



# Tegris

Redefining OR Integration

# Improving OR efficiency

Tegris unites video routing, recording and transmission, data management, device operation and more in a single, user-friendly unit. These features help you boost efficiency, enhance patient safety and create seamless workflows in the OR environment.

Introduced as a revolutionary OR integration system, Getinge has continuously developed and enhanced the capabilities of the Tegris system. It merges the vast experience of hundreds of operating rooms with the combined expertise of past and current users with the latest in technological advances. For these reasons, Tegris has quickly become one of the leading OR integration systems.

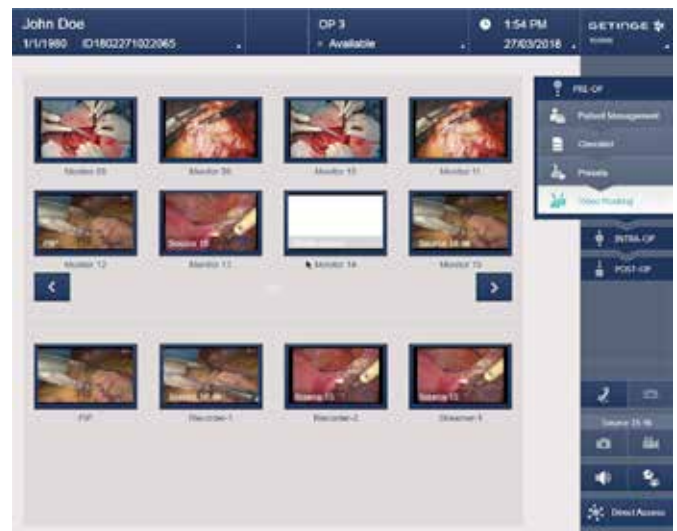
Every day, Tegris improves efficiency in more than a thousand operating rooms worldwide.

## Powerful and compact

The lean, compact system design, combined with state-of-the-art video technology, offers an unmatched richness of capabilities. With the modular Tegris system, customers only pay for what they need, when they need it, and are free to upgrade as required.

## OR integration has never been easier

Simply connect endoscope, microscope, OR light camera and all other video sources directly to Tegris without image quality degradation. Tegris reduces wasted space and cost and allows flexible placement inside the OR, in a rack, in a technical room or wherever there is space available.



Intuitive user interface

# Outstanding Tegris features make the difference

## Freedom of choice

Tegris offers freedom of choice when it comes to endoscopy and imaging equipment. With its versatile OR integration capabilities, Tegris will work with any endoscopy imaging manufacturer's product.

## It's your OR

Tegris supports ergonomic ways of working in the OR. The system is designed to optimally support the clinician's preferred OR workflows. The Tegris user interface (UI) guides users through the procedure steps — exactly as the clinician defined them. The UI is outstanding, with Tegris being awarded the iF communication design award and the Red Dot design award "best of the best".



reddot design award

## Patient safety comes first

Patient information is displayed as text-insert on monitors, visible to every team member in the OR.

## Record video before you press the button

The system starts recording a few seconds before the recording button even is pressed (time shift recording), capturing valuable information.

## Keep the overview and the detail

Tegris supports simultaneous recording of two video signals in HD, such as a room camera and an endoscopy camera. With automatic recording and export of data, Tegris ensures proper documentation allowing your staff to concentrate on what is important: the best possible care for patients.

## Connect video sources without converting

Tegris accepts nearly all video standards in the OR as direct input, without conversion. Based on Video-over-IP technology, Tegris supports universal connectors for simplified plug-and-play setup. No compression and super-low latency guarantees high-imaging performance for optimal surgical support.



# Technical information

## Hardware

Housing size (H x W x D)	9.4 x 17 x 22.4 in. (19 in. 5 U) 239 x 432 x 569 mm
Min. space needed (H x W x D)	9.5 x 17.3 x 25.6 in. 240 x 440 x 650 mm <i>(Check planning information for restrictions for ventilation)</i>
Weight	55 lbs./25 kg
Placement options	Standalone horizontal; standalone vertical; mounting in 19 in. rack
Power	100240 V 280 W (idle), 480 W (typ.), 750 W (max), 5 W (standby)
Thermal output	955 BTU/h (idle), 1637 BTU/h (typ.), 2560 BTU/h (max)
Touch screen	19 in. touch screen (1280 x 1024, 4:3) Technology: SAW (Surface Acoustic Wave)
Network connections	2 x 1 GBit/s
Video inputs (integrated)	Up to 8 simultaneously usable video inputs, each supporting HDMI, DVI, VGA, HDSDI, SDCSDI, YC (SVideo), YPbPr, CVBS
Video outputs (integrated)	Up to 8 DVI video outputs for monitors + 1 DVII (touch screen)



Small but powerful: Tegrís comes in a compact box, which can be placed inside or outside the operating room.

