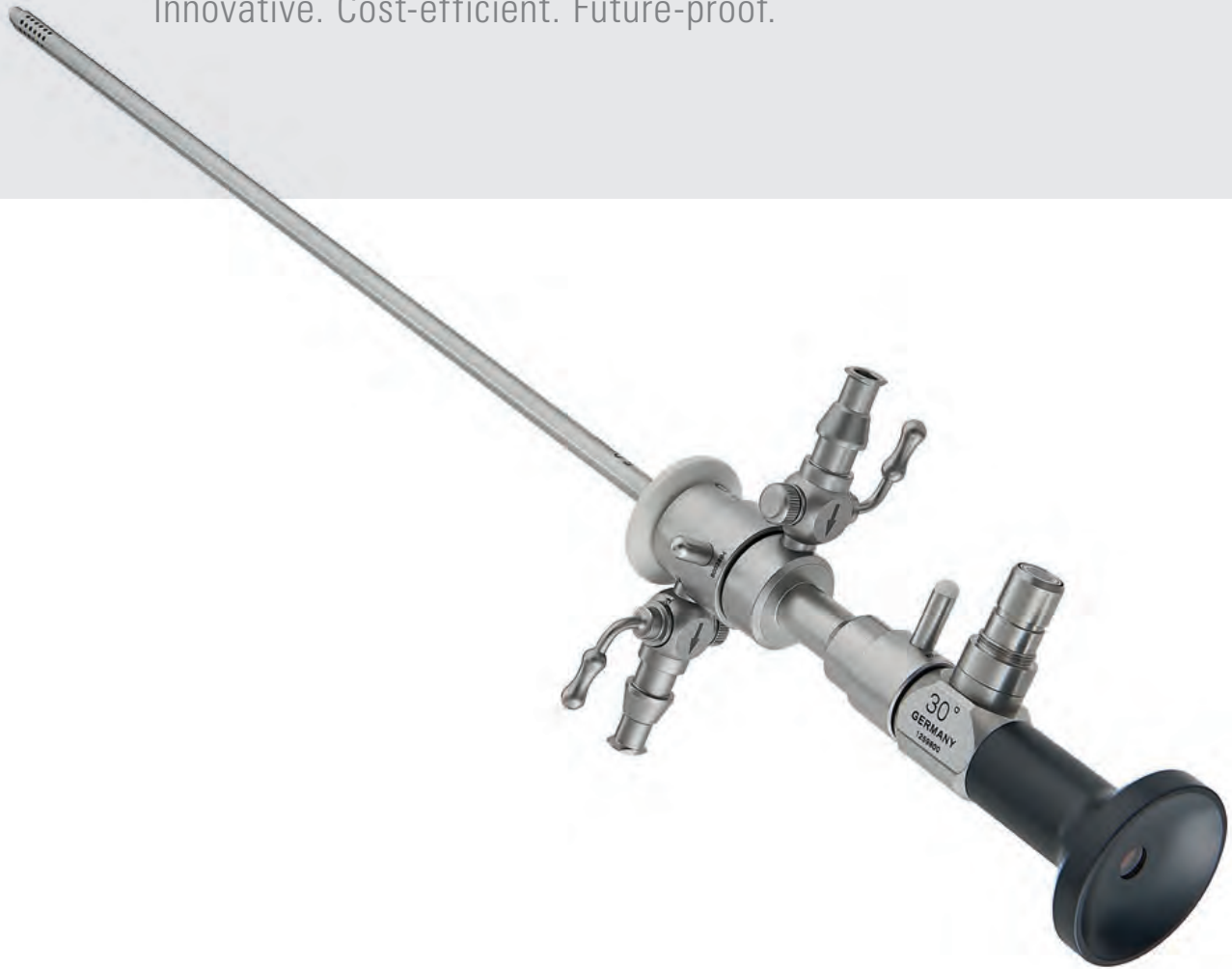


PRODUCT INFORMATION

# Hysteroscopy Systems

Innovative. Cost-efficient. Future-proof.



See more than others.



