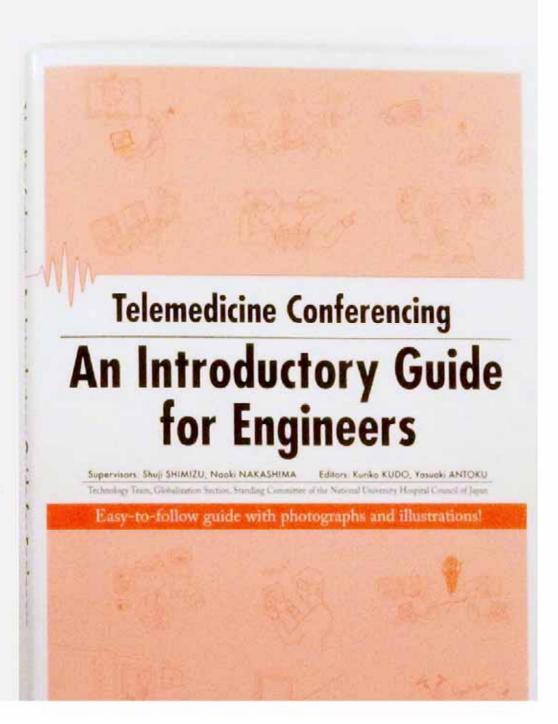




Demonstration with Manual book

Kuriko Kudo (Editor) Telemedicine Development Center of Asia

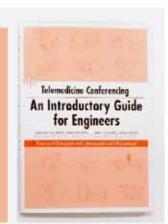
> Francisco Schmidt F. Universidad Catolica de Chile



Telemedicine Conferencing

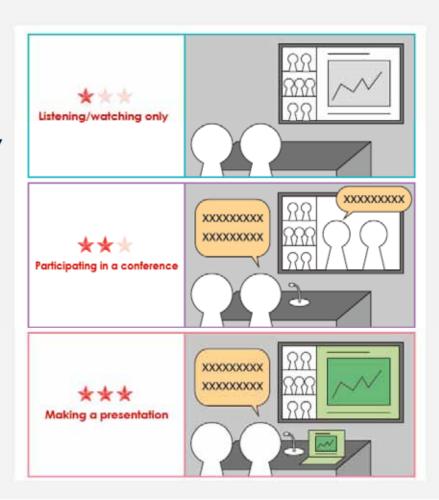
- An Introductory Guide for Engineers

Globalization Project Team -Standing Committee of the National University Hospital Council of Japan

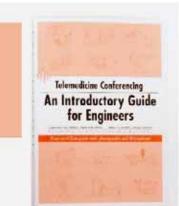


Target

- The engineers of the institution that is connecting to the conference hosted by others.
- Non-native English speaker
- Three technical levels:
 - ★☆☆ Listening/ watching only
 - $\bigstar \bigstar \Leftrightarrow$ Participating in a conference
 - $\star\star\star$ Making a presentation



Contents





Advance Preparations



Networks



Teleconferencing Systems



Venue Setup



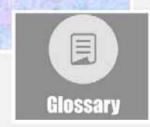
Points to Note During the Conference



Troubleshooting

Appendix!!

- -Flowchart for Determining Event Type
- -Checklist
 Depending on Event Type
- -H.323 List



