

Reach Portfolio

Representante oficial en España:

imaginArt

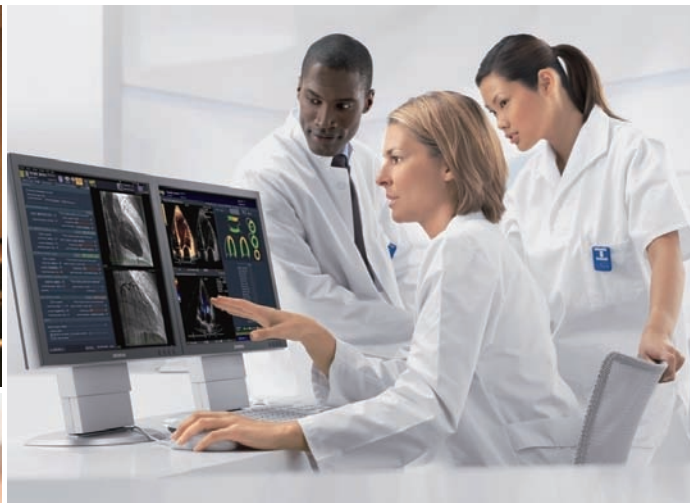
C/ Pujades 273-275 - 08005 (Barcelona)

Telf.: 93 292 07 70 - Fax: 93 217 76 51

imaginart@imaginart.es

www.imaginart.es





Visual information recording and streaming

Visual Information Recording and Streaming

21 century is an information based-century; the man who grasps the advanced information in the first time will become invincible in the trade. In the past few years, with the rapid development of technology and popularized internet, people raise more requirements for how to record and stream the information, comparing with the traditional way of single recording video or taking pictures functions.

The modern recording and streaming function show itself for satisfying the new needs of the new times, especially in the field of education, corporation training ,healthcare.

The new technology allows more staffs benefit from live streaming information, including the whole scene and content on the computer and successfully breaks the limitation of place, location or other restriction, truthfully transfer real-time video to the staff's desktop in sub-second.

As an economy enterprise or nonprofit-distributing school, saving the budget and optimizing or maximizing the use of the recourse remains important for their development. They need to utilize all available resources to improve their efficiency, such as the training course, lectures, reports and lessons.

Now we have this question, who can provide such system to transfer and record the information, save the energy and cost, promote the efficiency?



Shenzhen Reach Software Technology Co. Ltd, founded in 2003, a national high-tech enterprise, aims to provide the most advanced products and compressive solutions involving the information recording and streaming system in the fields of Education, Training, Healthcare and Video conference Etc.

- ▶ Live streaming all the information, including the audio and video signals, as well as the computer screen signals synchronously, clearly and smoothly without the restriction of location and place.
- ▶ Recording the media information which can be replayed anytime anywhere.
- ▶ Based on IP network, more convenient to receive the signals.
- ▶ Friendly user interface, easy to be operated by common staff.
- ▶ Special hardware platform, embedded operating system, high stability and reliability, easy maintenance

REACH is trying its best to make customers realize their full potential and maximizing profit without any restriction, and be more competitive in fierce economy battle.



