

**ETHICON**

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

# Only ENDOPATH® XCEL® Trocars with OPTIVIEW® Technology

Reduce smudging upon endoscope  
reinsertion, time after time<sup>1</sup>



## ENDOPATH® XCEL® Trocars with OPTIVIEW® Technology minimize endoscope recleanings

### How OPTIVIEW® Technology works

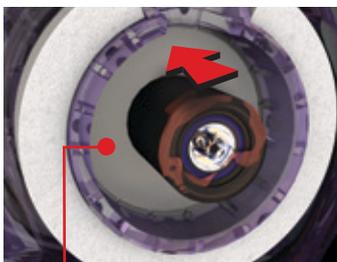
OPTIVIEW® Technology uses wiping, wicking, and absorbing to reduce smudging during camera reinsertion, reducing re-wiping of the endoscope.<sup>1</sup> Proprietary technology wipes bodily fluid and debris from the endoscope shaft when it's removed from the trocar. The fluid is drawn into the absorbent material before it has a chance to enter the trocar seal, so it can't interfere with the endoscope lens upon reinsertion.

## ENDOPATH® XCEL® Trocars with OPTIVIEW® Technology

Designed specifically for camera ports, ENDOPATH® XCEL® Trocars with OPTIVIEW® Technology reduce smudging during endoscope reinsertions by wiping, wicking, and absorbing fluid buildup in the trocar.<sup>1</sup>

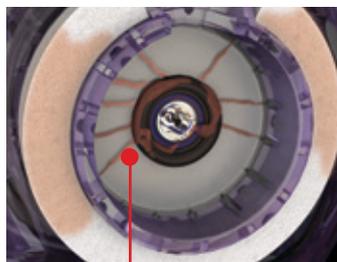


Wipe



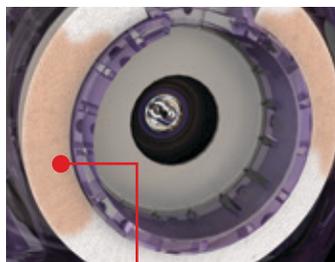
Flexible scraper wipes fluid from endoscope shaft on the way out of the trocar.

Wick



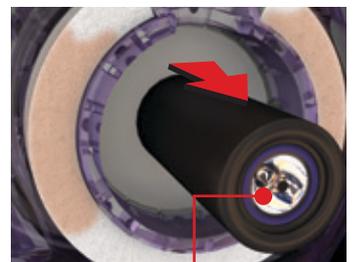
Wicking channels absorb fluid as it moves outward into the absorbent material.

Absorb



Absorbent ring captures and contains fluid, preventing it from entering trocar seal.

Reinsert



Endoscope has reduced smudge upon reinsertion.



Not all ports require the same level of trocar functionality. That's why Ethicon Endo-Surgery (EES) developed a portfolio of trocars that offers the flexibility to choose the right trocar for the right level of performance...when and where it's needed. ENDOPATH® XCEL® Trocars with OPTIVIEW® Technology are designed to reduce smudging of the endoscope upon reinsertion by wiping, wicking, and absorbing fluid that builds up inside the trocar!

## Frustrated by constantly having to reclean your endoscope?

The repeated smudging of the endoscope lens that occurs when it is reinserted into a trocar (after just being cleaned) is a common frustration among surgeons.

### Smudging upon endoscope reinsertion

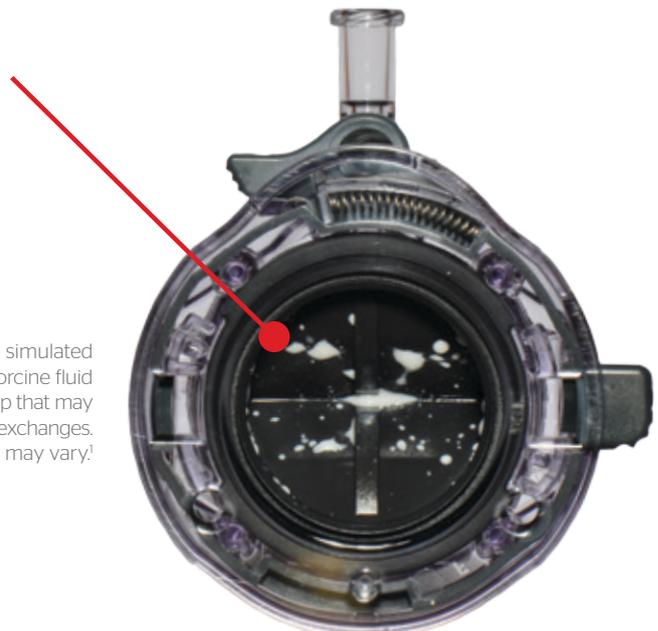
- Necessitates frequent re-wiping
- May disrupt procedural flow
- May lead to surgeon distractions

## How does endoscope reinsertion lead to smudging?

Intraoperative smudging can require periodic removal of the endoscope for cleaning.

