

# PRODUCT OVERVIEW

Discover the fascinating world of  
PENTAX Medical endoscopy



# PENTAX Medical innovation and responsibility

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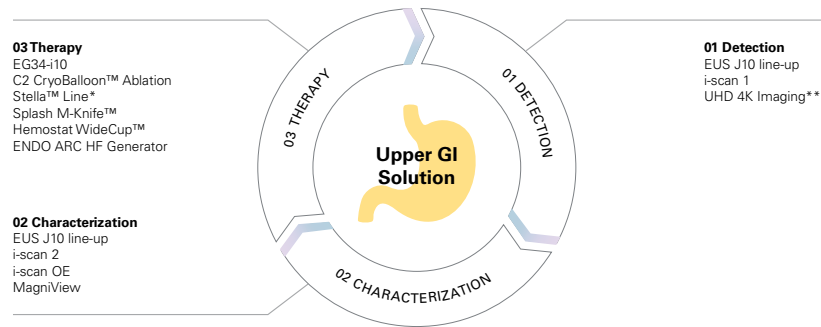
With a combination of technological innovations and medical responsibility, PENTAX Medical sets new standards for endoscopic diagnosis and therapy.

State-of-the-art medical and technological equipment of the highest quality that come with intelligent system compatibility as well as a comprehensive system program. Furthermore, an efficient endoscope drying and storage system, in addition to an efficient service program provides the highest level of investment security for endoscopists of all relevant disciplines.

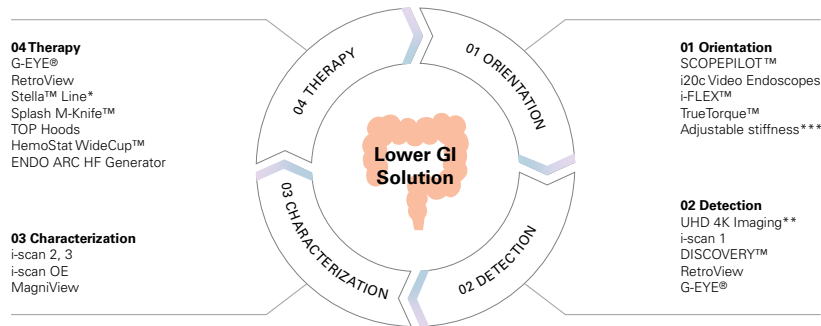


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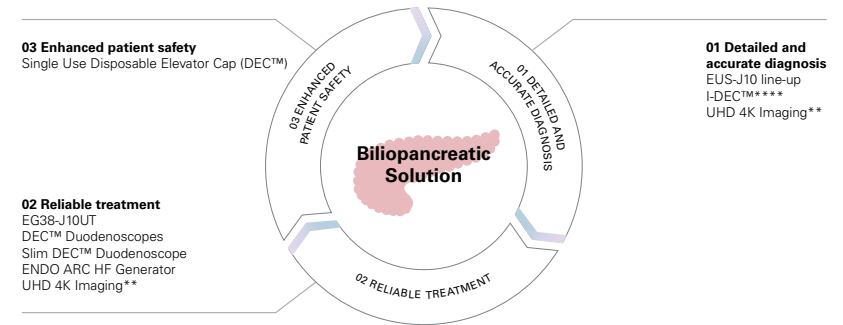
# Solutions for every discipline and market



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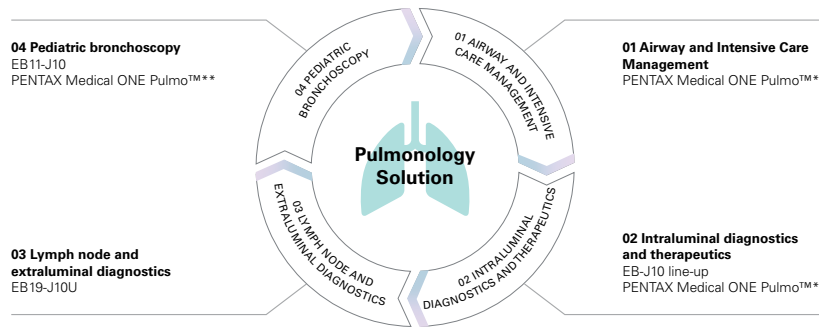
\* Available for specific countries only. Please contact your PENTAX Medical sales representative.

\*\* Available with PENTAX Medical INSPIRA™

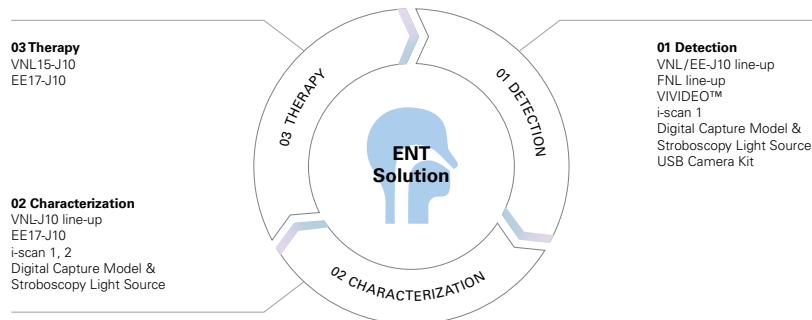
\*\*\* Available with i20c Video Endoscopes

\*\*\*\* ED34-i10cT2

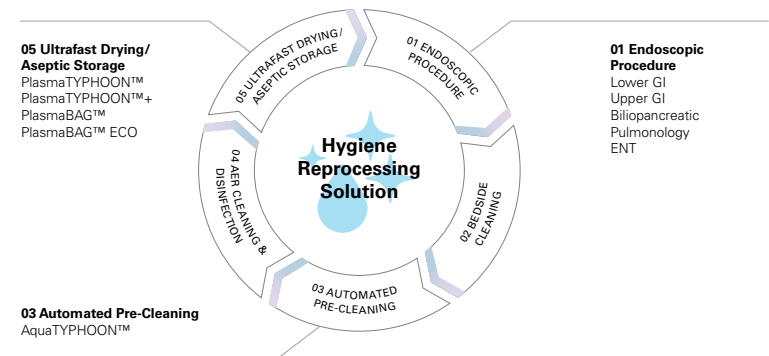
# Solutions for every discipline and market



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\* EB11-S01, EB15-S01

\*\* EB11-S01

# Upper GI and Lower GI



## Advanced diagnosis and treatment | INSPIRA System

### Upper GI Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EG17-J10 Video Gastroscope	5.7	2.0	1100	210/120	120/120	140	HD, Transnasal, wide angle
EG27-i10 Video Gastroscope	9	2.8	1050	210/120	120/120	140	HD+, Close Focus, Optimal ratio outer diameter/working channel
MagniView EG-2990Zi Video Gastroscope	9.8	2.8	1050	210/120	120/120	140	HD+, Optical Zoom, MagniView, Water Jet System, Compatible with Distal Rubber Hood: OE-A58
EG34-i10 Video Gastroscope	11.6	3.8	1050	210/120	120/120	140	HD+, Close Focus, Wide Therapeutic Option, Water Jet System
EG-3890TK Video Gastroscope	12.8	3.8/2.8	1050	180/120	120/120	140	HD, Twin Channel, Water Jet System
EG29-i20c Video Gastroscope	9.8	3.2	1050	210/120	120/120	140	HD+, Close Focus, Water Jet System, Improved Insertion Tube

### Lower GI Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
RetroView EC34-i10TM Video Colonoscope EC34-i10TF Video Colonoscope EC34-i10TL Video Colonoscope	11.6	3.2	1300 1500 1700	210/180	160/160	140	HD+, Close Focus, Wide Therapeutic Option, i-FLEX and TrueTorque, Water Jet System, RetroView radius
EC34-i10M Video Colonoscope EC34-i10F Video Colonoscope EC34-i10L Video Colonoscope	11.6	3.8	1300 1500 1700	180/180	160/160	140	HD+, Close Focus, Wide Therapeutic Option, Optimal ratio outer diameter/working channel, i-FLEX and TrueTorque, Water Jet System
MagniView EC-3890MZi Video Colonoscope EC-3890FZi Video Colonoscope EC-3890LZi Video Colonoscope	13.2	3.8	1300 1500 1700	180/180	160/160	140	HD, MagniView, i-FLEX and True-Torque, Water Jet System, Distal Rubber Hood (OE-A59)
EC-3890TLK Video Colonoscope	13.2	3.8/2.8	1700	180/180	160/160	140	HD, i-FLEX and TrueTorque, Water Jet System, Twin Channel
EC38-i20c Video Colonoscope	12.8	3.8	1300/1500/ 1700	210/180	160/160	170	HD+, Close Focus, Water Jet System, Improved Insertion Tube, Adjustable Stiffness

