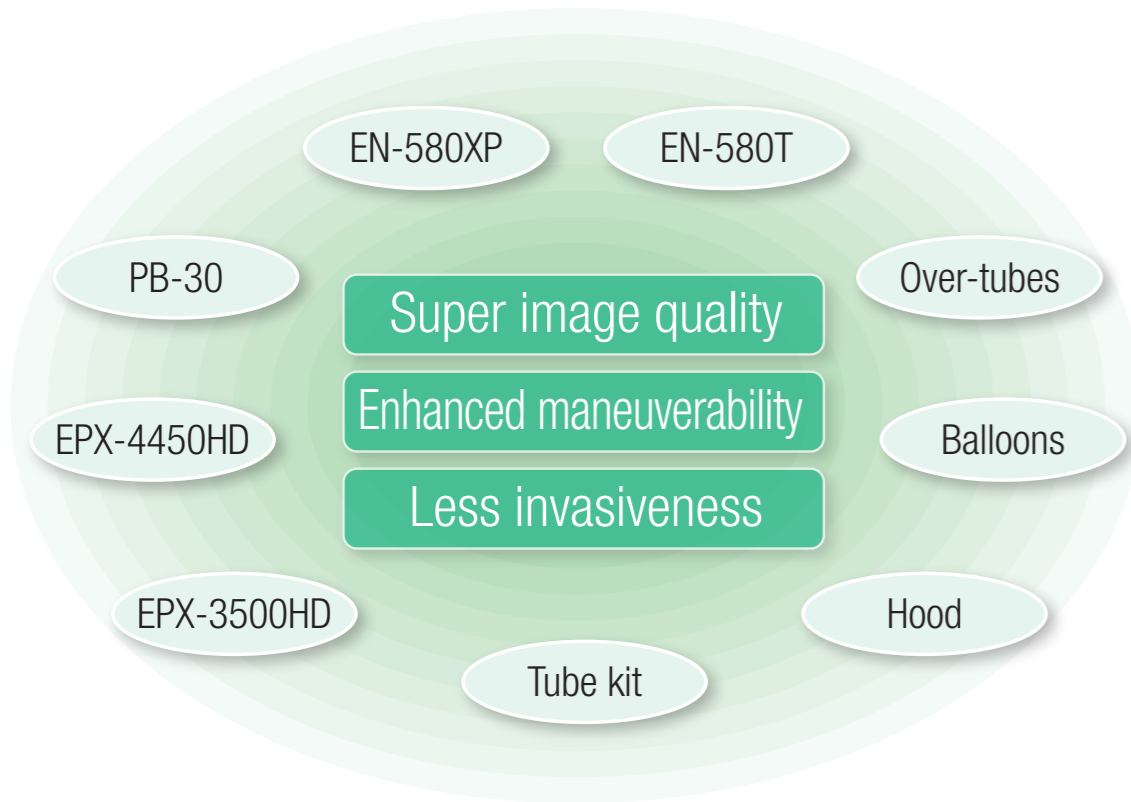
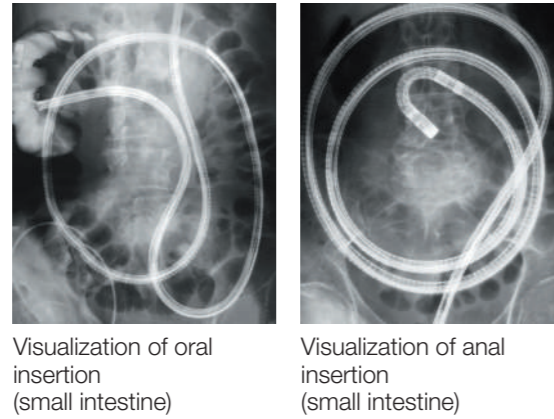


