OR Integration Simply Done.
OR1 AIR®

A/V Management, Documentation & Communication

OR1 AIR™

OR1 AIR® is a modern and lightweight
OR integration solution, comprising the modules
AIDA® and OR1™ .AVM.

The system allows 4K UHD A/V distribution inside
the OR as well as documentation and audiovisual
communication within the hospital environment in
compact form.

Due to its minimal footprint, the system provides
new possibilities of profiting from the benefits
of OR integration without the infrastructural investment
of traditional, hardware-intense products.

OR1™ .AVM

$+$

AIDA®

A/V Management

Video distribution in the operating room – in 4K UHD, 3D and FULL HD.

Documentation

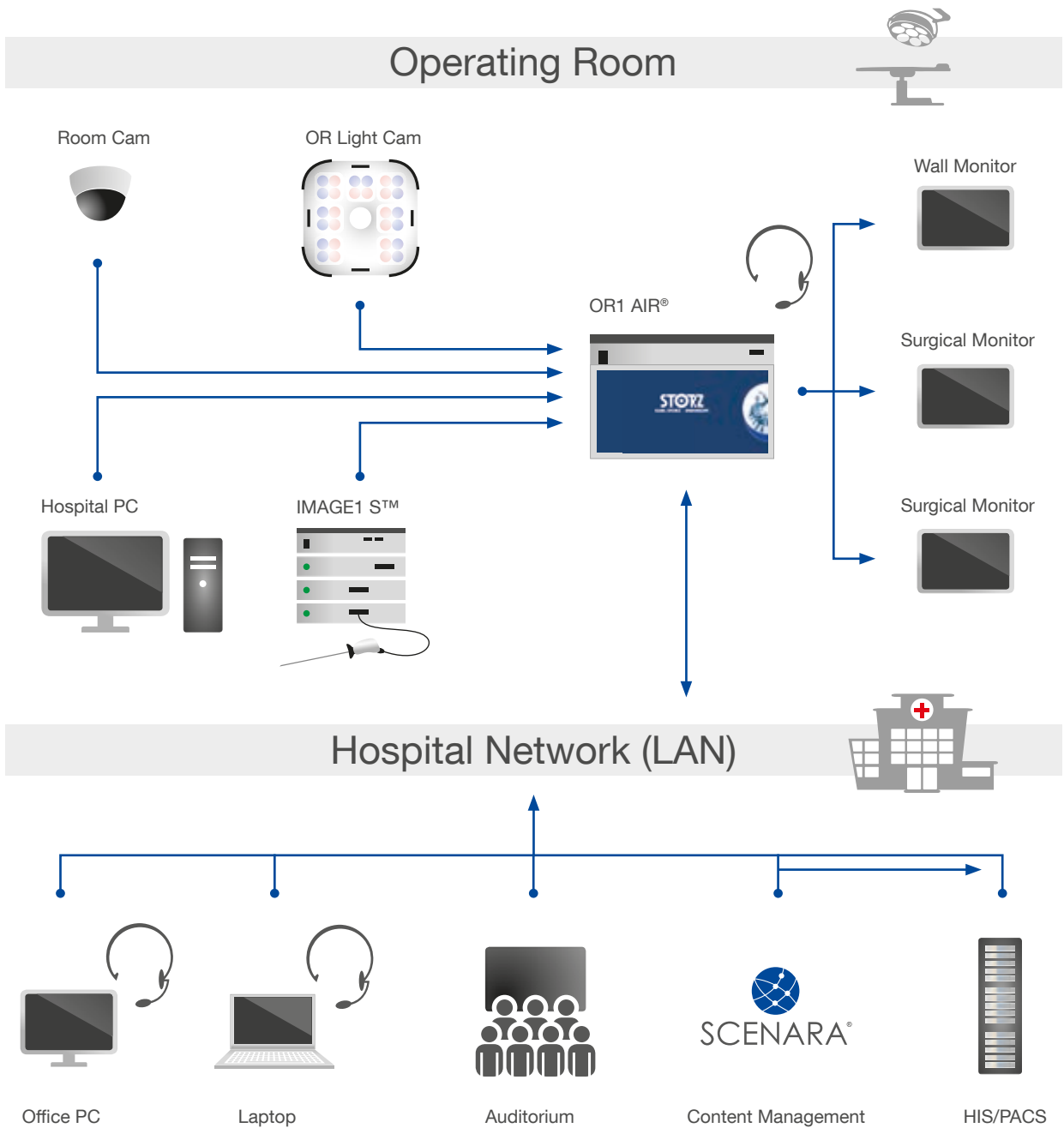Content management in 3D, FULL HD up to 4K UHD – from the endoscope to the HIS.

