

JOIMAX® ENDOSCOPIC ELECTRICAL DEVICES | GENERATION 4

The expert solution for endoscopic spinal surgery. All devices work in unison with each other and feature special "spine settings" optimized for the joimax® operation methods for safe treatment of sensitive structures.

¹ Vitegra[®]

Visual Integration System

FULLY INTEGRATED DIGITAL DOCUMENTATION SYTSEM

² Camsource[®] LED

Camera & Light Source System

BRILLIANT IMAGES UP TO 4K

³Intracs[®] em

Integrated Navigation Tracking & Control System

SIMPLE AND PRECISE ELECTROMAGNETIC NAVIGATION

⁴Shrill[®]

Shaver Drill System

MULTI-FUNCTIONAL DRILL AND RESECTION SYSTEM

⁵ Endovapor[®] 2

Multi Radio Frequency System

COMBINES A VARIETY OF DIFFERENT ELECTRO-SURGICAL APPLICATIONS

⁶ Versicon[®]

Versatile Irrigation Control

MULTI-RANGE IRRIGATION PUMP FOR CLEAR VISIBILITY AND FLEXIBLE USE

¹JFMS 2620 | 3220 | 314KB

HIFH DEFINITION MEDICAL DISPLAYS FHD AND 4K



VISUALIZATION & DOCUMENTATION

joimax[®]







Vitegra® Docu

- Customized reporting options as Word or PDF file
- User accounts with individual settings
- Multiple export options

Vitegra® Command

- Remote control of all new generation joimax® endoscopic devices via tablet
- Wireless tablet allows control of the devices from anywhere in the OR
- Monitoring of the endoscopic devices during the surgical procedures by real time display of all important parameters on the main screen

Vitegra® Visual Integration System

FULLY INTEGRATED DOCUMENTATION AND COMMAND SYSTEM

- Wireless tablet to control the system from anywhere in the operation room
- Video and snapshot function via camera head buttons
- Multiple simultaneous video inputs for different signal sources like endoscopic camera, X-Ray, ultrasound, microscope, OR camera
- Voice control and voice-over video function
- Easy export of all patient data via Blu-ray, USB, LAN, DICOM



Live view in the documentation function



Device remote control in the command function

VISUALIZATION & DOCUMENTATION





Camera & Light Source System



Scope fixation

3 function buttons

Combo camera head

Connection

Ocular camera head

Focus adjustment

Focus adjustment

FUNCTIONS OF THE CAMERA SYSTEM

- "White Balance+" including automatic scaling optimization
- One-screen-display (OSD) with settings of all parameters
- Stepwise zoom function
- Flip (←→) and mirror (‡) function
- Adjustment functions of sharpness, contrast, saturation, color, window and boost
- Image capture function

TRUE BRILLIANCE – UP TO 4K

- Latest CMOS technology
- Full HD/4K resolution via DVI, HD-SDI, 3G-SDI and HDMI
- Integrated LED long-life light source, maintance-free
- Combo and ocular camera heads available
- Single cable technology
- Freely assignable camera head buttons (e.g. operation of Vitegra®)









Integrated Navigation Tracking & Control System



BENEFITS OF INTRACS® em

Electromagnetic navigation is the latest surgical technique for minimally invasive spinal procedures. It eliminates the need for constant X-ray control. As a result, the intervention time and radiation exposure are drastically reduced.

INSTRUMENT NAVIGATION DIRECTLY AT THE TIP – IN 2D AND 3D IMAGING

- The Intracs® em Navigation System can be integrated in the Endoscopic Tower or used as a stand-alone solution.
- Existing installations can be easily upgraded.
- The high-quality medical grade PC with 22" touch display is completely sealed and, therefore, easy to clean and disinfect.
- Navigation directly at the instrument tip with the speciaal sensorwire technology.

- Several instruments can be used and navigated simultaneously.
- The Intracs® em Field Generator is mounted onto the specially designed Intracs® em Mounting Arm.
- Various joimax[®] instruments are navigated with highest accuracy via Intracs[®] em sensors.



MILLING & DRILLING





MULTIFUNCTIONAL DRILL AND

RESECTION SYSTEM

- 2 types of handpieces available:
 - Shaver handpiece
 - Universal motor handpiece
- 3 memory slots for individual user settings

SHRILL® HANDPIECES

- Speed regulation directly on the handpiece
- Quick connection for various attachments
- Autoclavable
- Suction regulation

Quick-connect for all attachments allows a quick and safe change Activation key including speed control Shift key right or left rotation Drill chuck, keyless Drill chuck, keyless, AO • University Universi

UNIVERSAL MOTOR HANDPIECE

SHAVER HANDPIECE



- Moderate speed with high torque for controlled ablation of tissue with continuous flushing.
- Automatic detection of the Shaver Blade by magnetic detection.

