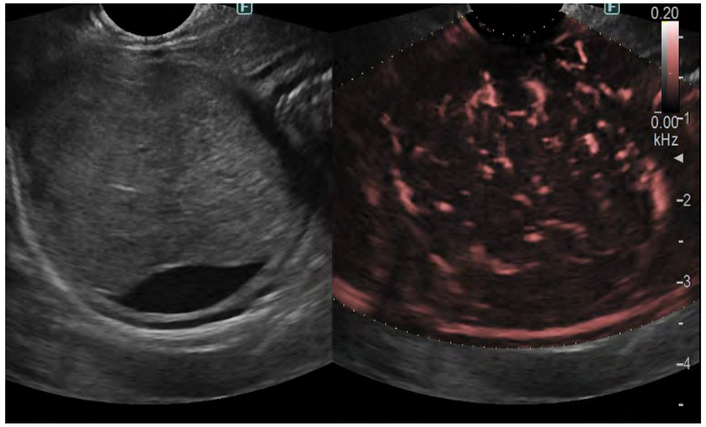
Applies to AR850 (from version 4.0) and AR750 (from version 3.0) with PENTAX Medical endoscopes EG38-J10UT and EG34-J10U.

Images courtesy of Dr. Marc Giovannini, IPC Marseille – France

Enrich diagnostic findings.
The new way of seeing.

DFI (detective flow imaging) is a function to visualize bloodstream fine blood flow with high resolution and sensitivity.





DFI – Advanced features

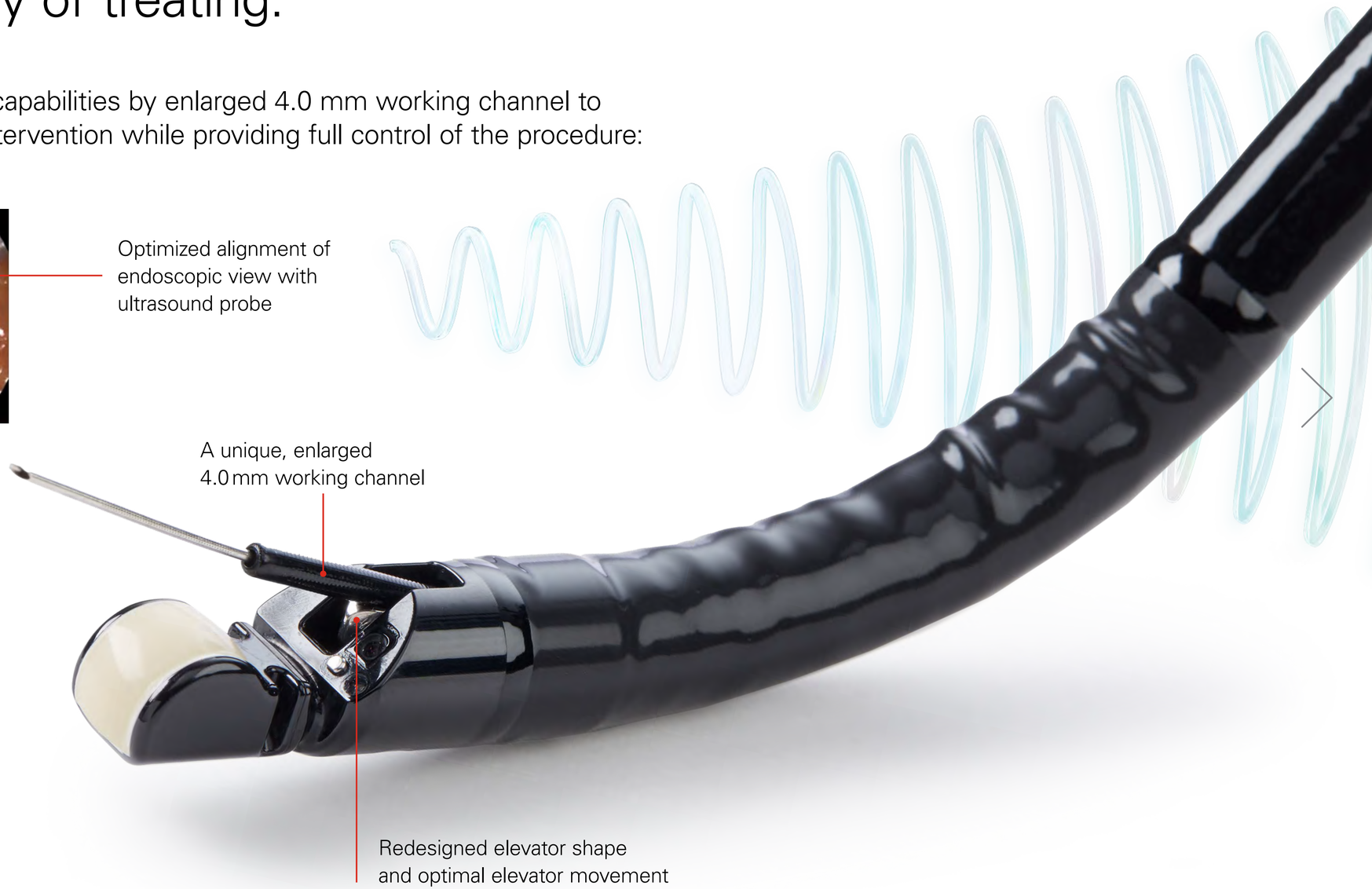
Applies to AR850 (from version 4.1) and AR750 (from version 2.2.1) with PENTAX Medical endoscopes EG38-J10UT and EG34-J10U.

