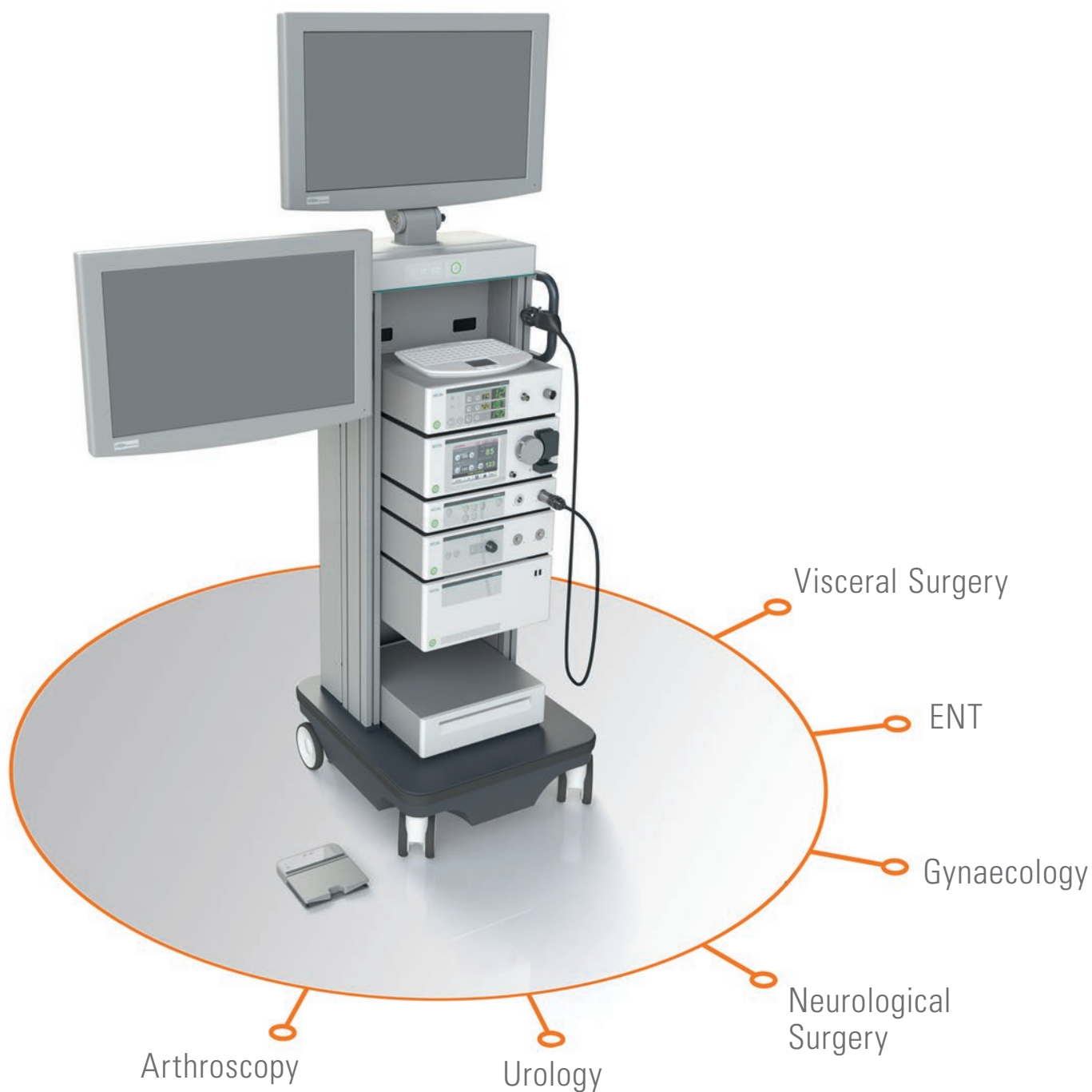


# EndoSURGERY

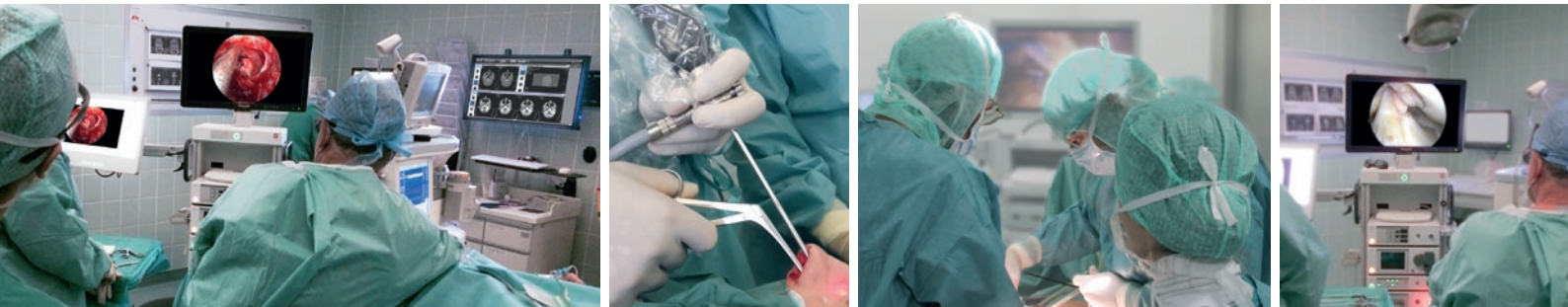
Universal. Consistent. Economical. Future-proof.



