Single Use Cannula V

StarTip™

Single Use Cannula V

X-Press™
The Innovative V-System Exchange Capability Makes Olympus' ERCP Cannulae Even More Efficient

The V-System is a complete system that integrates Olympus endoscopes and EndoTherapy devices. The revolutionary V-System design offers the option of guidewire manipulation by the physician or the assistant, allows easier exchange of catheters, and enhances cannulation capability.

C-Hook
Now endoscopists have the option to manipulate guidewires and devices.

The convenient C-Hook allows the device handle to be attached to the endoscope's control section, putting it within easy reach of the endoscopist. With the device handle right at hand, the endoscopist can manipulate the guidewire, inject contrast media, and manipulate the handle — all while keeping a grip on the scope control section.

V-Marking
Indicates when to raise and lower the V-Groove forceps elevator.

The exclusive V-Marking is located on the proximal side of the sheath. When this marking reaches the channel port on the scope's control section, it indicates that the device tip has reached the distal end of the scope and the V-Groove forceps elevator may be lowered. When withdrawing the device from the scope, the same marking indicates when to raise the elevator to lock the guidewire.

Excellent visibility under fluoroscopy
The platinum marking at the distal end ensures that the tip is clearly visible under fluoroscopy.

Wide selection of cannulae
A full line-up of 8 models of different tip designs and diameters is available to meet every clinical requirement.

Smooth cannulation of even minor or constricted papilla
The X-PressV's cross-cut round tip is not only ideally suited for smooth cannulation of the papilla of Vater, but is also equally effective for cannulation of the minor or constricted papilla.

Expanded guidewire compatibility
Compatible with guidewires of various sizes.

Comprehensive distal marking system
Cannulation depth is indicated by markings at 3mm intervals at the distal end.

Single-use design for convenience and reliability
All the cannulae in this line are designed for single use only.

The Innovative V-System Design Lets You Proceed with Confidence and Efficiency

The V-System is a complete system that integrates Olympus endoscopes and EndoTherapy devices. The revolutionary V-System design offers the option of guidewire manipulation by the physician or the assistant, allows easier exchange of catheters, and enhances cannulation capability.

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Cannulation depth is indicated by markings at 3mm intervals at the distal end.

Single-use design for convenience and reliability
All the cannulae in this line are designed for single use only.
<table>
<thead>
<tr>
<th>Model</th>
<th>Shape of the distal end</th>
<th>Distal tip diameter</th>
<th>Portion Diameter</th>
<th>Working length</th>
<th>Compatible guidewire</th>
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<tr>
<td>PR-V414Q</td>
<td>Short taper</td>
<td>4.5Fr</td>
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<td>PR-V418Q</td>
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<td>Long taper</td>
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<td>Slit</td>
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<td>PR-V434Q</td>
<td>Taper</td>
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<tr>
<td>PR-V435Q</td>
<td>Taper</td>
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<tr>
<td>PR-V223Q</td>
<td>Ball Tip</td>
<td>6.0Fr</td>
<td></td>
<td></td>
<td>0.89mm(0.035inch)</td>
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Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.
Single Use 3-Lumen Extraction Balloon V
The guidewire and injection lumens are separated to ensure smoother passage of the guidewire. Additionally, contrast media can be injected without removing the guidewire. Two models are available — one with the injection port located above the balloon and the other with the injection port located below the balloon.

Triple-lumen design allows for easy passage of the guidewire. The balloon catheter sheath is manufactured from a special material that allows for improved insertion into the papilla, ensuring smoother guidewire passage, and facilitating contrast injection. The tapered design — 7 Fr. catheter at the proximal end tapers to 5 Fr. at the distal end — enables an easy approach to the bile duct and accommodates a 0.035" guidewire.

Easier cannulation and tapered sheath design

Multiple balloon sizing

The balloon can be inflated to one of three diameters— 8.5mm, 11.5mm, and 15mm. The balloon size can be easily adjusted to suit the requirements and conditions of each case so there is no need to change catheters during the procedure.

The Innovative V-System Design Lets You Proceed with Confidence and Efficiency

The V-System is a complete system that integrates Olympus endoscopes and EndoTherapy devices. The revolutionary V-System design offers the option of guidewire manipulation by the physician or the assistant, allows easier exchange of catheters, and enhances cannulation capability.

C-Hook

Now endoscopists have the option to manipulate guidewires and devices. The convenient C-Hook allows the device handle to be attached to the endoscope's control section, putting it within easy reach of the endoscopist. With the device handle right at hand, the endoscopist can maneuver the guidewire, inject contrast media, and manipulate the handle — all while keeping a grip on the scope control section.