# Upper GI and Lower GI



## Advanced diagnosis and treatment | INSPIRA System

### Processor

EPK-i8020c INSPIRA™ Video Processor

Light source	LED
Advanced modalities	Digital and optical enhancement (IE/OE)
Digital output	DVI, 3G-SDI, HD-SDI, 12G-SDI (4K)
Analog output	Y/C
User Interface	7 inch customizable touchscreen with individual profile setting
Digital Zoom	Yes
Image Enhancement	i-scan (Surface Enhancement, Contrast Enhancement, Tone Enhancement), OE-Optical Enhancement (Mode 1 & 2); Auto-HDR; D-Range expansion
Freeze scan	Yes
Red Density	Yes*
Compatible video endoscopes	90K, 90i, J10, i10, i10c and i20c series; Not all models are compatible. For details, contact your local PENTAX Medical service facility.
Dimensions (W x H x D) / Weight	400 x 205 x 520 mm, 24 kg

\* Activation required

# Upper GI and Lower GI



## Advanced diagnosis and treatment | G-EYE® System

### G-EYE® Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
G-EYE34-i10F Video Colonoscope G-EYE34-i10L Video Colonoscope	11.6	3.8	1500 1700	180/180	160/160	140	HD+, Close Focus, Wide Therapeutic Option, Optimal ratio outer diameter/working channel, i-FLEX and TrueTorque, Water Jet System, permanently integrated reusable balloon
G-EYE38-i10F Video Colonoscope G-EYE38-i10L Video Colonoscope	13.2	3.8	1500 1700	180/180	160/160	140	HD+, Close Focus, i-Flex and TrueTorque, Water Jet System, permanently integrated reusable balloon
G-EYE38-i10F2 Video Colonoscope	13.2	3.8	1500	180/180	160/160	140	HD+, i-Flex and TrueTorque, Water Jet System, permanently integrated reusable balloon, increased rigidity
G-EYE38-i10NF G-EYE PILOT Video Colonoscope G-EYE38-i10NL G-EYE PILOT Video Colonoscope	13.2	3.8	1500 1700	180/180	160/160	140	HD+, Water Jet System, Permanently integrated G-EYE® reusable balloon for increased mucosa visualization, Laser treatment, electrosurgery treatment, 3D navigation support

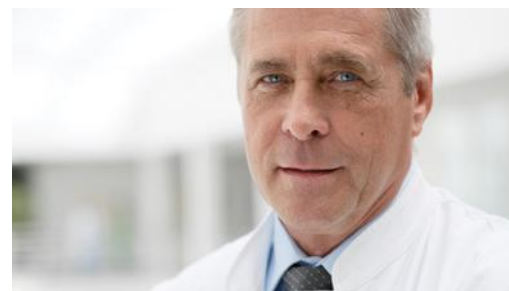
### Inflation System

Electrical input voltage [VAC]	Electrical input frequency [Hz]	Dimensions [mm]	Set Pressure Tolerance [mbar]	Inflated Balloon Set Pressure [mbar]
NaviAid™ SPARK <sup>2</sup> C (Compatible with G-EYE® endoscopes and NaviAid™ AB-F)				
100 - 240	50-60	280 x 195 x 90	±10	Anchoring pressure 70. Unique Controlled Withdrawal™ pressure- 3 intermediate levels

### NaviAid™ AB-F (Advancing Balloon)

Catheter Length [mm]	Compatible Working Channel [mm]	Balloon Diameter [mm]	Inflated Balloon Set Pressure [mBar]	Set Pressure Tolerance [mBar]	Balloon Inflation System - Power Supply
3,500	≥ 3.7	40	60	± 10	100-240 VAC; 50-60 Hz

# Upper GI and Lower GI



## Advanced diagnosis and treatment | SCOPEPILOT System

### SCOPEPILOT Video Colonoscope

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Direction of view (°)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EC38-i10NF SCOPEPILOT Video Colonoscope	13.2	3.8	1500	Forward	180/180	160/160	140	HD+, Water Jet System, i-FLEX and TrueTorque, 3D navigation support
EC38-i10NL SCOPEPILOT Video Colonoscope	13.2	3.8	1700					
EC34-i10NF SCOPEPILOT	11.6	3.2	1500					
EC34-i10NL SCOPEPILOT	11.6	3.2	1700					

### PENTAX Medical Navigation Control Unit NCU-7000

Item	Specifications	
Power	Voltage	100 - 230VAC
	Voltage fluctuation	±10%
	Frequency	50 - 60Hz
	Rated input	150VA
Operating Environment	Ambient temperature	10°C - 30°C
	Relative humidity	30% - 75%
	Air pressure	700 - 1,060hPa
Storage and Transportation Environment	Ambient temperature	-20°C - 60°C
	Relative humidity	10% - 85%
	Air pressure	700 - 1,060hPa
Video Signal	Digital output: DVI	Resolution of the entire monitor screen: 1920 x 1080p (1 set)
Control Signal	RCU	1 set
	Keyboard	1 set
	USB	1 set (USB 2.0 compliant) USB flash memory
Image Recording Functions	Recording media	USB flash memory *USB hard drive is not available
	Recording format	JPEG
Dimensions (NCU)	Excluding protrusions	400mm (W) x 100mm (H) x 400mm (D)
	Maximum dimensions	400mm (W) x 115mm (H) x 400mm (D)
Weight		7.4kg

### Processor

EPK-i8020c INSPIRA™ Video Processor	
Light source	LED
Advanced modalities	Digital and optical enhancement (IE/OE)
Digital output	DVI, 3G-SDI, HD-SDI, 12G-SDI (4K)
Analog output	Y/C
User Interface	7 inch customizable touchscreen with individual profile setting
Digital Zoom	Yes
Image Enhancement	i-scan (Surface Enhancement, Contrast Enhancement, Tone Enhancement), OE-Optical Enhancement (Mode 1 & 2); Auto-HDR; D-Range expansion
Freeze scan	Yes
Red Density	Yes*
Compatible video endoscopes	90K, 90i, J10, i10, i10c and i20c series; Not all models are compatible. For details, contact your local PENTAX Medical service facility.
Dimensions (W x H x D) / Weight	400 x 205 x 520 mm, 24 kg

\* Activation required



# Upper GI and Lower GI



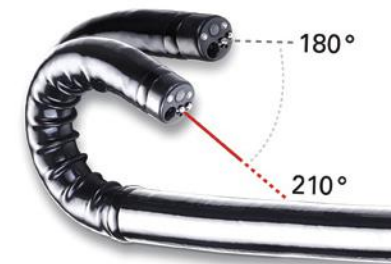
## Advanced diagnosis | Artificial Intelligence

### PENTAX Medical DISCOVERY™ PENTAX Medical Smart Assistant System SAS-M10

PENTAX Medical DISCOVERY™ assists endoscopists in finding potential polyps during a colonoscopy examination

Type	SAS-M10
Display	32" LCD capacitive touch-screen
Max. resolution	3,840 × 2,160
Max. colors	10 bits (8 bits + FRC) / 1.07B colors
Pixel Pitch (mm)	0.1845 x 0.1845
Luminance (cd/m2)	350 (TYP)
Mounting/Holder	VESA 100/200 mm
Size and weight	778 × 478 × 102 mm (W × H × D); 20.6 kg
Power supply	100 – 240 V AC, 50 – 60 Hz
Degree of protection against electric shock / ingress of water	Class I / IPX0
Compatible Video Processors	EPK-i7010, EPK-i7000, EPK-i7000(A), EPK-i5500c, EPK-i5000, i8020c INSPIRA

