



NEXT GENERATION
3.0

LAPAROSCOPIC
SURGERY

SEE BETTER

AESCULAP® 3D *EinsteinVision*®

3D WITH CLARITY

IMAGINE YOUR EYES INSIDE THE PATIENT



Scope Fogging
Scope fogging is caused by condensation of the humid air in the patients abdomen on a cold endoscope much the same as your glasses steaming on a cold day



Think differently

What if there was a solution which meant you never had to defog the scope manually, reducing procedural time and therefore theatre delays, maximising patient safety, potentially allowing you to add more cases to a list and reduce waiting times?



Solution

The Aesculap EinsteinVision 3.0 3D Camera System offers an integrated heating element in the endoscope tip which effectively and permanently prevents fogging of the optics. This means procedures can be carried out faster without interruption from scope fogging.

IMPROVED EFFICIENCIES AND PRODUCTIVITY

- Minimal set up requirements
- Potential to reduce procedure times
- Potential to increase patient throughput
- Increase productivity

Do you have any procedures or lists booked that could benefit?

Need for efficiency

Recent reports from NHS Improvement suggest that hospitals could carry out hundreds of thousands of additional elective operations each year through the better utilisation of operating theatres.

On top of this, further pressure is exerted from increasing waiting times and the desire for earlier discharge to minimise bed stay days.

Major impact

Clinical studies¹ demonstrate that some laparoscopic surgical procedures are taking longer than necessary due to laparoscopic lens fogging. This can account for over 30 minutes of wasted theatre time each day. Scope fogging has a negative impact on the image which can lengthen the procedural time by up to 6.7 minutes per patient. In extreme cases, this may threaten conversion to open surgery, or if severe, the patients life.²

Accumulated over a year, this time saving could potentially allow a hospital to carry out 240 additional procedures per year and benefit from the associated revenue.



¹Yong, N., Grange, P. & Eldred-Evans, D., 2016. Impact of Laparoscopic Lens Contamination in Operating Theaters. Surgical Laparoscopy, Endoscopy & Percutaneous Techniques, 26(4), pp.286-289.

²Bessell, J.R. et al., 1996. Maintenance of clear vision during laparoscopic surgery. Minimally Invasive Therapy & Allied Technologies, 5(5), pp.450-455.



The current developments in healthcare pose a variety of challenges for hospitals, including:

- Increasing cost pressure
- Cost and treatment transparency
- Necessity for process optimisation
- Increasing infection control requirements
- Reduction of interfaces and errors
- Balance between staff satisfaction and time pressure
- Competition for patients

How can new products contribute to bringing about improvements in these areas?



SAFETY

TIME SAVINGS

ERROR REDUCTION

STAFF SATISFACTION

AESCULAP® 3D *EinsteinVision*® 3.0

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Premium 3D

EinsteinVision® 3.0 offers exceptional 3D image quality with native Full HD resolution. In addition, the system works with an impressive depth of field and high image contrast

Pure viewing pleasure



Anti-fogging function

Fogged optics impair the view, disrupt work and can affect patient safety.

Integrated heating elements in the endoscope tip of the camera effectively and permanently prevent fogging of the optics within seconds

Clarity

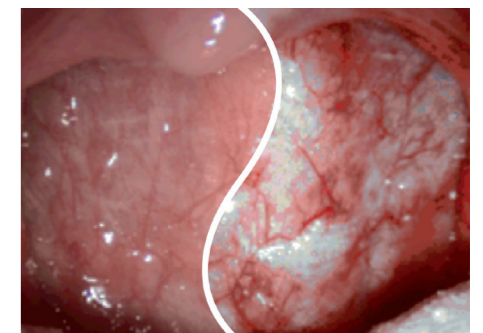


Sterile sleeve

Our sterile handling concept eradicates the need for reprocessing the camera head and provides a consistent 3D image quality without the associated sterilisation degradation.

This results in a simplified product handling process providing confidence that the system will always be available when required.

Process optimisation



Red enhancement

A clearer representation of vessels and greater differentiation of red tones are also desirable.

The integrated algorithm provides precisely that at the push of a button

Contrasted image



reddot design award
winner 2017

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SEE BETTER



TO PROTECT AND IMPROVE
THE HEALTH OF PEOPLE AROUND
THE WORLD



reddot design award
winner 2017



Platform technology

In combination with EinsteinVision® 3.0,
3D and 2D camera heads are used

Can be used universally



Cable management

Integration of camera and light lead
in a single cable

Less is more



Maximised depth of field

Continuous, ultra-sharp images
throughout the surgical field without
manual or automatic re-focusing

Always in focus



ZOOM

Enlargement of image details
at the push of a button

Flexible



Image rotation

When you need to invert your view, you
can rotate the image at the push of a
button (180° image rotation)

Adaptable



Light

LED offers high quality light, optimal
colour rendition, long service and less
maintenance

Always available



Handling

Ergonomic camera head design enables
a proper orientation for the viewing
position

Simply good

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