Applications

Education

Training

Healthcare

Events

Conference

Video Conference Recording

Telepresence Recording

Video Wall Recording



Education

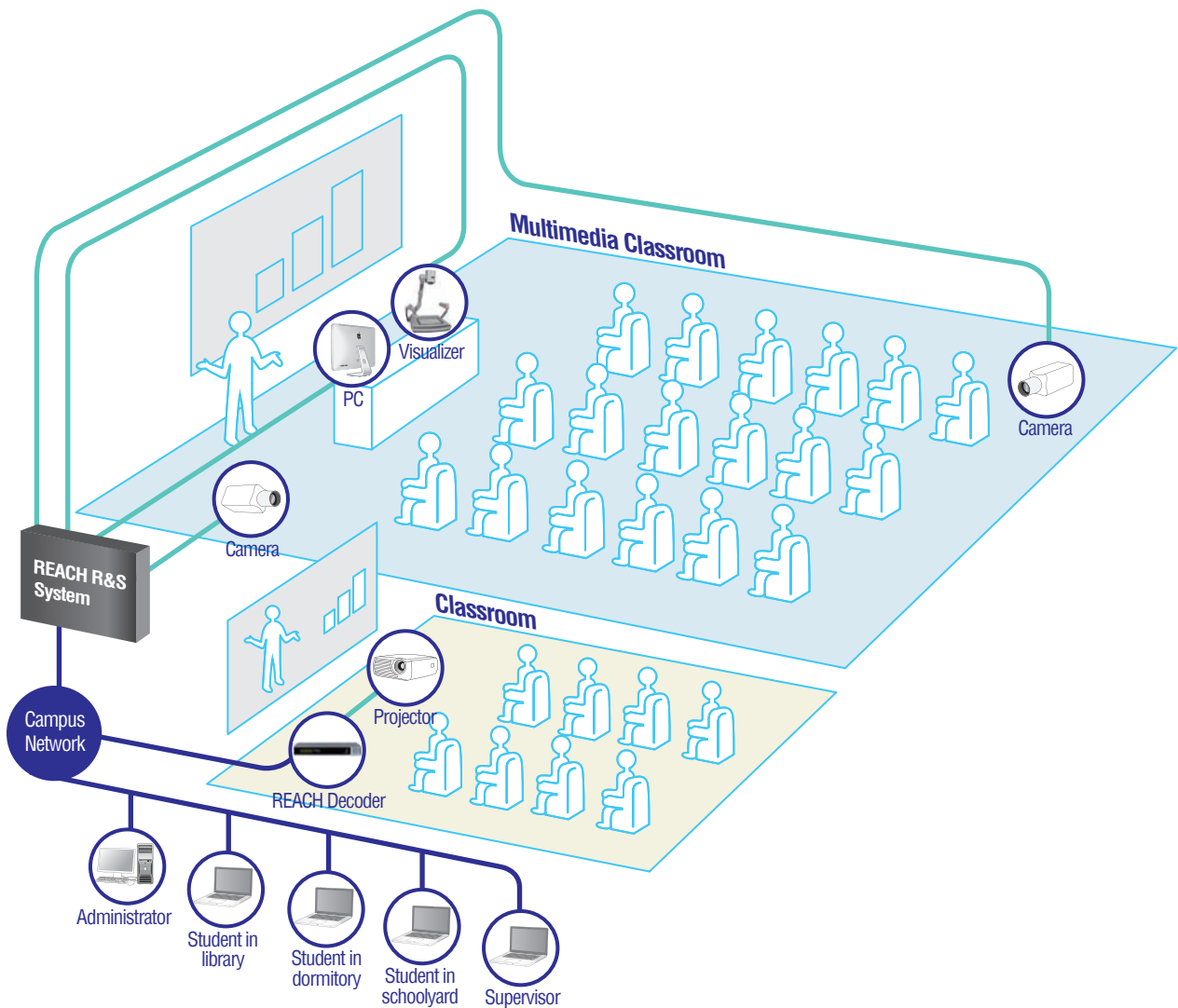
In these days, various types of scientific exchange and expert reports are often held in universities to demonstrate and improve their teaching and academic level. While for the limitation of space and time, how to present all the valuable lectures to more students is the main problem. Now comes the REACH recording and streaming system, it not only can live streaming the overall audio, video media and computer desktop information but also can make recording of brilliant performance for future VOD service anywhere anytime.

The advantages of this system

- 1. Record and share the knowledge more fully and flexible.*
- 2. Useful for stimulating the student's interest in learning.*

How it works

REACH solution is based on IP network, video, audio signal, teacher's PowerPoint and what he/she shows in visualizer from classroom are easy to be delivered to students. Students in library, dormitory and any other place where can reach campus network, can catch the class via campus network live. The recorded class will be saved in REACH server and can be automatically transferred to school's resource server for students play on demand.



Key Features

1. Clear VGA picture, every thing the teacher show in computer can be captured.
2. Multi signals synchronously.
3. HD signal support (1080P).
4. Anywhere and anytime.



NTU Business School (Multi-signal solution)