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## Hysteroscopy – Diagnosis and treatment of abnormal conditions

Since its early beginnings in 1805, Hysteroscopy has grown to become the standard method of choice to evaluate and manage many gynecological conditions. Furthermore, more often hysteroscopic interventions will be shifted from the operating theater to an office or ambulatory setting. This change is possible due to the evolvement of gynecological equipment. Sheaths with minimized outer diameters and optimized roughness depth of surface allow surgeons an extreme gentle insertion into the cervical os.<sup>1)</sup>



A revolutionary camera technology, developed by XION, forms the basis of the Spectar Hysteroscopy Systems, which meets all requirements of modern endoscopy. Thanks to optimized colour reproduction, minimized image noise and homogeneous illumination, the latest image processing routines developed by XION provide highest image quality. A wide range of equipment levels make sure that Spectar Camera Processors can be used taking account individual needs and budgets, without compromising image quality and flexibility.

1) L. Mettler, M. Parikh, T. Schollmeyer; Diagnostic and Operative Hysteroscopy;  
<https://bit.ly/2OiVj2X>

## EndoOFFICE

### The compact system for the office hysteroscopy



329 102 XXX

EndoOFFICE  
office hysteroscopy  
system

#### The system comprises the following components

- MATRIX EL Spectar HD Camera Processor with integrated light source
- Spectar Camera Head HD zoom
- Panel PC 21" with touchscreen
- DiVAS Basic/Patient Management module
- DiVAS HD Video Documentation module
- DiVAS Photo Documentation module
- Roller stand with EndoDESK system backplane
- Holder for HD camera head and light cable

#### Description of

- > DiVAS Module, page 10 ff
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The compact system EndoOFFICE is specially designed for use in the gynecological outpatient clinic and practice. The system components of the EndoOFFICE form a compact unit and offer excellent convenience with optimal quality. This system distinguishes itself with high image quality, ease of use and user-friendly acquisition, processing and storage of patient-, video- and image data.

## MATRIX EL Spectar

### The universal camera processor with integrated light source



The MATRIX EL combines the functionality of a high-quality HD camera processor and a powerful LED light source in a single compact, extremely quiet, universally applicable unit.

- Universal HD camera processor with integrated LED light source
- Excellent image quality by means of innovative, proprietary image processing routines
- Minimal image latency
- Extremely quiet operation
- Clearly arranged, intuitive keypad
- Highest patient safety by means of laser-optical galvanic isolation within the camera processor
- Long-life LEDs – low operating costs

## Spectar Camera Head HD Zoom



The highly sensitive Full HD sensor of the Spectar Camera Head provides detailed image reproduction. An optical Parfocal Zoom ( $f = 16$  through  $32$  mm) allows

the image size to be individually adapted without compromising quality and without the need for refocusing.

- Lightweight, ergonomic soft touch design
- Two customizable keys
- Extremely compact and very easy to handle
- Integrated Parfocal zoom lens
- Spectar Connector
- Sterile adapter for the optics change under sterile conditions

## Panel PC 21,5" with HD Touchscreen



- Powerful panel PC for use in critical medical fields
- High-quality 21.5" color display with excellent contrast ratio and low viewing angle dependency
- Native resolution 1,920 x 1,080
- Robust metal housing, cleanable and wipe disinfectable
- Fanless construction, therefore no noise pollution and no dust swirling

## DiVAS Software

User-friendly software optimize the entire workflow: The number of control steps are reduced to a minimum, patient data is easy to manage. All video, image, audio and measurement data are recorded, archived and evaluated. Documentations such as medical reports can be generated automatically.

[See page 10 ff](#)

## Roller Stand

The roller stand for the MATRIX EL and a panel PC with touch screen creates an extremely compact and mobile unit for the Office Hysteroscopy. Optional accessories such as drawer, storage basket or wireless foot switch complete the system.

## EndoGYN

### The universal system for all hysteroscopic applications



#### The system includes the following components as standard

- MATRIX PL Spectar 4K / HD Camera Processor with integrated light source
- Spectar Camera Head 4K
- MATRIX DS Data Station
- 31" 4K medical LCD monitor
- DiVAS Basic / Patient Management module
- DiVAS Video Documentation module
- DiVAS Photo Documentation module
- XION Equipment Trolley
- Holder for HD camera head and light cable

#### Description of

- > DiVAS Module, page 10 ff
- > Hysteroscopes and Sheths, page 12 ff

The EndoGYN System is suitable for use in gynecological ambulance or practice as well as in standard operating rooms or 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. A wide range of equipment levels make sure that EndoGYN can be used taking account individual needs and budgets, without compromising image quality and flexibility.

With this universal system it is possible for the first time, optimal to use all endoscopic and microscopic applications in the OR or ambulance with one and the same device system.