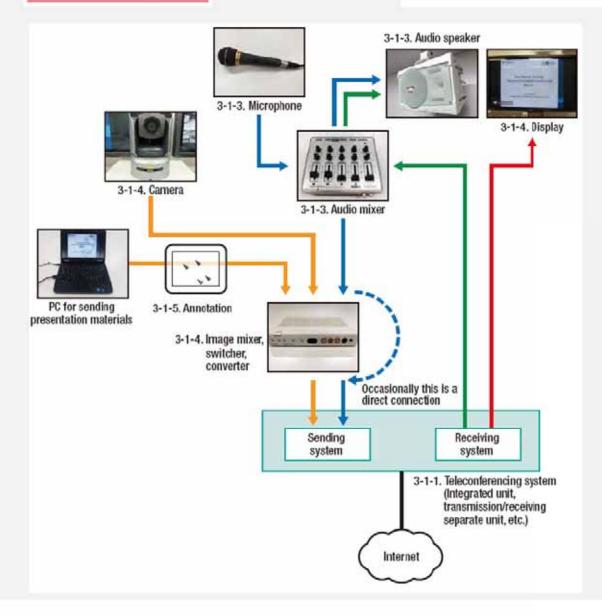
Chapter

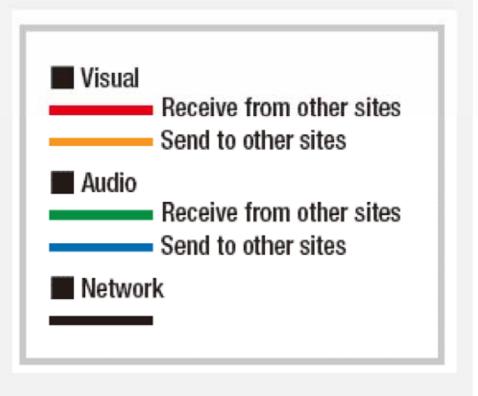


Teleconferencing Systems













Equipment Types and Combinations



H.323

Polycom, Cisco, Sony, etc

- Expensive
- + Low bandwidth
- + Easy to use



DVTS

Free software developed by WIDE project since 1998

- + Less cost
- Big bandwidth
- Difficult to setup



Vidyo

Multipoint teleconference system conformable to H.264

- + Less cost
- + Low bandwidth
- + Easy to use
- Expensive for transmitting movie and live demos



3-2-2. Vidyo Desktop Vidyo



Work with Normal Network

Internet- 3G/4G, Wifi, LTE **DHCP and Global IP** Bandwidth 1-8 Mbps

Endpoint

Let's Try!!

- VidyoDesktop (PC Application) Content Sharing (Only still pictures)
- Vidyo Room (Exclusive Hardware) \$10,000 or higher Content Sharing (including Movie clip)
- Vidyo Mobile App



Vidyo Desktop



Vidyo Room



3-2-2. Vidyo Desktop Vidyo



I) Recommended requirements for Vidyo

PC

- Windows:10/8.1/8/7/XP
- Mac:OS X 10.6 or later
- CPU At least Core 2 Duo 2GHz
- RAM 2 GB



Webcam

Logitech Webcam (Pro C920, C910, C510, C310, Pro 9000, C600, C905, QuickCam Pro 9000 Creative Live! Cam Socialize HD

USB Headset, SpeakerPhone

Logitech USB ClearChat headset series Plantronics USB headsets, Plantronics P420 speakerphone ClearOne Chat 50 or Chat 150 speakerphone Jabra Speak 410 speakerphone





3-2-2. Vidyo Desktop Vidyo



2) Preparations and installation

- 1. Connect your web camera and speakerphone or headset to your PC.
- 2. Connect your PC to the internet.
- 3. Access the URL for the VidyoPortal https://vidyo-portal.med.kyushu-u.ac.jp/
- 4. Download VidyoDesktop.
- 5. Run the downloaded program.



3-2-2. Vidyo Desktop Vidyo



3) Login and search room

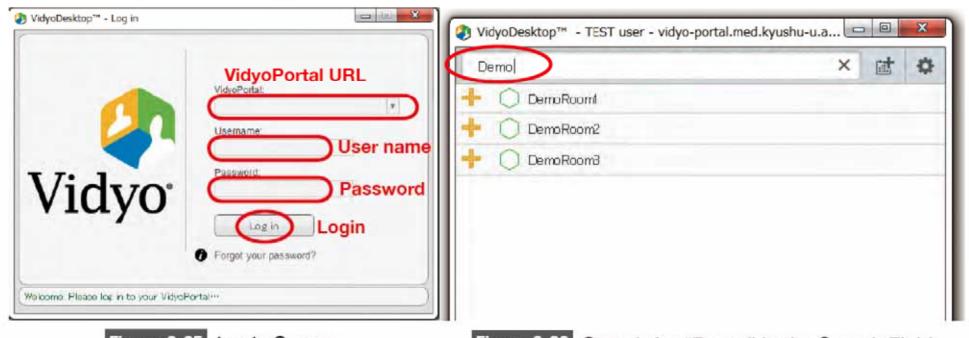


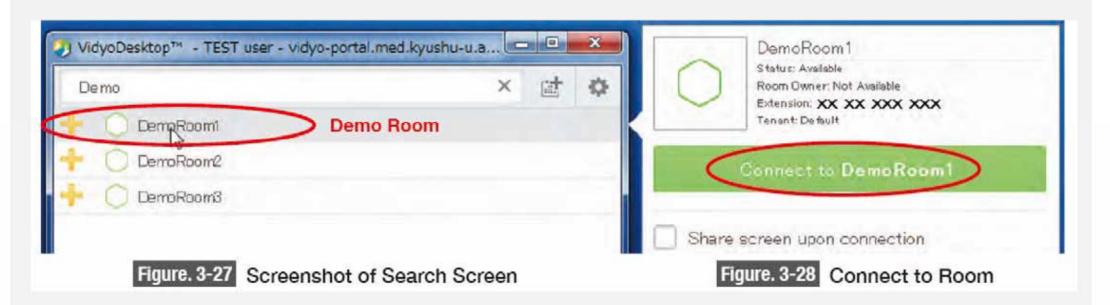
Figure. 3-25 Login Screen Search for "Demo" in the Search Field



