



TELEMEDICINE IN TEMDEC – JAPAN

Kyushu University Hospital

Le Ngoc Anh
Hanoi Medical University





TEMDEC: Telemedicine Development Center of Asia.

Air: To establish effective and consistent medical communications among Asian countries using super fast Internet and advanced technology.

Main activities:

- Remote medical education,
- Remote patient care,
- Development and application of new technology,
- Development of attractive contents,
- Secretariat of Medical Working of APAN (Asia Pacific Advanced network)
- Center for international exchange programs.

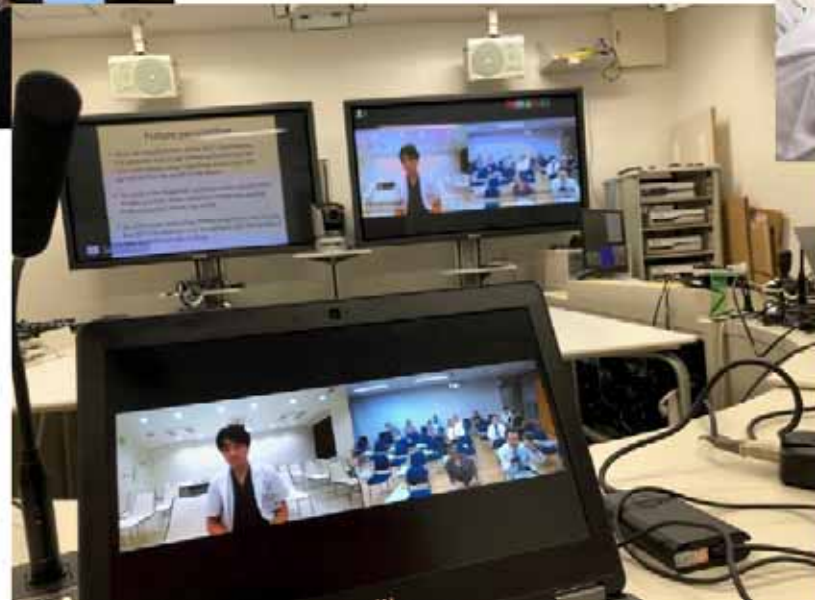
Technology Available



Asian network hub for telemedicine with DVTS (Digital Video Transport System), H.323 Video Conference System (Polycom, etc), H.264/SVC Video Conferencing System, High Definition Streaming Combined Remote conference system (HD-SCR), etc...



Endoscopy
Surgery
Fetus
Nurse
Hepatology
Dental
Neurology
Infection
Pediatric Cancer
Med Student
Healthcare
Teleconsultation
Technology



· **Policy**

The main subject of the conference carried out under this project is remote medical education, not for the direct access to the patient's electronic medical records and the sharing of such medical information. For this purpose, no patient's personal information, including, but not limited to, name, date of birth or other patient-related information that will enable identification of individuals (hereinafter referred to as the "Patient Personal Information") will be disclosed or used under this project. Such Patient Personal Information will be deleted in advance or will be amended in such a way that no patient can be identified. We pay careful attention to protecting patient privacy by, for example, not disclosing patient names in our presentations and avoiding photographing patient faces in live demonstrations. Therefore, our basic policy is that there is no need for further technological protection during transmission over the Internet, but we will take measures to use encryption programs such as IPsec or AES, depending upon the security standard of participating medical institutions in various countries and regions with informed consent of the patients.