Communication

Video streaming and audio talkback with bidirectional telestration.

OR1 AIR® as part of the KARL STORZ Image Chain

The KARL STORZ image chain provides brilliant surgical image quality and content management in up to 4K UHD, from the endoscope to the Hospital Information System.
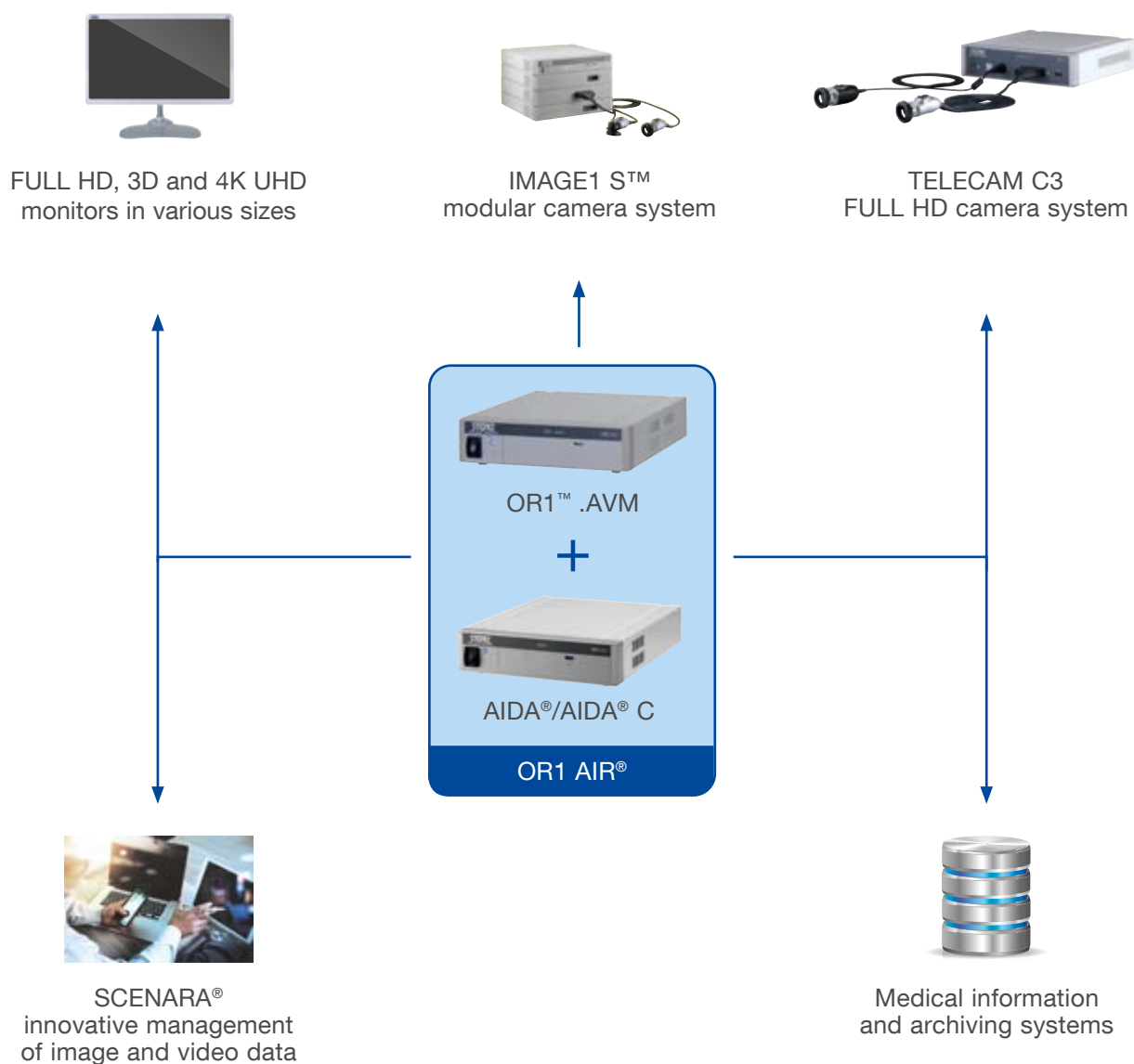OR1 AIR® ensures connectivity and management of all its elements – cameras, video sources, monitors and network-connected participants.