Images courtesy of Dr. Marc Giovannini, IPC Marseille – France

Redefine therapy.
The new way of treating.

Expanding therapeutic capabilities by enlarged 4.0 mm working channel to advance EUS-guided intervention while providing full control of the procedure:

Optimized alignment of endoscopic view with ultrasound probe

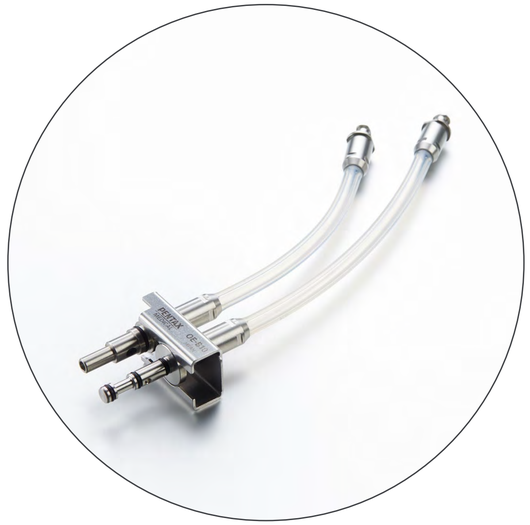


Clinical images used are courtesy of our recognized clinical partners.

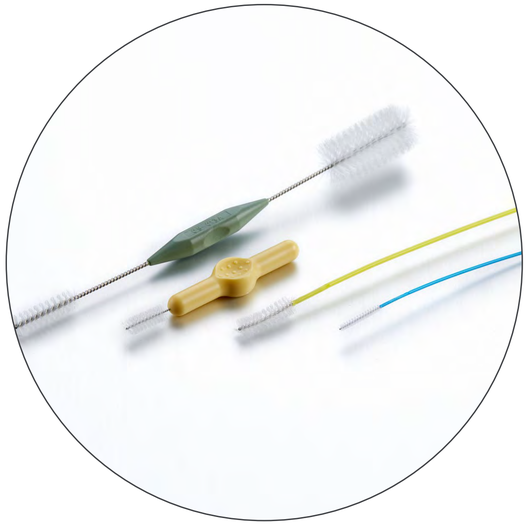
PENTAX Medical hygiene commitment

PENTAX Medical is using innovative products, optimizing processes, and integrating feedback from the market to directly tackle patient safety and infection prevention. We work closely with experts for market insights to ensure that all products are directly based on this need.
The EUS-J10 line-up aims to reduce the risk of cross-contamination through endoscope design, validated consumables and optimized reprocessing:

Fewer reprocessing steps due to:
- Sealed elevator wire channel
- Optimized elevator mechanism design



Newly designed **cleaning adapters** separating channels to ensure all channels are adequately reprocessed



- Dedicated **PROfILE single-use cleaning brushes** designed and validated to meet PENTAX Medical quality standards
- Brushable balloon suction channel

Explore the EUS-J10 line-up:
The complete solution.

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.

ARIETTA 65PX –
Expertly designed to optimize productivity within compact mid-range systems

OPTIVISTA plus –
Further improved *in vivo* diagnosis for therapeutic guidance

ARIETTA 750PX –
High-end ultrasound systems for advanced performance

DEFINA system –
Flexibility in a new light

ARIETTA 850PX –
The next evolution in ultrasound, designed for high expectations

Click for more information on the video processor

The legal manufacturer of these ultrasound platforms and non-endoscopic probes is FUJIFILM Healthcare Corporation Japan.
They are distributed in the assigned geographical areas in Europe by PENTAX Europe GmbH (on a non-exclusive basis).
ARIETTA 65PX, ARIETTA 750PX, ARIETTA 850PX, eFLOW and Real-Time Tissue Elastography (RTE) are registered trademarks or trademarks of FUJIFILM Healthcare Corporation Ltd., Tokyo, Japan.

Overview details

PENTAX® MEDICAL

Ultrasound Video Gastroscopes	EG36-J10UR	EG34-J10U	EG38-J10UT
Direction of view	Forward	Forward oblique (45°)	Forward oblique (45°)
Field of view [°]	140	120	120
Depth of field [mm]	3–100	3–100	3–100
Tip angulation up/down [°]	150/70	160/130	160/130
Tip angulation right/left [°]	70/70	120/120	120/120
Distal end width [mm]	10.4	12.9	14.3
Insertion tube width [mm]	12.1	11.6	12.8
Minimum instrument channel width [mm]	2.4	2.8	4.0
Insertion portion working length [mm]	1,250	1,250	1,250
Total length [mm]	1,566	1,566	1,566
Frequency [MHz]	5–13	5–13	5–13
Scan method	Radial	Convex	Convex
Scan angle [°]	360	150	150

In the interest of technical progress, specifications may change without notice.

Biliopancreatic solution

The PENTAX Medical Ultrasound Video Gastroscope EUS-J10 line-up in combination with ultrasound systems completes our biliopancreatic solution.