The universal system has been designed both for native sensor resolutions up to 4K (4 x HD) as well as for demanding 3D endoscopic and 3D microscopic applications.

A revolutionary camera technology, developed by XION, forms the basis of the MATRIX PL Spectar, which meets all requirements of modern endoscopy.



## MATRIX PL Spectar

The universal camera processor with integrated light source for highest demands



The Spectar Camera Platform provides the features necessary to operate all current and future camera heads, as well as all rigid and flexible video endoscopes. The XION Spectar has been designed both for native sensor resolutions up to 4K (4 x HD) as well as for demanding 3D endoscopic and 3D microscopic applications. Based on decades of experience in endoscopy, this concept offers completely new possibilities, while maintaining the now familiar ease of handling.

- Universal camera processors for 2D and 3D-endoscopy with native sensor resolutions up to 4K
- Excellent image quality by means of innovative, proprietary image processing routines
- Improved tissue differentiation using PIET Image Enhancement
- Minimum image latency
- Consistent and future-proof Spectar Connector for all 2D and 3D camera heads and video endoscopes
- Extremely quiet operation
- XION PowerControl – Central power-on control in the XION trolley
- Extensive device settings via the DiVAS software
- Highest patient safety by means of laser-optical galvanic isolation within the camera processor
- XION safety concept avoids loss of monitor image in the event of a computer crash

## Spectar Camera Head 4K



In conjunction with the MATRIX PL Spectar, the high resolution 4K sensor of the Spectar Camera Head provides extremely detailed, razor sharp, bright, lownoise images. The 4 times higher resolution compared to HD, plus the extended colour space, make it possible to detect very fine vessels and tissue structures much more easily – even when enlarged in a zoomed display. This provides greater precision and safety for the surgeon.

- Razor sharp, extremely detailed images
- Higher sensitivity and reduced noise
- Even the finest tissue structures can be reliably identified with the electronic zoom
- Better visibility and ease of use, more precision and safety
- Natural colour reproduction for a wide range of different applications
- Lightweight, compact, ergonomic soft touch design
- Two customizable keys

**329 218 001** Spectar Camera Head 4K

**320 080 050** Sterile adapter for Spectar Camera Head 4K 329 218 001 and Spectar Camera Head HD Zoom 329 200 001

**329 200 001** Spectar Camera Head HD Zoom  
[See description page 5](#)

## Spectar Camera Head C-mount for microscopy



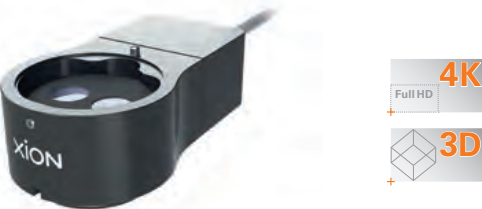
- Connection to microscopes
- 2 variants: 4K and HD
- Easy integration
- Extremely compact
- Accurately detailed, sharp images with natural colour rendition
- Spectar Connector

The compact Spectar C-mount Camera Head can be easily mounted on any colposcope and surgical microscope. This ensures highest-quality for video recordings and for co-observation.

**329 200 002** Spectar Camera Head HD C-mount

**329 216 002** Spectar Camera Head 4K C-mount

## Spectar 3D Microscope Camera 4K



- Easy integration
- Co-observation and recording of image data in 3D and 2D
- Accurately detailed, sharp images in 3D, with natural colour rendition
- Quick and easy switching between 3D microscopy and 3D or 2D endoscopy
- Improved workflow in the operating room
- Great potential for saving time and thus costs
- Spectar Connector

XION's Spectar 3D Microscope Camera enables 3D co-observation of the microscope image on a 3D monitor as well as 3D video recording. It is a useful extension of the MATRIX Spectar System and can be combined with most colposcope and surgical microscope.

**329 220 100** Spectar 3D Microscope Camera 4K, for colposcopes and OR microscopes

The Spectar 3D Microscope Camera empowers users to perform combined 3D microscopy and 3D or 2D endoscopy work, thanks to the rapid-switching feature for changing between endoscopic and microscopic image capture on an image processor used jointly for both methods.

## XION Trolley



XION's compact and space-saving trolleys offer the highest level of stability, flexibility and variety of equipment options. Due to their modular structure, they can be configured for the widest range of applications, and can subsequently also be adapted to changing requirements again and again..