*See more than others.*

## EndoSURGERY – Endoscopy system for all endoscopic applications

- ENT
- Visceral Surgery
- Neurological Surgery
- Gynaecology
- Urology
- Arthroscopy



The days are finally over when a special endoscopy trolley had to be used for each and every individual application area. The EndoSURGERY universal system now makes it possible to optimally perform all endoscopic applications in a wide range of disciplines, using one and the same device system.

### Innovation, efficiency and safety in the operating room

The EndoSURGERY mobile trolley solution is ideally suited for use in standard operating rooms as well as in fully integrated operating rooms with picture/video documentation and video routing/streaming.

Besides the obvious financial advantage that it offers, a multi-functional, future-proof platform facilitates predictable investments for expanding the system and using latest technologies. Operating rooms quickly and easily become capable of multi-indications, the space required in the operating room is reduced and the uniform operating concept ensures standardization across all disciplines.

The system components of the EndoSURGERY form a compact unit and offer excellent convenience with optimum quality.



## XION Trolley Premium with intelligent control centre

The innovative trolley and the individual XION components incorporated within it form a coordinated system featuring highest functionality. Features such as an integrated uninterruptible power supply (UPS), the isolation transformer with earth-leakage monitor, the central on/off control system and the isolated network interface with 1Gbit/s provide for an optimum work flow and meet all requirements for safety and ergonomics in complex endoscopic systems. Interfaces directly accessible from the outside facilitate easy connection of external video sources (e.g. operating-room microscope) or temporary secondary monitors and direct integration into the hospital network.

## XION DiVAS – digital video archiving and analysis with HIS/PACS connection

The modularly structured DiVAS software is scalable from a single-user solution for recording and editing patient, image, video and measurement data, to a complex network solution for recording all relevant examination data produced by an advanced clinic. Integration into the hospital information system (HIS) and the picture archiving and communication system (PACS) is possible at any time.

# MATRIX Spectar

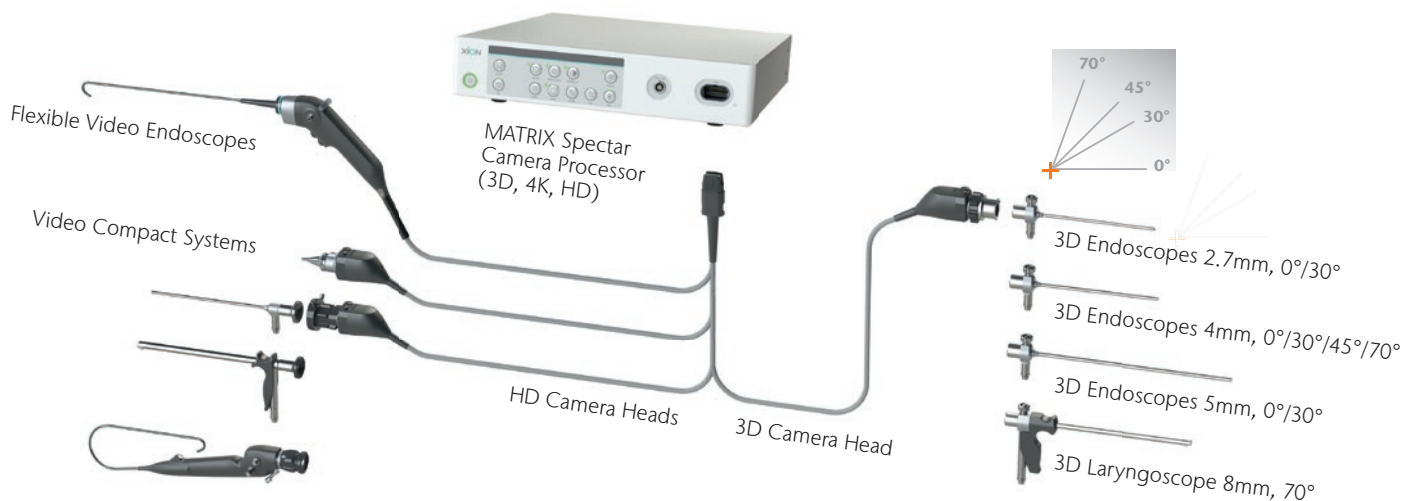
## The universal camera processor for highest demands



The Spectar camera platform has been designed to operate all current and future camera heads, rigid and flexible video endoscopes or video compact systems.

The MATRIX Spectar has been prepared both for native sensor resolutions up to 4K (4X HD) as well as for demanding 3D endoscopic applications. Based on decades of experience in endoscopy, this concept offers completely new possibilities, while maintaining the now familiar ease of handling.