V-Marking

Indicates when to raise and lower the V-Groove forceps elevator. The exclusive V-Marking is located on the proximal side of the sheath. When this marking reaches the channel port on the scope's control section, it indicates that the device tip has reached the distal end of the scope and the V-Groove forceps elevator may be lowered. When withdrawing the device from the scope, the same marking indicates when to raise the elevator to lock the guidewire.

V-Sheath

Device control by the endoscopist or the assistant. The V-Sheath allows the endoscopist complete device control or, if preferred, device control may be given to the assistant. The unique device design allows the guidewire sheath and injection sheath/handle to be separated. This forked sheath design allows either the endoscopist or the assistant to control the device.

V-System device replacement procedure

Confirm the position of the V-Marking on the V-System EndoTherapy accessory. When the V-Marking is completely visible above the instrument channel port, lift the forceps elevator to lock the guidewire. The guidewire is now locked into the V-Groove. Completely remove the device.
The guidewire and injection lumens are separated to ensure smoother passage of the guidewire. Additionally, contrast media can be injected without removing the guidewire. Two models are available — one with the injection port located above the balloon and the other with the injection port located below the balloon.

Triple-lumen design allows for easy passage of the guidewire. The guidewire and injection lumens are separated to ensure smoother passage of the guidewire. Additionally, contrast media can be injected without removing the guidewire. Two models are available — one with the injection port located above the balloon and the other with the injection port located below the balloon.

Multiple balloon sizing
The balloons can be inflated to one of three diameters — 8 mm, 11 mm, and 15 mm. The balloons can be easily adjusted to suit the requirements and conditions of each case to ensure no need to change catheters during the procedure.

Easier cannulation and tapered sheath design
The balloon catheter sheath is manufactured from a special material that allows for easier cannulation, exchange and injection of contrast media. The tapered design — 7 Fr. catheter at the proximal end tapers to 5 Fr. at the distal end — enables an easy approach to the bile duct and accommodates a 0.035˝ guidewire.

Reliable, Efficient Stone Extraction with the Multi-Size Balloon Design, Three Pre-Measured Syringes, and The Sheath is Manufactured from a Special Material That Allows for Easier Cannulation, Exchange and Injection of Contrast Media.
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>B-V231P-A</th>
<th>B-V231P-B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Injection port</strong></td>
<td>Above</td>
<td>Below</td>
</tr>
<tr>
<td><strong>Balloon diameter</strong></td>
<td>8.5mm/11.5mm/15.0mm</td>
<td>8.5mm/11.5mm/15.0mm</td>
</tr>
<tr>
<td><strong>Sheath</strong></td>
<td>Distal end 5.5Fr/Proximal end 7Fr</td>
<td>Distal end 5.5Fr/Proximal end 7Fr</td>
</tr>
<tr>
<td><strong>Working length</strong></td>
<td>1900mm</td>
<td>1900mm</td>
</tr>
<tr>
<td><strong>Minimum channel size</strong></td>
<td>2.8mm min</td>
<td>2.8mm min</td>
</tr>
<tr>
<td><strong>Compatible guidewire</strong></td>
<td>0.89mm(0.035inch)</td>
<td>0.89mm(0.035inch)</td>
</tr>
<tr>
<td><strong>Radiopaque band</strong></td>
<td>One band at the distal end and one band at the proximal end of balloon</td>
<td>One band at the distal end and one band at the proximal end of balloon</td>
</tr>
<tr>
<td><strong>Syringes</strong></td>
<td>Three(3)syringes in different sizes are contained in the balloon package</td>
<td>Three(3)syringes in different sizes are contained in the balloon package</td>
</tr>
</tbody>
</table>

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Printed in Japan F1084SB-3-0804
Revolutionary V-System Device Exchange is Now Combined with New Basket Designs, a Rotation Mechanism, and Wire Guided Access

The Innovative V-System Design Lets You Proceed with Confidence and Efficiency

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Indicates when to raise and lower the V-Groove forceps elevator.

The exclusive V-Marking is located on the proximal side of the sheath. When this marking reaches the channel port on the scope’s control section, it indicates that the device tip has reached the distal end of the scope and the V-Groove forceps elevator may be lowered. When withdrawing the device from the scope, the same marking indicates when to raise the elevator to lock the guidewire.

Injection port for contrast media facilitates fluoroscopic visualization.

Sterile single-use design for convenience both before and after procedures.
An emergency device, this is only to be used in the unlikely event of basket impaction due to an extremely hard calculus.

