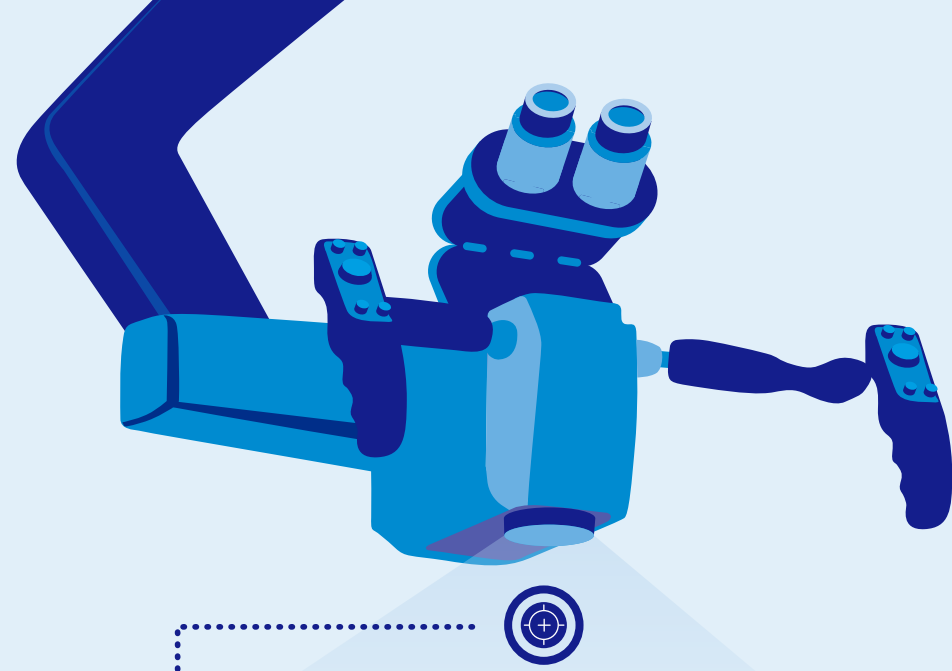


What makes an **ADVANCED VISUALIZATION SYSTEM** the superior choice for minimally invasive spine surgery (MISS)



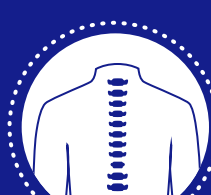
ENHANCED VISUALIZATION

Compared to the endoscope:

- Stereoscopic magnification^{1,2}
- Superior illumination^{1,2}
- Longer focal distance with better depth perception¹

BENEFIT

Clear visualization of all anatomies relevant to spinal surgery¹



SUPERIOR ERGONOMICS

Compared to the loupe:

- Better flexibility and maneuverability²
- View-sharing for training and education¹
- Variable working distances possible¹

BENEFIT

No neck/back strain because of upright working position^{1,2}



DIGITAL DOCUMENTATION

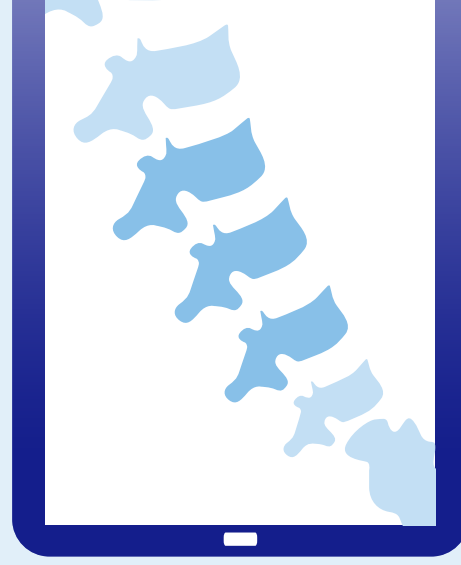
Easy recording and documentation of surgical data including procedure images and videos

Integration within hospital infrastructure

Simple, secure data storage and back-up solutions

BENEFIT

Improved connectivity for communicating, sharing, learning, analyzing and archiving



CLINICAL OUTCOMES^{3,4}

8%

REDUCTION IN BLEEDING^{3*}

(COMPARED TO ENDOSCOPE)

20%

MORE PATIENTS return to function in 3 months⁴

(COMPARED TO LOUPE)

1.4x

IMPROVED RECOVERY RATE^{3*}

(COMPARED TO ENDOSCOPE)

4 FOLD

REDUCTION IN NUMBER OF DURAL TEARS^{3^}

(COMPARED TO ENDOSCOPE)

PERSONAL OUTCOMES



NEUTRAL NECK POSITION MINIMIZES NECK STRAIN²

(COMPARED TO LOUPE)

1. Wood M. Becker's Spine Review. 2016. Available at: <https://www.beckersspine.com/spine/item/32515-the-role-of-the-surgical-microscope-in-modern-mis-spine-drs-k-d-riew-michael-mayer-roger-haertl-mohd-hisam-muhamad-ariffin-share-their-experiences.html>.

2. Damodaran O et al. ANZ J Surg. 2013;83:211–214.

3. Zhang Y et al. BioMed Res Int. 2019. Available at: <https://doi.org/10.1155/2019/5321580>. The authors of the study conclude that: "This study provides evidence that tubular-based microscope-assisted surgery may relate to better recovery rate for LSS, less surgical time, and less intraoperative dural tear compared with endoscope-assisted tubular surgery."

4. Kumar SS et al. J Spinal Disord Tech. 2012;25:E235-239.

*Based on a sample size of 65 patients for laminectomy (35 patients treated with endoscope; 30 patients treated with microscope).

^Based on a sample size of 65 patients for laminectomy (35 patients treated with endoscope; 30 patients treated with microscope) and 242 patients for discectomy (127 patients treated with endoscope; 115 patients treated with microscope).