ENDOPATH

# ENDOPATH XCEL® Trocars with OPTIVIEW® Technology

## The only trocar that reduces smudging of the endoscope/scope upon reinsertion[1]


*OPTIVIEW Technology components*

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Shaping the future of surgery

Not all ports require the same level of trocar functionality. That's why Ethicon developed a portfolio of trocars that offers the flexibility to choose the right trocar with the right level of functionality, 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 clean your endoscope?

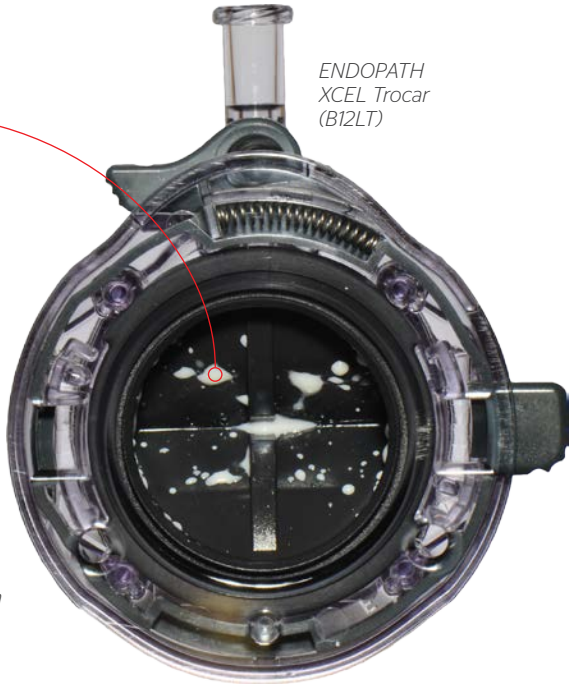
## Smudging upon endoscope reinsertion

- Necessitates frequent rewiping
- May disrupt procedural flow
- May lead to surgeon distraction

## How does endoscope reinsertion lead to smudging?

Intraoperative smudging may 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 may be reapplied to the scope lens, causing smudging



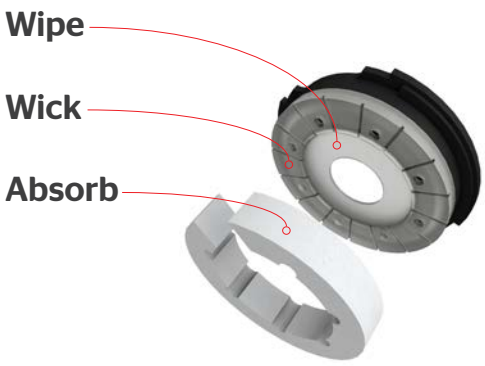
*ENDOPATH XCEL Trocar (B12LT)*

*12mm trocar seal housing image was taken following five simulated insertions and extractions of an endoscope using 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® Trocars with OPTIVIEW® Technology minimize endoscope recleanings

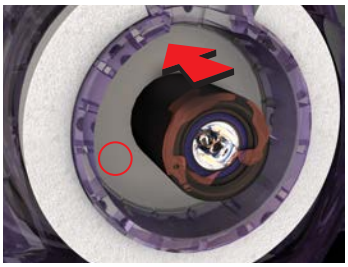
## How OPTIVIEW Technology works

OPTIVIEW Technology **wipes, wicks and absorbs** to decrease smudging during camera reinsertion, reducing the need to rewipe the endoscope.[1] Proprietary technology wipes bodily fluid and debris from the endoscope shaft as it is 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.