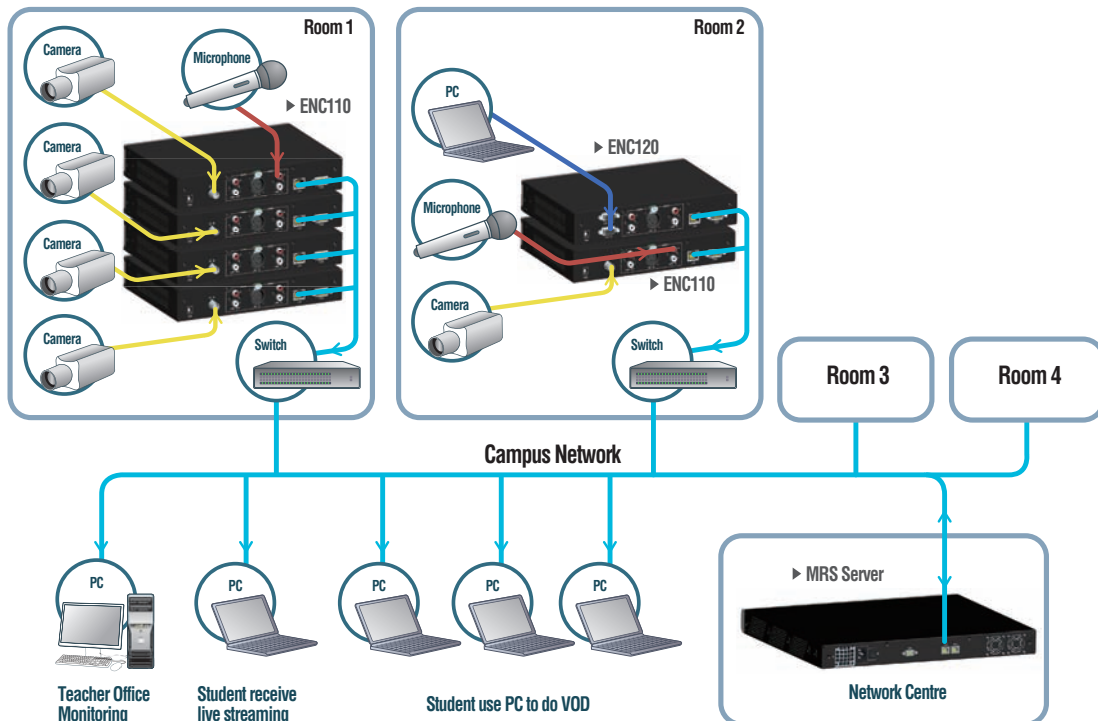
NTU is one of the Top 3 universities in Singapore, and is listed in the Top 50 Universities worldwide. In this case, Nanyang Business School has a training center, composed by 4 training rooms, the key requirement is in each room, they have several signals input, which up to 5 signals in one room; They use REACH solution to do recording and streaming for all these 4 training rooms simultaneously.

List of accessory product in total solution

Type	Device	Quantity
Video Source	Standard definition camera (Sony)	8
VGA Source	PC	1
Audio	Audio Mixer	4
Display	Projector	4

REACH Product List

REACH Device	Model	Quantity	Connection to
VGA Encoder	ENC120	1	PC
AV Encoder	ENC110	8	SD Camera
HD Encoder	ENC1000	1	HD Camera
MRS Server	CM400	1	Campus Network
EncoderManager	CMP100	1	Installed in administrator's PC



Deliverable

- ▶ 5 video/VGA signals recorded in one screen.
- ▶ Record and live stream for these 4 training rooms simultaneously.
- ▶ Monitor all the 4 training rooms by computer, including the VGA signals.
- ▶ Students do VOD or receive live streaming from all 4 training rooms.
- ▶ Scheduled recording.



Multi-signals show in one screen



Open University of Hong Kong (Multi-room solution)

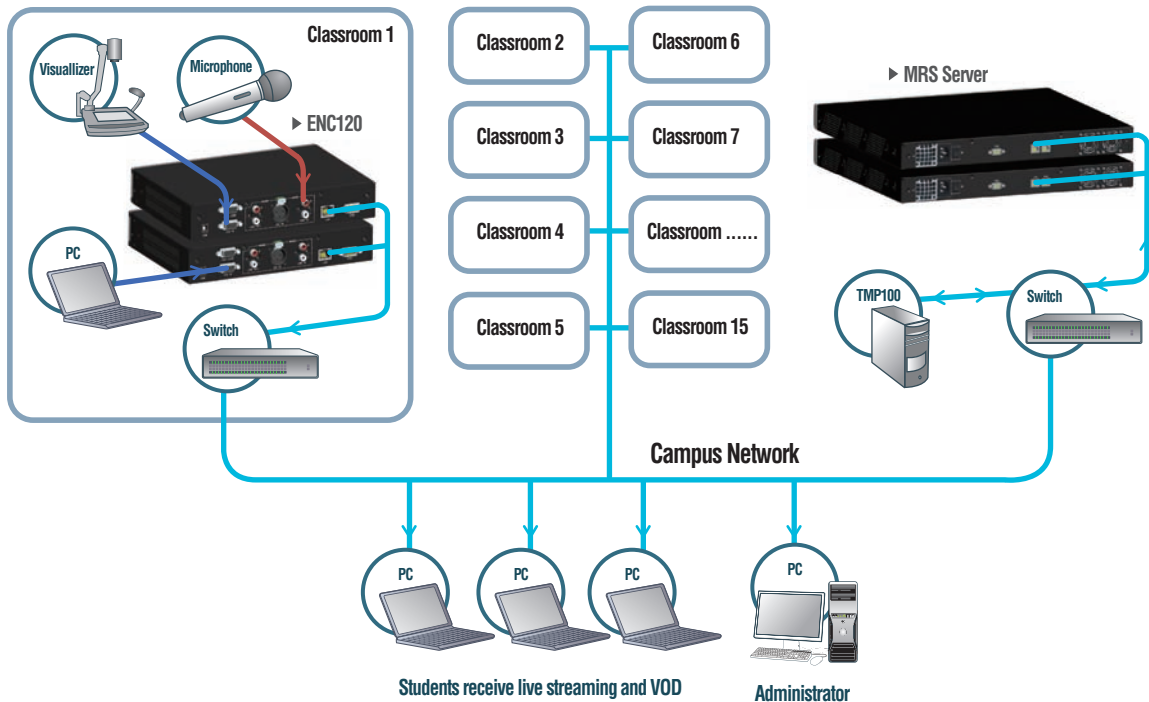
Open University is one of the most famous universities in Hong Kong, REACH integrates recording & streaming system into university IT platform. PC VGA and visualizer signal are recorded in classrooms simultaneously, students access to see live lecture show and play back on demand over campus network.