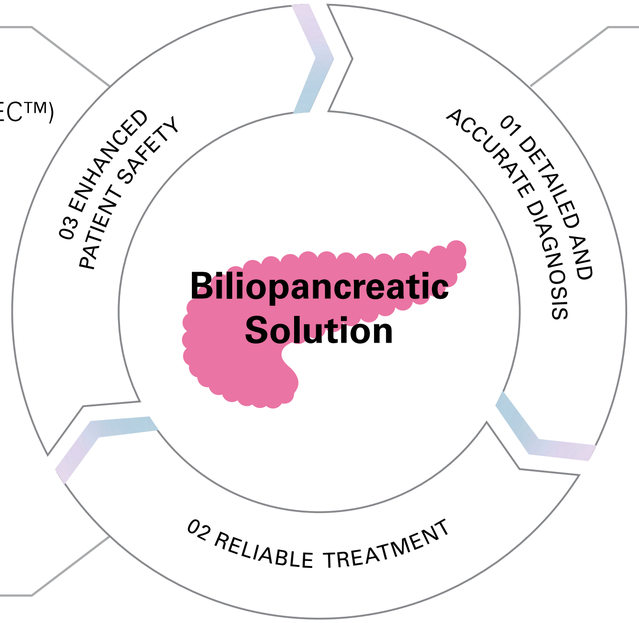
Click for more information on DEC™

Click for more information on RTE and CHI

Click for more information on i-scan www.i-scanimaging.com

03 Enhanced patient safety
Single Use Disposable Elevator Cap (DEC™)

02 Reliable treatment
EG38-J10UT
DEC™ Duodenoscopes
SlimDEC™ Duodenoscopes
ENDO ARC HF Generator
UHD 4K Imaging*



01 Detailed and accurate diagnosis
EUS-J10 line-up
I-DEC™**
UHD 4K Imaging*

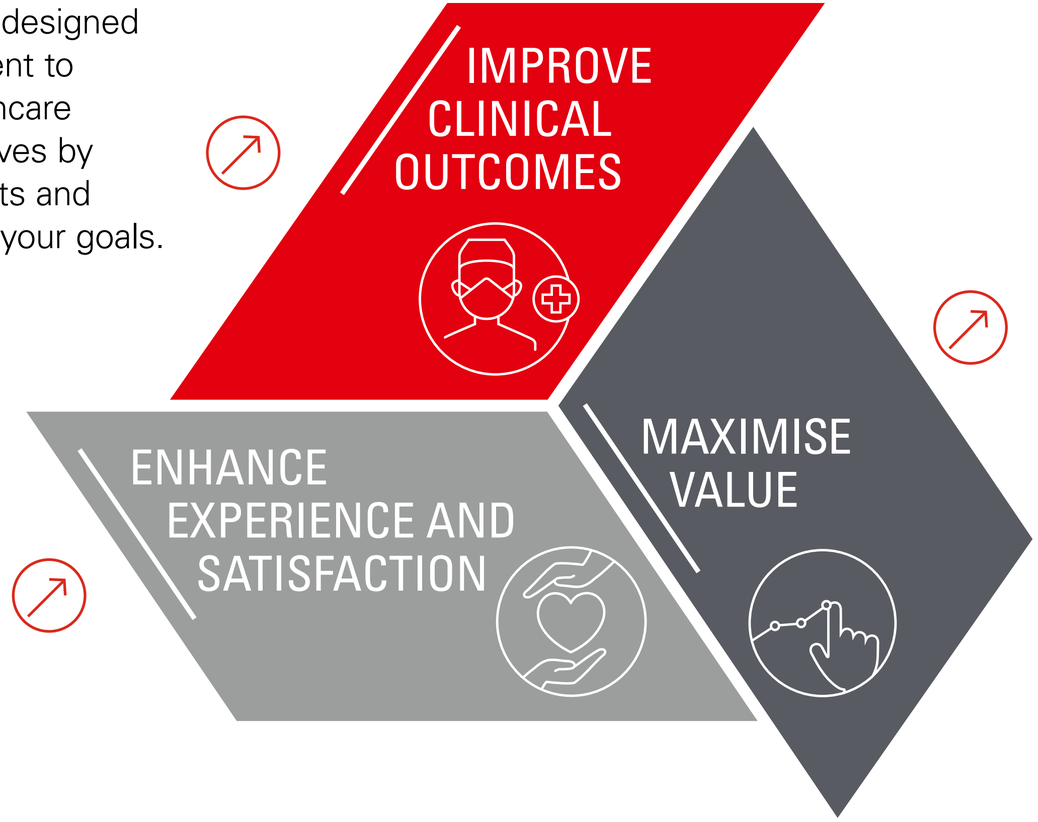
DEC™ and PENTAX Medical INSPIRA™ are registered trademarks of HOYA Corporation, PENTAX Medical Division.

