Secure, Intuitive, Anywhere
Procedure Recording and Medical Content Management
Olympus focuses on improving the quality of patient care every day through developing and designing world-leading, clinically advanced precision technologies and services. Innovative products enable health care professionals in a broad range of specialist areas to look inside the body using endoscopic procedures. This allows them to see more and do more. By focusing on early detection and minimally invasive treatment of a broad range of diseases, the mission is to improve patient outcomes, minimize discomfort, and accelerate the recovery process. Cutting-edge technologies and services can also optimize OR workflows and maximize operational efficiency.

Get Connected with Image Stream Medical (ISM) and Olympus
With the acquisition of Image Stream Medical (ISM), a US health care systems integrator, Olympus has expanded its expertise and portfolio with an easy-to-use, secure and reliable networked recorder and a cutting-edge medical content management solution. ISM has made the visualization and integration of health care environments simple and intuitive. The technology integrates seamlessly with existing workflows, connecting health care teams and enabling them to focus on delivering outstanding patient care now and with changing demands in the future.
When performing complex procedures, it is essential to have the right visual information at the right time — with no distractions. Therefore, clinicians and nurses need technologies and solutions that allow them to concentrate on all the important details. Clinicians are also increasingly reliant on IT and biomedical technicians to keep everything up and running. And as technology is becoming more central to a hospital-wide clinical collaboration system, technicians need solutions that expand clinical capabilities and do not strain the limited resources of time, money and expertise. While outstanding clinical performance could attract wider patient referrals and help to develop centers of excellence, moving to a value-based health care system pressures health care institutions’ administrators to improve care quality and efficiency, ensure patient safety, and enhance patient and staff satisfaction.

Learn how Olympus addresses the needs and challenges of stakeholders across the hospital.

Clinicians and Nurses
- Provide exceptional image and video quality to allow precise and confident procedures.
- Integrate images and information with the HIS, PACS and VNA systems for rapid, informed decision-making.
- Simplify collaboration with colleagues and patients.
- Eliminate distractions and reduce stress with easy-to-use technology, enabling you to focus on the patient and procedure.
- Enable easy capturing, editing and sharing of all media files and presentations across the hospital or hospital chains to support training.
- Improve efficiency and reduce the learning curve with a single, intuitive interface.

Administration and Purchase Managers
- Support patient safety and reduce potential for errors by automating tasks and improving standardization.
- Connect clinical teams with relevant images, videos and information.
- Optimize efficiency and revenues by improving procedure-room turnover time and increasing patient throughput.
- Improve patient satisfaction by providing a smooth transition into the procedure room.
- Increase staff retention by making the clinical experience more comfortable.

IT and Biomedical Technicians
- Integrate without straining storage, server and network infrastructure.
- Require minimal effort for implementation, training, management and maintenance for all staffing levels.
- Easily integrate any procedure-room image or video source and hospital-wide information systems.
- Provide hospital-grade IT security with automated security patches, virus updates and daily reports.
- Support GDPR conformance by meeting the highest standards for information security and privacy.
- Increase stability and reliability through purpose-built components with compact design.
- Maximize uptime and reduce complexity.
- Make it easy to deliver high-quality images and videos when needed.
- Reduce the total cost of ownership with industry-leading simplicity and reliability.
- Have maximum flexibility with highly scalable future-ready solutions.
- Enhance IT’s role by adding a high-value system to support the equipment portfolio.
- Reduce IT workload with solutions that are simple to operate by nontechnical staff.
- Improve storage efficiency by saving only relevant footage in the HIS/PACS.
Manage Content Throughout the Hospital

Olympus connects healthcare teams with clear visual information and collaborative insights across a wider healthcare environment. The scalable and innovative solution optimized for Olympus equipment and compatible with virtually any image and video source simplifies collaboration with colleagues and patients — maximizing insight and efficiency before, during, and after the procedure. The hospital-wide medical content management system enables knowledge sharing, training, and professional improvement.

Solutions Overview

- **Procedure Recording**
  Record procedures quickly and easily to facilitate training, documentation and knowledge sharing.