List of accessory product in total solution

Type	Device	Quantity
VGA Resource	Visualizer	1
VGA Resource	PC	1
Audio Resource	Microphone	1
Display	Projector	1

REACH Product List

REACH Device	Model	Quantity	Connection to
MRS Server	CM 800	2	Campus Network
VGA Encoder	ENC 120	30	Laptop / PC / Visualizer
Management Software	TMP100	1	Installed in Dell PC server
Editing Software	MES100	1	Installed in administrator's pc
EncoderManager	CMP100	1	Installed in administrator's pc



Deliverable

- ▶ Two VGA from PC and visualizer are shown in one picture.
- ▶ Lecture recording for 15 classrooms Simultaneously.
- ▶ Well integrated with University IT platform, students access to see live lecture show and play back on demand.
- ▶ Scheduling recording for multiple classes.



Training

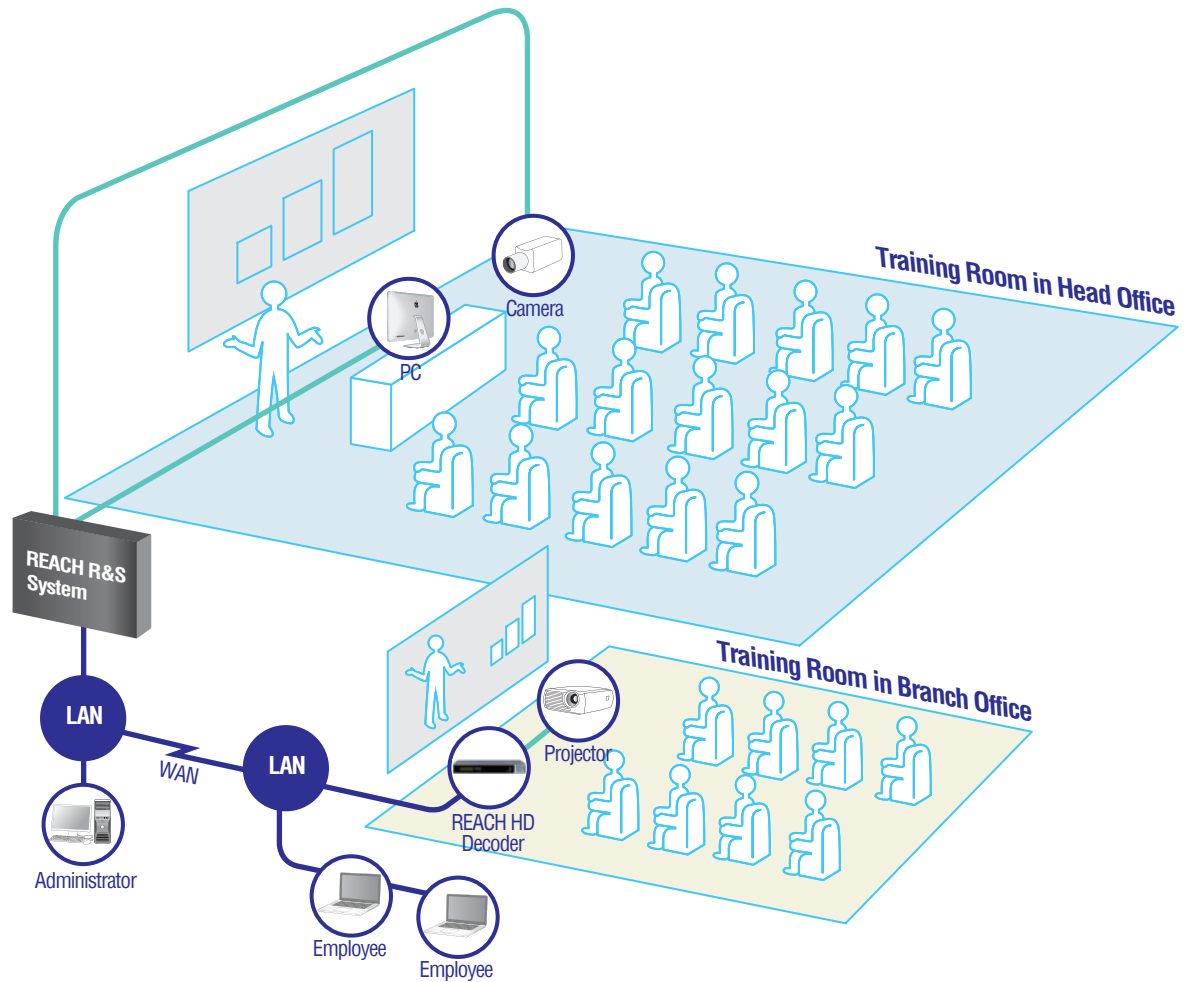
In such information-based times, the man who grasps the advanced information in first time will probably be the man remaining invincible in the trade. It requires all the staff in the company can share the advanced information fast and timely. Thanks to REACH system, Corporate Video Streaming is easy. Imagine being able to deliver the important training course to every employee in your organization simultaneously, distribute real-time content to their desktop, and make all of it available for on-demand viewing at anytime.