# Upper GI and Lower GI



## Diagnostic and standard therapeutics

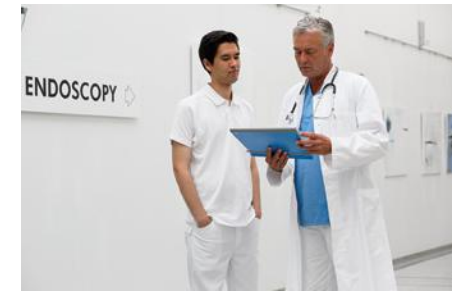
### Upper GI Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EG-2490K Video Gastroscope	8	2.4	1050	210/120	120/120	140	HD
EG-2790K Video Gastroscope	9	2.8	1050	210/120	120/120	140	HD
EG-2990i Video Gastroscope	9.8	2.8	1050	210/120	120/120	140	HD+, Water Jet System
EG29-i10 Video Gastroscope	9.8	3.2	1050	210/120	120/120	140	HD+, Close Focus, Wide Therapeutic Option, Optimal ratio outer diameter/working channel, Water Jet System

### Lower GI Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
RetroView EC-3490TMi Video Colonoscope	11.6	3.2	1300	210/180	160/160	140	HD+, RetroView radius, i-FLEX and TrueTorque, Water Jet System
EC-3890Fi2 Video Colonoscope	13.2	3.8	1500	180/180	160/160	140	HD+, i-FLEX and TrueTorque, Water Jet System
EC-3890Fi Video Colonoscope EC-3890Li Video Colonoscope	13.2	3.8	1500 1700	180/180	160/160	140	HD+, i-FLEX and TrueTorque, Water Jet System
EC-3890TLK Video Colonoscope	13.2	3.8/2.8	1700	180/180	160/160	140	HD, i-FLEX and TrueTorque, Twin Channel, Water Jet System
EC38-i10M Video Colonoscope EC38-i10F Video Colonoscope EC38-i10L Video Colonoscope	13.2	3.8	1300 1500 1700	180/180	160/160	140	HD+, i-FLEX and TrueTorque, Water Jet System
EC38-i10M2 Video Colonoscope EC38-i10F2 Video Colonoscope	13.2	3.8	1300 1500	180/180	160/160	140	HD+, i-FLEX and TrueTorque, increased rigidity, Water Jet System

# Upper GI and Lower GI



## Diagnostic and standard therapeutics

### Processor

EPK-3000 DEFINA Video Processor with i-scan

Light source	150W Xenon
Advanced imaging modalities	Digital image enhancement (i-scan SE, CE, TE)
Digital output	DVI-D
Analog output	RGB, Y/C, composite
User Interface	Control panel, keyboard
Digital Zoom	yes
Dimensions (W x H x D)	350 x 180 x 485 mm

# Upper GI and Lower GI



## Diagnostic and standard therapeutics | INSPIRA System

### Upper GI Endoscope INSPIRA

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EG29-i20c Video Gastroscope	9.8	3.2	1050	210/120	120/120	140	HD+, Close Focus, Water Jet System, Improved Insertion Tube

### Lower GI Endoscopes INSPIRA

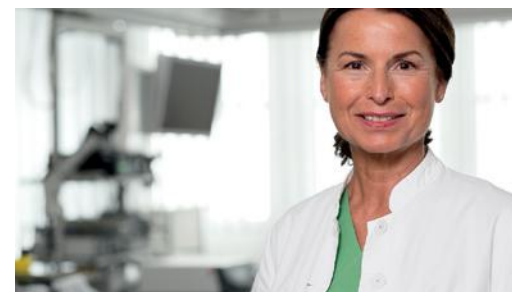
Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EC38-i20c Video Colonoscope	12.8	3.8	1300/1500/1700	210/180	160/160	170	HD+, Close Focus, Water Jet System, Improved Insertion Tube, Adjustable Stiffness

### Processor INSPIRA

Product	Light Source	Advanced modalities	Digital Output	Analog Output	User Interface	Digital Zoom	Image Enhancement	Freeze scan	Red Density	Compatible video endoscopes	Dimensions (W x H x D / weight)
EPK-i8020c INSPIRA™ Video Processor	LED	Digital and optical enhancement (IE/OE)	DVI, 3G-SDI, HD-SDI, 12G-SDI (4K)	Y/C	7 inch customizable touchscreen with individual profile setting	Yes	i-scan (Surface Enhancement, Contrast Enhancement, Tone Enhancement), OE-Optical Enhancement (Mode 1 & 2); Auto-HDR; D-Range expansion	Yes	Yes*	90K, 90i, J10, i10, i10c and i20c series; Not all models are compatible. For details, contact your local PENTAX Medical service facility.	400 x 205 x 520 mm, 24 kg

\* Activation required

# Upper GI and Lower GI



## Diagnostic and standard therapeutics | IMAGINA System

### Upper GI Endoscope IMAGINA

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EG29-i10c IMAGINA Video Gastroscope	9.8	3.2	1050	210/120	120/120	140	HD+ image, LED, Water Jet System, INSPIRA compatible

### Lower GI Endoscopes IMAGINA

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EC34-i10cM IMAGINA Video Colonoscope EC34-i10cF IMAGINA Video Colonoscope EC34-i10cL IMAGINA Video Colonoscope	11.6	3.8	1300 1500 1700	180/180	160/160	140	HD+ image, i-FLEX and TrueTorque, Water Jet System, LED, INSPIRA compatible
EC38-i10cF2 IMAGINA Video Colonoscope	13.2	3.8	1500	180/180	160/160	140	HD+ image, i-FLEX and TrueTorque, Water Jet System, LED, increased rigidity, INSPIRA compatible
EC38-i10cM IMAGINA Video Colonoscope EC38-i10cF IMAGINA Video Colonoscope EC38-i10cL IMAGINA Video Colonoscope	13.2	3.8	1300 1500 1700	180/180	160/160	140	HD+ image, i-FLEX and TrueTorque, Water Jet System, LED, INSPIRA compatible

### IMAGINA G-EYE® Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
G-EYE34-i10cF Video Endoscope G-EYE34-i10cL Video Endoscope	11.6	3.8	1500 1700	180/180	160/160	140	HD+ image, i-FLEX and TrueTorque, Water Jet System, LED, permanently integrated reusable balloon
G-EYE38-i10cF2 Video Endoscope	13.2	3.8	1500	180/180	160/160	140	HD+ image, i-FLEX and TrueTorque, Water Jet System, LED, permanently integrated reusable balloon
G-EYE38-i10cM Video Endoscope G-EYE38-i10cF Video Endoscope G-EYE38-i10cL Video Endoscope	13.2	3.8	1300 1500 1700	180/180	160/160	140	HD+ image, i-FLEX and TrueTorque, Water Jet System, LED, permanently integrated reusable balloon

### Processor IMAGINA

Product	Light Source	Advanced imaging modalities	Video Output	Digital Input	Printer-specific output	User Interface	Digital Zoom	Dimensions (W x H x D / weight)
EPK-i5500c IMAGINA Video Processor with i-scan and LED Technology	LED (build into the endoscope, not into the processor)	Digital image enhancement (SE, CE, TE)	DVI, VGA	DVI	Y/C	7 inch customizable, smartphone-like touchscreen	Up to x 2.0	400 x 172.6 x 471mm / 13kg

# Upper GI and Lower GI



## Basic diagnosis and treatment | DEFINA system

### Upper GI Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EG-2490K Gastroscope 90K	8.0	2.4	1050	210/120	120/120	140	
EG-2790K Gastroscope 90K	9.0	2.8	1050	210/120	120/120	140	
EG-2990K Gastroscope 90K	9.8	2.8	1050	210/120	120/120	140	
EG-3890TK Gastroscope 90K	12.8	3.8/2.8	1050	180/120	120/120	140	

### Lower GI Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EC-3490FK Colonoscope 90K	11.6	3.8	1500	180/180	160/160	140	
EC-3490LK Colonoscope 90K	11.6	3.8	1700	180/180	160/160	140	
EC-3890FK2 Colonoscope 90K	13.2	4.2	1500	180/180	160/160	140	Insertion tube with increased rigidity in comparison with standard equipment
EC-3890FK Colonoscope 90K	13.2	4.2	1500	180/180	160/160	140	
EC-3890LK Colonoscope 90K	13.2	4.2	1700	180/180	160/160	140	
EC-3890TLK Colonoscope 90K	13.2	3.8/2.8	1700	180/180	160/160	140	