3-2-2. Vidyo Desktop Vidyo



4) Participate in a room





3-2-2. Vidyo Desktop Vidyo



5) Operations when in a conference



View a list of the conference participants.



Show or hide the video feed from your camera.



Chat with all participants as part of the conference group chat.



Mute, unmute, and control your audio speaker volume.



Select how to view the participants' video windows during the conference.



Mute, unmute, and control your microphone volume.



Enter and exit full screen.



Open the Settings page.



Select which application or screen you wish to share in the conference.



Toggle between the conference time and a clock.



Toggle among the applications or screens that are being shared during the conference.



End the conference.



Toggle your self-view preference.

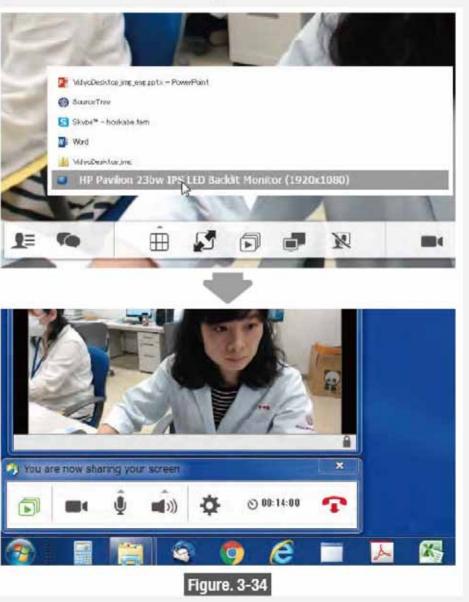


3-2-2. Vidyo Desktop



6) Sharing presentation

- Click on the "Start Sharing" and select your display.
- * Do not select the PowerPoint software from the list.
- Sharing has started.
 The VidyoDesktop window will shrink and the desktop screen will appear.
- * From your counterpart, both your camera and your sharing will be shown.





3-2-2. Vidyo Desktop Vidyo



- 6) Sharing presentation
- 3. Open your PowerPoint slideshow.





3-2-2. Vidyo Desktop



6) Sharing presentation

- 4. To stop sharing your presentation, click once again on the "Start Sharing" icon and select "Stop Sharing".
- * Once you stop sharing the Vidyo Desktop, window will be restored to full size.
- * Once your presentation has finished, be sure to stop sharing your screen.







Sharing movie Contents

Contents sending = lower framerate.

Movie cannot send with contents sharing smoothly!

Then, how we send movie smoothly?

⇒Use hardware!

Use VidyoRoom

Use H.323 + Gateway connection + Switching Image

TEMDEC supports sending movie file from Hardware.

⇒Presenters need to send the movie file in advance

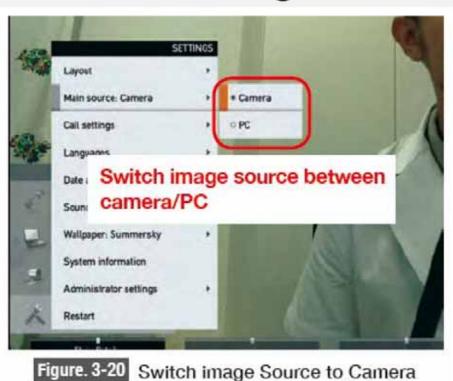




Sharing movie Contents by H.323

Switch image source:

<u>Good</u> for sending movie.



Contents sharing:
 Not good for sending movie.