## Hardware

Video-over-IP	- Literally unlimited connection of video sources and monitors - Near zero, latency transmission of uncompressed signals up to 4K resolution - Plug and play, universal connectors; medical grade hardware (Class I MDD)
Serial ports	12 x (RJ 45 connectors)
Audio inputs	4 x stereo unbal. (3.5 mm female audio jacks)
Audio outputs	3 x stereo unbal. (3.5 mm female audio jacks)
USB 2.0 connectors	2 (front), 4 (rear)
More connectors	Relays for external switching of devices, emergency button, power supply for fiber converters, GPIO, remote power on, etc.
Optical drive	Optional external Blu-ray/DVD/CDROM writer
Platform	Windows 7 embedded – industrial grade OS
Hard drive capacity	1 TB

## Accessories / Hardware options

HD streaming	External device for HD streaming
ON AIR light	Signaling active transmission to OR staff
iPod® and iPhone® docking station	In-wall docking station for music replay from iPod® and iPhone® (EOL)
Emergency button	Stop control of e.g. OR table, if an emer- gency or device malfunction occurs
Loudspeaker	Bose loudspeaker set (1 bass, 2 satellites)
Remote power switch	Turn on Tegrís from the OR
Microphones	Room microphone and wireless, clip-on microphone
Accessories	Verified signal converts, extenders, amplifiers, switchers and small materials

## Workflow support

- Workflow-supporting user interface that is configurable to the needs of the user
- Interfaces with leading patient data systems including HIS, RIS, OR planning, etc.
- Exchange of patient IDs with external workstations; automatic selection of patient dataset

## Video routing

- Individual assignment of video sources to monitors
- Video-over-IP technology is future proof and flexible
- Plug-and-play integration of video sources with universal connectors
- Quick system setup: presets for user-defined scenarios
- Full HD picture-in-picture (PiP) functionality for displaying and recording multiple video signals — also supports QuadPiP and DualSplit

## Documentation

- Recording in resolution of up to Full HD 1920 x 1080 (1080p60), including audio signal
- Secondary recording option up to HD (720p), including audio signal
- Time shift recording (up to 10 seconds buffer)
- Printout of recorded images
- Export to USB stick, USB HDD, USB DVD/Blu-ray writer, network, or PACS
- Retrieval of patient data (DICOM or CSV worklist) from HIS or RIS/PACS
- Autofill of patient demographics with predefined values for emergency patients
- Blackbox recording: automatic recording and exporting of imaging data

## Patient safety

- Display, fill in, save and print out of a checklist in compliance with the WHO Surgical Safety Checklist
- Patient data overlays on all screens — selected patient is easily verified by OR staff
- Medical grade product fulfills high quality standards

## Monitors

- In-glass design for flush, in-wall installation:
- 46" and 55" monitors (up to 4K resolution)
- 27" nurse station, 19" touchscreen

## Device integration

Integration of the following devices:

- Getinge's operating tables
- Getinge's PowerLED / HLED / Volista OR lights
- Room cameras, OR field cameras and OR light cameras
- Trigger image and video recordings via endoscopy camera head buttons (all manufacturers)
- Integration of the endoscopy system "Alpha Integration" by Gimmi
- Integration of the endoscopy system "Core" from Richard Wolf
- Integration of BOWA's "Arc 400" diathermy device
- Music module to support audio inputs to the OR room speakers
- Room functions such as VAC, room lights and blinds

## External communications

- Live video and HD audio streaming to a lecture hall, doctor's office or other ORs
- Audio inputs for room or wireless microphone
- Integration of video conference systems



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**Sales Office** • Getinge • 1777 East Henrietta Road • Rochester, NY 14623 • 1 800 475 9040  
**Sales Office, Canada** • 90 Matheson Blvd. West, Suite 300 • Mississauga, Ontario, L5R 3R3 • Canada

[www.getinge.com](http://www.getinge.com)

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