- Optimal ease of operation provided by the central power control for all devices
- Maximum patient safety provided by the integrated isolation transformer and earth leakage monitor
- The XION Module housing system facilitates direct and space-saving mounting of the devices in the trolley



## Monitors 4K, Full HD, 3D



XION provides a variety of high-quality monitors that are approved for medical applications, to always ensure optimal quality for the most diverse areas of application.

- 330 027 003** 27"- Full HD medical LCD monitor
- 330 031 001** 31"- 4K medical LCD monitor
- 330 026 101** 26"- Full HD/3D medical LCD monitor
- 330 031 101** 31"- 4K/3D medical monitor

## MATRIX DS Data Station – Digital management, evaluation and archiving with DiVAS

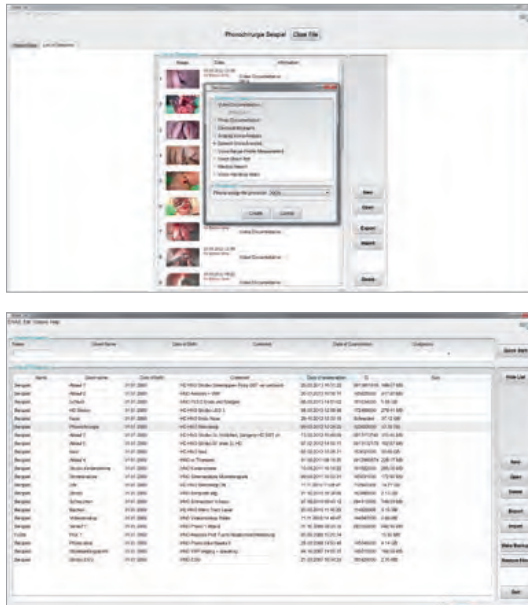


The MATRIX DS Data Station with integrated DiVAS software, which is approved for use in the medical environment, forms the basis for digitally recording, managing and evaluating patient, image, video, audio and measurement data in XION Endoscopy Systems. It is an integral part of the archiving and analysis 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. The DiVAS software module Base/Patient Management is always an integral part of the MATRIX DS Data Station.

- 350 010 883** MATRIX DS, multilingual data station including WIN10-64-bit, DiVAS Base/Patient Management module, 4K/HD grabber

## Recording, archiving and analysis with DiVAS

### DiVAS Base / Patient Management module



**350 020 000** DiVAS Base/Patient Management module

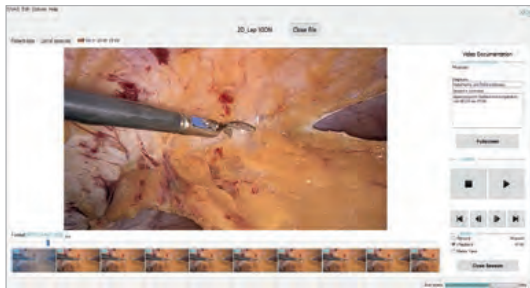
#### Essential characteristics

- Physician management: Creating and managing physician data
- Patient management: Viewing patient data, search and sorting functions
- Creating new sessions and managing existing sessions
- Data backup: It is possible to backup either all data or only the new data records. In addition, inadvertently deleted data can be restored.
- Comprehensive data import/export functions, such as individual sessions, complete patient records, export with time masks, exporting data – for example, from multiple sessions – into a medical report, importing medical reports
- Cleaning data carriers: Previously saved data (videos images etc.) can be deleted. However, the information about the session is maintained, and when the session is accessed, all deleted data can be restored with a mouse-click.
- Support for Microsoft Office 2003, 2007, 2010)
- Support for DICOM, HL7 and GDT /BDT interfaces
- The simple and intuitive user interface can be adapted to the individual user needs by means of shortcuts and context menus.

The Base / Patient Management module in conjunction with one further optional module is the essential minimum requirement for using DiVAS. This Base module contains the physician management software and the patient database. The information in the individual patient records includes name, address, date of birth, gender, identification and comment as well as the personal session list, which is used for managing the examinations performed, findings and other patient-specific files. The patient data can be entered manually, or by transfer from an existing database via the HL7, DICOM or GDT interface. The number of possible physician and patient records is not limited by DiVAS. Depending on the DiVAS modules installed, a wide range of examination and evaluation forms can be selected from the session list.