1. Conference Recording

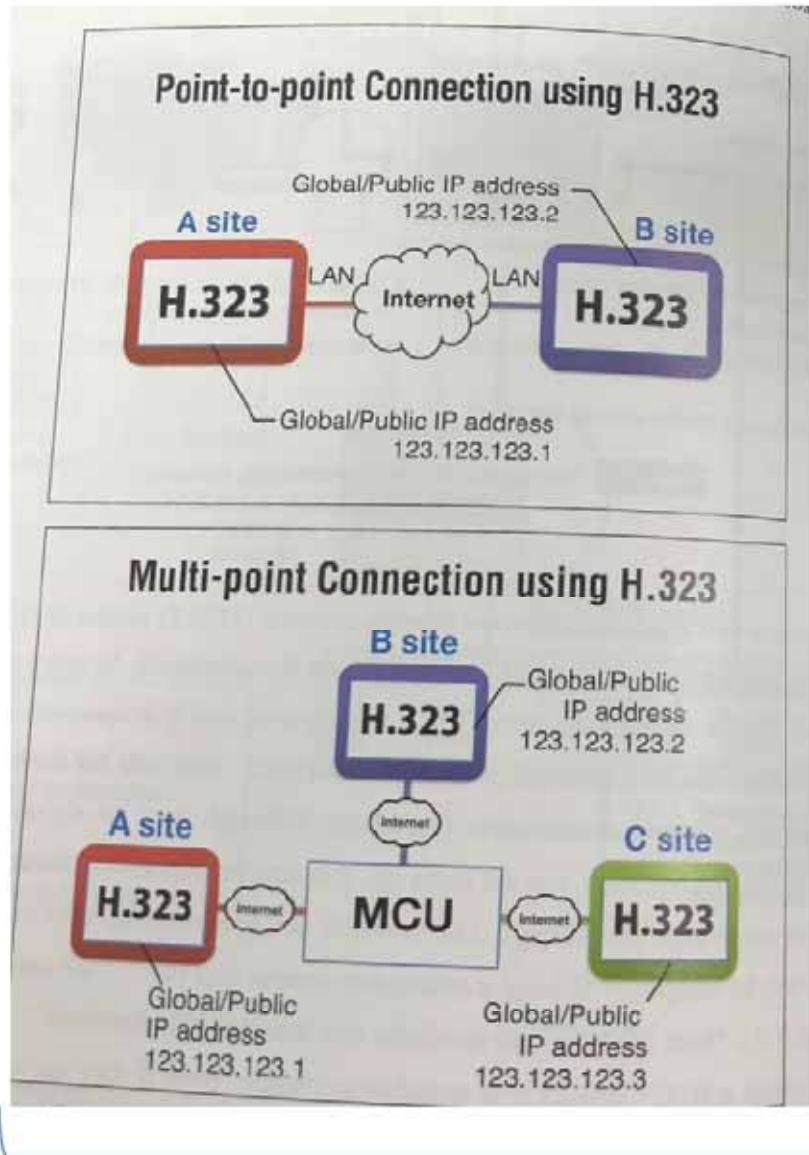
The conference will be recorded by the photos and movies. Hence, participants might be recorded in the photos and movies. The copyrights of such photos and movies will belong to TEMDEC. However, the copyrights of the presentation materials made by a participant of the conference will belong to such participant him/herself.

2. Publication of materials

The recorded photos and movies, and presentation materials, may be published in the TEMDEC home page, annual reports and academic conferences, etc. In case of publication, TEMDEC will inform participants prior to publication.

3. Conference Streaming

The conference may be delivered simultaneously by streaming. The copyrights of the movies for streaming delivery will belong to TEMDEC. Any distribution, copying, reproduction, modification and/or transmission of any of the contents of such movie files shall be strictly prohibited.



Vidyo®

**Hardware
VidyoRoom**

**Software
VidyoDesktop**

✗ Don't need IP address

**Teleconference
Send and received
video/images**

**Streaming
Send for review**

Available

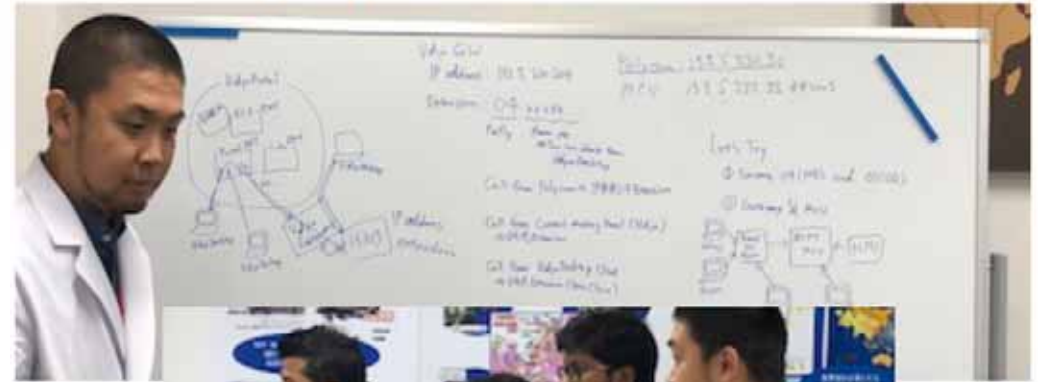
- Specific Methods for using equipment

H.323 (Polycom)