### Processor

EPK-3000 DEFINA Video Processor with i-scan

Light source	150W Xenon
Advanced imaging modalities	Digital image enhancement (i-scan SE, CE, TE)
Digital output	DVI-D
Analog outputs	RGB, Y/C, composite
User Interface	Control panel, keyboard
Digital Zoom	yes
Dimensions (W x H x D)	350 x 180 x 485 mm

# Upper GI and Lower GI



## Basic diagnosis and treatment | VERSA System\*

### Upper GI Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EG27-V10c VERSA Video Gastroscope EG29-V10c VERSA Video Gastroscope	9 9.6	2.8	1050	210/90	100/100	140	HD, LED

### Lower GI Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EC38-V10cL VERSA Video Colonoscope EC38-V10cM VERSA Video Colonoscope	12.8	3.7	1650 1300	180/180	160/160	140	HD, LED

### Processor

EPK-V1500c VERSA Video Processor with HD and LED Technology

Video output	Y/C, DVI, RGB, SYNC, AV
Imaging enhancement	E-stressed mucosal morphology or profile for increasing the sharpness of endoscopic images. Profile enhance level has four gears to choose from.
Light source	LED
Dimensions (W x H x D / weight)	452 x 167 x 456 mm / 11.5 kg
Color tone adjustment	"R", "B" adjustment: ±25 steps
Brightness adjustment	"Y" adjustment: ±25 steps
Freeze, save, review	Endoscopic images can be frozen and saved, so that images can be reviewed
Gain control	(OFF, 1, 2 and 3)
Metering mode	Average; Peak
White balance adjustment	Press the white balance switch to perform the white balance adjustment.
Voltage	100 - 240VAC
Power frequency	50Hz/60Hz
Air flow	2 steps (H/L)

\* available in selected countries only

# Upper GI and Lower GI



## Peripherals and Accessories

### Recommended Leakage Testers

Product	Remarks
SHA-P6 Automatic Leakage Tester	
Manual Leakage Tester for VERSA*	only for VERSA system
G-Eye Leakage Tester	

### Recommended Trolleys

Product	Remarks
Classic Cart with Isolation Transformer	
PTV10c - Endoscopic Trolley	
Uni-Cart	
Uni Cart DISCOVERY	

### Recommended Monitors

Product	Remarks
32" Premium Ultra-Hybrid 4K Monitor ADLINK	
32" Performance 4K Monitor ADLINK	
21" EndoVue Monitor	
24" EndoVue Monitor	
27" Radiance Ultra Monitor	
32" EndoVue Monitor	
PENTAX ZeroWire G2 Pair, for 32" Monitor	
PENTAX ZeroWire G2 Pair, for 27" Monitor	

### Pumps

Product	Remarks
EGA-500 - irrigation pump	
EGA-501 - CO <sub>2</sub> insufflator	
Senator30 - suction pump	

## Electrosurgery

### Main Units

Product	Remarks
ARC 400 Electrosurgical Unit	
ARC PLUS Unit for ARC 400	
ENDO ARC Electrosurgical Unit	
ENDO PLUS Unit for ENDO ARC	
Fuego Basic Trolley II	

### Basic Accessories for ENDO ARC

Product	Remarks
Monopolar Cable Endoscopy 2,8 mm Socket 4 mm	
Single Use Cable Return Plate 4,5 m	
Split Neutral Electrode, 90 cm <sup>2</sup> , EASY (100 pieces)	

### Basic Accessories for ARC 400

Product	Remarks
Monopolar Cable Endoscopy 2,8 mm Socket Comfort	
Single Use Cable Return Plate 4,5 m	
Split Neutral Electrode, 110 cm <sup>2</sup> , EASY (100 pieces)	

### Consumables for ENDO PLUS and ARC PLUS

Product	Remarks
Disposable Filters (50 pieces)	
Reusable Cable for Flexible Argon Probe Comfort 2,5 m	
Disposable Flexible Argon Probe, Ø 2,3 mm, 2,2 m (10 pieces)	
Disposable Flexible Argon Probe, Ø 3,2 mm, 2,2 m (10 pieces)	
Disposable Flexible Argon Probe, Ø 1,5 mm, 3 m (10 pieces)	
Disposable Flexible Argon Probe, Ø 2,3 mm, 3 m (10 pieces)	
Disposable Flexible Argon Probe, 90°, Ø 2,3 mm, 2,2 m (10 pieces)	



# Upper GI and Lower GI



## C2 CryoBalloon Ablation for Barrett's Esophagus

### C2 CryoBalloon™

	Part Number	Product Code	Description
Catheters	FG-1028	300613	Focal Standard Catheter
	FG-1024	300617	Focal Pear Catheter
Controller & Foot Petal	FG-1017	300610	Controller
	FG-1018	300611	Foot Petal
Cartridge	FG-1013	300612	Cartridge (Box of 5)

### Recommended Endoscope

EG34-i10 Video Gastroscope	
Insertion Tube ø (mm)	11.6
Min. Instrument Channel ø (mm)	3.8
Working Length (mm)	1050
Tip angulation up/down (°)	210/120
Tip angulation right/left (°)	120/120
Field of view (°)	140
Remarks	HD+, Close Focus, Wide Therapeutic Option, Water Jet System



**FG-1018**  
C2 CryoBalloon™  
Foot Pedal



**FG-1028 / FG-1024**  
C2 CryoBalloon™ Standard  
and Pear Catheters



**FG-1013**  
C2 CryoBalloon™ Cartridge  
(Box of 5)



**FG-1017**  
C2 CryoBalloon™  
Controller

With C2, I can offer my patients the latest and most effective treatment options and develop a more comprehensive Barrett's center.

Harshit S. Khara, MD, FACP, FASGE  
Clinical Associate Professor of Medicine  
Director of Endoscopy  
Geisinger Medical Center

# Biliopancreatic



## Advanced diagnosis and treatment

### ERCP Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
ED32-i10 Video Slim DEC™ Duodenoscope	10.8	3.2	1250	120/90	105/90	105 (retro 15)	HD, DEC™ (Disposable Elevator Cap)
ED34-i10T2 Video DEC™ Duodenoscope	11.6	4.2	1250	120/90	105/90	100 (retro 10)	HD+, DEC™ (Disposable Elevator Cap)
ED34-i10cT2 I-DEC™ Duodenoscope	11.6	4.2	1250	120/90	105/90	100 (retro 12)	HD+, DEC™ (Disposable Elevator Cap)
ED34-i10cT I-CAP™ Duodenoscope	11.6	4.2	1250	120/90	105/90	100 (retro 12)	HD+, CAP™ (Detachable, Reusable Distal End Cap)
ED34-i10T Video Duodenoscope	11.6	4.2	1250	120/90	105/90	100 (retro 10)	HD+, Detachable Distal End Cap

### Endoscopic Ultrasound (EUS) Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EG34-J10U Ultrasound Video Gastroscope	11.6	2.8	1250	160/130	120/120	120	Convex, RTE**, dCHI***, Frequency (MHz) 5–13, Scan angle (°) 150
EG38-J10UT Ultrasound Video Gastroscope	12.8	4.0	1250	160/130	120/120	120	Convex, RTE**, dCHI***, Frequency (MHz) 5–13, Scan angle (°) 150
EG36-J10UR Ultrasound Video Gastroscope	12.1	2.4	1250	150/70	70/70	140	Radial, RTE**, dCHI*** Frequency (MHz) 5–13, Scan angle (°) 360

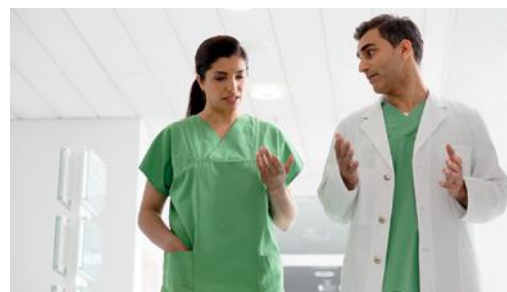
### Processor IMAGINA

Product	Light Source	Advanced imaging modalities	Video Output	Digital Input	Printer-specific output	User Interface	Digital Zoom	Dimensions (W x H x D / weight)
EPK-i5500c IMAGINA Video Processor with i-scan and LED Technology	LED (built into the endoscope, not into the processor)	Digital image enhancement (SE, CE, TE)	DVI, VGA	DVI	Y/C	7 inch customizable, smartphone-like touchscreen	Up to x 2.0	400 x 172.6 x 471mm / 13kg