* Available with PENTAX Medical INSPIRA™
** ED34-i10cT2

PENTAX Medical Triple Aim

PENTAX® MEDICAL

Our **Triple Aim** program is designed to deliver on our commitment to support you and your healthcare organisation's wider objectives by providing programs, products and solutions to help you reach your goals.

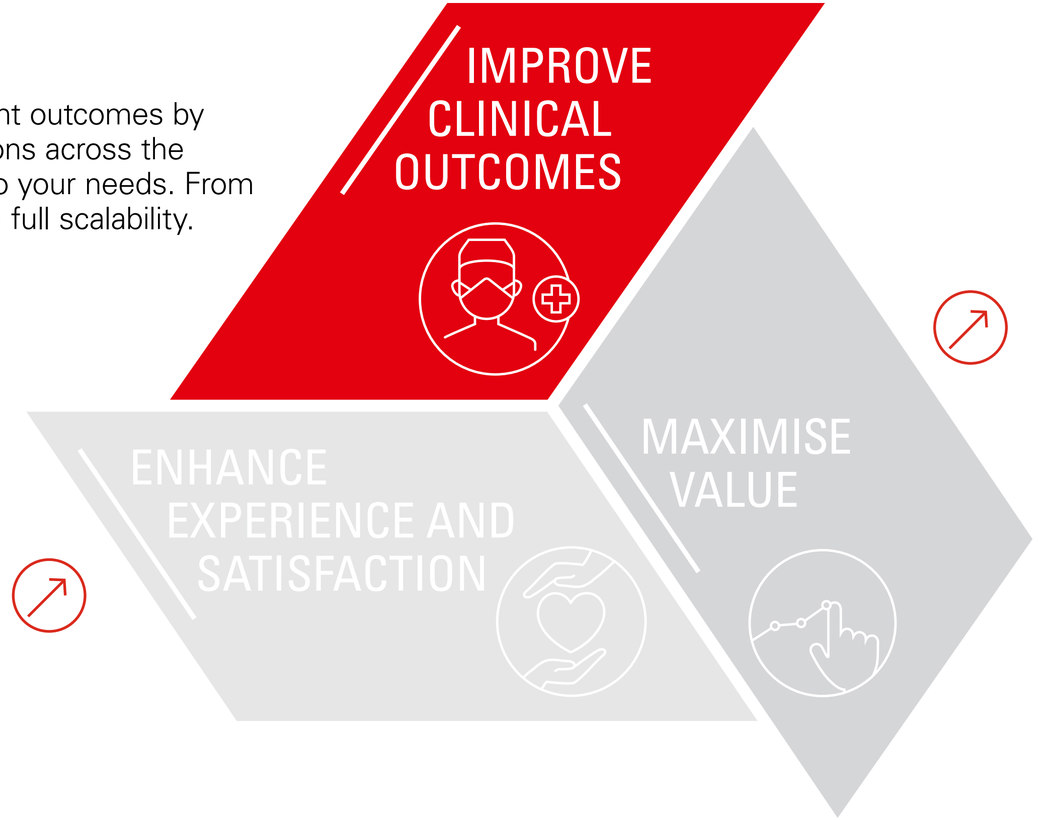


FIND OUT HOW **THE EUS-J10** LINE-UP SUPPORTS TRIPLE AIM

PENTAX Medical Triple Aim