Benefits

- 1. Save the companies' cost for training.*
- 2. Help companies improve efficiency.*
- 3. Enhance the interaction and participation among the employees, make the company more vibrant.*

How it works

Lecturer is doing training to staff in the training room of head office, at the same time his/her pictures, voice and presentation content will be transfer to another branch office's training room, and desktop of staff. Also the training event will be recorded, trainee can playback anytime through network.



Key Features

1. Video and presentation content synchronously.
2. Head office and branch office together.
3. Reuse the recorded resources.



Training center, Unilever Indonesia (Multi-room solution)

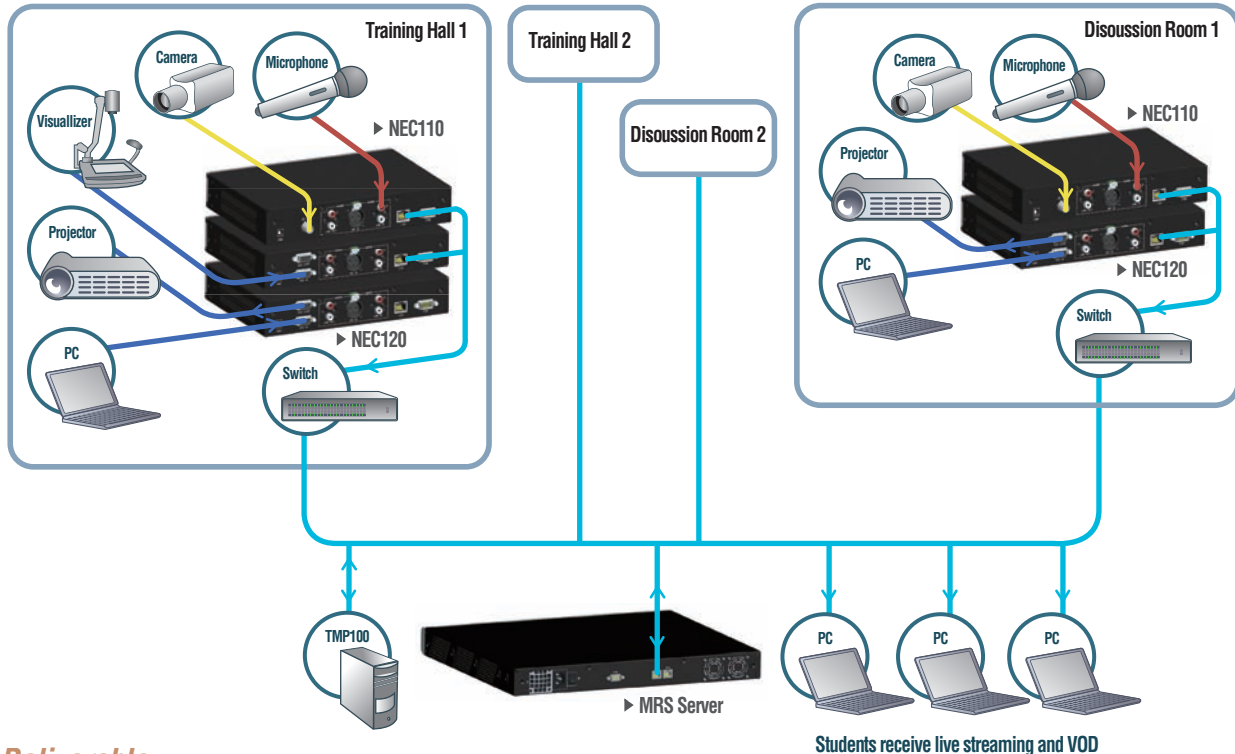
The training center of Unilever Indonesia, built like a villa, located on a beautiful mountain near Jakarta. The challenge there is to connect all data training contents unboundedly across the training halls, discuss rooms. The trainees are capable of accessing to training courses everywhere either for live training or recorded files.

