

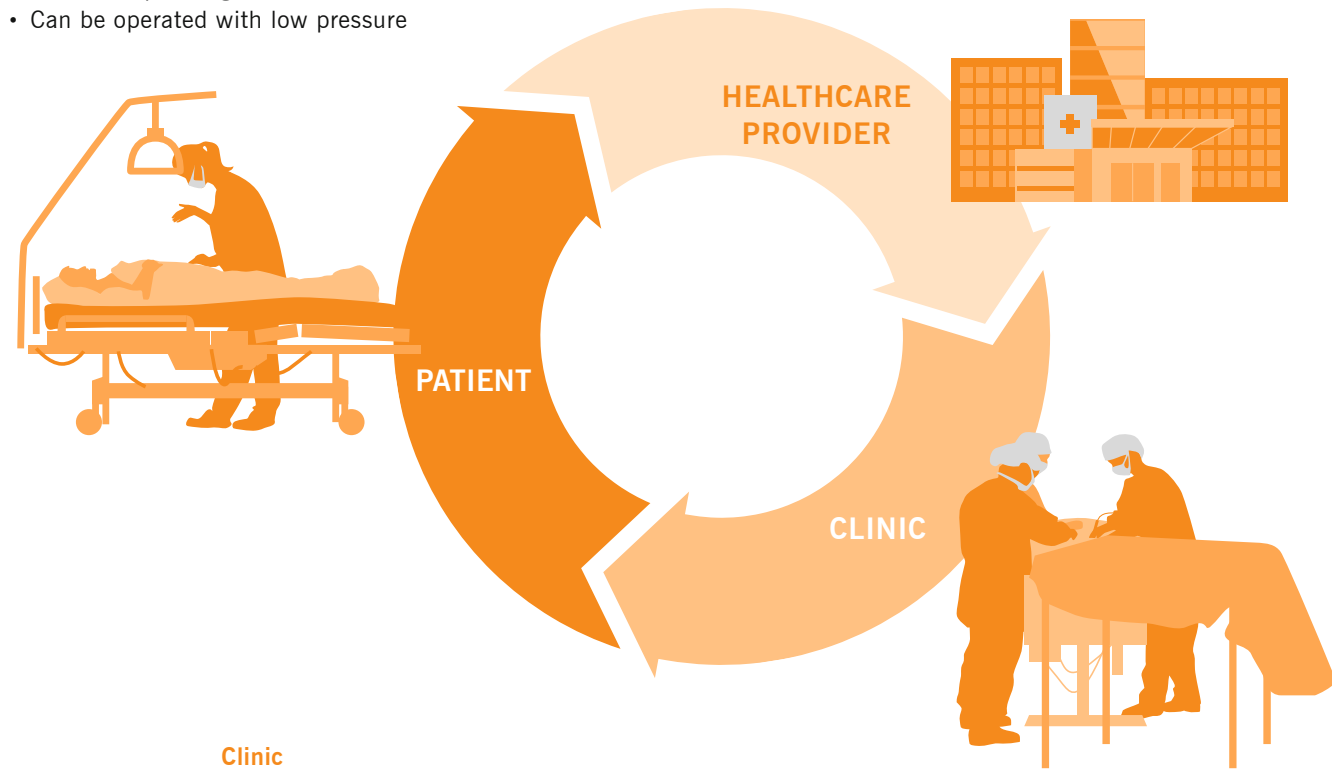
## Overview of the benefits

### Patient

- Increased safety for the patient with an unobstructed view
- Minimisation of CO<sub>2</sub> exposure and its consequences, such as:
  - Post-operative adhesions
  - Cooling
  - Acidosis
  - Pain
- Reduced operating and anaesthetic time
- Can be operated with low pressure

### Healthcare provider

- Cost savings through:
  - Shorter period of use
  - Reduced CO<sub>2</sub> consumption
  - Reduced use of cleaning systems for laparoscopy cameras
  - More reliable operating time
- Improved safety and health protection for employees
- Improved quality and efficiency of the operating theatre
- Additional revenue generation



### Clinic

- Reduced operating time
- Improved quality and efficiency of the operating theatre
- No release of surgical smoke into the operating theatre
- Stable pneumoperitoneum
- Reduced interruptions and distractions in surgery caused by visual impairment

### References:

<sup>1</sup> Ansell et al; Surgical Endoscopy; 26. Feb. 2014: Electrostatic precipitation is a novel way of maintaining visual clarity during laparoscopic surgery: a prospective doubleblind randomised controlled pilot study  
<sup>2</sup> Levine et al; Manuscript in preparation

<sup>3</sup> Ambulatory Surgery; 16.2 July 2010; Veekash et al; Carbon Dioxide pneumoperitoneum, physiologic changes and anaesthetic concerns  
<sup>4</sup> Alesi Surgical; Data stored

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## ULTRAVISION REVOLUTIONARY SMOKE MANAGEMENT FOR LAPAROSCOPY



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surgical

# Revolutionary smoke management for laparoscopic surgical applications



## Maximising efficiency, minimising CO<sub>2</sub>

The benefits of surgical smoke management without active suction or additional ventilation are clinically proven: The patient's CO<sub>2</sub> exposure is limited and the pneumoperitoneum remains stable. Operating times can be reduced.