- As the endoscope is removed, fluid from the endoscope shaft often remains trapped within the trocar's seal system
- Upon endoscope reinsertion, trapped fluid can be reapplied to the scope lens, causing smudging

12mm trocar seal housing image was taken following 5 simulated insertions and extractions with an endoscope with porcine fluid during benchtop testing to demonstrate fluid buildup that may occur within the trocar seal housing during instrument exchanges. Actual fluid buildup in trocar seal housings may vary!



ENDOPATH® XCEL® Trocar (B12LT)

## The benefits of ENDOPATH® XCEL® Trocars, now with smudge mitigation

**Low insertion force:** Ensures controlled and predictable entry.

- ENDOPATH® XCEL® Bladeless Trocars with OPTIVIEW® Technology have the lowest peak insertion force compared to leading Covidien, Applied Medical, and Taut® bladeless trocars<sup>2</sup>

**Abdominal wall retention:** Integrated thread design on bladeless, universal sleeve, and dilating tip cannulas helps minimize trocar slip-outs.

- Greater stability demonstrated in bladeless trocars:
  - 5mm ENDOPATH® XCEL® Bladeless Trocars with OPTIVIEW® Technology have twice as much peak retention force compared to leading 5mm Applied Medical trocars with threaded sleeves<sup>3</sup>
  - 12mm ENDOPATH® XCEL® Bladeless Trocars with OPTIVIEW® Technology have higher peak retention force than leading 12mm Applied Medical bladeless trocars<sup>4</sup>

**Low drag force:** Housing and seal are designed to reduce instrument hang-ups and provide low instrument insertion/extraction forces.

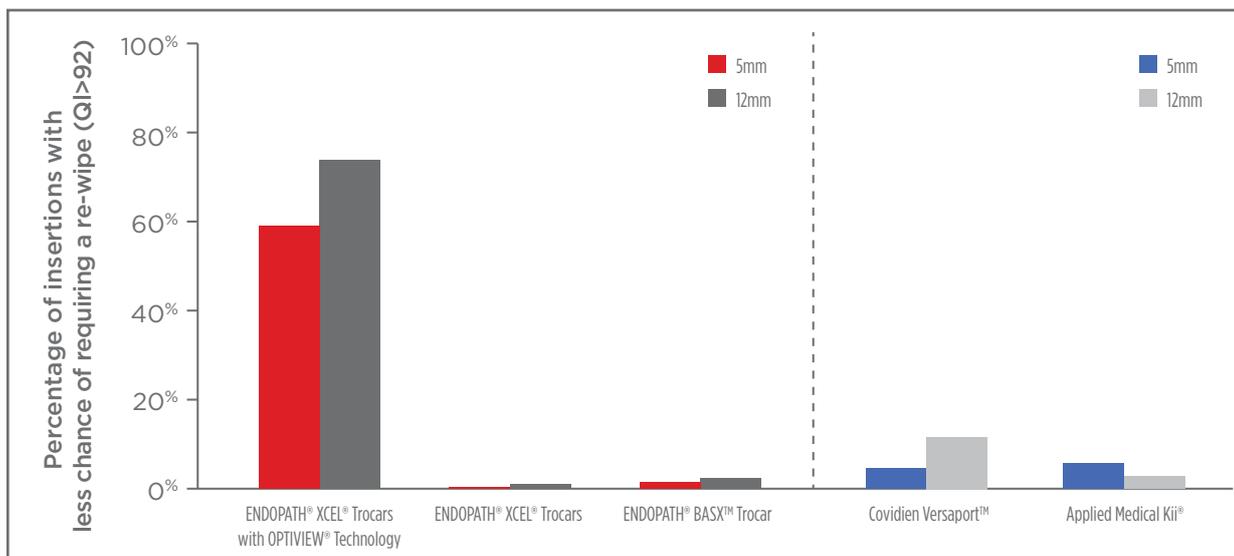
**Direct visualization:** Bladeless tip trocar allows for endoscopic optical entry.

ENDOPATH® XCEL® Trocars with OPTIVIEW® Technology are now available in 5mm and 12mm bladeless trocars, dilating tip trocars, and universal sleeves. Also available in 12mm blunt tip trocars.