New and improved Double-Balloon Endoscope System

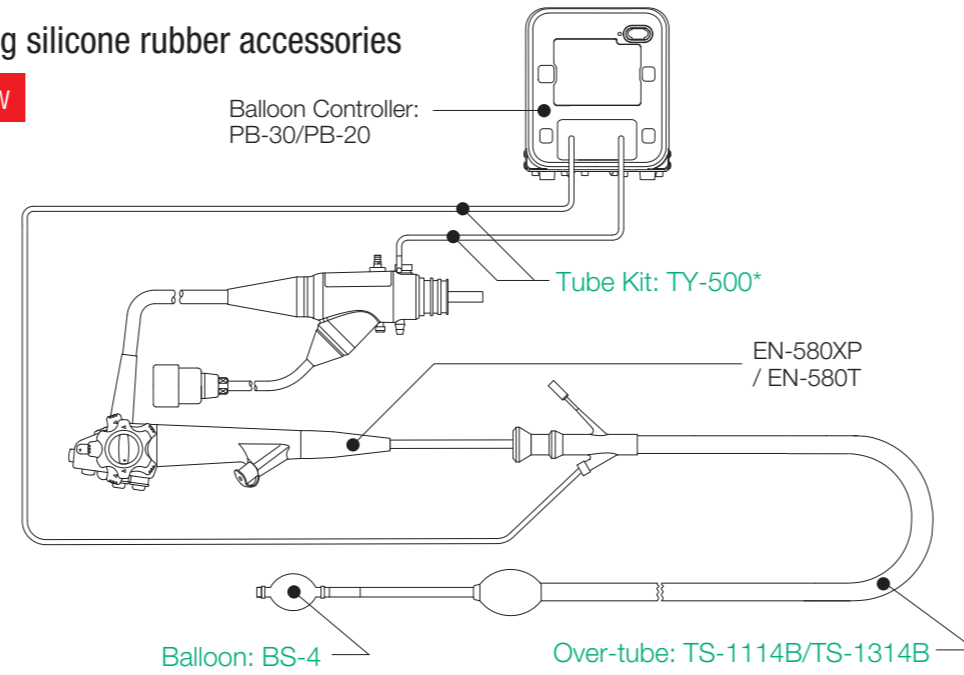
Double-Balloon Endoscopy is a revolutionary technique that allowed the whole length of the small intestine to be visualized, and opened doors to new therapeutic interventions. Fujifilm is proud to introduce the new product line-up of the DBE system developed to meet the clinical needs for more precise and efficient diagnoses and treatment.



System Configuration

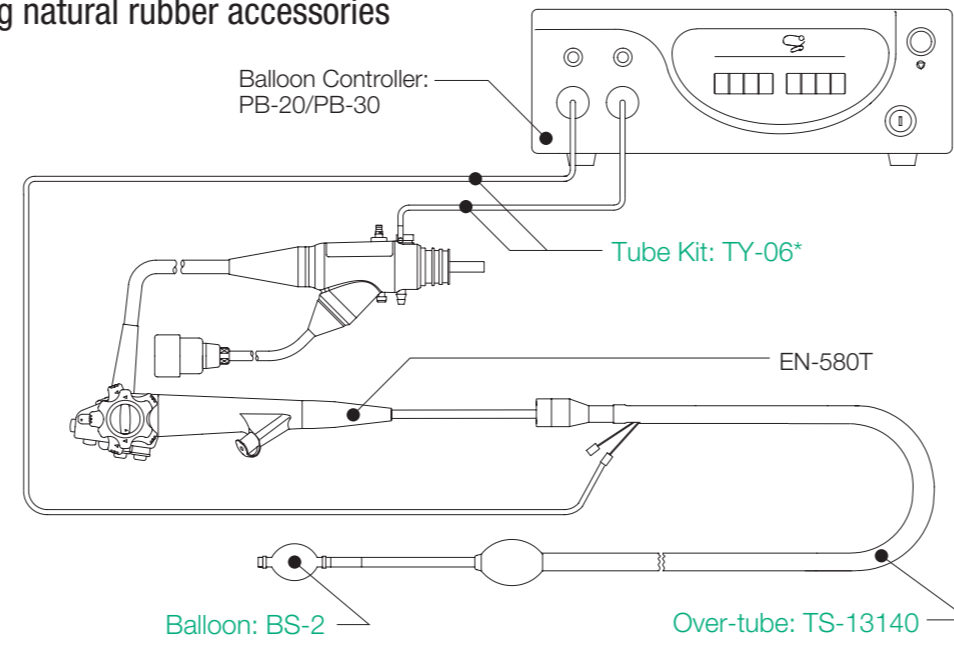
Using silicone rubber accessories

New



* The TY-500 tube kit is used in conjunction with the silicone rubber TS-1114B/TS-1314B over-tube.