Operating Room

Room Cam

OR Light Cam

Wall Monitor

OR1 AIR®

Surgical Monitor

Hospital PC

IMAGE1 S™

Surgical Monitor

Hospital Network (LAN)

Office PC

Laptop

Auditorium

SCENARA®

Content Management

HIS/PACS

Multiple Synergies

KARL STORZ offers numerous systems and applications that can be used in conjunction with AIDA® and AIDA® C:

- AIDA® or AIDA® C – for a secure transfer of recorded patient and procedure data.
- IMAGE1 S™ and TELECAM C3 – an ideally coordinated image and documentation chain.
- SCENARA® Content Management – access to captured image and video data anywhere and at any time.
- OR1™ .AVM – video streaming and audiovisual communication with bidirectional telestration.

FULL HD, 3D and 4K UHD
monitors in various sizes

IMAGE1 S™
modular camera system

TELECAM C3
FULL HD camera system

OR1™ .AVM

+

AIDA®/AIDA® C

OR1 AIR®

SCENARA®
innovative management
of image and video data

Medical information
and archiving systems

OR1 AIR® Flexible Communication

Experience and redefine communication in hospitals. Various possibilities for interaction are available for flexible and individual use.

Highlight information ◄

The telestration function on the touch screen inside the OR can be used to visually annotate the streamed image.

Seek advice ◄

Use the bidirectional audio function to consult a specialist during surgery.

Sharing experience ◄

Gaining and sharing experience is fundamental to medical education. Intraoperative sequences can be presented live.

High-resolution video streaming, which allows surgical live images from the OR to be shared in a secure environment that is compliant with data security guidelines, is one of many options. Functions such as audio talkback or telestration facilitate communication and thus help improve the information flow.

▶ **Overview of workflow**

The use of a room camera makes it possible to display not only intraoperative images but the OR setup and the OR workflow as well.

▶ **Be there when it counts**

Mobile devices also support the streaming function and thus allow viewing from a distance.

▶ **Building networks**

The creation of expert networks knows no boundaries. This offers potential for improvement in all directions.

Hospital Management

We value
your investment

Keep your Operating Room
accessible, simple and powerful

- Staff retention by providing a comfortable and ergonomic workplace experience.

- Maximize uptime and reduce complexity.

- Create an integrated operating room with an economic purchase, using existing and future equipment.

Surgeons

Free your mind, focus on the patient

Rely on your workspace with supporting integration systems by KARL STORZ

- Share your knowledge with colleagues using video streaming, audio talkback and telestration.

- See more details of anatomical and pathological structures – in brilliant 4K UHD, 3D and FULL HD.

- Benefit from latency reduced to a minimum to experience excellent hand-eye coordination.

IT/Biomedical Engineers

We are at your service

Don't wait – let us help you!

- The OR environment benefits from a compact form of integration.

- Protected by NIST compliant cybersecurity measures – full control to secure patient privacy.

- Data security through automated data transfer via HL7 and DICOM.

Medical Staff

We simplify your work

Easy handling of your integration solution

- The all-in-one touch screen allows easy and fast OR set-up so that you can fully focus on the patient.

- Automated workflows eliminate potential sources of error.

- DICOM worklist prepares your patient information so you don't have to.

The most important features at a glance:

- **Image chain** in brilliant 4K UHD, 3D and FULL HD from endoscope to monitor, providing near to zero latency.

- Powerful audiovisual communication function. Video streaming and audio talkback with bidirectional **telestration.**

- **Compact** and service-friendly design.

- **Flexible 8x8 video management** in 4K UHD, 3D and FULL HD, including PiP/PaP functionality.