PENTAX® MEDICAL

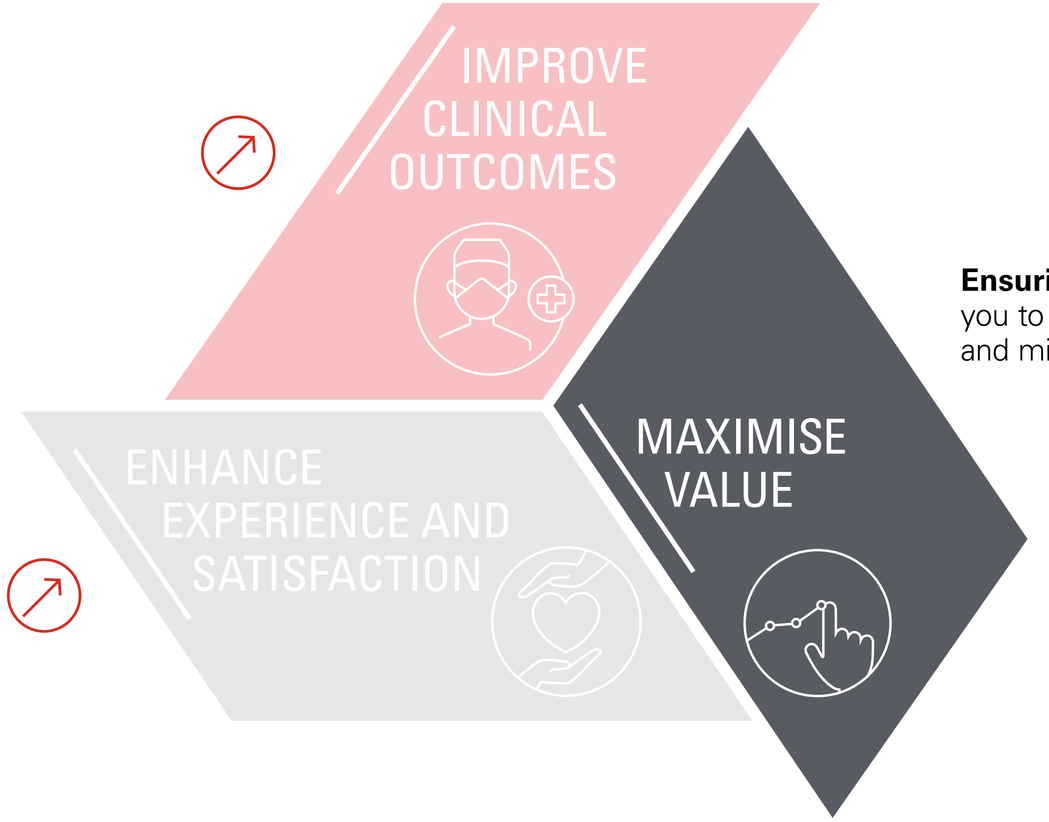
Enabling you to improve patient outcomes by offering evidence-based solutions across the continuum of care, dedicated to your needs. From screening through therapy with full scalability.



FIND OUT HOW **THE EUS-J10** LINE-UP SUPPORTS TRIPLE AIM

PENTAX Medical Triple Aim

PENTAX® MEDICAL



Ensuring value by enabling you to improve your efficiency and minimize healthcare costs.