Using natural rubber accessories



* The TY-06 tube kit is used in conjunction with the natural rubber TS-13140 over-tube.

* External appearance and specifications are subject to change for reasons of product improvement without notice.
* Read the supplied instruction manual before using the products.

FUJIFILM
Value from Innovation

Double-Balloon Enteroscope

EN-580XP
Slim type

EN-580T
Therapeutic type



FUJIFILM

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<http://www.fujifilm.com/>

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Endoscopes

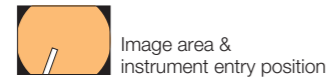
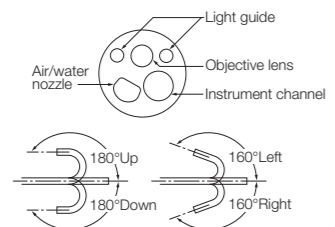
EN-580XP New

Slim type



A new slim-type endoscope with a distal end diameter of 7.5mm, 1mm smaller than the previous model, and an instrument channel diameter of 2.2mm, equivalent to the previous type. The new High Resolution Super CCD ensures vivid and high quality images, and the new optical lens enables the observation range of 2-100mm and a wide-angle 140° field of view. To be used in combination with the new silicone rubber over-tube and balloon.

| Specification | |
|-------------------------------------|---|
| Field of view | 140° |
| Observation range | 2 ~ 100 mm |
| Distal end diameter | 7.5 mm |
| Flexible portion diameter | 7.7 mm |
| Bending capability | Up 180° / Down 180° Right 160° / Left 160° |
| Working length | 2,000 mm |
| Total length | 2,300 mm |
| Minimum instrument channel diameter | 2.2 mm |



Product name: Video Endoscope
GMDN: 36299
Generic name: Flexible video endoscope

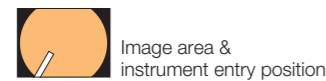
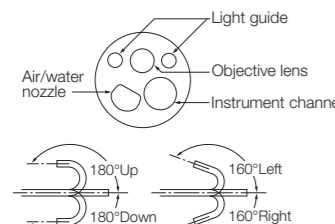
EN-580T

Therapeutic type



Double-balloon endoscope suitable for both observation and treatment. The 3.2mm instrument channel diameter enables improved suction performance and supports a wider variety of procedures including hemostasis and balloon dilatation. The new High Resolution Super CCD ensures vivid and high quality images, and the new optical lens enables the observation range of 2-100mm and a wide-angle 140° field of view.

| Specification | |
|-------------------------------------|---|
| Field of view | 140° |
| Observation range | 2 ~ 100 mm |
| Distal end diameter | 9.4 mm |
| Flexible portion diameter | 9.3 mm |
| Bending capability | Up 180° / Down 180° Right 160° / Left 160° |
| Working length | 2,000 mm |
| Total length | 2,300 mm |
| Minimum instrument channel diameter | 3.2 mm |



Product name: Video Endoscope
GMDN: 36299
Generic name: Flexible video endoscope

EN-450P5/20
(Previous model)

EN-580XP
(Slim type)

EN-580T
(Therapeutic type)



ø 8.5

ø 7.5mm

ø 9.4mm

Instrument channel diameter ø2.2mm

Instrument channel diameter ø3.2mm

Processor and Light Source Unit

EPX-4450HD*1 and EPX-3500HD*2 offer high-resolution endoscopic imaging with improved visibility, thanks to FICE*3(=Flexible spectral Imaging Color Enhancement) and a wide array of other features.