### Processor INSPIRA

Product	Light Source	Advanced modalities	Digital Output	Analog Output	User Interface	Digital Zoom	Image Enhancement	Freeze scan	Red Density	Compatible video endoscopes	Dimensions (W x H x D / weight)
EPK-i8020c INSPIRA™ Video Processor	LED	Digital and optical enhancement (IE/OE)	DVI, 3G-SDI, HD-SDI, 12G-SDI (4K)	Y/C	7 inch customizable touchscreen with individual profile setting	Yes	i-scan (Surface Enhancement, Contrast Enhancement, Tone Enhancement), OE-Optical Enhancement (Mode 1 & 2); Auto-HDR; D-Range expansion	Yes	Yes***	90K, 90i, J10, i10, i10c and i20c series; Not all models are compatible. For details, contact your local PENTAX Medical service facility.	400 x 205 x 520 mm, 24 kg

# Biliopancreatic



## Diagnostic and standard therapeutics

### ERCP Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
ED34-i10T2 Video DEC™ Duodenoscope	11.6	4.2	1250	120/90	105/90	100 (retro 10)	HD+, DEC™ (Disposable Elevator Cap)
ED32-i10 Video Slim DEC™ Duodenoscope	10.8	3.2	1250	120/90	105/90	105 (retro 15)	HD, DEC™ (Disposable Elevator Cap)
ED34-i10cT2 I-DEC™ Duodenoscope	11.6	4.2	1250	120/90	105/90	100 (retro 12)	HD+. DEC™ (Disposable Elevator Cap)
ED34-i10cT I-CAP™ Duodenoscope	11.6	4.2	1250	120/90	105/90	100 (retro 12)	HD+, CAP™ (Detachable, Reusable Distal End Cap)
ED34-i10T Video Duodenoscope	11.6	4.2	1250	120/90	105/90	100 (retro 10)	HD+, Detachable Distal End Cap

### Endoscopic Ultrasound (EUS) Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EG34-J10U Ultrasound Video Gastroscope	11.6	2.8	1250	160/130	120/120	120	Convex, RTE*, dCHI**, Frequency (MHz) 5–13, Scan angle (°) 150
EG38-J10UT Ultrasound Video Gastroscope	12.8	4.0	1250	160/130	120/120	120	Convex, RTE*, dCHI**, Frequency (MHz) 5–13, Scan angle (°) 150
EG36-J10UR Ultrasound Video Gastroscope	12.1	2.4	1250	150/70	70/70	140	Radial, RTE*, dCHI**, Frequency (MHz) 5–13, Scan angle (°) 360

### Processor IMAGINA

Product	Light Source	Advanced imaging modalities	Video Output	Digital Input	Printer-specific output	User Interface	Digital Zoom	Dimensions (W x H x D / weight)
EPK-i5500c IMAGINA Video Processor with i-scan and LED Technology	LED (built into the endoscope, not into the processor)	Digital image enhancement (SE, CE, TE)	DVI, VGA	DVI	Y/C	7 inch customizable, smartphone-like touchscreen	Up to x 2.0	400 x 172.6 x 471mm / 13kg

### Processor INSPIRA

Product	Light Source	Advanced modalities	Digital Output	Analog Output	User Interface	Digital Zoom	Image Enhancement	Freeze scan	Red Density	Compatible video endoscopes	Dimensions (W x H x D / weight)
EPK-i8020c INSPIRA™ Video Processor	LED	Digital and optical enhancement (IE/OE)	DVI, 3G-SDI, HD-SDI, 12G-SDI (4K)	Y/C	7 inch customizable touchscreen with individual profile setting	Yes	i-scan (Surface Enhancement, Contrast Enhancement, Tone Enhancement), OE-Optical Enhancement (Mode 1 & 2); Auto-HDR; D-Range expansion	Yes	Yes***	90K, 90i, J10, i10, i10c and i20c series; Not all models are compatible. For details, contact your local PENTAX Medical service facility.	400 x 205 x 520 mm, 24 kg

# Biliopancreatic



## Basic diagnosis and treatment

### ERCP Endoscope

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
ED32-i10 Video Slim DEC™ Duodenoscope	10.8	3.2	1250	120/90	105/90	105 (retro 15)	HD, DEC™ (Disposable Elevator Cap)

### Endoscopic Ultrasound (EUS) Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Tip angulation right/left (°)	Field of view (°)	Remarks
EG34-J10U Ultrasound Video Gastroscope	11.6	2.8	1250	160/130	120/120	120	Convex, RTE*, dCHI**, Frequency (MHz) 5–13, Scan angle (°) 150
EG38-J10UT Ultrasound Video Gastroscope	12.8	4.0	1250	160/130	120/120	120	Convex, RTE*, dCHI**, Frequency (MHz) 5–13, Scan angle (°) 150
EG36-J10UR Ultrasound Video Gastroscope	12.1	2.4	1250	150/70	70/70	140	Radial, RTE*, dCHI**, Frequency (MHz) 5–13, Scan angle (°) 360

### Processor IMAGINA

Product	Light Source	Advanced imaging modalities	Video Output	Digital Input	Printer-specific output	User Interface	Digital Zoom	Dimensions (W x H x D / weight)
EPK-i5500c IMAGINA Video Processor with i-scan and LED Technology	LED (build into the endoscope, not into the processor)	Digital image enhancement (SE, CE, TE)	DVI, VGA	DVI	Y/C	7 inch customizable, smartphone-like touchscreen	Up to x 2.0	400 x 172.6 x 471 mm / 13kg

### Processor INSPIRA

Product	Light Source	Advanced modalities	Digital Output	Analog Output	User Interface	Digital Zoom	Image Enhancement	Freeze scan	Red Density	Compatible video endoscopes	Dimensions (W x H x D / weight)
EPK-i8020c INSPIRA™ Video Processor	LED	Digital and optical enhancement (IE/OE)	DVI, 3G-SDI, HD-SDI, 12G-SDI (4K)	Y/C	7 inch customizable touchscreen with individual profile setting	Yes	i-scan (Surface Enhancement, Contrast Enhancement, Tone Enhancement), OE-Optical Enhancement (Mode 1 & 2); Auto-HDR; D-Range expansion	Yes	Yes***	90K, 90i, J10, i10, i10c and i20c series; Not all models are compatible. For details, contact your local PENTAX Medical service facility.	400 x 205 x 520 mm, 24 kg

# Biliopancreatic



## Peripherals and Accessories

### Recommended Leak Tester

Product	Remarks
SHA-P6 Automatic Leakage Tester	

### Recommended Trolleys

Product	Remarks
Classic Cart with Insulation Transformer	

### Recommended Monitor

Product	Remarks
27" Radiance Ultra Monitor NDS	
4K Monitor premium performance (ADLINK)	

### Accessories

Product	Remarks
OE-A65 Sterile Disposable Elevator Cap (DEC™)	To be used with ED32-i10 Video DEC™ Duodenoscope
OE-A63 Sterile Disposable Elevator Cap (DEC™)	To be used with ED34-i10T2 Video DEC™ Duodenoscope
OE-A55 Detachable Distal-End Cap	To be used with ED34-i10T Video Duodenoscope

### Pumps

Product	Remarks
EGA-500 - irrigation pump	
EGA-501 - CO <sub>2</sub> insufflator	
Senator30 - suction pump	

## Electrosurgery

### Main Units

Product	Remarks
ARC PLUS Unit for ARC 400	
ENDO ARC Electrosurgical Unit	
ENDO PLUS Unit for ENDO ARC	
Fuego Basic Trolley II	

### Basic Accessories for ENDO ARC

Product	Remarks
Monopolar Cable Endoscopy 2,8 mm Socket 4 mm	
Single Use Cable Return Plate 4,5 m	
Split Neutral Electrode, 90 cm <sup>2</sup> , EASY (100 pieces)	

### Basic Accessories for ARC 400

Product	Remarks
Monopolar Cable Endoscopy 2,8 mm Socket Comfort	
Single Use Cable Return Plate 4,5 m	
Split Neutral Electrode, 110 cm <sup>2</sup> , EASY (100 pieces)	