The examination results – in the form of image, video, measurement or audio data, tables or office documents – are saved digitally and can be archived on a regular basis on any storage media, depending on the configuration. Examination data can be exported from sessions and also imported into them, so that they are available for external evaluations, scientific papers and publications.

## DiVAS Video Documentation module



**350 020 010** DiVAS Video Documentation module

**350 020 019** DiVAS Full HD/4K Video module, supplement to 350 020 010 Video Documentation module

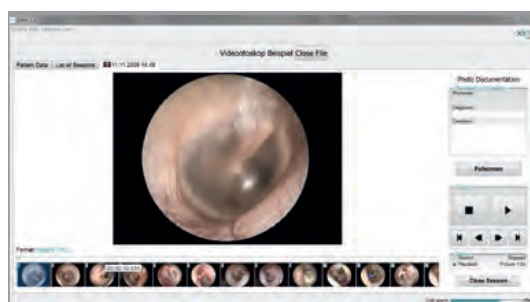
**350 020 025** DiVAS 3D Video module, supplement to 350 020 010 Video Documentation module

While the video image is being displayed live on the monitor, the data can be recorded in background at the resolution that is provided by the camera (e.g. Full HD 1,080p). The video format used is H.264 (MPEG4). The videos can be subsequently viewed individually or in parallel, and the images can be individually analysed, cut, archived or exported.

### Essential characteristics

- Support from two video sources at the same time
- Live preview on up to 4 monitors, picture-in-picture functionality, support for dual screen mode with full-screen video on the 2nd monitor
- Video playback, also frame by frame (image by image)
- Loss-free, non-destructive cutting of video recordings. To save memory space, destructive (final) cutting can be performed later in background.
- Print function for individual images (frames)
- Images (frames) can be pulled over into Microsoft Word documents by drag and drop, and the clipboard or external file can be exported.
- Videos can be exported to WMV format for presentations.
- The QUICK-START function enables fast video diagnoses without the need to first create a patient file. Sessions that were created in this way, can subsequently be supplemented with the necessary data or they can be discarded.
- Video data can be exported to the dysphagia, strobokymography, electroglottography and stroboscopy modules for evaluation
- Diagnostic input
- PACS export via DICOM/HL7
- Worklist import from KIS via DICOM/HL7
- Programming of camera head keys and device settings

## DiVAS Photo Documentation module



**350 020 011** DiVAS Photo Documentation module

An unlimited number of photos can be created during a session. Next, these can be evaluated, compared, deleted, exported, archived or printed individually or in the form of a slideshow.

### Essential characteristics

- Photo recording
- Playback, also as a slide show
- Print function for individual images
- Export of individual images as external files into Microsoft Word documents or via the clipboard
- The QUICK-START function enables fast photo diagnoses without the need to first create a patient file. Sessions that were created in this way, can subsequently be supplemented with the necessary data or they can be discarded.
- Diagnostic input
- PACS export via DICOM/HL7

## Office Hysteroscope Sheaths for Endoscopes Ø 2.9 mm

### Endoscopes Ø 2.9 mm

- Direct visualization of the uterine cavity
- High resolution from center to edge for full image performance
- Optic system is sealed using laser welding
- Sapphires at the distal and proximal end for enhanced durability
- Nitrogen-filled optical system to eliminate interior fogging



**115 303 101** Hysteroscope, Ø 2.9 mm, 12°, 300 mm, HD, autoclavable

**115 303 103** Hysteroscope, Ø 2.9 mm, 30°, 300 mm, HD, autoclavable

### Diagnostic Hysteroscopy

- No anesthesia needed
- Can be done in an office setting
- Examination of the uterine cavity to identify any intrauterine pathologies
- Optional obturator allows an even more gentle insertion
- Atraumatic insertion into the cervical os due to thin diameter sheaths



#### Diagnostic Single-Flow Sheath

**116 200 122** Hysteroscope Single-Flow Sheath, diameter 4 mm, working length 270 mm, rotatable stopcock, for 2.9 mm 30° scope, color code: white

**116 200 122FH** Hysteroscope Single-Flow Sheath, diameter 4 mm, working length 288 mm, fixed stopcock, for 2.9 mm 30° scope, color code: white

**116 200 102** Hysteroscope Obturator, for use with Single-Flow Sheath 116 200 122, 116 200 122FH and Inner Sheath 116 200 100