List of accessory product in total solution

Type	Device	Quantity
Video source	SD camera	4
VGA source	Laptop / PC / Visualizer	-
Audio source	Microphone	-
Display	Projector	4
Control	Crestron RoomView	1
Management Server	Dell PC Server	1

REACH Product List

REACH Device	Model	Quantity	Connection to
SD Encoder	ENC110	4	SD camera
VGA Encoder	ENC120	6	Laptop / PC / Visualizer
MRS Server	CM400	1	IP network
Management Software	TMP100	1	Installed in Dell PC server
EncoderManager	CMP100	1	Installed in administrator's PC



Deliverable

- ▶ Simultaneously record 4 training groups.
- ▶ Concurrently support 100 trainees to receive live training or VOD show through IP network.
- ▶ Be scheduled to record and archive training courses.
- ▶ Automatically FTP backup.
- ▶ Visually manage all REACH hardware devices.

Students receive live streaming and VOD



Hong Kong Prudential Brokerage (Portable solution)

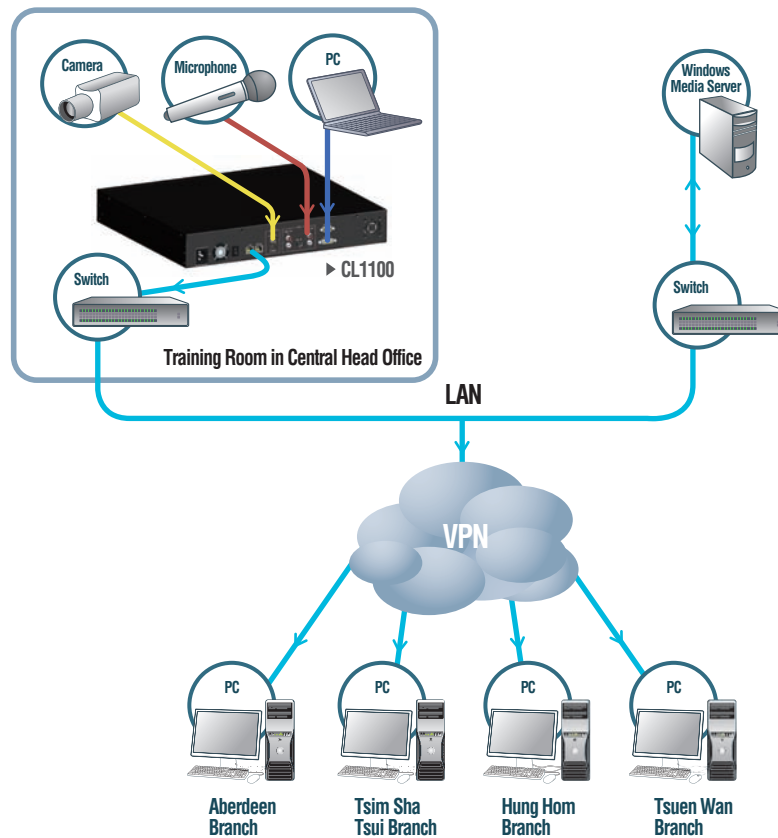
Prudential Brokerage Limited (Prudential), established in 1986, is a participant of The Stock Exchange of Hong Kong Limited and Hong Kong Futures Exchange Limited. As a Category B securities broker, they have more than \$2 billion value of net assets, and manage more than several billion assets value. Prudential sets up several trainings every month, REACH helps to push live training show into four branch offices, and record all training courses in all in one server.

List of accessory product in total solution

Type	Device	Quantity
Video Resource	SD Camera	1
VGA Resource	PC	1
Audio Resource	Microphone	1
Windows Media Server	PC Server	1

REACH Product List

REACH Device	Model	Quantity	Connection to
Media Casper	CL 1100	1	IP Network (Push Streaming to Windows Media Server)



Deliverable

- ▶ Trainer video and PC VGA are shown in one picture.
- ▶ Integrate with windows media server to push live streaming into 4 branch offices.
- ▶ Vivid VGA picture up to 30 frame/second.