### Consumables for ENDO PLUS and ARC PLUS

Product	Remarks
Set of Sterile Filters (50 pieces)	
Cable for Flexible Argon Probe Comfort 2,5 m (Reusable)	
Flexible Argon Probe, Ø 2,3 mm, 2,2 m (10 pieces)	
Flexible Argon Probe, Ø 3,2 mm, 2,2 m (10 pieces)	
Flexible Argon Probe, Ø 1,5 mm, 3 m (10 pieces)	
Flexible Argon Probe, Ø 2,3 mm, 3 m (10 pieces)	
Flexible Argon Probe, 90°, Ø 2,3 mm, 2,2 m (10 pieces)	

# Pulmonology



## Advanced diagnosis and treatment

### Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Field of view (°)	Remarks
EB11-J10 Video Bronchoscope	3.9	1.2	600	210/130	120	HD, STERRAD® compatible
EB15-J10 Video Bronchoscope	5.2	2.0	600	210/130	120	HD, STERRAD® compatible
EB19-J10 Video Bronchoscope	6.4	2.8	600	180/130	120	HD, STERRAD® compatible
EB19-J10U Ultrasound Video Bronchoscope	6.3	2.2	600	120/90	100	Convex, Frequency [MHz] 5-13**, Scan angle 75°, RTE*

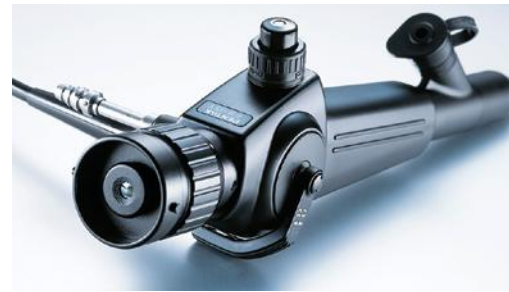
### Processors

EPK-i7010 OPTIVISTA plus Video Processor with i-scan and i-scan OE	
Light source	300W Xenon
Advanced imaging modalities	Digital image enhancement (i-scan SE, CE, TE) Optical image enhancement (i-scan OE)
Digital output	HD-SDI, DVI
Analog outputs	RGB, S-Video, composite video
User interface	Touch screen, TwinMode
Digital zoom	yes
Dimensions (W x H x D)	400 x 205 x 520 mm

EPK-3000 DEFINA Video Processor with i-scan	
Light source	150W Xenon
Advanced imaging modalities	Digital image enhancement (i-scan SE, CE, TE)
Digital output	DVI-D
Analog outputs	RGB, Y/C, composite
User Interface	Control panel, keyboard
Digital Zoom	yes
Dimensions (W x H x D)	350 x 180 x 485 mm

\*Real-time Tissue Elastography

\*\*For details on frequency, refer to the instructions for use provided with the ultrasound scanning unit



## Basic diagnosis and treatment

### Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Field of view (°)	Remarks
FB-8V Fiber Bronchoscope	2.8	1.15	600	180/130	100	Suction Control Valve
FB-15V Fiber Bronchoscope	4.9	2.1	600	180/130	120	Suction Control Valve
FB-18V Fiber Bronchoscope	6.0	2.7	600	180/130	120	Suction Control Valve
FB-19TV Fiber Bronchoscope	6.2	3.0	600	180/130	120	Suction Control Valve
FB-15RBS Portable Fiber Bronchoscope	4.9	1.95	600	180/130	100	Portable, LSV Solutions (Light Source Versatility), Plastic Suction Control Valve
FB-18RBS Portable Fiber Bronchoscope	6.0	2.55	600	180/90	100	Portable, LSV Solutions (Light Source Versatility), Plastic Suction Control Valve

### Light Source

BS-LL1 LED Light Source Battery-type - for BS series only

Dimensions	32 mm (W) × 32 mm (H) × 88 mm (D)
Weight	0.11 kg
Power supply	Lithium Battery 3V DC
Power consumption [W]	250 mW max.
Lamp	White LED

# Pulmonology



## Peripherals and Accessories

### Recommended Leak Tester

Product	Remarks
SHA-P6 Automatic Leakage Tester	

### Recommended Trolley

Product	Remarks
Classic Cart with Insulation Transformer	

### Recommended Monitor

Product	Remarks
27" Radiance Ultra Monitor NDS	

### Accessories

Product	Remarks
OF-B205 Single Use Suction Control Valves (10 pieces)	To be used with EB11-J10, EB15-J10, EB19-J10 and EB19-J10U



# Intubation



## Advanced diagnosis and treatment

### Endoscope

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Field of view (°)	Remarks
EB11-J10 Video Bronchoscope	3.9	1.2	600	210/130	120	HD, STERRAD® compatible
EB15-J10 Video Bronchoscope	5.2	2.0	600	210/130	120	HD, STERRAD® compatible
EB19-J10 Video Bronchoscope	6.4	2.8	600	180/130	120	HD, STERRAD® compatible

### Processor

EPK-3000 DEFINA Video Processor with i-scan

Light source	150W Xenon
Advanced imaging modalities	Digital image enhancement (i-scan SE, CE, TE)
Digital output	DVI-D
Analog output	RGB, Y/C, composite
User Interface	Control panel, keyboard
Digital Zoom	yes
Dimensions (W x H x D)	350 x 180 x 485 mm

# Intubation



## Basic diagnosis and treatment

### Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Field of view (°)	Remarks
FI-7RBS Portable Fiber Intubation Scope	2.4	-	600	130/130	95	portable, LSV (Light Source Versatility) Solution
FI-9RBS Portable Fiber Intubation Scope	3.1	1.15	600	130/130	90	portable, LSV (Light Source Versatility) Solution, Suction Control Valve
FI-10RBS Portable Fiber Intubation Scope	3.5	1.31	600	130/130	90	portable, LSV (Light Source Versatility) Solution, Suction Control Valve
FI-13RBS Portable Fiber Intubation Scope	4.2	1.72	600	160/130	95	portable, LSV (Light Source Versatility) Solution, Suction Control Valve
FI-16RBS Portable Fiber Intubation Scope	5.2	2.55	600	160/130	95	portable, LSV (Light Source Versatility) Solution, Suction Control Valve

### Light Source

BS-LL1 LED Light Source Battery-type - for BS series only

Dimensions	32 mm (W) × 32 mm (H) × 88 mm (D)
Weight	0.11 kg
Power supply	Lithium Battery DC3V
Power consumption	250 mW max.
Lamp	White LED

# Intubation



## Peripherals and Accessories

### Recommended Leak Tester

Product	Remarks
SHA-P6 Automatic Leakage Tester	

### Recommended Trolley

Classic Cart with Insulation Transformer	
Weight [kg]	70
Dimensions - H x W x D [mm]	1309 x 614 x 625
Cart load capacity	150

### Recommended Monitor

Product	Remarks
27" Radiance Ultra Monitor	



## Advanced diagnosis and treatment

### Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Field of view (°)	Remarks
VNL8-J10 Video Naso-Pharyngo-Laryngoscope	2.9	-	300	130/130	80	HD, STERRAD® compatible
VNL11-J10 Video Naso-Pharyngo-Laryngoscope	3.6	-	300	130/130	80	HD, STERRAD® compatible
VNL15-J10 Video Naso-Pharyngo-Laryngoscope	4.9	2.0	300	130/130	80	HD, STERRAD® compatible

### Processor

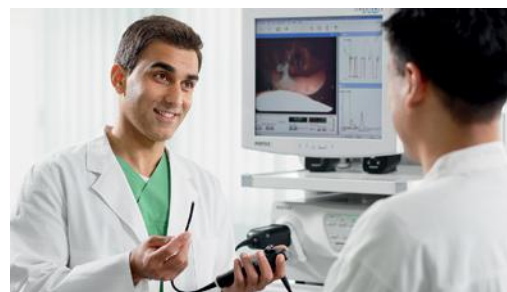
EPK-i7010 OPTIMISTA plus Video Processor with i-scan and i-scan OE	
Light source	300W Xenon
Advanced imaging modalities	Digital image enhancement (i-scan SE, CE, TE) Optical image enhancement (i-scan OE)
Digital output	HD-SDI, DVI
Analog output	RGB, S-Video, composite video
User interface	Touch screen, TwinMode
Digital zoom	yes
Dimensions (W x H x D)	400 x 205 x 520 mm

