Transforming possibilities into realities.

ZEISS TIVATO 700

zeiss.com/tivato

ZEISS

Seeing beyond

Enhance precision and efficiency
in your OR

Today’s microsurgical landscapes require modern technologies capable of performing advanced procedures in a simple, intuitive way. Reliable performance for all your patients is key.

For demanding surgical applications, look no further than TIVATO® 700 from ZEISS. Understanding your daily surgical workflows, this fully integrated state-of-the-art Advanced Visualization System enhances usability. In addition, it flexibly supports intraoperative fluorescence- and navigation-guided procedures as well as hospital IT infrastructure integration.

During advanced surgical interventions and post-procedure workflows, ZEISS TIVATO 700 is your intelligent partner enhancing all-around performance when needed most.
It offers:

- Workflow-Enhancing Visualization
- Ultimate Reach & Flexibility
- All-Digital

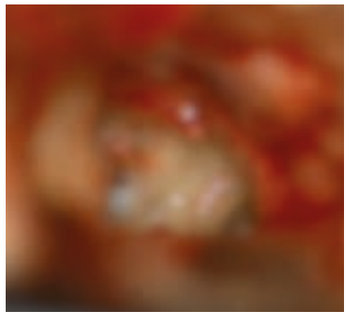
Workflow-Enhancing Visualization
with state-of-the-art imaging

New treatment modalities, enhanced visualization, and brilliant broadcasting of procedures in the operating room (OR) – the surgical landscape is changing at a rapid pace. Without the best tools and most intuitive technologies, your workflow can be disrupted inside and outside of the OR.

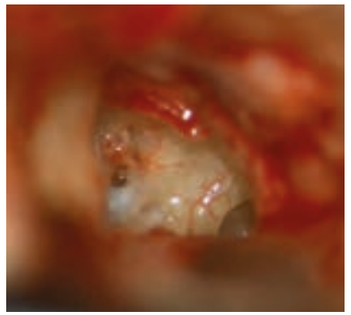
Workflow-Enhancing Visualization supports your procedure by providing easy access to state-of-the-art imaging. ZEISS TIVATO 700 enables effortless use of advanced surgical visualization modalities and delivers superb image clarity for every application.

Visualization enhanced – ZEISS TIVATO 700

Integrated 4K visualization
Inside the OR, you can broadcast the surgical treatment every step of the way in brilliant detail with the integrated 4K camera technology, while the large external monitor allows for easy viewing by your entire team.



Unsharp image after repositioning



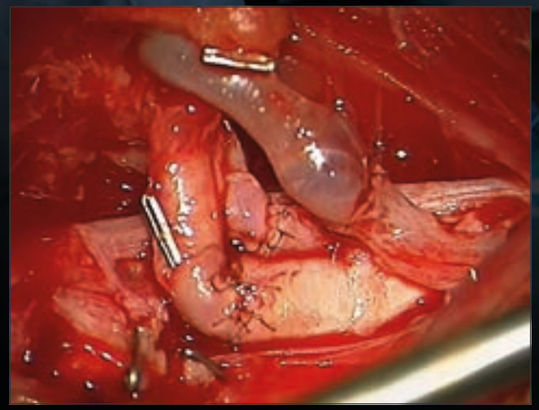
Razor-sharp image after activating SpeedFokus

SpeedFokus
SpeedFokus simplifies microscope adjustments by means of its fast, precise, and automatic focus. This could make a significant contribution to increasing the efficiency of your surgical workflow. With just a press of the button on the handgrip or foot control panel, SpeedFokus automatically delivers a razor-sharp image.

Fluorescence-guided procedures

Switch between white light and fluorescence view

Leveraging the brilliant apochromatic optics from ZEISS, you can venture into new areas using intraoperative fluorescence[1] options. Assess the patency of vessels joined by anastomosis with ZEISS INFRARED 800. Go one step further with ZEISS YELLOW 560 to visualize fluorescence-stained structures for additional clinical applications.



Vessels after anastomosis under white light

Check of vessel patency after anastomosis with ZEISS INFRARED 800

[1] Please use the fluorescent agent as per the approval status for the application in your country.

Ultimate Reach & Flexibility
to handle any OR situation confidently

The OR is a demanding place full of activity – with multiple people and devices all inside a small room. Yet, different types of procedures require different set-ups and workflows. Every day in the OR is different and any disruption, such as elaborate rebalancing, can hinder desired clinical outcomes.