*1 EPX-4450HD: Combination of XL-4450 and VP-4450HD
*2 EPX-3500HD: Combination of XL-4450 and VP-3500HD
*3 FICE: a Fujifilm proprietary image processing technology



XL-4450 Light Source

| | |
|--------------------------|--|
| Lamp rated value | Main lamp: 300W Xenon lamp LMP-002 Emergency lamp: 75W Halogen lamp |
| Light control | Automatic light control |
| Lamp cooling method | Forced air cooling |
| Air supply pump | High, Middle, Low, Off |
| Light save | On, Off |
| Transmitted illumination | On, Off |
| Power rating | 230V±10% 50Hz 1.7A 120V±10% 60Hz 3.3A |
| Dimensions(W×H×D) | 390×155×450mm |
| Weight | 15 kg |

Product name: Light source
GMDN: 35158
Generic name: Endoscopic light source, line-powered

VP-4450HD Processor

| | |
|-------------------|--|
| Digital output | HD-SDI: HDTV 1080i(2ch) DVI(Digital Visual Interface): 1280×1024p Ethernet: 100 / 10Base |
| Analog output | RGB: 1280×1024p SDTV(120V/NTSC, 230V/PAL); RGB, Y/C, Composite |
| Color adjustment | Brightness, Red, Green, Blue, R-Hue, Chroma: 9 steps |
| Detail | High, Low: 9 steps |
| Contrast | 3 steps |
| Hyper-sharpness | High, Middle, Low, Off |
| Color emphasis | High, Middle, Low, Off |
| FICE | Flexible spectral imaging color enhancement 10 presets |
| Iris | Average, Peak, Auto |
| Image storage | CF Card |
| Power rating | 230V 50Hz 0.5A 120V 60Hz 0.8A |
| Dimensions(W×H×D) | 390×105×460mm |
| Weight | 9.5kg |
| DICOM | MWL, Store |

Product name: Processor
GMDN: 18034
Generic name: Endoscopic Video image processor

VP-3500HD Processor

| | |
|--------------------|--|
| Digital output | 2×DVI(1280×1024p or 1920×1080p) |
| Analog output | 1×RGB TV(PAL, RGB+SYNC), 1×S-VIDEO(Y/C), 1×VIDEO(Composite) |
| Control terminal | 2×Remote, 2×Peripheral, 1×Keyboard, 1×Card reader, 1×Aux, 1×Digital printer, 1×Foot switch, 1×Ethernet(100 / 10Base) |
| Color adjustment | Brightness, Red, Green, Blue, R-Hue, Chroma: 9 steps |
| Contrast | 3 steps |
| Structure emphasis | High, Middle, Low, Off |
| Color emphasis | High, Middle, Low, Off |
| FICE | 3 presets(FICE 0, 1, 8) |
| Iris | Average, Peak, Auto |
| Image storage | USB flash drive |
| Power rating | AC100-240V±10% 50 / 60Hz 1.0-0.3A* |
| Dimensions(W×H×D) | 390×105×460mm |
| Weight | 8kg |

Product name: Processor
GMDN: 18034
Generic name: Endoscopic Video image processor

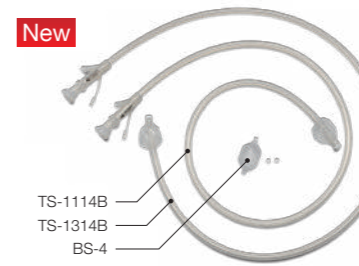
Peripherals and Accessories

TS-1114B / TS-1314B / TS-13140 Over-tube

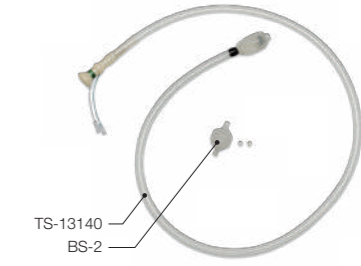
BS-4 / BS-2 Balloon

The exclusively developed silicone rubber balloons and silicone rubber over-tubes ensure stable positioning of the endoscope inside the small intestine.

