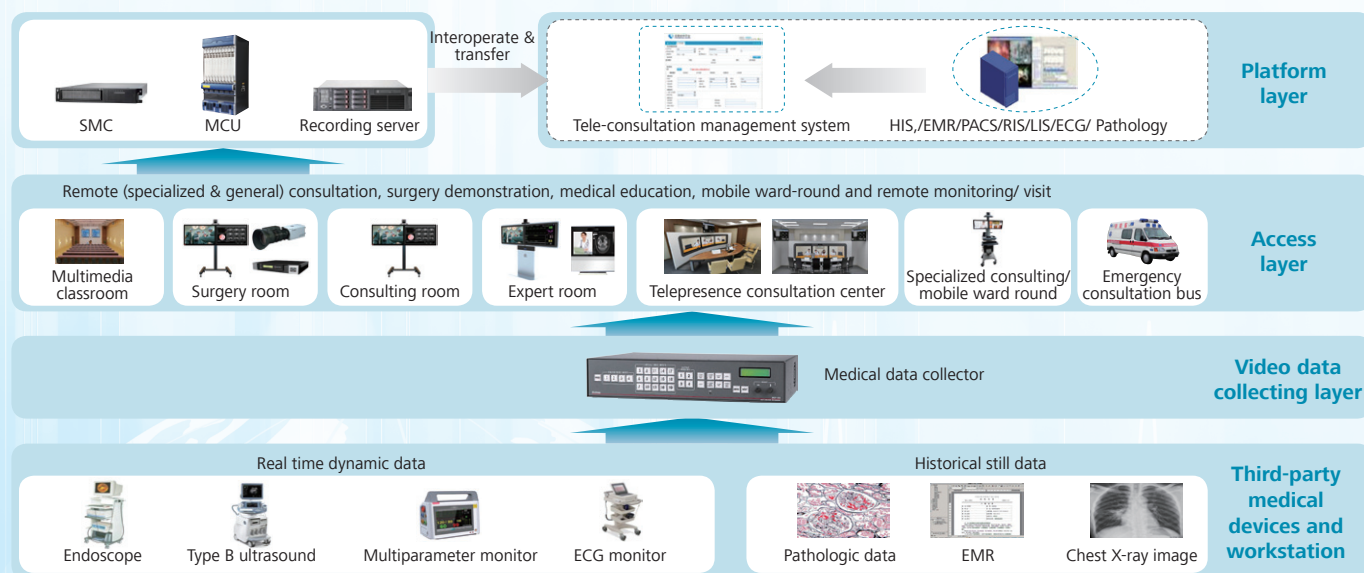# Telepresence Telemedicine Solution
—— Superb healthcare services without boundaries

Applications

- **Tele-consultation:** Offer "face-to-face" consultation in life size with convergence and sharing of multiplex patient data.
- **Surgery demonstration:** Record live surgery process at panoramic and close-up views to be presented faithfully to remote sites. Real time interactions are supported.
- **Medical education:** Record completed surgeries and consultations process for archive, courseware making, remote medical training and academic exchange.
- **Remote monitoring:** Transmit real time vital signs and images to allow nurses to monitor patients' real time condition.
- **Remote visit:** Connect ICU patients and families with panoramic presentation of the ICU.

Solution Overview and Features

Platform layer

Interoperate & transfer

SMC | MCU | Recording server

Tele-consultation management system | HIS,/EMR/PACS/RIS/LIS/ECG/ Pathology

Access layer

Remote (specialized & general) consultation, surgery demonstration, medical education, mobile ward-round and remote monitoring/ visit

Multimedia classroom | Surgery room | Consulting room | Expert room | Telepresence consultation center | Specialized consulting/ mobile ward round | Emergency consultation bus

Video data collecting layer

Medical data collector

Third-party medical devices and workstation

Real time dynamic data

Endoscope | Type B ultrasound | Multiparameter monitor | ECG monitor

Historical still data

Pathologic data | EMR | Chest X-ray image

- **Multiplex medical data collector:** Collect and transmit multiplex medical data synchronously to be presented in continuous presence. The medical data collector supports simple and free layout switch by both local and remote conference sites.
- **Customized medical telepresence system:** Designed for medical use by integrating with professional medical image display and workstation.
- **Open API:** Provide system programming interface to third-party consultation platform that integrates hospital information system.
- **Professional one-stop delivery:** Implement AV integration of multimedia training room, expert consultation room, and telepresence advanced consultation room by a professional delivery team.

Multiplex Data Collection | **Medical Telepresence** | **Open API** | **One-stop Delivery**

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Marketable Products

Telepresence System

- **Serialized medical telepresence:** Advanced consultation centers with single-screen, dual screen or tri-screen telepresence. Design and implementation are carried out by a professional integration team.
- **Media exchange platform:** Managed by SMC, the industry-leading MCU supports simultaneously over 1000 accesses. In addition, the MCU is designed with multi-channel cascading capability, multiple backup mechanism and carrier-level stability, providing powerful supports to cross-regional healthcare services.
- **Desktop consultation endpoints:** Deployed flexibly at physician's office, allowing fast and convenient response to consultation petitions.

Customized Integration

- **Integrated medical cart:** Dedicated to tele-consultation use with professional medical image displays integrated all on one cart. It provides an ideal solution for medical applications such as remote specialty consultation, bedside consultation, medical education and remote monitoring.
- **Medical data collector:** Support up to 19 inputs and continuous presence from one to four panes. Layouts can be controlled by local and remote conference sites.
- **Recording server:** Support up to 6 simultaneous recordings. Resources are available for live broadcast and video playback.

Resale Products

- **Patient monitor:** Multi-parameter monitor, defibrillation monitor, mobile/portable vital sign monitor are available to transmit patients' real time vital signs.
- **Surgical camera:** Professional camera dedicated to surgery use. It is adopted to capture and reproduce surgery details faithfully.

Tele-consultation Management Platform

- Huawei video conference system provides SOAP-based API to integrate with tele-consultation management platform developed by ISV partner for seamless integration with hospital information systems.
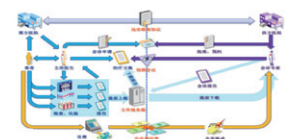

Telepresence Systems

VC Products

Customized Integration

Resale Products

Tele-consultation Management Platform