### Light Source

Product	Remarks
Laryngeal Strobe	

### Digital Capturing Module

KAY9372HD Digital Capture	
Product Name	9372HD Digital Capture
Processor and Memory	Intel® Core™ i7 CPU 2.6 GHz; 16GB system RAM
Storage	Four removable hard drives (1 TB each); internal hard drive (1 TB)
Operating System	Microsoft® Windows 10 and Microsoft® Word for reports
Additional Hardware	DVD+RW drive with CD-R/RW writing capability
Connectivity	DICOM (option)
Software	Video and audio capture, processing, and playback; patient examination database management features; printing
Fluoroscopy	Optional scan converter allows conversion of various and specialized input video formats to standard formats for recording and processing
Dimensions (W x H x D / weight)	211 x 444 x 495mm / 13.7kg



## Diagnostic and standard therapeutics

### Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Field of view (°)	Remarks
VNL8-J10 Video Naso-Pharyngo-Laryngoscope	2.9	-	300	130/130	80	HD, STERRAD® compatible
VNL11-J10 Video Naso-Pharyngo-Laryngoscope	3.6	-	300	130/130	80	HD, STERRAD® compatible
VNL15-J10 Video Naso-Pharyngo-Laryngoscope	4.9	2.0	300	130/130	80	HD, STERRAD® compatible
VNL9-CP VIVIDEO Video Naso-Pharyngo- Laryngoscope	3.3	-	300	120/120	90	Only compatible with CP-1000 Video processor

### Processors

#### EPK-3000 DEFINA Video Processor with i-scan

Light source	150W Xenon
Advanced imaging modalities	Digital image enhancement (i-scan SE, CE, TE)
Digital output	DVI-D
Analog output	RGB, Y/C, composite
User Interface	Control panel, keyboard
Digital Zoom	yes
Dimensions (W x H x D)	350 x 180 x 485 mm

#### CP-1000 VIVIDEO Video Processor

Video output	DVI-D, VGA
Image Format	SXGA [1280 x 1024@60p], XGA [1024 x 768@60p], 720p [1280 x 720@60p] HDTV, 1080p [1920 x 1080@30p] HDTV
Image Recording	Integrated function, external USB storage device
Dimensions (W x H x D)	75 x 340 x 380 mm

### Digital Capturing Module

#### 9372HD Digital capture model

Processor and Memory	Intel® Core™ i7 CPU 2.6 GHz; 16GB system RAM
Storage	Four removable hard drives (1 TB each); internal hard drive (1 TB)
Operating System	Microsoft® Windows 10 and Microsoft® Word for reports
Additional Hardware	DVD+RW drive with CD-R/RW writing capability
Connectivity	DICOM (option)
Software	Video and audio capture, processing, and playback; patient examination database management features; printing
Flouroscopy	Optional scan converter allows conversion of various and specialized input video formats to standard formats for recording and processing
Dimensions (W x H x D / weight)	211 x 444 x 495mm / 13.7kg

### Stroboscope Light Source

Product	Remarks
Laryngeal Strobe 9400	Xenon (strobe) light source with automatic brightness control, fundamental frequency triggering via laryngeal microphone, two speeds of vocal fold display, and interface to PENTAX Medical Digital Capture Module.



## Basic diagnosis and treatment

### Endoscopes

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Field of view (°)	Remarks
FNL-7RP3 Fiber Naso-Pharyngo-Laryngoscope	2.4	-	300	130/130	75	
FNL-10RP3 Fiber Naso-Pharyngo-Laryngoscope	3.5	-	300	130/130	75	
FNL-10RBS Fiber Naso-Pharyngo-Laryngoscope	3.5	-	300	130/130	85	portable

### Light Source

Product	Remarks
BS-LL1 LED Light Source Battery-type	



## Peripherals and Accessories

### Recommended Leak Tester

Product	Remarks
SHA-P6 Automatic Leakage Tester	

### Recommended Trolleys

Product	Remarks
Cart for VIVIDEO with Insulation Transformer	
PENTAX SVS Trolley	

### Recommended Monitors

Product	Remarks
21" EndoVue Monitor	
24" EndoVue Monitor	
27" Radiance Ultra Monitor NDS	

### Accessories

Product	Remarks
OF-B205 Single Use Suction Control Valves (10 pieces)	To be used with VNL15-J10

# Urology



## Diagnostic and standard therapeutics

### Endoscope

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Field of view (°)	Remarks
ECY-1575K Video Cystoscope	5.2	2	400	210/130	120	STERRAD® compatible

### Processor

EPK-3000 DEFINA Video Processor with i-scan

Light source	150W Xenon
Advanced imaging modalities	Digital image enhancement (i-scan SE, CE, TE)
Video output	DVI-D
Analog output	RGB, Y/C, composite
User Interface	Control panel, keyboard
Digital Zoom	yes
Dimensions (W x H x D)	350 x 180 x 485 mm



# Urology



## Basic diagnosis and treatment

### Endoscope

Product	Insertion Tube ø (mm)	Min. Instrument Channel ø (mm)	Working Length (mm)	Tip angulation up/down (°)	Field of view (°)	Remarks
FCY-15RBS Fiber Cystoscope	4.9	2.1	400	220/120	125 (A), 83 (W)	portable

### Light Source

Product	Remarks
BS-LL1 LED Light Source Battery-type	

# Urology



## Peripherals and Accessories

### Recommended Leak Tester

Product	Remarks
SHA-P6 Automatic Leakage Tester	

### Recommended Trolley

Product	Remarks
ITD Classic Trolley With Insulation Transformer	

### Recommended Monitors

Product	Remarks
PENTAX ZeroWire G2 Pair, for 27" Monitor	
27" Radiance Ultra Monitor	

# Endoscope automated pre-cleaning, drying and storage



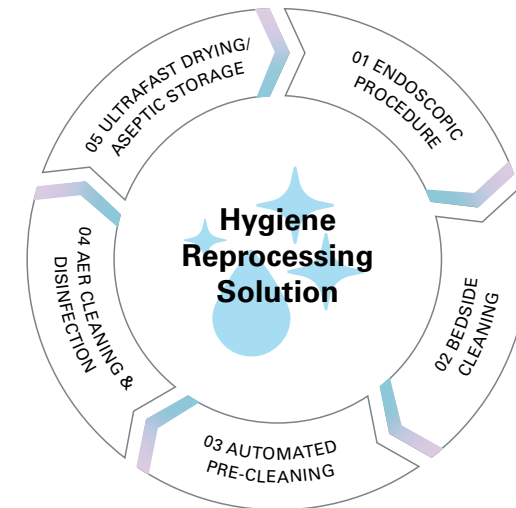
## Automated Brushless Endoscope Channels Pre-Cleaning Solution

### AquaTYPHOON™

Characteristic / Parameter	Value
Reference	AquaTYPHOON
Power supply / electrical network	100-240 V
Maximal power	100W
Frequency	50-60 Hz
Pressure regulator - delivery pressure	0 to 5 bar (75.52 psi)
Medical air inlet pressure	3 bar (43.51 psi)
Minimal gas flowrate	70 l/min
Minimal water inlet pressure	3 bar (43.51 psi)
Dimensions (length / width / height)	300 / 280 / 260 mm (11.8 / 11.0 / 10.2 in)
Net Weight	10.7 kg (16.53 lb)
Ingress protection rating	IPX2

### AquaTYPHOON™ Cycle Times

Endoscope Type	Automated Pre-Cleaning Time
EBUS, bronchoscopes, naso-laryngoscopes, cystoscopes, ureteroscopes	2 min
Gastrointestinal (GI) endoscopes	5 min
EUS endoscopes, twin channel GI endoscopes	7 min



# Endoscope automated pre-cleaning, drying and storage



## Premium Endoscope Drying and Storage Solution

### PlasmaTYPHOON+

Characteristic / Parameter	Value
Reference	TYPHOON+
Power supply / electrical network	110-240V
Frequency	50-60 Hz
Pressure regulator - delivery pressure	0 to 5 bar (72.52 psi)
Medical air inlet pressure	3 bar (43.51 psi)
Minimal gas flowrate	60 l/min
Dimensions (length / width / height)	300 / 280 / 260 mm (11.8 / 11.0 / 10.2 in)
Net Weight	10.7 kg