BML-110A-1

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Basket type</th>
<th>Rotatable/Guidewire type</th>
<th>Working length</th>
<th>Opening width</th>
<th>Minimum channel size</th>
<th>Compatible guidewire</th>
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<tbody>
<tr>
<td>FG-V401QR</td>
<td>8wire type</td>
<td>Rotatable type</td>
<td>1950mm</td>
<td>20mm</td>
<td>2.8mm</td>
<td>-</td>
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<tr>
<td>FG-V402QR</td>
<td>4wire type</td>
<td>Rotatable type</td>
<td>1950mm</td>
<td>22mm</td>
<td>2.8mm</td>
<td>-</td>
</tr>
<tr>
<td>FG-V411Q</td>
<td>8wire type</td>
<td>Guidewire type</td>
<td>1950mm</td>
<td>20mm</td>
<td>3.7mm(0.035inch)</td>
<td>0.89mm(0.035inch)</td>
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<tr>
<td>FG-V412Q</td>
<td>4wire type</td>
<td>Guidewire type</td>
<td>1950mm</td>
<td>22mm</td>
<td>3.7mm</td>
<td>0.89mm(0.035inch)</td>
</tr>
</tbody>
</table>
Single Use 2-Lumen Sphincterotome V

CleverCut²V

Single Use 3-Lumen Sphincterotome V

CleverCut³V
Exceptional Cutting Performance and Easy, Fast Exchange Capability for Enhanced Efficiency in ERCP Sphincterotomy

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V-System device replacement procedure

Confirm the position of the V-Marking on the V-System EndoTherapy accessory. When the V-Marking is completely visible above the instrument channel port, lift the forceps elevator to lock the guidewire. The guidewire is now locked into the V-Groove. Completely remove the device.
Exceptional Cutting Performance and Easy, Fast Exchange Capability for Enhanced Efficiency in ERCP Sphincterotomy

- Tapered tip design for smooth insertion into strictures and the minor papilla (KD-V431Q series only)
- Pre-curved distal end for easier knife positioning
- Distal marking on the sheath for improved view field visibility
- The distal marking on the sheath clearly indicates both the center and cutting position of the knife.
- Injection lumen
- Guidewire lumen
- Cutting wire lumen
- Cutting wire
- Guidewire/Injection lumen
- Stiffening wire

The CleverCut2V provides efficient cannulation capability

- Easy identification of ports
- The guidewire port and the injection port are easily identified by symbols.

Unique Device Design and Attention to Every Detail of The CleverCut2V and CleverCut3V Sphincterotomes

- Pre-curved distal end for easier knife positioning
- The distal ends of the CleverCut2V and CleverCut3V are pre-curved to achieve stable cannulation capability. The distal configuration also facilitates easy positioning of the knife into the papilla.
- Tapered tip design for smooth insertion into strictures and the minor papilla (KD-V431Q series only)
- The tapered tip design is ideally suited for cases in which cannulation is difficult due to strictures or when insertion into the minor papilla is required. The tapered tip CleverCut3V is compatible with a 0.025” diameter guidewire.
- Distal marking on the sheath
- The distal marking on the sheath clearly indicates both the center and cutting position of the knife.
- Easy identification of ports
- The guidewire port and the injection port are easily identified by symbols.

- CleverCut coating enhances safety
- Olympus’s signature CleverCut coating on the proximal end of the cutting wire minimizes damage to the surrounding tissue. In addition, CleverCut Coating reduces the risk of electrical contact between the wire and the endoscope.

- CleverCut3V wire, injection lumen and guidewire lumen are arranged to allow easier orientation of the cutting wire for effective sphincterotomy. Since the injection lumen and the guidewire lumen are completely separate, contrast media can be smoothly injected with a guidewire in place.

- Sheath design for stable and reliable cannulation
- Designed to optimize insertion into the scope, the sheath narrows in the distal end and thicken at the proximal end. This improves handling and ensures smooth insertion, while also providing excellent cannulation capability into the papilla.

- Radioopaque tip markings for optimal visibility under fluoroscopy
- The distal tip of the CleverCut2V and CleverCut3V provide excellent visibility under fluoroscopy.

- Single-use design for use-and-dispose convenience
- The CleverCut2V and CleverCut3V are designed for single use only.

