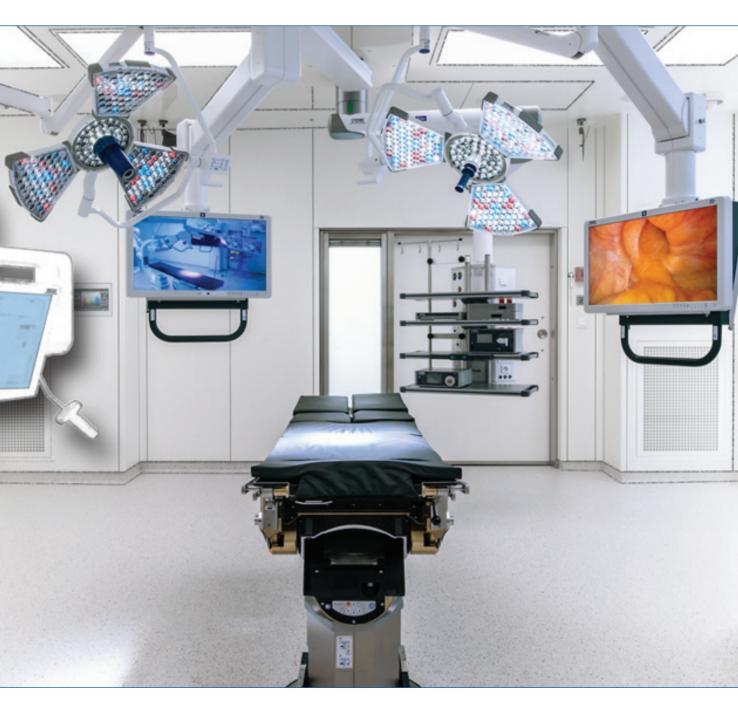


# Network-Based Operating Room Integration





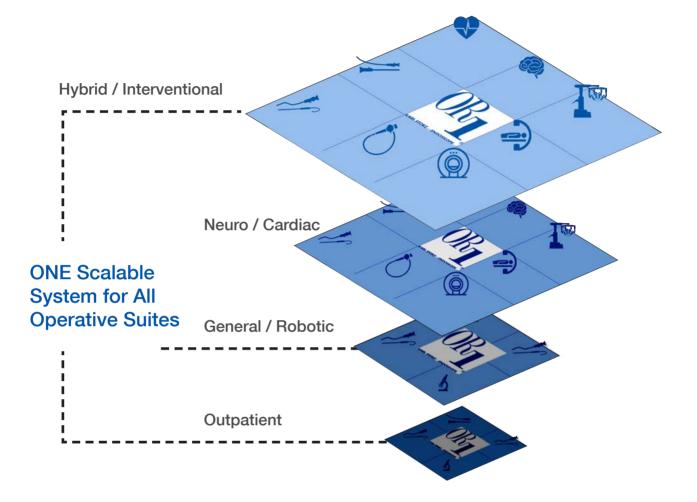


# **Overview**

NEO<sup>®</sup> IP is the network-based visualization backbone of the KARL STORZ enterprise integration solution. Advanced communications, data management, analytics, and patient satisfaction modules are available to scale to each operative suite's needs. NEO<sup>®</sup> IP creates ONE World in the operative department through three core values:

- Scale and Standardize across all operating suites.
- Master Your Key Performance Indicators with business analytics.
- Reach the Enterprise from operating rooms for collaboration and data mgmt.





# Why KARL STORZ?

KARL STORZ can keep you on the EDGE of technology with the latest operating room integration features for the lowest total cost of ownership.



\*ECRI Market Intelligence–OR Integration Q3, 2020. Percentage calculated over 5 year lifecycle for comparable 4K integration systems.

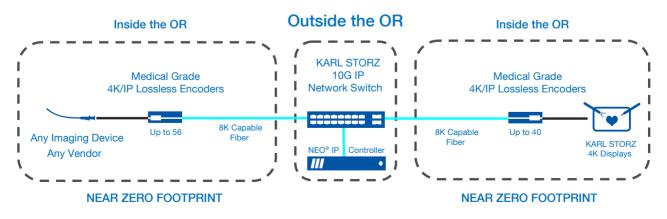


# ONE System for All Operative Suites

Scalable 4K Video-over-IP



### HOW IT WORKS: A Scalable Network of Devices



# 4K/3D White Light



4x Detail\*

60x Color Palette\*

Microscope Optimized

#### More Detail, More Contrast



\*compared to HD

## **4K ICG Fluorescence**



#### **Extended Greens**

Near Zero Latency Overlays

ICG Fluorescence Optimized

#### Extended Greens for ICG



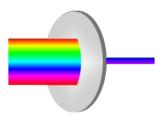
# (PDD) PhotoDynamic Diagnosis



Blue Light Cystoscopy Compatible High Contrast Displays

Integration with UH400 Generator







## ONE System for All Operative Suites Scalable 4K Video-over-IP

NEO<sup>®</sup> IP Software was designed with nurses and doctors to be the **easiest-to-use integration system on the market**. Seamless control of KARL STORZ devices and services like chat, checklist, room presets, turnover measurement, and video conferencing, make NEO<sup>®</sup> IP the system of choice for end-users.