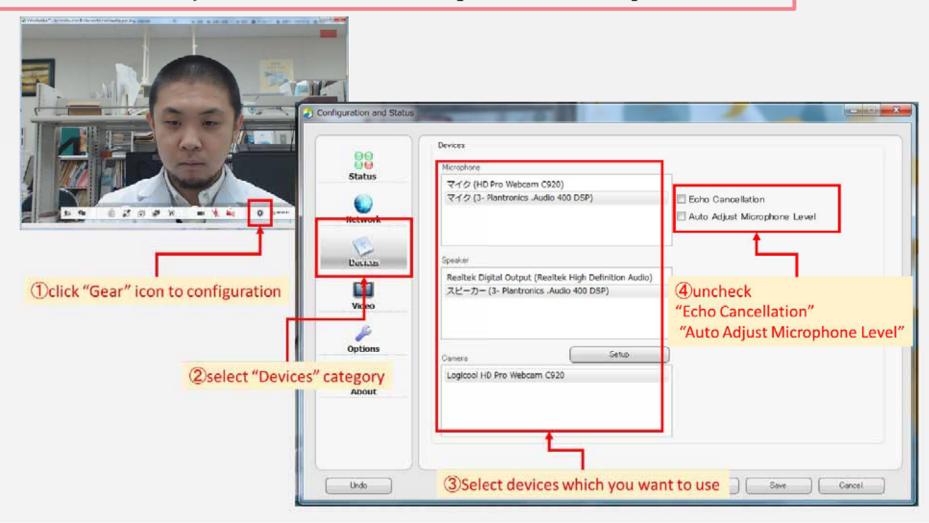




3-2-2. Vidyo Desktop Vidyo



Audio Adjustment in Vidyo Desktop

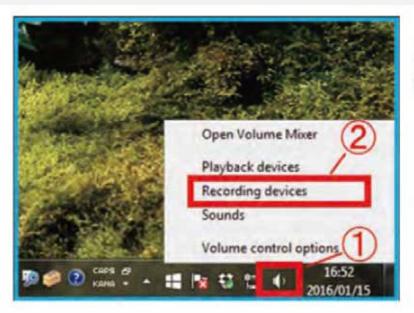




3-2-2. Vidyo Desktop Vidyo



Audio Adjustment in the PC



Adjust microphone level from the recording device settings on your PC

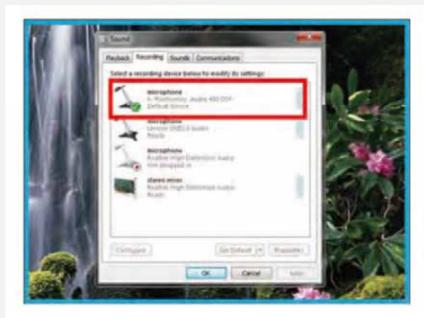
Right-click on the speaker icon at the bottom righthand of your PC screen 1 and select "Recording devices" (2).



3-2-2. Vidyo Desktop Vidyo



Audio Adjustment in the PC



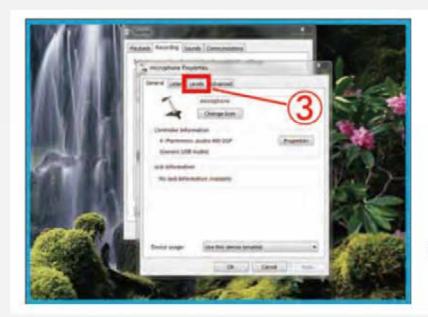
Select the microphone you are using from the list of recording devices and double click.



3-2-2. Vidyo Desktop Vidyo



Audio Adjustment in the PC



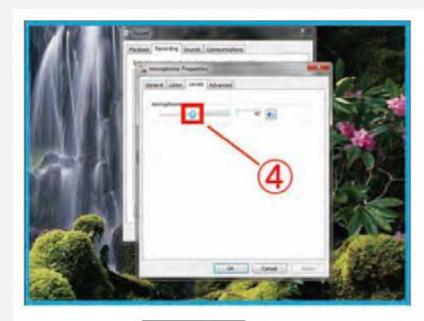
Select the "Levels" tab 3 in microphone properties.



3-2-2. Vidyo Desktop Vidyo



Audio Adjustment in the PC



Adjust by dragging the slider 4.