- Radiopaque tips of the CleverCut2V and CleverCut3V provide excellent visibility under fluoroscopy.
<table>
<thead>
<tr>
<th>Model</th>
<th>Lumen type</th>
<th>Distal tip diameter</th>
<th>Maximum insertion portion diameter</th>
<th>Working length</th>
<th>Compatible guidewire</th>
<th>Tip length</th>
<th>Knife length</th>
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<tr>
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<td>4.5Fr</td>
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<td>KD-V411M-0720</td>
<td></td>
<td>4.0Fr</td>
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An Essential Tool to achieve a New Level of Efficiency in Biliary-Pancreatic Procedures. Designed to Enhance the Revolutionary Exchange Capability of the V-System.

The Innovative V-System Design Lets You Proceed with Confidence and Efficiency

The V-System is a complete system that integrates Olympus endoscopes and EndoTherapy devices. The revolutionary V-System design offers the option of guidewire manipulation by the physician or the assistant, allows easier exchange of catheters, and enhances cannulation capability.

The V-Groove in the V-Scope forces elevator locks LinearGuideV in place

When a guidewire slips out of position, it can be extremely frustrating. With the new LinearGuideV, unwanted movement is a thing of the past. Olympus’ V-System scopes feature a revolutionary V-Groove in the V-Scope forces elevator that allows LinearGuideV to be securely locked in place without any special attachment when extended 130mm from the distal end of the scope. The approach to the bile or pancreatic ducts via the papilla can be accomplished quickly and easily without worrying about the guidewire slipping.

Schematic of the V-Groove locking mechanism

V-System device replacement procedure

130mm

The LinearGuideV has been designed to provide superior insertion capability, maximum endoscopic visibility, and easy device exchange. When the LinearGuideV’s spiral markings are visible from the scope tip, the guidewire can be locked to simplify device exchange.

Conventional scope (TJF-160)   V-System scope (TJF-160V)
An Essential Tool to achieve a New Level of Efficiency in Biliary-Pancreatic Procedures. Designed to Enhance the Revolutionary Exchange Capability of the V-System.

- Designed to Enhance the Revolutionary Exchange Capability of the V-System.
- Specially coated to ensure smooth wire manipulation through tight strictures in the bile duct. The distal 500mm from the tip is coated with a special hydrophilic coating that provides exceptional lubricity.
- The balance of the guidewire is coated with PTFE for smoother exchange. These coatings allow the guidewire to be manipulated easily.

**Two-step markers ensure visibility in the endoscopic field of view**

Two-step markers on the LinearGuideV make it easy to confirm the movement and position of the guidewire within the endoscopic field of view.

**Ring-marker section**

Ring markers visible from 50mm to 120mm from the distal end to help determine duct penetration.

**Spiral-marker section**

Spiral markers visible in the endoscopic field of view.

**Specialty coated to ensure smooth wire manipulation**

- The LinearGuideV comes in two tip configurations—straight and angulated. The straight tip can be used for a variety of purposes, while the angulated tip is best suited for passing a stricture and for selective insertion.
- Choose the tip that best suits your techniques and preferences.

**All Designs are Optimized to Assure Smooth, Efficient Guidance of Devices to the Bile And Pancreatic Ducts**

- The LinearGuideV has been designed to provide superior insertive capability, maximum endoscopic visibility, and easy device exchange. When the LinearGuideV’s spiral markings are visible from the scope tip, the guidewire can be locked in the V-Groove to simplify device exchange.
- Removal of the guidewire is not necessary during sphincterotomy.

- This instrument meets the recognized standard for high frequency electrosurgical leakage current—ANSI/AAMI HF-18(1993), 4.2.5.2 and 5.2.5.2—when used with an Olympus sphincterotome. The LinearGuideV comes in two tip configurations—straight and angulated. The straight tip can be used for a variety of purposes, while the angulated tip is best suited for passing a stricture and for selective insertion. Choose the tip that best suits your techniques and preferences.

**Note:**

The LinearGuideV’s spiral markings are visible from 50mm to 120mm from the distal end to help determine duct penetration.

**Two distal tip configurations to suit different techniques and preferences**

- The LinearGuideV comes in two tip configurations—straight and angulated. The straight tip can be used for a variety of purposes, while the angulated tip is best suited for passing a stricture and for selective insertion.
- Choose the tip that best suits your techniques and preferences.
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Outer diameter</th>
<th>Working length</th>
<th>Shape of distal portion</th>
<th>Hydrophilic coating length</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-V210-3527S</td>
<td>0.89mm(0.035&quot;)</td>
<td>2,700mm</td>
<td>Straight</td>
<td>500mm</td>
</tr>
<tr>
<td>G-V210-3527A</td>
<td></td>
<td>4,500mm</td>
<td>Angulated</td>
<td></td>
</tr>
<tr>
<td>G-V210-3545S</td>
<td></td>
<td></td>
<td>Straight</td>
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