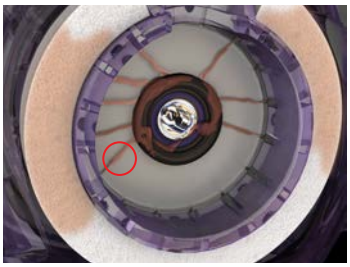

*OPTIVIEW Technology components*

### Wipe



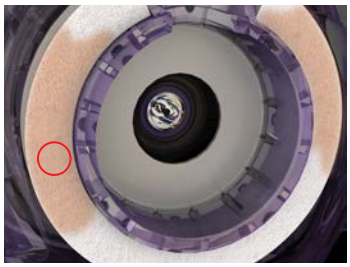
Flexible scraper wipes fluid from endoscope shaft on the way out of the trocar

### Wick



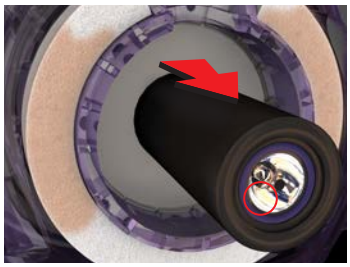
Wicking channels absorb fluid as it moves outward into the absorbent material

### Absorb



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

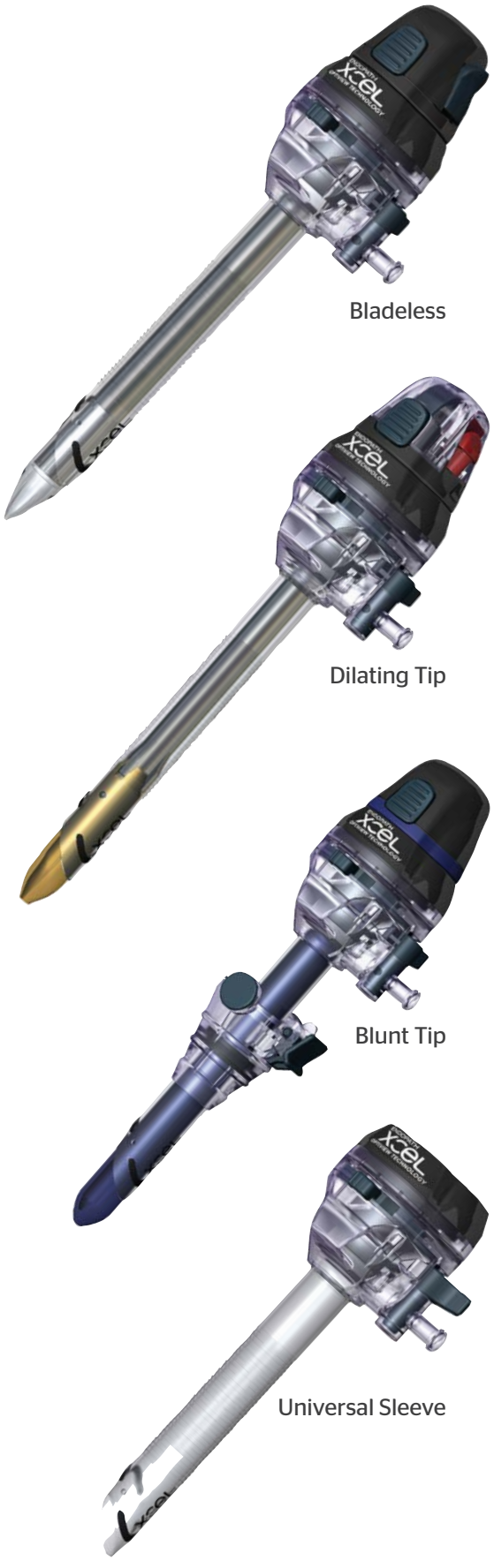
### Reinsert



Endoscope has reduced smudging upon reinsertion

**To watch a video demonstrating how OPTIVIEW Technology works, go to ethicon.com/xceloptiview**

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




## Low insertion force

Provides 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[2]

## 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[3]
  - 12mm ENDOPATH XCEL Bladeless Trocars with OPTIVIEW Technology have higher peak retention force than leading 12mm Applied Medical bladeless trocars[4]

## Low drag force

Housing and seal are designed to reduce instrument hang-ups and to provide low instrument insertion/extraction forces