New



TS-1114B
Product name: Over-tube
GMDN: 46687
Generic name: Endotherapy overtube, single-use
TS-1314B
Product name: Over-tube
GMDN: 46687
Generic name: Endotherapy overtube, single-use
BS-4
Product name: Balloon
GMDN: 45712
Generic name: Gastrointestinal balloon catheter



TS-13140
Product name: Over tube
GMDN: 46687
Generic name: Endotherapy overtube, single-use
BS-2
Product name: Endoscopic accessory
GMDN: 45712
Generic name: Gastrointestinal balloon catheter

| Model name | Over-tube | | |
|-----------------------|------------------------|------------------------|----------------------|
| | TS-1114B | TS-1314B | BS-4 |
| Material of balloon | Silicone rubber | | |
| Dimensions | Outer diameter 11.6 mm | Outer diameter 13.2 mm | Outer diameter 35 mm |
| | Total length 1,450 mm | Total length 1,450 mm | |
| Compatible endoscopes | EN-580XP | EN-580T | EN-580XP / EN-580T |

| Model name | Over-tube | Balloon |
|-----------------------|------------------------|----------------------|
| | TS-13140 | BS-2 |
| Material of balloon | Natural rubber | |
| Dimensions | Outer diameter 13.2 mm | Outer diameter 35 mm |
| | Total length 1,450 mm | |
| Compatible endoscopes | EN-580T | |

DH-17EN

Distal end hood
Hood for EN-580T
therapeutic scope.



ST-05B

Balloon setting tool
To be used to attach balloons onto the endoscope.



ST-10

Fixing rubber setting tool
To be used to attach the fixing rubber to the balloon.



Precaution on use: These products are only to be used by physicians with a sufficient understanding of the clinical techniques, who have received sufficient training for this equipment at a teaching or training facility, and who have mastered the clinical procedures required.

TY-500 New Tube kit

A set of silicone rubber tubes; one to connect the balloon controller to the endoscope (500 series) and one to connect the balloon controller to the silicone rubber over-tube.



TY-06 Tube kit

A set of silicone rubber tubes; one to connect the balloon controller to the endoscope (500 series) and one to connect the balloon controller to the natural rubber over-tube.



PB-30 New Balloon controller

To be used to control the pressures inside the balloons. Balloons are inflated and deflated during DBE examinations.

| | |
|---------------------------|--|
| Power | AC100 to 240V 50/60Hz 0.8A |
| Maximum flow rate of pump | 170ml ±50ml / 10sec |
| Dimensions | 145(W)×170(H)×410(D)mm |
| Weight | 7kg (Main unit), 0.4kg (Remote switch) |

Product name: Balloon controller
GMDN: 46662
Generic name: Catheter-balloon inflator, reusable



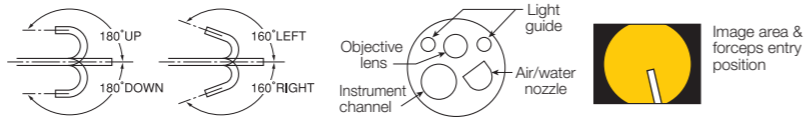
Specification, Accessories

EI-580BT **NEW**

"Short" Double-Balloon Endoscope



| Specification | |
|-----------------------------|---|
| Field of view | 140° |
| Observation range | 2-100mm |
| Bending capability | Up 180° / Down 180° Right 160° / Left 160° |
| Working length | 1,550mm |
| Total length | 1,850mm |
| Distal end diameter | 9.4mm |
| Flexible portion diameter | 9.3mm |
| Instrument channel diameter | 3.2mm |
| Control portion & Connector | G7 & Conventional Connector |



Product name: Video Endoscope
GMDN: 36112
Generic name: Flexible video duodenoscope

Valves for G7 control portion



SB-605 Suction Valve
AW-603 Air/Water Valve
AW-604G Gas/Water Valve

Distal end hood



DH-17EN

Tube kit



TY-06

TS-13101 Over-tube

The over-tube ensures stable positioning of the endoscope inside the intestinal tracts.

| Specification | | |
|---------------------|---|---|
| Model name | Over-tube TS-13101 | Balloon BS-2/4 |
| Material of balloon | Natural Rubber | BS-2: Natural Rubber BS-4: Silicone Rubber |
| Dimensions | Outer diameter 13.2mm Total length 1,050mm | Outer diameter 35mm |