- **Medical Content Management**
  Maximize the value of images and videos by making them readily accessible for reviews and consultations.

- **Video Editing**
  User-friendly application enables the creation of presentation-ready procedure videos in minutes.

- **HIS, VNA and PACS Integration**
  Efficient and secure combination of images and procedure videos with patient data from HIS, VNA systems and PACS.
“I think we have finally found a system that is going to match our needs. We have been searching for a good system for our surgeons for quite a long time. (August 2018)"

Åse Schiefløe | Project Leader, Oslo University Hospital, Norway
**How Our Solutions Address Your Needs**

**The Benefits for the Health Care Organization**

Olympus products allow clinicians to effortlessly capture full HD medical images and videos which can be edited, securely stored, shared, and accessed at any time from anywhere across the hospital or hospital chains.

<table>
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<tr>
<th><strong>nCare (Medical Recorder)</strong></th>
<th><strong>nCare + VaultStream (Medical Content Management)</strong></th>
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<tbody>
<tr>
<td>· Capture, record, view, label, print and export procedural information via user-friendly touch-panel interface.</td>
<td>· Automatic transfer of images and videos at the end of procedure to VaultStream and/or PACS/VNA.</td>
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<tr>
<td>· Automatic retrieval of patient data through DICOM work list.</td>
<td>· Easy access to images and videos anywhere from the patient’s electronic record through a link that user reaches through HIS (exchange of orders and results).</td>
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<td>· Images can be sent to PACS/VNA.</td>
<td>· Integration of patient data and visual records with HIS.</td>
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<td>· Searchable image and video labels.</td>
<td>+ <strong>benefits nCare (above)</strong></td>
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<th><strong>Efficiency – Supports Simplified and Efficient Clinical Workflow</strong></th>
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<td><strong>Security – Secure and Hospital-Wide Image and Video Libraries</strong></td>
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<tr>
<td>· Optimized for Olympus and compatible with virtually any video source.</td>
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<td>· Secure storage and access options.</td>
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<td>· Teaching media library with pre-edited and anonymized video content.</td>
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**Multilayered security:**
- Security best practices (i.e., authentication management, authorized access control, security and virus definition updates, and secure connection protocols).
- Enhanced protection of stored media through centralized storage.
- High standards of information and communication security.

+ **benefits nCare (above)**
nCare Medical Recorder

Secure and Intuitive Design to Support Health Care Teams

nCare is a connected medical recorder that captures full HD images and videos from up to two surgical devices simultaneously. nCare easily, reliably and securely connects clinicians with the critical visual information they need at any time. The user-friendly solution fits nearly anywhere, from an endoscopic cart to an equipment boom.

The flexible nCare recorder can be deployed as a stand-alone device or connected to hospital networks and hospital-wide information systems. Recorded visual data can be stored locally on the nCare recorder, saved externally to a USB drive, or stored securely and managed automatically on VaultStream, a centralized medical content management system.

Hospital-Wide Solutions
- PACS interface (DICOM Worklist/Export).
- Expandable and integrated with VaultStream (VSS).
- HL7 orders and results (HIS integration, VSS required).

Flexibility in Health Care Environments
- Capture virtually any video signal up to 1080p HD.
- Single- or dual-channel recording.
- Power on from cart.
- Remote image capture and video recording with iPad/iPhone within hospital’s network.
- Remote access with iPad/iPhone from anywhere via access to hospital’s network.

Safeguarding Recorded Images and Videos
- Protection against data loss in case of power interruption.

Supports Efficient Clinical Workflow
- Efficiency through automated patient registration.
- Capture, record, view, label, print, export and search.
- Integrated audio preamplifier and voice frequency overlay.

Intuitive User Interface and Easy Control
- Side-by-side comparison.
- Easy control via touch panel, remote PC or iPad.
- Medical-grade touch panel, native 1080p resolution.
- Quicker user interface responsiveness and better performance for video playback.
Meeting the Demands of a Hospital-Wide Solution

For clinical images and videos to be of value, clinicians must be able to quickly and easily access them for future reference, review and consultations. Olympus gives clinicians the ability to search and view medical content easily and securely from virtually anywhere with access to the hospital’s network.