Healthcare

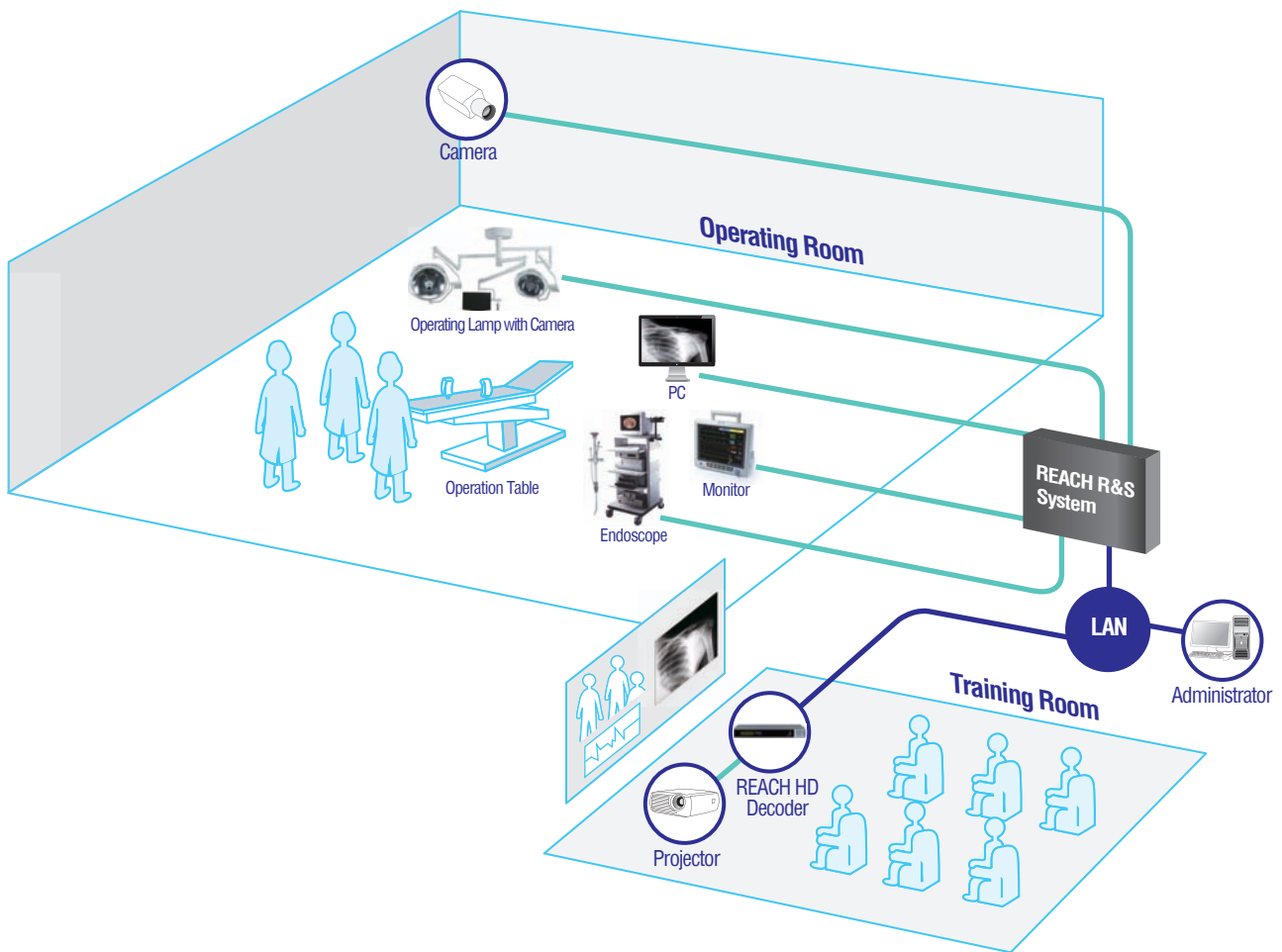
Nowadays more advanced facilities are used during the process of an operation to monitor the medical data which is very useful for doctor's analysis and medical education. While in the past, for some reason, people have little chance to access to the operation scene or saved the media information of the whole process. Now REACH Recording & Streaming System fixes this problem, by our product, more staff are available to watch the real-time operation out of the operation room online and all the media information will be stored in our sever for the doctors and staffs to replay anytime any where.