**Diagnostic Continuous-Flow-Sheath**

- 116 200 100** Hysteroscope Continuous-Flow Inner Sheath, diameter 4 mm, working length 260 mm, for 2.9 mm 30° scope, for use with Outer Sheath 116 200 201, color code: white
- 116 200 201** Hysteroscope Continuous-Flow Outer Sheath, diameter 5 mm, working length 244 mm, for 2.9 mm 30° scope, for use with inner sheath 116 200 100, color code: white
- 116 200 102** Hysteroscope Obturator, for use with Single-Flow Sheath 116 200 122, 116 200 122FH and Inner Sheath 116 200 100

**Operative Sheaths**

- Vagino-cervico hysteroscopy without speculum and tenaculum forceps
- No anesthesia needed
- Minimized intra- and postoperative complications
- Operating sheaths adapted to female anatomy reduce pain
- Diagnostics and treatment under vision within the same appointment
- Usage of 5 Fr. semi-rigid instruments and 5 Fr. bipolar electrodes
- Optional obturator allows an even more gentle insertion



**Continuous-Flow Teardrop-Shape Sheaths**

- 116 200 310QL** Hysteroscope Inner Sheath, working channel for 5 Fr. operating instruments, Quick-Lock, for 2.9mm, 30° scope, for use with Outer Sheath 116 200 300QL, color code: white
- 116 200 300QL** Hysteroscope Outer Sheath, diameter 5 mm, working length 192 mm, Quick-Lock, for use with Inner Sheath 116 200 310QL, color code: white
- 116 200 303** Hysteroscope Obturator, Quick-Lock, for use with Outer Sheath 116 200 300QL, color code: white
- 116 200 311QL** Hysteroscope Inner Sheath, working channel for 5 Fr. operating instruments, Quick-Lock, for 2.9 mm 30° scope, for use with Outer Sheath 116 200 301QL, color code: turquoise
- 116 200 301QL** Hysteroscope Outer Sheath, diameter 5 mm, working length 235 mm, Quick-Lock, for use with Inner Sheath 116 200 311QL, color code: turquoise
- 116 200 304** Hysteroscope Obturator, Quick-Lock, for use with Outer Sheath 116 200 301QL, color code: turquoise



### Operative Compact High-Flow Sheath

116 200 370H

Hysteroscope High-Flow Compact Sheath, diameter 5.5 mm, working length 212 mm, for 2.9 mm 12°/30° scope, with working channel for 5 Fr. operating instruments, working channel with stopcock, color code: white



## Hysteroscope Sheaths for Endoscopes Ø 4 mm

### Endoscopes Ø 4 mm



**115 304 100** Hysteroscope, Ø 4 mm, 12°, 300 mm, HD, autoclavable

**115 304 103** Hysteroscope, Ø 4 mm, 30°, 300 mm, HD, autoclavable

### Diagnostic Hysteroscopy



#### Diagnostic Single-Flow Sheath

**116 200 120** Hysteroscope Single-Flow Sheath, diameter 5 mm, working length 270 mm, rotatable stopcock, for 4 mm 30° scope, color code: blue

**116 200 120FH** Hysteroscope Single-Flow Sheath, diameter 5 mm, working length 270 mm, fixed stopcock, for 4 mm 30° scope, color code: blue

**116 200 107** Hysteroscope Obturator, for use with Single-Flow Sheath 116 200 120, 116 200 120FH and Inner Sheath 116 200 105 color code: blue



#### Diagnostic Continuous-Flow-Sheath

**116 200 105** Hysteroscope Continuous-Flow Inner Sheath, diameter 5.4 mm, working length 260 mm, for 4 mm 30° scope, for use with Outer Sheath 116 200 106, color code: blue

**116 200 106** Hysteroscope Continuous-Flow Outer Sheath, diameter 6.5 mm, working length 240 mm, for use with inner sheath 116 200 105, color code: blue

**116 200 107** Hysteroscope Obturator, for use with Single-Flow Sheath 116 200 120, 116 200 120FH and Inner Sheath 116 200 105 color code: blue