#### Workflow Toolbar



# Tired of Interruptions? Us too.

# Integrated Chat and Remote Source Selection

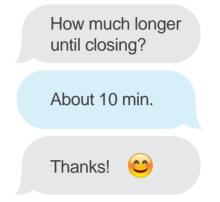
- Perform efficient rounding by sending chat messages from the charge desk to each operating room
- Students watching live streams ask questions to the OR via chat messaging to avoid disrupting the surgical team

### Who Has Time to Waste? TurnOver Measurement System (TOMS)

- Defines turnover goals and tracks metrics for enforcement. Automated text alerts for delayed rooms
- Built-In turnover timer appears on all screens in the operating room after the case ends

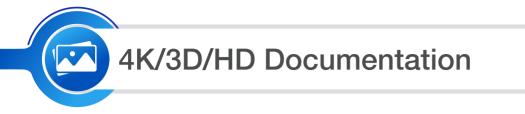
#### Give the Patient a Premier Experience Patient Family Texting and Movie Playback

- 97% of participants in a recent clinical study reported that receiving text messages on surgical status lowered their anxiety
- Reduce the patient's anxiety by letting them select a Hollywood film to watch during pre-op and anesthesia









# **ONE** Patient Record

What is the first step to complete the patient record and share procedures with patients, colleagues and referring physicians? Record it, **but don't just record it, record it in 4K.** 



#### Capture Every Detail

OR1<sup>®</sup> integration **natively records in 4K and/or 3D**, but optionally downscales to HD to save valuable hard drive space.

#### EHR Integrated

Enter the patient's information from an auto-populated list and **push captured imagery to the patient health record** for archival via STREAMCONNECT<sup>®</sup>.

#### Advanced Cybersecurity

Advanced cybersecurity controls based on NIST SP 800-53 keeps data safe and compliant to HIPAA regulations.

# Device and Room Control

# **ONE Focus**

Designed as an optional add-on to NEO<sup>®</sup> IP, the device control module creates a perfect harmony of integrated surgical devices and allows the operating room technology to drift out of mind, so that **operating on the patient can be your focus...** 





## **ONE Surgical Team**

**New Technology** from KARL STORZ allows collaboration to happen seamlessly inside and outside of the operating room wherever clinical resources are located. Introducing...



#### OR1® CollaboratOR

Interactive Display Technology Designed for Healthcare

#### Room Setup Collaboration



OR time is incredibly costly. Ensure on-time starts by quickly displaying preference cards, back table setup photos, IFU's and preop imaging.

#### Procedural Collaboration



Infinitely flexible surgical dashboards allow everyone in the OR to see live video feeds and unlimited web sources of imaging simultaneously.

#### Global Collaboration **21<sup>%</sup>** surgeon shortfall

It's predicted by 2050 that there will be a 21% shortfall of surgeons. Broadcast from the OR with Zoom, Teams or Webex to empower remote education.

FEATURE		ASC OR INTEGRATION	HOSPITAL OR INTEGRATION
Visualization / In-Room Control		OR1 <sup>®</sup> AIR	OR1® NEO® IP
	Infrastructure	12G-SDI / HDMI 2.0	10 Gigabit IP Fiber Network
	Video Router Size	8 in / 8 out	Scalable to 56 in / 40 out
<b>4K</b>	Resolutions	4K / HD / 3D / SD	4K / HD / 3D / SD
	MultiView	Picture-in-Picture	Picture-in-Picture / Quadview
$\bigcirc$	Connections	HDMI 2.0, DisplayPort, 12G-SDI, DVI, VGA, S-Video, Composite	Universal Connector, HDMI 2.0, Dis- playPort, 4x 3G-SDI, 3G-SDI, DVI, VGA, S-Video, Composite
F	Image Capture / Recording Module	4K / HD / 3D, Dual Channel	4K / HD / 3D, Dual Channel
,	Medical Device Control Module	External Standalone, (See WU300 Specification Sheet)	(See WU300 Specification Sheet)
1	Surgical Light Control	-	Trumpf / Maquet / Berchtold
-	Environmental Control	Audio	Audio / Room Lighting
<u>(((</u>	Voice Control	Image Capture Commands	Image Capture Commands
٩	TurnOver Measurement System (TOMS)	Turnover Timer on Touch Panel Only	Turnover Timer on All Screens Inte- grated w/StreamConnect® Overview
	EHR Integration	Patient Worklist, Image and Video Archiving	Patient Worklist, Image and Video Archiving
<u></u>	Personalized Media Playback	Calming Scenes, Hollywood Movies	Calming Scenes, Hollywood Movies
	Training	#1 Ranked Training	#1 Ranked Training , Built-In Videos
Comm	unication		
E	Enterprise Managed Checklists	-	Timeout / Cleaning / Room Setup
립	Enterprise Family and Staff Text Messaging	Yes	Yes
	Enterprise Streaming and Video Conferencing w/Chat	One Way Streaming Only	Streaming, Video Conferencing, Chat Messaging
ত	Enterprise Operating Room Status Overview	Yes	Integrated with TurnOver Measurement
- 🚨	Enterprise Biomedical Service Alerts	_	Email / Text Messages
Data Management			
	Enterprise Content Management, Editing and Archiving	Yes	Yes
	Enterprise Equipment Status Dashboard	-	Yes
<b>íí</b>	Enterprise Device Usage Analytics	_	Yes
Ð	Security	Active Directory, Audit Logging, AES 256 Encryption, TLS / ISCL	Active Directory, Audit Logging, AES 256 Encryption, TLS / ISCL



Shaping the Future of Endoscopy with you

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