Ultimate Reach & Flexibility gives you and your team the freedom to handle every OR situation with confidence. ZEISS TIVATO 700 offers ultimate reach, excellent overhead clearance, and a large working distance to adapt to the specific set-up of the procedure at hand. At the same time, Active Vibration Damping reduces unwanted vibrations after repositioning. Moreover, convenient functionalities like AutoBalance and AutoDrape® make it easy to prepare the device for daily use.

Flexibility reached – ZEISS TIVATO 700

Active Vibration Damping for high stability
Avoid undesirable vibrations during procedures after the repositioning of the visualization system and during small movements – even at high magnification. The innovative Active Vibration Damping, strengthened by robotic movements, supports you to streamline your surgical workflow.

Ultimate reach

Flexible positioning
Thanks to the long microscope arm of ZEISS TIVATO 700, you can flexibly position the base as space allows in the OR and still operate comfortably with ultimate reach. The excellent overhead clearance enables you to work under the arm of the visualization system in every setup. When working with long instruments, you can rely on the large working distance.

Excellent overhead clearance

Large working distance

The plus in flexibility
to support your workflow

Easily prepare ZEISS TIVATO 700 for daily use with the integrated functions that support your clinical workflow and efficient handling.

Optical flexibility
Whether you opt for lateral co-observation or face-to-face configurations, our wide range of optical accessories ensures that you can work in a comfortable position.

Intuitive graphical user interface
ZEISS TIVATO 700 offers you an intuitive graphical user interface that makes interacting with the system easy for everyone in the OR. Operate the visualization system efficiently and change settings quickly.

AutoDrape
Facilitate the draping process by automatically evacuating the air inside the sterile drape for an excellent fit while minimizing draping slack and optimizing system movement.

AutoBalance
Automatically balance the surgical microscope at the touch of a button to enable fast setup and optimum mobility, even when draped.

All-Digital
with an easy-to-use and future-ready platform

Frequently rotating OR teams require easy-to-use medical equipment with intuitive user interfaces. Integrated medical devices allow for faster turnaround in the OR so that more patients can be treated, leading to procedural efficiency.

The Advanced Visualization System enables you to access leading digital solutions from ZEISS to simplify data management and facilitate peer collaboration and education. Go All-Digital with an easy-to-use and future-ready platform for a seamless entry into the world of fully connected visualization systems.

Digital ORs connected – ZEISS TIVATO 700

Simplify Data Management
Digital solutions from ZEISS

ZEISS offers various iOS- and web-based apps that support an easy and efficient pathway to data management and facilitate professional peer collaboration.

Web-based apps

Efficiently manage your data and peer collaboration
Upload your recorded images and videos to ZEISS Surgical Cloud to manage patient and treatment information with your ZEISS TIVATO 700 easily. It supports you to enhance your professional collaboration and extend your network by remote sharing of large files and knowledge with your peers.

Educate and present in real time to a bigger audience
ZEISS Livestream allows you to schedule a live surgery or treatment and send out invitation links to participants in advance. On the day of the live event, your participants can watch the procedure via the secure web link in just a few clicks.

iOS-based apps

Connect your iPad to ZEISS TIVATO 700
ZEISS TIVATO 700 optionally comes with a full connectivity package, including the ZEISS Connect App to digitally manage surgical data. Furthermore, dedicated functionalities support you to integrate it into an existing hospital IT infrastructure. The app allows you to easily visualize, organize, and archive photos and videos of your surgical cases for documentation and peer communication.

Stream in real time on an iPhone
With ZEISS Observe, students and guests can easily follow the treatment in real time on a mobile device without sophisticated equipment. For a 3D immersive VR experience, any VR headset can be used.

ZEISS Smart Services
New dimensions in service

ZEISS TIVATO 700 is powered by ZEISS Smart Services, the remote service platform from ZEISS. With this platform, ZEISS strives to establish a new dimension in service. Its architecture provides a high level of IT infrastructure security and offers all stakeholders more confidence in conducting daily business.

Is maintaining system availability of critical importance to you? If this is the case, you should opt for fast, qualified assistance with an OPTIME service agreement including ZEISS Smart Services.