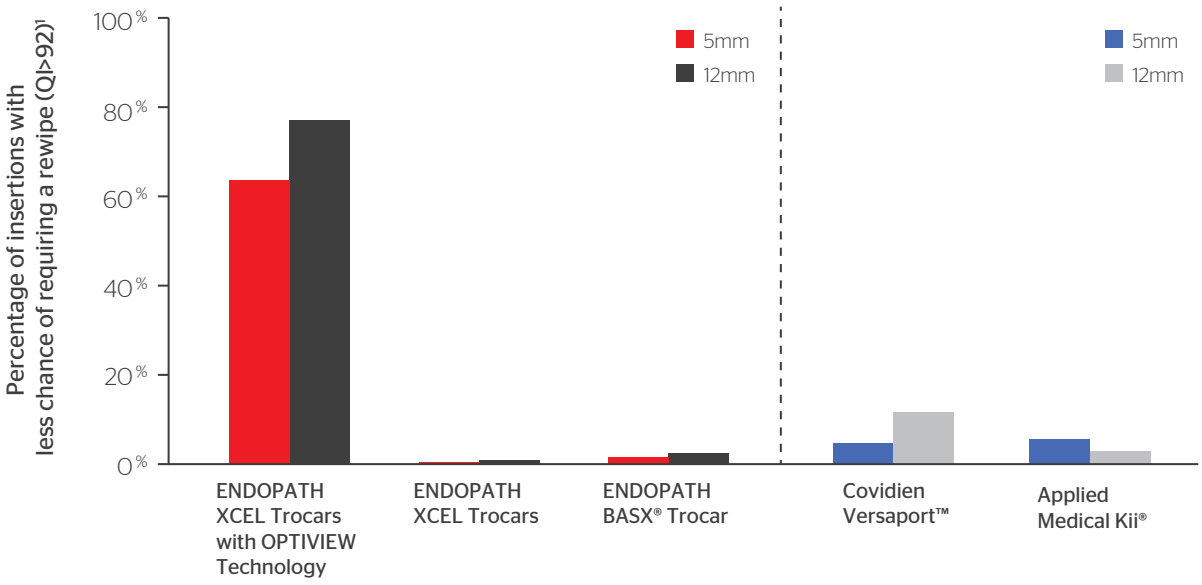
## Direct visualization

Bladeless tip trocar allows for endoscopic optical entry

*ENDOPATH XCEL Trocars with OPTIVIEW Technology are 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 rewipes in half[1]

## Most effective smudge mitigation vs leading trocars




## OPTIVIEW Technology is more effective at reducing rewipes[1]

### 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[1]

- Reduces the disruption of rewiping the endoscope
- Minimizes the cumulative time spent needed to clean the endoscope

# 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.[1]

Schedule a demo today and see the difference for yourself. Contact your Ethicon Sales Professional or visit **ethicon.com/xceloptiview**


*OPTIVIEW Technology components*

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/CF113 (0.5 insertions), NB5STF/VS101005 (0.4 insertions) in benchtop tests, P<0.05. 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/CF183/CFF73/CFR73/COR47 (0.4 insertions), NB12STF/VS101012P (1.6 insertions) in benchtop tests, P<0.05. Quality index score of 92 or higher indicates a less than 20% chance of having to rewipe the endoscope lens due to trocar induced smudging.

2. Comparing mean abdominal wall peak insertion forces of 2B5LT/B5LT (10.7lb) to CFR03/CFF03 (21.5lb), CTR03/CTF03 (12.5lb), COQ04/CF113 (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/CF183 (24.3lb), CFR73/CFF73 (31.7lb), NB12STF (29.6lb) and 41210 (26.0lb) in a preclinical model, P<0.05.

3. Comparing mean abdominal wall retention forces of 2B5LT/B5LT (8.3lb), CTF03/CTR03 (4.1lb) and COQ04/CF113 (4.1 lb), in a preclinical model, P<0.05.

4. Comparing mean abdominal wall retention forces of 2B12LT/B12LT (16.1lb), CTF73 (8.8lb), CFR73/CFF73 (14.4lb) and COR29/CF183 (11.9lb) in a preclinical model, P<0.05.

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Shaping the future of surgery

For complete product information, including full steps for use, indications, contraindications, warnings and precautions, please see the Instructions for Use.

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