VidoRoom /VidyoDesktop/Vidyo Streaming

Audio mixer

Video Switch



1. **DVTS: Digital Video Transport System**

- SD-quality, free software, 30Mbps

1.1 DVTS-MCU

1.2 DVTS-plus: Multi-point connection software for DVTS

2. **H.323 Video Conference Systems: Polycom, Sony, Tandberg, Lifesize, etc.**

—SD/HD-quality, several Mbps

—Basically, each product (H.323 standards) is compatible with one another

2.1 MCU for H.323 Video Conference Systems: Codian, Scopia, and Cisco ... etc

We have following devices:

1. TEMDEC, Kyushu U (Kudo): Polycom RMX 1500

2. Chulalongkorn U/Bangkok (Pomarong/Chakaphan): Scopia

3. VINAREN (Minh): Cisco

2.2 Mirial Softphone: P2P style Video Conferencing Software

-SD/HD-quality, 2Mbps AT 30fps AT H.264 AT 1080p

Software can be provided by TEMDEC for collaborations

3. **Vidyo: Client-server style Video Conferencing Software**

-SD/HD-quality depends on the PC spec, several hundred kbps - several Mbps

©Server PC must be purchased, Software can be provided by TEMDEC for collaborations

4. **HD-SCR (High Definition Streaming Combined Remote conference system)**

©Setup

©4.1 HD streaming: PC slide with movie clips or live demo

· stream H.264 compressed, 1280by720/ 60 progressive HD contents

http://www.temdec.med.kyushu-u.ac.jp/data/HDstreaming_system_manual_e.pdf

5. **Tele-pointer: visual collaborative pointing interface for telepresence**

http://www.temdec.med.kyushu-u.ac.jp/data/Tele-pointer_setup_procedure.pdf

6. **Footage: Contents sharing companion tool**

Simple Manual for preview user

7. **VPN router**

1. Access <https://vidyo-portal.med.kyushu-u.ac.jp>
2. Download and run application
3. Login with Username/Password
VidyoPortal; <https://vidyo-portal.med.kyushu-u.ac.jp>
Username
Password:
4. Type Name meeting room that you want to join into Search bar
5. Click Join Room



The Conference is in Group Mode

Previous Group

Search Participants

Icons: Add participant, Email, Lock, Mute, Video off, Microphone off, End call

PARTICIPANTS: 1

Hanoi Medical University

Icons: Mute, Video off, End call

Options

VidyoReplay: [Go to Library](#)

Moderator PIN: [Save](#)

Room Link:
<https://vidyo-portal.med.kyushu-u.ac.jp>
[+](#) [X](#)

Room PIN: [Save](#)

Webcast Link:
<https://vidyo-replay.med.kyushu-u.ac.jp>
[+](#) [X](#)


Webcast PIN: [Save](#)

[Close](#)

English ▾

[All Videos \(63\)](#)

Sort: [Title](#) | [Date Created](#) | [Room](#)

View: [15](#) | [30](#) | [ALL](#) | Pages: [1](#) [2](#) [3](#) [4](#) [5](#) >>  



20180620NNSZ conference recording
Wed June 20 2018 09:59:35
by AdminFirst AdminLast



20180601NNSZ conference recording
Tue May 1 2018 08:54:00
by AdminFirst AdminLast



Latin conference recording.
Thu March 30 2017 07:29:31
by YOSHIKO HOUKABE



APU Semi conference recording.
Mon November 14 2016 17:50:52
by Shunta Tomimatsu@temdec



Latin conference recording.
Thu November 10 2016 07:57:50
by Yoshiko Houkabe, TEMDEC



APAN-engineer conference recording
Fri January 29 2016 12:45:08
by Tomimatsu@temdec



APAN-dental conference recording
Tue January 26 2016 14:31:23
by Kuriko Kudo



OUHLive conference recording.
Tue December 15 2015 13:04:56
by Kyushu University VR



Latin conference recording.
Thu November 19 2015 07:47:35
by Yoshiko Houkabe, TEMDEC



ATSD2 conference recording.
Sat November 14 2015 15:10:47
by APAN-JP



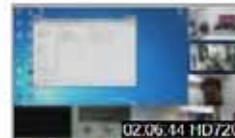
AMEG conference recording.
Mon September 21 2015 07:54:44
by Yoshiko Houkabe, TEMDEC



Latin conference recording.
Thu August 6 2015 07:07:55
by Yoshiko Houkabe, TEMDEC



colombiavive1 conference recording
Sat June 27 2015 09:22:49
by Yoshiko Houkabe, TEMDEC



20150312_Latin Endosc Teleconf
Thu March 12 2015 08:34:51
by YOSHIKO HOUKABE, TEMDEC



teamconf conference recording.
Tue February 10 2015 09:54:19
by AdminFirst AdminLast