Figure. 3-33 Method for Setting Recording Devices (Windows 7)



3-1-3. Audio equipment





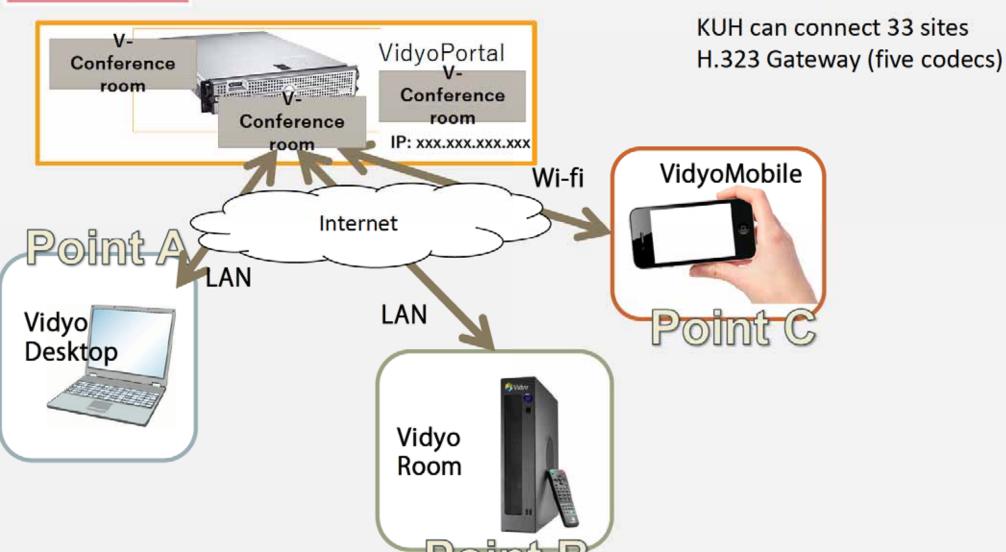
3-1-3. Audio equipment

Table. 3-1 Microphones Suitable for Telemedicine Conferencing

Microphones Suitable for Telemedicine Conferencing			
	Headset	Hand-held microphone	Stand microphone
Illustration	Microphone On/off switch	On/off switch Lit when on	Lit when on On/off switch
Recommended user	Surgeon performing live surgery	Questioner/Moderator	Chair/Moderator
Benefits	Hands-free and usually echo-free	Easy to hand around	Hands-free/Does not need to be worn
Hints for choosing equipment	On/off switch in accessible position	Has on/off switch Can visually confirm when on/off Color differentiation when using multiple devices	Has on/off switch Can visually confirm when on/off



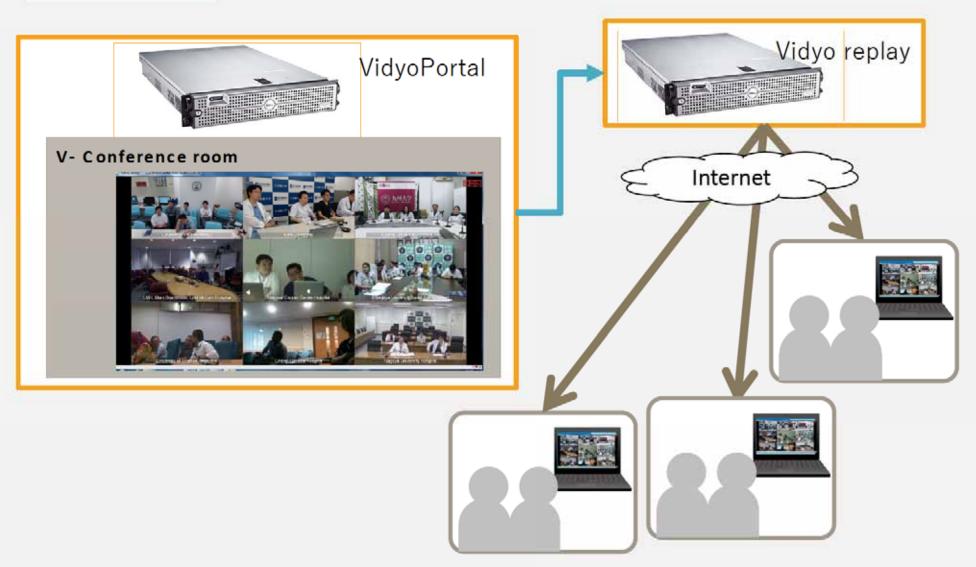
Connection of Vidyo





Streaming

KUH can stream out 300 sites





Rules for use KUH Vidyo

I. Booking in Advance (including test)

- Short purpose
- Day and Time
- How many sites

2. Reporting afterwards

- Short Result
- Photos
- Problems



Email to: tem-tech@med.kyushu-u.ac.jp





Demonstration with Manual book

Kuriko Kudo (Editor) Telemedicine Development Center of Asia

> Francisco Schmidt F. Universidad Catolica de Chile