The Spectar camera processor can be used with a wide range of equipment levels taking into account individual needs and budgets without compromising on image quality and flexibility.



HD, 4K

3D HD slim



## MATRIX MULTI PUMP

### The first multi-indication pump for minimally invasive surgery

The MATRIX MULTI PUMP is designed for flexible use in four different areas of surgery: laparoscopy, arthroscopy, hysteroscopy and urological endoscopy. The automatic pressure and flow control system ensures an ideal fluid balance, optimum visibility, and continuous process monitoring in compliance with the highest international safety standards.

Both for arthroscopy as well as for gynaecological and urological endoscopy, all common access instruments can be connected to the pump. For laparoscopy, the pump is used in combination with a suction-irrigation instrument that ensures the liquid supply and discharge to and from the surgical site.



## MATRIX FLOW Insufflator

### Versatile and reliable

With a maximum gas flow rate of 40l/min resp. 30l/min, neonatal mode and bariatric mode, as well as integrated gas-preheating, the MATRIX FLOW meets all requirements for CO<sub>2</sub> insufflation during laparoscopic interventions. The intelligent system automatically chooses the insufflation pressure that is optimum for the fill condition of the abdomen of the patient concerned. The insufflator adapts to the particular OR situation and the insufflation instruments being used, and thus achieves the optimum gas flow performance to ensure the highest level of patient safety. The clearly designed displays and operating elements ensure convenient user guidance.



## MATRIX LED Duo Light Source

### Very quiet, very bright and uniform illumination

The latest generation XION MATRIX LED Duo light source provides the user with increased brightness and homogeneous illumination of the entire image field. The optimized cooling system ensures very quiet operation.

In conjunction with XION Camera Processors, the system automatically controls the light intensity, thus excluding the risk of burns. Two separately controllable light outputs make it possible to have two application devices connected at the same time, so that workflow within the daily routine is improved. When the fibre-optic light guide is removed, the light source will turn itself off automatically.



## MATRIX DS Data Station

### Digital evaluation and archiving with DiVAS

The MATRIX DS Data Station with integrated DiVAS software is approved for usage in the medical environment and forms the basis for digitally recording, managing and evaluating of patient, image, video, audio and measurement data in XION endoscopy systems. It is an integral part of the archiving and analysis systems as well as all integrated operating room solutions from XION.

An essential requirement for making fast and efficient findings is a powerful software component that digitally records, assesses, documents and archives various diagnostics and therapy data. The modular structure of the DiVAS software facilitates adaptation of the function range to current requirements and leaves open all future extension options.



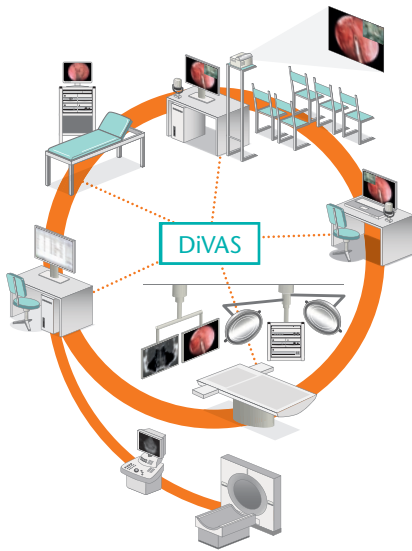
## Everything under control: The safe system with optimum handling

All modules of a XION system are perfectly matched to each other. Devices, optics and instruments form a unit that adapts to your way of working and supports your workflow. Technology from XION helps you to cope with the increasingly complex daily hospital routine.

Image	Date	Information
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	22.03.2007 22:15 No backup done.	Video Documentation
	21.03.2007 12:50 No backup done.	Video Documentation

## Everything in view: The information hub for your patient data

DiVAS software ensures valid, comfortable and fast diagnostic findings, their documentation and patient-related data storage. Your diagnostic and treatment data are recorded, analysed and archived. The modular design facilitates adaptation to your current and future needs. Your daily workflow is optimized and thus safer, so that you will have more time for your patients – now and in future.



## Everything in flow: The network that makes your hospital more efficient

XION systems can be networked and integrated into the HIS and PACS via standard interfaces (DICOM, HL7). All data are thus automatically, centrally and paperlessly stored. All video, image, audio and other patient data can be accessed from any workstation. Our live video conference system facilitates operating-room communication for second opinions or educational purposes. XION networks thus improve your workflow.

## Everything from one source: Endoscopy systems since 1991

XION develops and manufactures devices, endoscopes and instruments for ENT, arthroscopy, laparoscopy and hysteroscopy. In close cooperation with leading hospitals, XION creates practical and user-friendly system solutions. Well-established and interdisciplinary expertise in the fields of precision mechanics, optics, electronics and software are our basis for setting new standards in endoscopy. All products are manufactured at XION headquarters in Berlin, Germany and sold worldwide through an international network of branch offices and dealers.