VIDEO SHARING TEMDEC

Language

login id

Password

login



Clip registration

Project Clip name Doctor Department (Clinical Departments) LiveStreamKey Detail Remarks Preview movie
Preview user viewable period:
 - Clip file Published in the preview user

Upload filesize: 36,256,901 byte

Download limit count: Transcode quality:

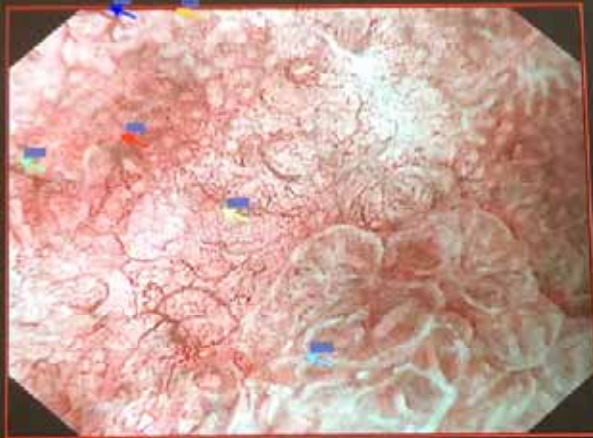
Registered Date

Transcode history

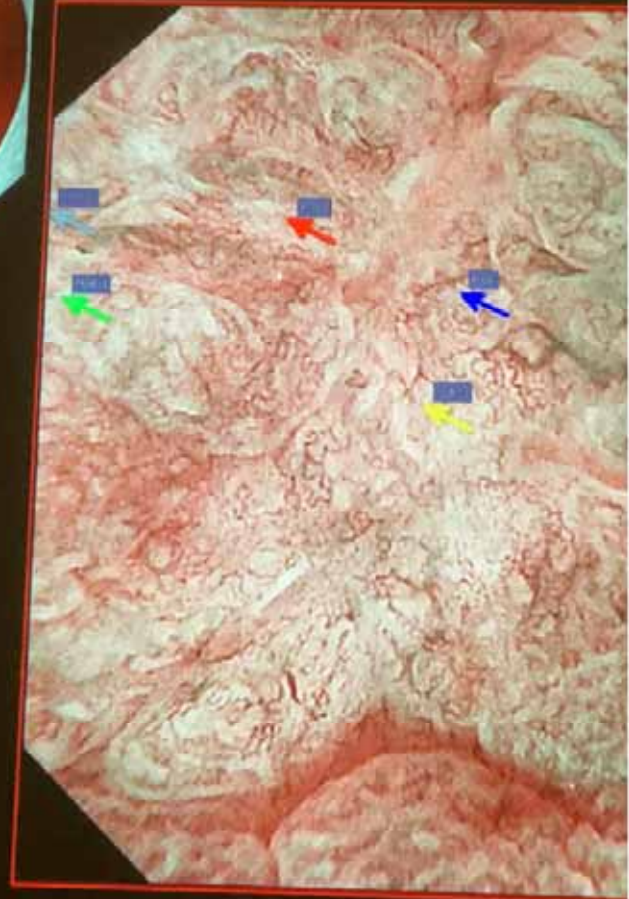
Search 2018/08/13

User name	Project	Clip	Duration	Quality	Status
Le Thi Ngoc Anh	Ti1 / H1	endocopy/vietnam	00:05:00.031	normal	completed

拡大観察 大彎側 (OLYMPUS GIF-H290Z)



拡大観察 大彎側 (OLYMPUS)



[Link to video demo](#)

Vidyo

Client-Server Style
H.264/SVC Video Conference System



High quality & low delay
Multipoint teleconference without MCU
Accessible from various kinds of devices
Streaming function

Full HD video conference device

- VidyoRoom HD230/220/100/40

Endpoint software

- VidyoDesktop (Win/Mac)
- VidyoMobile (smartphone/tablet)

Server

- VidyoPortal for TEMDEC: 23 sites, streaming/recording, gateway connection, AES encryption, VPN-enabled, endpoint software download license (x2600)

Participants

consultant

Meeting

Using

connect

Host **meeting**

Cooperation

Support

Training

An aerial photograph of a coastal resort. The top half shows a sunset over the ocean with a large island in the distance. The bottom half shows a large, multi-story resort building illuminated at night, situated on a peninsula. The building has a central tower and is surrounded by a parking lot and other structures.

Thank you for your attention

Any Question?