TS-13101
Product name: Over-tube
GMDN: 46687
Generic name: Endotherapy overtube, single-use

BS-2
Product name: Endoscopic accessory
GMDN: 45712
Generic name: Gastrointestinal balloon catheter

BS-4
Product name: Balloon
GMDN: 45712
Generic name: Gastrointestinal balloon catheter

PB-30 Balloon controller

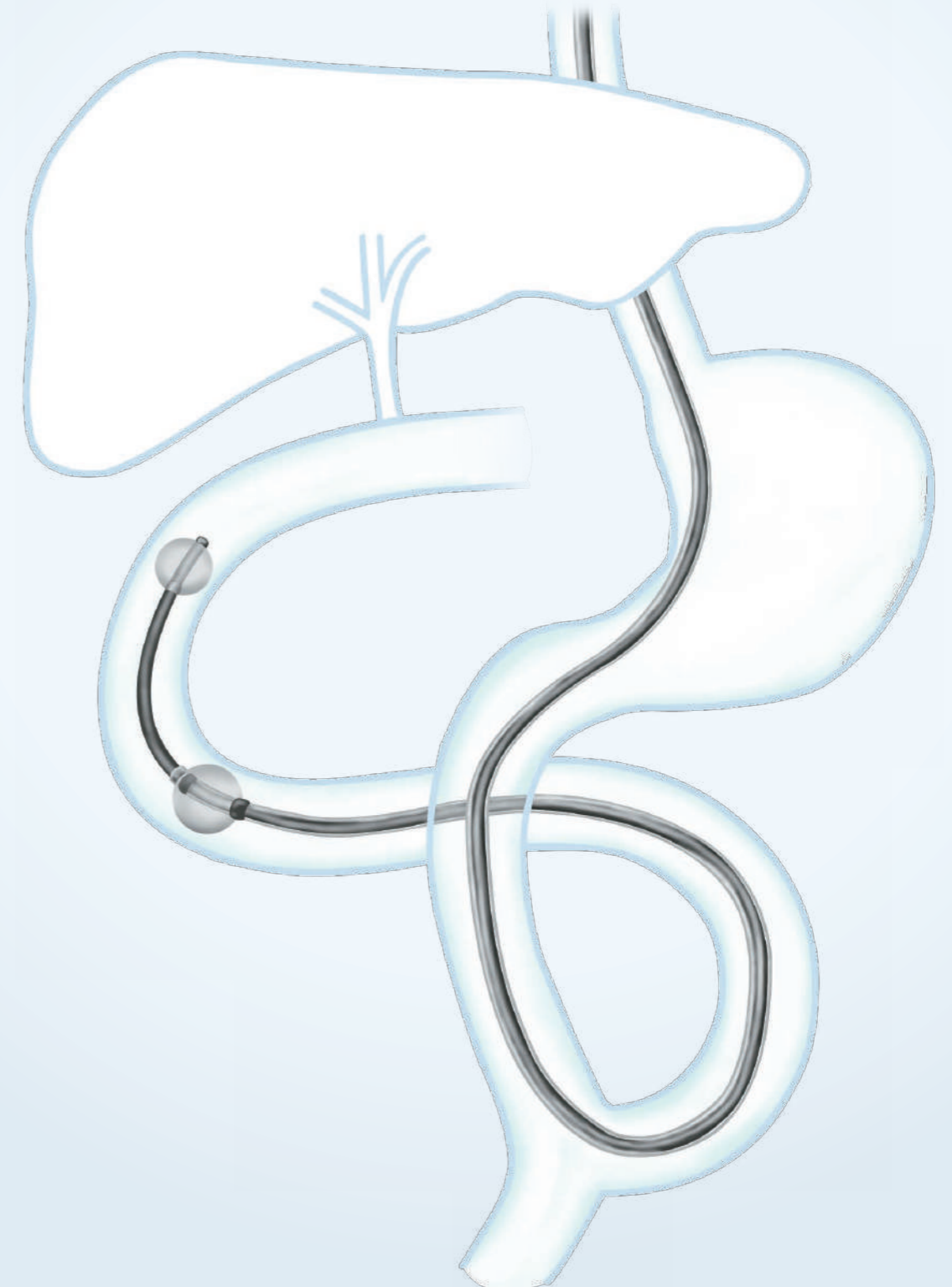
To be used to control the pressures inside the balloons. Balloons are inflated and deflated during ERCP.