All highlights at a glance

ZEISS TIVATO 700

Ultimate reach

Active Vibration Damping

Free selection of tubes
Straight binocular tube, 180° tiltable tube, Foldable Tube f170/f260

Motorized XY movement

4K camera
3-chip, 2160p

SpeedFokus

Large working distance
200 – 625 mm

Integrated 24“ touchscreen

Co-observation
Side-observation, face-to-face observation

AutoBalance

AutoDrape

Fluorescence options
ZEISS INFRARED 800, ZEISS YELLOW 560

Technical Data

ZEISS TIVATO 700

Technical Data	
Rated Voltage	100 V–240 V AC
Current Consumption	Max. 800 VA
Rated Frequency	50 Hz–60 Hz
Electrical Standard	IEC 60601-1, IEC 60601-1-2, IEC 62304, CAN/CSA-C22.2 NO. 60601-1
	Degree of protection against electric shock: Class 1
Weight	Total weight of device with max. add. load: Max. 395 kg
	Total weight of the device incl. wooden transport box: Approx. 595 kg

	Packages	Essential	Standard	Spine Comfort	ENT Comfort	Premium
System	TIVATO 700 Essential system	●	–	–	–	–
	TIVATO 700 Basic system	–	●	●	●	●
Integrated touch video monitor	On swivel arm for different viewing angles	–	●	●	●	●
	Tilting 10° up and 15° down	●	–	–	–	–
Main Tubes	Straight binocular tube	○	○	□[1]	□[1]	□[1]
	180° tiltable tube	○	○	–	○	–
	Foldable Tube f170/f260	–	○	●	○	●
Eyepieces	10× wide-field eyepieces	○	○	○	○	○
	12,5× wide-field eyepieces	○	○	○	○	○
Focus	SpeedFokus	–	□	●	□	●
Working Distance	200–500 mm	●	–	–	–	–
	200–625 mm	–	●	●	●	●
Illumination	Xenon – Fully integrated Xenon light source with automatic lamp exchange	–	○	○	○	●
	TriLED – Fully integrated LED light source	●	○	○	○	–
Face-to-face observation	Face-to-face with Stereo Bridge	□	□	●	□	□
Side-Observation	Left/right with stereo co-observer	○	○	○	●	○
	Side Port Preparation left/right	○	○	○	–	○
	No Side Port – side observation excluded	○	○	○	–	–
Balance	GuidedBalance	●	–	–	–	–
	AutoBalance	–	●	●	●	●
XY-Movement	Angular movement with joystick or foot pedal	–	□	□	●	●
Video System	Standard HD Video Package – Fully integrated 1-chip HD camera, 1080p	●	○	–	–	–
	Premium HD Video Package – Fully integrated 3-chip HD camera, 1080p	□[2]	○	○	○	–
	4K Video Package – Fully integrated 3-chip 4K camera, 2160p	–	–	○	○	●
Video Options	Video recording	□	□	□	□	●
	HD Video-In	–	□	□	●	●
Fluorescence[3]	YELLOW 560	–	–	□	○	●
	YELLOW 560 LED	□	□	□	□	–
	INFRARED 800	–	–	□	○	●
Visualization	Additional Depth of Field	□	□	□	●	●
Networking & Storage	Integrated 1TB harddrive	□	□	□	□	●
	Wireless Network Package – Enables WLAN and WiFi Hot Spot functionality	●	●	●	●	●
	LAN Interface[4]	–	–	□	□	□
	Shared Network Package – Storage on shared network directories	□	□	□	□	●
	DICOM Package – Patient data exchange with PACS system via DICOM	□	□	□	□	●
	ZEISS Surgical Cloud and ZEISS Livestream Preparation[5]	□	□	□	□	●
	ZEISS Smart Services Package – Connectivity for ZEISS Smart Services	●	●	●	●	●
Navigation	Navigation Package	–	–	□	□	□

[1] available as an additional tube
[2] only available with YELLOW 560 LED
[3] separate module necessary for activation
[4] only available with Navigation Package
[5] audio excluded; enabled with DICOM

● Basic ○ Configurable □ Option

Cochlea implantation surgery: *Image courtesy of Joachim Hornung, MD, University Clinic Erlangen, Germany (Page 1)*
Revision stapes surgery: *Image courtesy of Mary Daval, MD, Hôspital Fondation Adolphe de Rothschild, Paris, France (Page 2, 5, 6 and 8)*
Anastomosis surgery: *Image courtesy of Milomir Ninkovic, MD, University Clinic, Bogenhausen, Germany; recorded with ZEISS OPMI PENTERO 900 (Page 7)*

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TIVATO 700
YELLOW 560

CE 0297

INFRARED 800 with FLOW 800 Option
SMARTDRAPE

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