## No surgical smoke generated during the procedure enters the operating theatre<sup>1</sup>

- Increased safety and better health protection for operating theatre personnel
- Zero release of surgical smoke



### Zero gas exchange

- Maintenance of a constant pneumoperitoneum
- Enables surgery with low pressure<sup>2</sup>

### Reduced CO<sub>2</sub> exposure<sup>1</sup>

- Lower CO<sub>2</sub> consumption
- Minimal consequences of excessive cold, dry CO<sub>2</sub> exposure<sup>3</sup>

### Improved surgical efficiency and results<sup>1</sup>

- Optimised surgical accuracy and focusing
- More reliable operating time

### Operating principle

- Ultravision™ emits negative gas ions
- Negative ions move towards the positive patient tissue
- Negative ions collide with surgical smoke particles
- Particles are electrostatically attracted to the patient tissue
- The particles land and the charge flows back to the generator

## Ordering information for Ultravision™

	5 mm trocar (60 pc.)	Ⓢ	DAD-003-015
	lonwand™ sterile packaging (80 pc.)	Ⓢ	DAD-003-014 (UK only)
	System starter pack (1 pc.) incl. DAD-001-007 DAD-001-031 DAD-004-012		DAD-001-015

## Accessories

	International adapter for patient return electrode (1 pc.)	DAD-001-007
	Euro adapter for patient return electrode (1 pc.)	DAD-001-031
	Voltage converter incl. plug-in power supply unit (1 pc.)	DAD-004-012

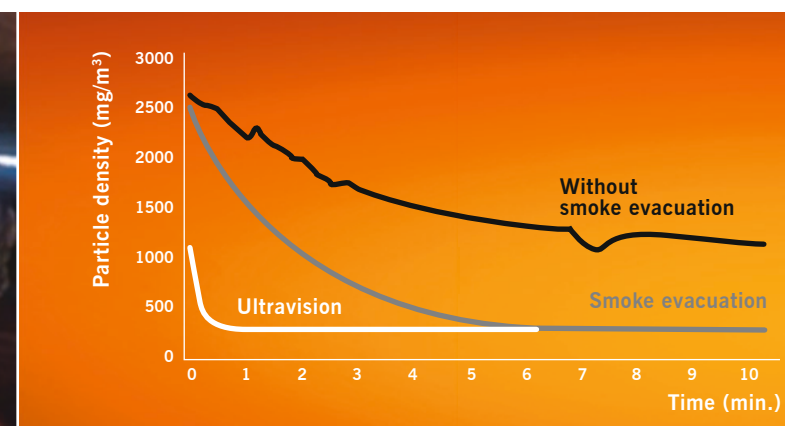


Without Ultravision

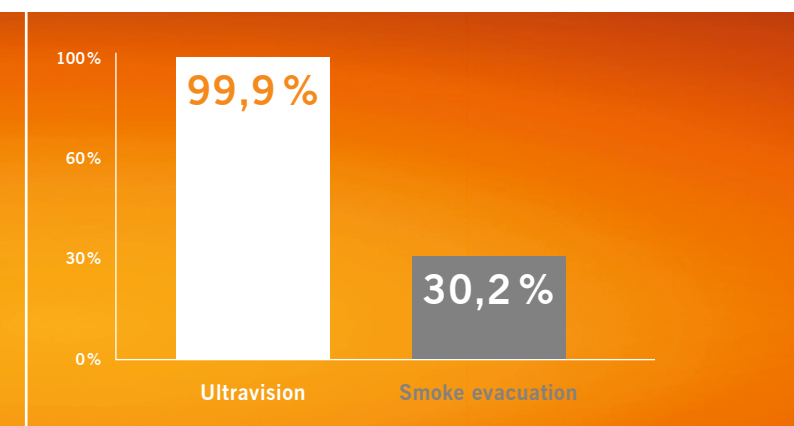


With Ultravision

Cleaning the camera is not necessary up to 85% of the time<sup>2</sup>



Rate of smoke clearing<sup>4</sup>



Particle clearance after 1 minute of use<sup>4</sup>