FIND OUT HOW **THE EUS-J10** LINE-UP SUPPORTS TRIPLE AIM

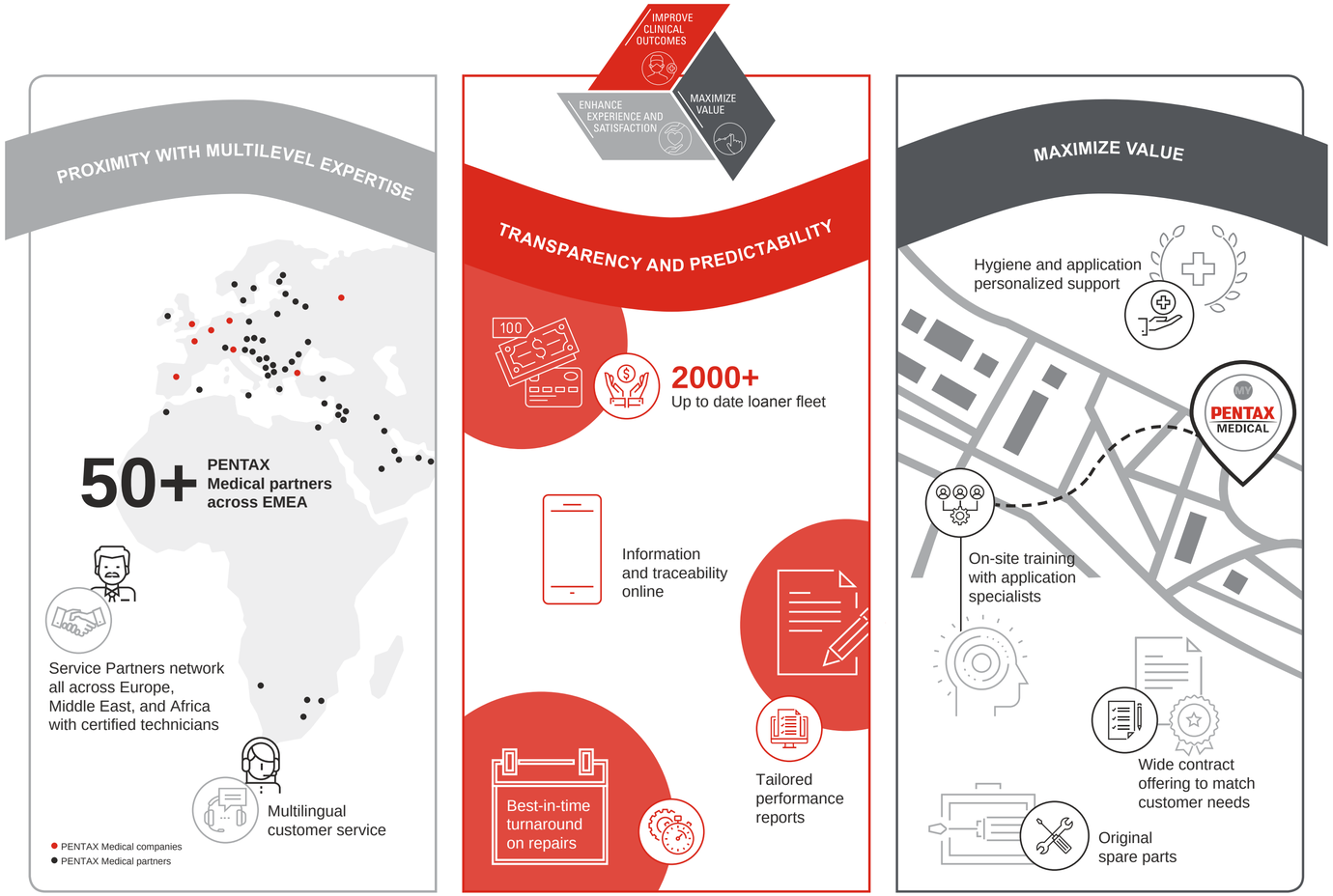
PENTAX Medical Triple Aim

PENTAX® MEDICAL

Enriching patient and provider's experience by empowering every member of your care team to achieve optimal outcomes through products, education and support.

FIND OUT HOW **THE EUS-J10** LINE-UP SUPPORTS TRIPLE AIM

Your needs shape our service



For PENTAX Medical Service, our partnership means your success.

EC REP **EMEA Headquarter Germany**
PENTAX Europe GmbH
Julius-Vosseler-Straße 104 • 22527 Hamburg
T +49 (0)40 561 92-0 • F +49 (0)40 560 42 13
info.emea@pentaxmedical.com • www.pentaxmedical.com

Manufacturer
HOYA Corporation
6-10-1 Nishi-shinjuku
Shinjuku-ku • Tokyo
160-0023 Japan

CE 0123 Medical devices class IIa. This product must be used only by healthcare professionals. Before use and for detailed product specifications, please refer to the instructions for use. In the interest of technical process, specifications may change without notice. PENTAX Medical® is a registered trademark of HOYA Corporation.

© Copyright 2023 HOYA Corporation. All rights reserved.

PENTAX® MEDICAL

MKEUS-2945EN-G Rev 7 (v7.1)