### PlasmaTYPHOON+ and PlasmaBAG ECO System Cycle Times

Endoscopic Type	Drying Cycle Time	Storage Cycle Time
Ureteroscope, cystoscope	1 min	5 s
Bronchoscope, ultrasound bronchoscope (EBUS), nasolaryngoscope	1 min 30 s	5 s
Gastroscope, duodenoscope, enteroscope, colonoscope	2 min 30 s	5 s
Gastrointestinal ultrasound endoscope (EUS), gastrointestinal endoscope with double operating channel	3 min	5 s
Endoscopes without channels and transeophageal (TEE/TOE) ultrasound probes	-	5 s

### PlasmaTYPHOON

Characteristic / Parameter	Value
Reference	Typhoon V2TD
Power supply / electrical network	220-240V
Frequency	50-60 Hz
Pressure regulator - delivery pressure	0 to 5 bar (72.52 psi)
Medical air inlet pressure	3 bar (43.51 psi)
Minimal gas flowrate	60 l/min
Dimensions (length / width / height)	250 / 250 / 250 mm (9.8 / 9.8 / 9.8 in)
Net Weight	7.5 kg

### PlasmaTYPHOON and PlasmaBAG System Cycle Times

Endoscope Type	Drying Cycle Time	Storage Cycle Time
Pediatric bronchoscope, nasolaryngoscope, ureteroscope, cystoscope (channel diam. <1.5mm)	1 min	5s
Bronchoscope, ultrasound bronchoscope (EBUS), nasolaryngoscope, ureteroscope, cystoscope (channel diam. > 1.5mm)	1 min 30 s	5s
Gastroscope, duodenoscope, enteroscope, colonoscope	2 min 30 s	5s
Gastrointestinal ultrasound endoscope (EUS)	5 min	5s
Endoscopes without channels and transeophageal (TEE/TOE) ultrasound probes	-	5s



This system is fully compatible with all major endoscope brands. PlasmaBAG is a single-use bag specifically designed for endoscope storage up to 31 days<sup>1)</sup>, used in combination with the PlasmaTYPHOON or PlasmaTYPHOON+. Carbon emissions from PlasmaBAG production are compensated in a reforestation project in Togo. The next generation PlasmaBAG is additionally produced from at least 80% recycled plastic and certified with the Blue Angel label.

1) Validated for up to 744 storage hours (31 days) according to NF EN 16442 norm. The maximum storage time may be subject to local regulations on endoscope storage. PlasmaTYPHOON™ and PlasmaBAG™ are registered trademarks of PlasmaBiotics SA. All rights reserved.


### PlasmaBAG

Description	Reference	Characteristics
Standard PlasmaBAG	PBag	size: 60cm x 50cm, packaging: 400 units
XL PlasmaBAG	PBagXL	size: 70cm x 64cm, packaging: 250 units
XXL PlasmaBAG	PBagXXL	size: 84cm x 60cm, packaging: 300 units
PlasmaBAG ECO (Blue Angel certified)	PBag ECO	size: 62cm x 52cm, packaging: 400 units

**Product Compatibility Chart**

Discipline	Market/Application	Endoscope Series	Processors / Lightsources								AquaTYPHOON / PlasmaTYPHOON / PlasmaTYPHOON+ and PlasmaBAG Systems
			EPK-i8020c INSPIRA™	EPK-i7010 OPTIVISTA plus	EPK-3000 DEFINA	EPK-i5500c IMAGINA	EPK-V1500c VERSA	CP-1000 VIVIDEO Video Processor	KAY9372HD Digital Capture	BS-LL1 LED Light Source Battery-type	
Upper GI and Lower GI	Advanced diagnosis and treatment	i20c	X								X
		i10	X	X							X
		K10		X	X						X
		90i	X	X							X
		90K	X*	X	X						X
	Diagnostic and standard therapeutics	i10c	X			X					X
	Basic diagnosis and treatment	V10c					X				X
Biliopancreatic	Advanced diagnosis and treatment	i10, i10c, J10U	X	X							X
	Diagnostic and standard therapeutics	i10c, J10U	X	X	X (J10U)						X
	Basic diagnosis and treatment	i10c, J10U	X	X	X (J10U)						X
Pulmonology	Advanced diagnosis and treatment	i10c, J10, J10U	X	X	X (J10, J10U)						X
	Diagnostic and standard therapeutics	J10, J10U, 70K	X (J10, J10U)	X	X						X
	Basic diagnosis and treatment	V, RBS								X (RBS-series)	X
Intubation	Advanced diagnosis and treatment	70K			X						X
	Basic diagnosis and treatment	RBS								X	X
ENT	Advanced diagnosis and treatment	J10		X	X						X
	Diagnostic and standard therapeutics	J10, CP		J10	J10			CP			X
	Basic diagnosis and treatment	RP3, RBS			X					RBS	X
Urology	Diagnostic and standard therapeutics	75K									X
	Basic diagnosis and treatment	RBS								X	X

\*Limited compatibility

Device	Manufacturer 	EC REP	Notified Body (if applicable) and Medical Device classes
<b>All Others</b>	HOYA Corporation 6-10-1 Nishi-shinjuku, Shinjuku-ku Tokyo 160-0023, Japan	PENTAX Europe GmbH Julius-Vosseler-Str. 104 22527 Hamburg, Germany	TÜV Süd CE0123 Medical Device classes I, Is, Ila, and IIb
<b>Digital Capture 9372HD</b>	PENTAX of America, Inc. 3 Paragon Drive, Montvale NJ 07645, USA	PENTAX Europe GmbH Julius-Vosseler-Str. 104 22527 Hamburg, Germany	Medical Device class I
<b>VERSA System</b>	PENTAX-Aohua Medical Technologies Co. Ltd. East of 3rd Floor, Block C, Building 1, No.5 Sherwang Road, Minhang District, 201108 Shanghai, P.R. China	PENTAX Europe GmbH Julius-Vosseler-Str. 104 22527 Hamburg, Germany	TÜV Rheinland CE0197 Medical Device class Ila
<b>G-EYE® System</b>	Smart Medical Systems Ltd. 5 HaNofar St. Ra'anana 4366404, Israel	MedNet GmbH Borkstraße 10 48163 Münster, Germany	MEDCERT CE0482 Medical Device classes I and Ila
<b>Medical Monitors and PENTAX ZeroWire</b>	NDS Surgical Imaging LLC 5750 Hellyer Avenue San Jose, California 95138, USA	Novanta Europe GmbH Parking 57-59, 85748 Garching, Germany	Medical Device class I
<b>Trolleys</b>	ITD GmbH Sportplatzstraße 3 84381 Johanniskirchen, Germany	—	Medical Device class I
<b>Endo Stratus™ Endoscopic Irrigation Pump and CO<sub>2</sub> Insufflator</b>	Medivators Inc. 14605 28th Ave N, Minneapolis MN 55447, USA	Cantel Medical (Italy) S.r.l., Vai Laurentina, 169, 00040 Pomezia (RM), Italy	NSAI CE0050 Medical Device class Ila
<b>ARC PLUS, ARC 400, ENDO PLUS, ENDO ARC Units, Basic Accessories and Consumables</b>	BOWA-electronic GmbH & Co. KG Heinrich-Hertz-Strasse 4-10 72810 Gomaringen, Germany	—	TÜV Süd CE0123 Medical Device classes I and IIb
<b>Senator 30 Suction Pump</b>	Ardo medical AG Gewerbestraße 19 6314 Unterägeri, Switzerland	Ardo medical GmbH Argelsrieder Feld 10 82234 Oberpfaffenhofen, Germany	TÜV Süd CE0123 Medical Device class Ila
<b>AquaTYPHOON, PlasmaTYPHOON and PlasmaBAG Systems</b>	PLASMABIOTICS SAS 116 Quai de Bezons 95106 Argenteuil Cedex, France	—	Medical Device class I
<b>ENDO PLUS and ARC PLUS filter set</b>	Pall Medical - A Division of Pall International Sàrl Avenue de Tivoli 3, CH-1700 Fribourg, Switzerland	Pall Genedisc Technologies 1 Rue du Courtil Centre d'Affaires Cicea - Bat 1 35170 Bruz, France	ECM CE1282 Medical Device class Ila

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These products must be used only by healthcare professionals. Before usage and for detailed product specifications, please refer to the instructions for use. In the interest of technical process, specifications may change without notice.

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