## ENDOPATH® XCEL® Trocars with OPTIVIEW® Technology cut endoscope re-wipes in half<sup>1</sup>

### Most effective smudge mitigation vs leading trocars



### OPTIVIEW® Technology is more effective at reducing re-wipes<sup>1</sup>



#### 5mm trocars

- At least **59% more effective** than Covidien Versaport™ and VersaStep™ Bladeless Trocars
- At least **58% more effective** than Applied Medical Kii® and Kii® Fios® Trocars



#### 12mm trocars

- At least **66% more effective** than Covidien Versaport™ and VersaStep™ Bladeless Trocars
- At least **74% more effective** than Applied Medical Kii® and Kii® Fios® Trocars

### Reduced smudging means fewer procedural disruptions<sup>1</sup>

- Reduces disruptions of re-wiping the endoscope
- Minimizes the cumulative time needed to clean the endoscope

## ENDOPATH® XCEL® Bladeless Trocars with OPTIVIEW® Technology

Product code	Description	Quantity/Sales Unit
2B5ST	Stability sleeve, 5mm diameter, 75mm length	6
2B5LT	Stability sleeve, 5mm diameter, 100mm length	6
2B5XT	Stability sleeve, 5mm diameter, 150mm length	6
2B12LT	Stability sleeve, 12mm diameter, 100mm length	6
2B12XT	Stability sleeve, 12mm diameter, 150mm length	6

## ENDOPATH® XCEL® Dilating Tip Trocars with OPTIVIEW® Technology

Product code	Description	Quantity/Sales Unit
2D5ST	Stability sleeve, 5mm diameter, 75mm length	6
2D5LT	Stability sleeve, 5mm diameter, 100mm length	6
2D12LT	Stability sleeve, 12mm diameter, 100mm length	6
2D12XT	Stability sleeve, 12mm diameter, 150mm length	6

## ENDOPATH® XCEL® Blunt Tip Trocars with OPTIVIEW® Technology

Product code	Description	Quantity/Sales Unit
2H12LP	Stability sleeve, 12mm diameter, 100mm length	6

## ENDOPATH® XCEL® Universal Sleeves with OPTIVIEW® Technology

Product code	Description	Quantity/Sales Unit
2CB5ST	Stability sleeve, 5mm diameter, 75mm length	6
2CB5LT	Stability sleeve, 5mm diameter, 100mm length	6
2CB12LT	Stability sleeve, 12mm diameter, 100mm length	6

### References:

1. Comparing mean number of insertions for 5mm trocars out of 10 insertions with a quality index score of 92 or higher for 2B5LT (6.4 insertions) to COQ04/CFR03/CTR03/CTF03/CFI13 (0.5 insertions), NB5STF/VS101005 (0.4 insertions) in benchtop tests, **P**<0.05. Data on file. Study PRC049012. Comparing mean number of insertions for 12mm trocars out of 15 insertions with a quality index score of 92 or higher for 2B12LT (11.6 insertions) to CTF73/COR29/CFI83/CF73/CFR73/COR47 (0.4 insertions), NB12STF/VS101012P (1.6 insertions) in benchtop tests, **P**<0.05. Data on file. Study PRC056628. Quality index score of 92 or higher indicates a less than 20% chance of having to re-wipe the endoscope lens due to trocar induced smudging. DSL 12-1136
2. Comparing mean abdominal wall peak insertion forces of 2B5LT/B5LT (10.7lb) to CFR03/CFF03 (21.5lb), CTR03/CTF03 (12.5lb), COQ04/CFI13 (12.2lb), NB5STF (12.0lb) and 40510 (12.7lb), and mean abdominal wall peak insertion forces of 2B12LT/B12LT (19.2lb) to CTF73 (23.1lb), COR29/CFI83 (24.3lb), CFR73/CF73 (31.7lb), NB12STF (29.6lb) and 41210 (26.0lb), in a preclinical model, **P**<0.05. Data on file. Study PRC049013. DSL 12-1101
3. Comparing mean abdominal wall retention forces of 2B5LT/B5LT (8.3lb), CTF03/CTR03 (4.1lb) and COQ04/CFI13 (4.1 lb), in a preclinical model, **P**<0.05. Data on file. Study PRC049013. DSL 12-1101
4. Comparing mean abdominal wall retention forces of 2B12LT/B12LT (16.1lb), CTF73 (8.8lb), CFR73/CF73 (14.4lb), and COR29/CFI83 (11.9lb), in a preclinical model, **P**<0.05. Data on file. Study PRC049013. DSL 12-1101

Ethicon Endo-Surgery (Europe) GmbH  
 Hummelsbütteler Steindamm 71  
 22851 Norderstedt, Germany

[www.ethicon.com](http://www.ethicon.com)

BR 740 ©2013 Ethicon Endo-Surgery (Europe) GmbH.  
 Please always refer to the Instructions for Use / Package Insert that come with the device for the most current and complete instructions.