Protecting Patient Privacy
Hospital-wide security and virus protection safeguard patient privacy and assist you with GDPR conformance. Secure connection protocols ensure procedure data is available only to authorized users and prevents data loss in case of power interruption.

VaultStream EasyView
An application that enables an authorized user to access post-procedure images and videos without the need to export patient data to insecure computers or flash drives. VaultStream EasyView lets clinicians interact with their data with the same precision available in the procedure room. Clinicians can search for procedures, review images and videos, capture additional still images, add labels or compare current and historical recordings side-by-side.

VaultStream EasyPost
Clinicians can be confident that all procedure videos will be available anywhere, anytime due to the automatic background video-recording feature which is embedded in the innovative EasyPost video production. Additionally, the video footage can be adjusted before submission to PACS, ensuring storage efficiency.

EasyCut
A simple, yet powerful video-editing application that helps clinicians create their own presentation-ready videos quickly. Point-of-care editing enables clinicians to “bookmark” key procedure moments. EasyCut automatically renders bookmarked sections into custom-length clips and can insert final clips directly into the presentation.

Secure Access to Libraries: Anywhere and Anytime
Configurable data retention policies allow clinical and nonclinical teams to control efficient storage utilization. VaultStream also provides the ability to create a teaching library for managing content for learning and presentations.
A Perfect Match for ENT Departments’ Needs

- Full HD video recording and image capture.
- Side-by-side video and audio comparison.
- Hertz frequency and audio recording features.
- Frequency overlay with stroboscopy.
- Frame-by-frame playback as well as slow motion and fast-forward.
Beyond Procedure Recording and Medical Content Management

### Related Products and Services

#### Assistance from Design to Installation
Olympus ENDOALPHA provides a range of products and services to help hospitals achieve state-of-the-art ORs.
- Ergonomically tailored work space for all teams and procedural needs.
- Focused on enhancing efficiency and satisfaction.
- Convenient one-point contact with the personalized ENDOALPHA project manager.
- Total support from initial planning to installation, ensuring a smooth and successful process.

#### Simple, Touch-Screen Navigation
The ENDOALPHA HomeScreen provides a convenient, intuitive OR control, which harmonizes all OR hardware and software and takes control of all OR devices. Olympus SmartGuide navigation allows staff to rotate in and out without any cumbersome set-up time or need for extensive training.

#### Intuitive and Fast Control
Integrate the entire OR with 4K and 3D imaging, which makes it easy to switch between 4K, 3D and HD. Olympus SceneSelection allows easy preset and procedure selection, which improves operation time, reduces stress and limits errors. The innovative touch screen and voice control provide direct control of settings outside the surgical environment.

#### Service Solutions
**Assure Optimal Equipment Availability and Budget Security**
Olympus provides a level of service support that extends far beyond mere repairs. Unique service solutions increase equipment uptime and keep processes running reliably. Professionally qualified Olympus service technicians conduct specialist maintenance procedures complying fully with Original Equipment Manufacturer (OEM) standards to ensure a secure investment for customers.

**A Strong and Reliable Service Network**
- More than 1,000 technicians and service engineers support customers across Europe.
- Experienced technicians conduct 160,000 repairs annually in line with global OEM standards.
- Staff receive over 50,000 hours of training per year to stay up to speed with the latest technological advances.

#### VISERA ELITE II — Striving for Improved Quality of Patient Care
With VISERA ELITE II Olympus has developed a versatile and efficient imaging platform. Due to the compatibility with a wide range of endoscopes and multiple different observation methods like enhanced 3D visualization or special light observation, VISERA ELITE II is a clinical optimized solution for every medical specialty.

#### Possibilities for a Whole World of Surgical Specialties
Today’s ORs are multifunctional, supporting a range of surgical specialties. That’s why VISERA ELITE II is fully flexible and can meet the demands of any surgical procedure. It is an imaging platform for general surgery, urology, gynecology, ENT and more, which links the OR to other devices and facilities around the hospital. Share and play back images or videos with colleagues within the OR, within lecture theaters or within departments to standardize training and perform peer-to-peer or patient consultations.