- Fully integrated **documentation solution** in 3D, FULL HD up to 4K UHD.

- Compatibility with our **content management** software solution SCENARA®.

- **Data security** through automated data transfer via HL7 and DICOM.

- **User-friendly** and **Intuitive G**raphic **U**ser **I**nterface within integrated SMARTSCREEN® or separate touch screen.

- Protected by **NIST compliant** cybersecurity measures.

WO301   **OR1™ .AVM**

Video inputs:	5x 12G SDI/3x HDMI 2.0
Outputs:	6x 12G SDI/2x HDMI 2.0
USB:	4x USB 3.0/1x USB 2.0
LAN:	2x Ethernet
Audio:	1x Audio Line in/1x Audio Line out
Remote control:	2x ACC
Input voltage:	100-240 VAC
Input frequency:	50/60 Hz
Max. input current:	5 A (@100 VAC), 2 A (@240 VAC)
Operating mode:	Continuous Operation
Degree of protection:	IPx0
Protection class:	I
Dimensions:	305 x 74.5 x 355 (W x H x D)
Weight:	4 kg

WD300   **AIDA®**

Video inputs:	1x DP 1.2a/1x HDMI 2.0
Outputs:	1x DP 1.2a/1x HDMI 2.0
Interfaces:	DICOM, HL7
Input voltage:	100-240 VAC
Input frequency:	50/60 Hz
Output power:	250-300 Watt
Image formats:	BMP, JPG, JPNG
Video formats:	MPEG-4, MPEG-2, MOV
Dimensions:	305 x 74.5 x 355 (W x H x D)
Weight:	6 kg

WM200   **SMARTSCREEN®**

Input voltage:	100-240 VAC
Input frequency:	50/60 Hz
Size:	12.5"
Native resolution:	1920 x 1080
Panel technology:	LED/AHVA
Dimensions:	305 x 46 x 355 (W x H x D)
Weight:	6.6 kg

Specifications

	AIDA®	AIDA® C
Input voltage:	100-240 VAC	100-240 VAC
Input frequency:	50-60 Hz	50-60 Hz
Output power:	Max. 300 Watt	Max. 300 Watt
Image formats:	BMP, JPG, JPNG	JPG
Video formats:	MPEG-4, MPEG-2, MOV	MPEG-4
Storage locations:	Internal memory (2 TB, FIFO optional) USB storage media via USB 2.0 and 3.0 (stick, HDD, DVD writer) Network drives FTP/SFTP DICOM	Internal memory (1 TB, FIFO optional) USB storage media via USB 2.0 and 3.0 Network drives FTP/SFTP DICOM
Video inputs:	1× DP 1.2a/1x HDMI 2.0	1x HDMI 2.0
Outputs:	1× DP 1.2a/1x HDMI 2.0	-

Interfaces:	DICOM, HL7	DICOM
Resolution:	Up to 3840 × 2160p	Up to 1920 × 1080p
Color system:	PAL, NTSC	PAL, NTSC
Dimensions:	305 × 74.5 × 355 (w × h × d)	305 × 74.5 × 355 (w × h × d)
Weight:	6 kg	6 kg
Medical device:	Yes, risk class I	Yes, risk class I
Certification:	CE, MDD, CSA	CE, MDD, CSA
Control:	12.5" SMARTSCREEN® Up to 24" touch screen	12.5" SMARTSCREEN® Up to 24" touch screen

Order numbers

AIDA®

WD300-XX*   **AIDA®**

WD350-XX*   **AIDA® with SMARTSCREEN®**

AIDA® C

WD310-XX*   **AIDA® C**

WD360-XX*   **AIDA® C with SMARTSCREEN®**

OR1™ .AVM

WO301-XX*   **OR1™ .AVM**

*XX Please indicate the relevant country code (DE, EN, ES, FR, IT, PT, RU) when placing your order.

It is recommended to check the suitability of the product for the intended procedure prior to use.
Please note that the described products in this medium may not be available yet in all countries due to different regulatory requirements.

More than

75

Years

*Shaping the Future
of Endoscopy with you*

FOLLOW KARL STORZ

STORZ
KARL STORZ — ENDOSKOPE

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