| Specification | |
|---------------------------|--------------------------------------|
| Power | AC100 to 240V 50/60Hz 0.8A |
| Maximum flow rate of pump | 170ml ± 50ml/10sec |
| Dimensions | 140(W) x 170(H) x 410(D)mm |
| Weight | 7kg(Main unit), 0.4kg(Remote switch) |



Product name: Balloon controller
GMDN: 46662
Generic name: Catheter-balloon inflator, reusable

"Short" Double-Balloon Endoscope EI-580BT **NEW**



NEW

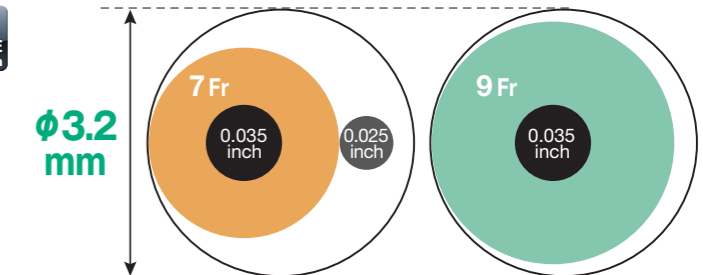
A Paradigm Shift in Biliary Interventions for post surgical anatomy with “Short” Double Balloon Endoscope

EI-580BT, the newly developed “short” Double Balloon Endoscope (sDBE), is engineered to overcome technically challenging therapeutic ERCP procedures in patients with surgically altered anatomy such as Roux-en-Y reconstruction or hepaticojejunostomy anastomosis.

The “short” Double Balloon Endoscope’s length of 155cm is optimum in such treatment; it provides compatibility with most of standard ERCP devices as well as superior maneuverability for smoother insertion in complex anatomy. FUJIFILM has brought less invasive endoscopic interventions to the another level with this new sDBE.

3.2mm Instrument Channel

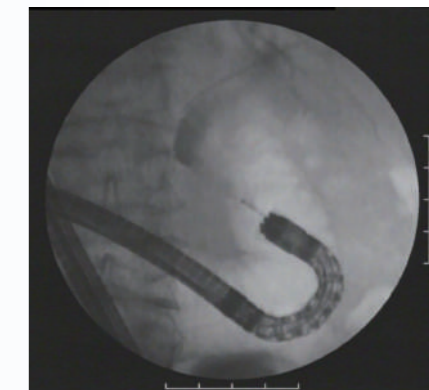
The larger instrument channel offers wider variety of procedural options, smoother device insertion and better suction ability for efficient treatment.



Small Turning Radius

EI-580BT assists precise access to target point with its improved angle maneuverability.

- Increases effect of jiggling and shaking technique in advancing in the altered anatomy.
- Realizes stable coaxial alignment of device tip and bile duct without elevator function.

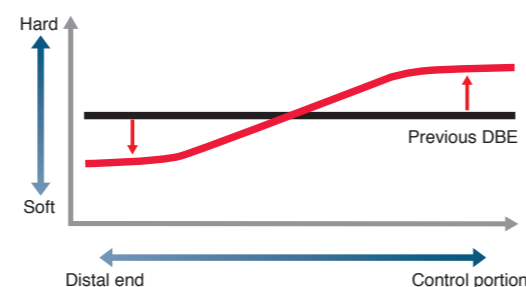


Improved flexible portion

With the newly developed flexible portion as well as two balloons, EI-580BT is designed to assist smooth insertion in complex reconstructed intestine.

Advanced Force Transmission

- Enhances procedural control in looped position, allowing stable scope maneuverability with responsive torque.
- Better transmits pushing force even in tortuous anatomy.



Adaptive Bending

- Enables easy insertion into the afferent limb with the soft flexible end portion.
- Supports deeper insertion even through post surgical adhesions of the intestinal tracts.

