

# Why Ultravision

Ultravision™ helps healthcare providers deliver best-in-class care for their staff and patients by providing the only solution that prevents surgical smoke from entering the OR whilst minimising patient carbon dioxide exposure during laparoscopic surgery.



## For the Patient

- Minimises exposure to cold, dry CO<sub>2</sub><sup>1,2</sup>
- Delivers the proven benefits of low pressure, low flow surgery<sup>2</sup>
- Reduces time under anaesthetic<sup>1,2</sup>



## For the Surgeon

- Advanced visualisation<sup>1</sup>
- Reduced camera cleaning<sup>1</sup>
- Reduced interruptions in surgery<sup>1</sup>
- Stable pneumoperitoneum<sup>2</sup>
- Facilitates low pressure, low flow surgery<sup>2</sup>
- Silent in operation



## For the Nurse

- Prevents release of surgical smoke into the OR<sup>1,4</sup>
- Minimises bioaerosol in CO<sub>2</sub> leaks<sup>4</sup>
- Performance verified on subviral-sized particles with >99% efficiency<sup>3</sup>




## For the Administrator


- Reduces risk for patient and OR staff
- Improves staff wellbeing
- Optimises efficiency in laparoscopic surgery
- Cost-effective alternative to advanced, high-flow insufflators
- Lowers carbon footprint through CO<sub>2</sub> reduction

# How

- Revolutionary advanced visualisation and smoke management using proven process of electrostatic precipitation.
- Low-power Ultravision generator delivers energy to the patient via lonwand electrode.
- This results in the creation of low-energy ions within the patient abdomen.
- The ions migrate to the patient tissue, dramatically accelerating the natural sedimentation of any aerosol.
- Reduction in gas exchange ensures stable pneumoperitoneum and minimal use of cold, dry CO<sub>2</sub>.

 ***“Using Ultravision helps me work quickly and safely, and also means I no longer vent smoke into the OR during surgery.”***

Dr. Jin S. Yoo, MD - Assistant Professor of Surgery, Duke University Health System, US

 ***“By doing such an efficient job in maintaining a clear visual field, Ultravision allows the surgeon to see better and operate much faster.”***

Dr. Ramon Yera - Minimally Invasive GYN Surgeon at Kaiser Permanente, US



1. Ansell et al, (2014), Surgical Endoscopy, 28, “Electrostatic precipitation is a novel way of maintaining visual field clarity during laparoscopic surgery: a prospective double-blind randomized controlled pilot study.”

2. Levine et al, (2020), JSLS, 24(4), “Electrostatic Precipitation in Low Pressure Laparoscopic Hysterectomy and Myomectomy.”

3. Company report ‘DREP 002’ on file (2012)

4. Buggisch et al, (2020), JACS, “Experimental Model to Test Electrostatic Precipitation Technology in the COVID-19 Era: A Pilot Study.”



Ultravision is the world's only system that provides advanced visualisation, class-leading bioaerosol control\*, and minimises patient CO<sub>2</sub> exposure.



The only solution for **suppressing smoke** and **minimising patient CO<sub>2</sub> exposure.**

*"Ultravision also enables low-pressure surgery and that helps get patients home quicker ...recovery went from 5 days to 3 days to 23 hours and now we are able to achieve 12 hours..."*

Mr Gourab Misra - Consultant Gynaecologist at the University Hospitals of North Midlands, UK

\* In tests comparing Ultravision with a representative surgical smoke evacuation system. Buggisch et al (2020).

DLU-001-057C\_Rev\_1

Order Number	Description	
DAD-001-015	Ultravision™ System	
DAD-001-006	Patient Return Adaptor 0.75m (SOLID)*	
DAD-001-029	Patient Return Adaptor 1.5m (SOLID)	
DAD-001-007	Patient Return Adaptor 0.75m (SPLIT)*	
DAD-001-030	Patient Return Adaptor 1.5m (SPLIT)	
DAD-001-031	Patient Return Adaptor (Euro Connector)	
DAD-004-012	Mains converter	
DAD-001-003	Ionwand™ Pack (x10)	
DAD-003-014	Ultravision™ 5mm Trocar (x6)	

Your regional distributor is:



Alesi Surgical Limited, Cardiff Medicentre, Cardiff, U.K.  
Tel: +44 (0) 29 2029 1022, Email: [info@alesi-surgical.com](mailto:info@alesi-surgical.com)  
[www.alesi-surgical.com](http://www.alesi-surgical.com)



I don't smoke. So why should I have to in the OR?