TOUCH THE FUTURE
TEGRIS O.R. INTEGRATION SYSTEM

CAUTION: Federal (US) law restricts this device to sale by or on the order of a physician. Refer to Instructions for Use for current indications, warnings, contraindications, and precautions.
Today’s OR has been revolutionized with high-tech medical devices, digital imaging and videos, and the focus on documentation and communication. This highly complex environment demands a simplified, seamless integration of diverse technologies.

TEGRIS answers real-world needs delivering unparalleled functionality for OR integration. With its intuitive user interface and elegant compact design, surgeons and staff have control of the OR at their fingertips. Video inputs can be recorded from a range of sources and visuals can be displayed, saved or streamed with a single touch. Integration of data from the HIS and PACS is seamless and simple. Users can easily adjust settings for operating tables, surgical lighting and other devices. And by integrating checklists into OR workflows, TEGRIS supports patient safety initiatives.

Benefits at a glance:
■ Simplify workflows and boost efficiency: intuitive user interface supports OR processes
■ Support safety initiatives: direct access to accurate patient data and integration of surgical safety checklists
■ Integrate with hospital systems: software is compatible with a broad range of standard formats and hospital information systems — and is vendor-neutral in terms of endoscope manufacturer, for example
■ Improve communication and collaboration: stream footage live from the OR to lecture halls, conference rooms or doctors’ offices
■ Protect your investment: the modular system can grow with your needs
■ Promote organized workspaces: compact hardware can be placed in multiple locations including the OR and control room, eliminating unnecessary cables in the operating room

The TEGRIS user interface: intuitive user interface with universal icons.

The TEGRIS unit: state-of-the-art technology in a compact, elegant design.
Everything you need right at your fingertips: The simple, intuitive TEGRIS user interface gives staff one central point to record information and integrate with OR equipment and room functions. Call up images instantly from the HIS or PACS, and display them on monitors in HD quality. Create custom profiles for specific surgeons or procedures, saving valuable time under pressure. And support your workflows with integrated checklists and direct access to patient databases.

Supports safety initiatives: Since all patient information is imported directly from the HIS, no manual data entry is needed — helping to minimize errors. Surgical safety checklists are seamlessly integrated into the system’s workflow model. Because the software supports staff in all OR management tasks, they can focus on the patient. Additionally, the smart hardware design minimizes excess cabling, promoting a safer, more organized working environment.

Record, archive and access images at the touch of the screen: Capture high-definition images, videos, and vital data (from endoscopes, OR cameras, etc.) during the procedure. TEGRIS can record two video sources in HD quality simultaneously – and requires no traditional AV hardware. Save images and videos directly to your PACS in DICOM format and call up patient data directly from the central touch screen. Stream footage directly from the OR to lecture halls, conference rooms or offices for training or consultation.

High compatibility and future-proof investment: Designed for maximum flexibility, TEGRIS interfaces with diverse systems including HIS, PACS and other patient databases. It supports all common hardware and software interfaces, is vendor-neutral with regard to certain OR devices, such as endoscope manufacturers, and works with universal standards (e.g., DICOM). Because it integrates seamlessly into the existing IT environment, it can adapt to changing requirements — making it a future-proof solution that will benefit your hospital for years to come.
**THE ENTIRE O.R. AT YOUR FINGERTIPS**

**TEGRIS IN ACTION**

**TEGRIS is the solution.** Developed to meet real-world needs, this modular system delivers elegant, unparalleled functionality for OR integration.

**From cameras and monitors to surgical tables and lighting systems,** TEGRIS practically integrates every element of the operating room with a touch of the screen.

- Transmit live images from inside the OR – for training purposes or consultation with off-site experts.
- Display, route, and record images from endoscopic tower.
- Integrate all surgical light functions.
- Open and close window blinds and adjust room lighting.
- Create an uncluttered, flexible OR environment by eliminating excess cables.
- Manage the OR from a central touch screen for enhanced workflow.
Using a single, user-friendly interface, OR staff can track workflows, access patient databases, stream video within or outside the hospital, adjust room heating or ventilation — and much more.

A modular design, TEGRIS allows you to only pay for the functionality you actually need. And because hardware and software are scalable, the system can grow with your requirements.
POWERFUL AND COMPREHENSIVE
TEGRIS FEATURES

WORKFLOW SUPPORT
- Workflow-supporting user interface is configurable to the
  needs of the user
- Interfaces with leading patient data systems including HIS,
  RIS, OR planning, etc.

SAFETY FEATURES
- Display, confirm, save, and printout a surgical safety check-
  list in compliance with JCAHO recommendations
- Patient data is visible on all screens; selected patient is
easily verified by OR staff
- Emergency stop button for integrated devices

VIDEO ROUTING AND DOCUMENTATION
- Individual assignment of video source to monitor
- Presets for user-defined scenarios enable rapid system
  setup (e.g. special procedures or personalized setup for
  individual surgeons)
- Recording resolution of up to full HD 1920 x 1080 (1080p)
  including audio signal
- Secondary recording option up to HD (720p) including
  audio signal
- Time-shift recording (up to 10 seconds buffer)
- Full HD picture-in-picture (PIP) functionality for displaying
  and recording multiple video signals; also supports Quad-
  PIP and Dual-Split; software-based — no hardware or video
  inputs and outputs required
- Monitor up to 32 video inputs
- Autodetection recognizes video source and adjusts system
to correct resolution
- No video inputs and outputs used for PIP, routing, recording
  and transmission
- Printout of recorded images
- Export to USB stick, USB HDD, DVD/Blu-ray™ Disc burner,
  network or PACS-server
- Retrieval of patient data (work list) from HIS or RIS/PACS
- Auto-fill of patient demographics with predefined values
  for emergency patients

DEVICE INTEGRATION
- Integration of the following devices:
  - MAQUET OR tables
  - MAQUET PowerLED OR lights
  - MAQUET ORCHIS/ORCHIDE HD light camera
  - MAQUET room camera
  - Endoscopy integration of image and video recordings
  - Richard Wolf® endoscopy integration (camera, insufflator,
    light source)
  - Music interface with docking station for iPod® and iPhone®
  - Room functions such as VAC, room lights or blinds
- Device integration is always implemented with the same look
  and feel as the original device controller

EXTERNAL COMMUNICATIONS
- Live video and audio streaming in SD or HD — ideal for a
  lecture hall or doctor’s office
- Audio inputs for room or wireless microphone

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Blu-ray is a trademark of the Blu-ray Disc Association.
Richard Wolf is a registered trademark of Richard Wolf Medical Instruments Corporation (RWMIC).
All key patient data is clearly displayed at all times
More information can be accessed by simply touching the patient’s name

High definition graphic display, supporting full HD picture-in-picture (PiP) functionality for displaying and recording multiple video signals
Patient data overlaid on all monitors, videos and snapshots taken during the procedure
Screen colors are muted to minimize distractions
Multi-function interface is easy to learn and navigate
Workflow menu:
- Guides user through the entire OR workflow from start to finish
- Divided into three stages for maximum clarity: pre-op, intra-op and post-op
- Tasks are defined for each stage — these can be configured as needed
- Surgical safety checklists are integrated every step of the way to support patient safety initiatives

Quick navigation:
- By simply touching the screen, you are taken directly to the corresponding function
- Allows you to rapidly access the functions you use most often, saving valuable time during or between procedures

Manual access:
- All system functions are readily accessible, whether or not they are configured in your workflow
- Intuitive pictograms and drop-down menus allows you to rapidly find and access what you are looking for