Shrill® Shaver Blade Diamond Abrasor for secure bone resection near nerves

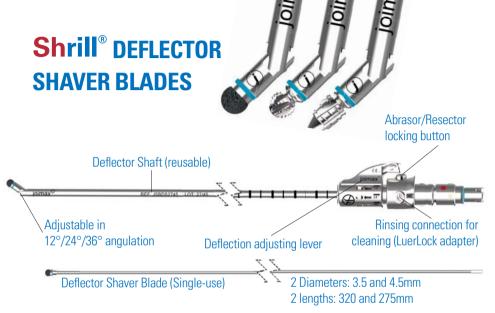


- Quick-connect system for rapid, reliable changing of attachments
- Operation via handpiece buttons









EVEN MORE PRECISE ANGULATION AND EVEN EASIER APPLICATION

- Safe and convenient angulation via lever on the shaft.
- Angle can be adjusted precisely to 12°, 24° or 36°.



SIMPLE HANDLING

 Gentle ablation of soft tissues (cysts, hypertrophic ligaments).

milling, cutting, abrasing.

WITHOUT COMPLEX MECHANISM

Efficient ablation of bone and hypertrophic

Tissue-specific design of the attachments:

ligamentum flavum in the case of stenoses.

Depth graduation for higher safety during use.

Color-coded for fast and easy identification

joimax®

Endovapor®2

Multi Radio Frequency System

COMBINES A VARIETY OF ELECTRO-SURGICAL MODES

AND EFFECTS

 Specially integrated programs for spine surgery; cutting and coagulation; bipolar and monopolar

- All-in-one generator with interdisciplinary application
- 4 sockets: 2 x monopolar, 2 x bipolar
- Easy, intuitive touch operation
- Arc control for optimized treatment effect
- Neutral electrode monitoring



THE ARC REGULATION

The integrated arc regulator automatically adjusts the power output depending on tissue and handling of the probe, which leads to continuous cutting and avoids sticking of the electrode to the tissue.

joimax®

VAPORFLEX® AND LEGATO® – BIPOLAR AND MONOPOLAR PROBES FOR SAFE AND EASY APPLICATION



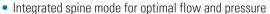
Rhizotomy (Monopolar COAG Mode)

IRRIGATION & SUCTION





The Versicon® pump is optimized for minimally invasive spinal surgeries. Flow and pressure are under constant automatic control. In addition, the pump features an integrated flush function which can be activated by foot switch.



- Additional integrated Arthro Mode
- Permanent control of flow and pressure
- Easily insertable, disposable tube set
- Replaceable patient line with check valve

Versicon® After Spire Codes On Code Spire Codes Foreign Spire Codes	

	Spine program	Arthro program*
Flow range	0 - 750 ml/min	0 - 2500 ml/min
Pressure range	0 -100 mmHg	0 - 200 mmHg

^{*} Arthro mode not available on the US market.



PERFECTLY FLUSHED: THE DISPOSABLE TUBING SET

A disposable tube set for the spine irrigation pump, including Y-connectors for IV-bags and patients tubes.

JFMS 2620 | 3220 | 314KB



FHD AND 4K UHD – HIGH DEFINITION MEDICAL DISPLAYS

Whether ultrasound or endoscopy — the best visualization technology is only as good as the screen that it is displayed on. The high-resolution 26" and 32" flat-screens meet even the most demanding requirements.





EVERYTHING AT A GLANCE

They are splash-proof and offer an OSD (On-Screen Display) menu and number of practical features such as the image-in-image function.

TECHNICAL DETAILS

- TFT-monitor 26" (FHD) and 32" (FHD and 4K UHD)
- High resolution:
 - 1920x1080 pixel Full HD
 - 3840x2160 pixel 4K UHD
- Maximum viewing angle: horizontal 178°, vertical 178°
- Smooth overall surface, EMV tested, splash water protected
- Connections: DVI, SDI, RGB, S-Video, Video, HDMI
- Picture-in-picture function
- OSD Touch control panel



joimax® GmbH

Amalienbadstrasse 41, RaumFabrik 61 76227 Karlsruhe, Germany

 Phone
 +49 (0) 721 255 14-0

 Fax
 +49 (0) 721 255 14-920

 E-Mail
 info@joimax.com

 Net
 www.joimax.com

joimax®, Inc.

140 Technology Drive, Suite 150 Irvine, CA 92618, USA

Phone +1 949 859 3472 Fax +1 949 859 3473 E-Mail info@joimaxusa.com Net www.joimax.com joimax® Asia.

Rykadan Capital Tower, 135 Hoi Bun Road, Kwun Tong, Hong Kong

Phone +852 29116418 E-Mail asia@joimax.com Net www.joimax.com

FLYDEVEN; TD_DIVE_00_PI_047; Rev. 004; April 2020

This document contains information protected by copyright and property law and may not be copied in full or in parts thereof or transferred to a further medium in any form. Distribution to third parties is prohibited, joimax®, TES®, TESSYS®, CESSYS®, MultiZYTE®, intENTS®, EndoLIP®, Percusys®, Loctan®, Vitegra®, Camsource®, Shritl®, Versicon®, Intracs®, Endovapor®, Vaporgiro®, Vaporgrip®, Vaporgrip®, Vaporgrip®, Vaporgrip®, Tessenger, Sparts, Sparts,