## Operative Sheaths

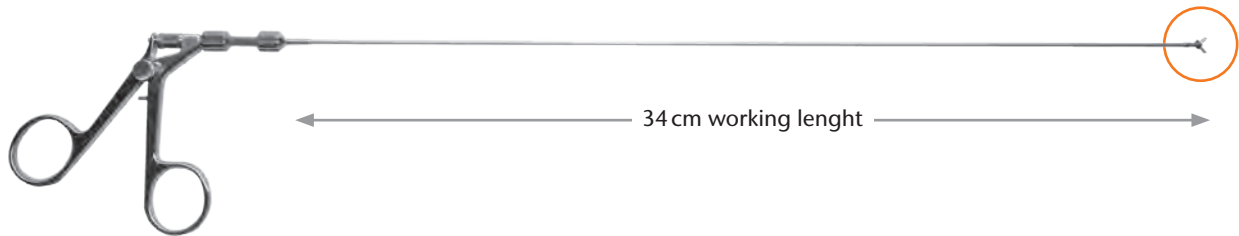


### Continuous-Flow Teardrop-Shape Sheaths

- 116 220 310QL** Hysteroscope Inner Sheath, working channel for 5 Fr. operating instruments, Quick-Lock, for 4 mm, 30° scope, for use with Outer Sheath 116 220 300QL, color code: blue
- 116 220 300QL** Hysteroscope Outer Sheath, diameter 6.5 mm, working length 192 mm, Quick-Lock, for use with Inner Sheath 116 220 310QL, color code: blue

## 5 Fr. Semi-Rigid Operating Instruments

- 5 Fr. Instruments with different jaw parts
- Reusable Instruments dismantlable and flushable
- Perfect treatment of minor abnormal conditions, e.g. polyps and fibroids
- Purely mechanical without use of any high frequency
- For use with common operative hysteroscopes with integrated 5 Fr. working channel
- Semi-Rigid Operating Instruments extraordinary useful for a cost effective procedure management



116 043 253

Scissors, semi-rigid, blunt, single-action jaws, dismantlable and flushable



116 043 252

Scissors, semi-rigid, pointed, single-action jaws, dismantlable and flushable



116 043 255

Alligator Forceps, semi-rigid, double-action jaws, dismantlable and flushable



116 043 251

Biopsy Forceps, semi-rigid, oval, double-action jaws, dismantlable and flushable



116 043 250

Cup Biopsy- and Grasping Forceps, semi-rigid, oval, serrated, double-action jaws, dismantlable and flushable



116 043 254

Punch, semi-rigid, single-action jaws, dismantlable and flushable



116 043 229

Cup Biopsy- and Grasping Forceps, semi-rigid, teeth interlock, double-action jaws, dismantlable and flushable



116 043 226

Grasping Forceps Rat Tooth, semi-rigid, 2:1 teeth, double-action jaws, dismantlable and flushable



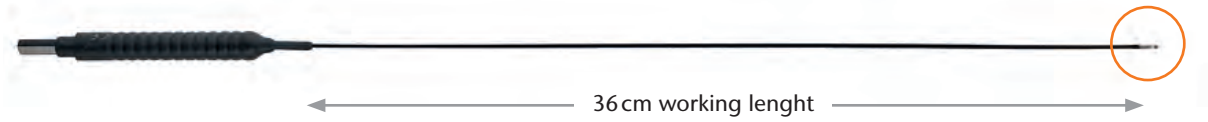
116 043 256

Cup Biopsy- and Grasping Forceps, semi-rigid, serrated, single-action jaws, dismantlable and flushable



## Dissection, Vaporization and Coagulation

- Reusable 5 Fr. high frequency instruments
- For use with all common operative hysteroscopes with integrated 5 Fr. working channel.
- For treatment of polyps, small fibroids and septum



**116 100 235** Button Electrode, bipolar, semi-rigid



**116 100 237** Needle Electrode, straight, bipolar, semi-rigid



**116 100 236** Needle Electrode, angulated, bipolar, semi-rigid





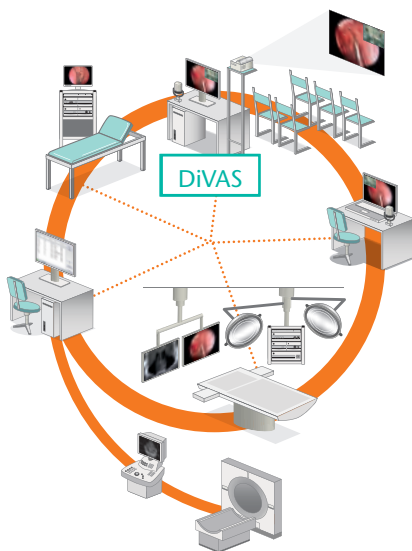
## Everything under control: The safe system with optimum handling

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.



## 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 the minimal invasive diagnostics and therapy. 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.



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