Benefits

- 1. Take records of the whole operation and diagnoses scene.*
- 2. Help the doctors conclude a more precise diagnosed result for the patients.*
- 3. Share the media information by more staff and more occasions.*
- 4. Promote the medical level and service.*

How it works

REACH recording and streaming system capture signals from medical camera, endoscope, monitor, PC with x-ray picture and other medical equipments in operating room. Students in training room watch what doctor is doing and what medical equipment is showing live. With all kind of signal be transferred, students see all the details of the operation. Also students can playback recorded files later for review.



Key Features

1. Different kind of signals from medical equipment.
2. Clear pictures.



Changhua Christian Hospital, Taiwan (Multi-room solution)

Changhua Christian Hospital (abbreviated hereafter as CCH) was established in the year 1896, and grew under the selfless contributions of overseas missionaries, until the present day, 109 years later. CCH is and has been the most important guardian for the health and well-being of the people in Changhua area.

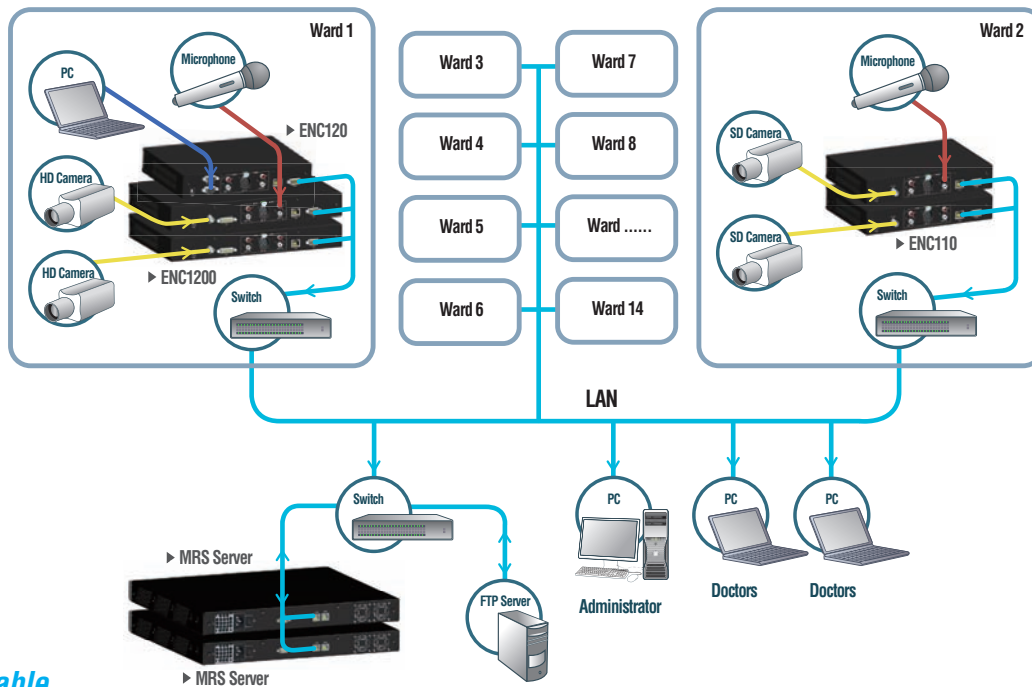
To introduce the objective structured clinical examination (OSCE) for intern doctors, CCH needs 14 wards with recording & monitoring system. The intern doctor goes through these wards to simulate diagnostic process with various types of patients within 90 minutes; examiners judge their performance outside the wards. Two cameras are equipped in each wards, plus one computer to call out the PACS image. The administrator can monitor the examination in control center; the whole process needs to be recorded. REACH provides this solution.

List of accessory product in total solution

Type	Device	Quantity
SD Video source	SD camera	26
HD Video source	HD camera	2
VGA source	Laptop / PC	1
Audio source	Microphone	14
Management Server	Dell PC Server	1

REACH Product List

REACH Device	Model	Quantity	Connection to
SD Encoder	ENC110	26	SD camera
HD Encoder	ENC1200	2	HD camera
VGA Encoder	ENC120	1	Laptop / PC
MRS server	CM600	1	IP network
MRS server	CM800	1	IP network
Management software	TMP100	1	Installed in Dell PC server



Deliverable

- ▶ Simultaneously record 14 wards, multi-signals in each ward, flexible configuration.
- ▶ Scheduled recording and automatically file archiving.
- ▶ General Management Platform for central management.
- ▶ Automatically FTP backup.
- ▶ 200 Concurrent users streaming.



National University Hospital of Singapore

The National University Hospital (NUH) is the principal teaching hospital of the NUS Yong Loo Lin School of Medicine in Singapore.

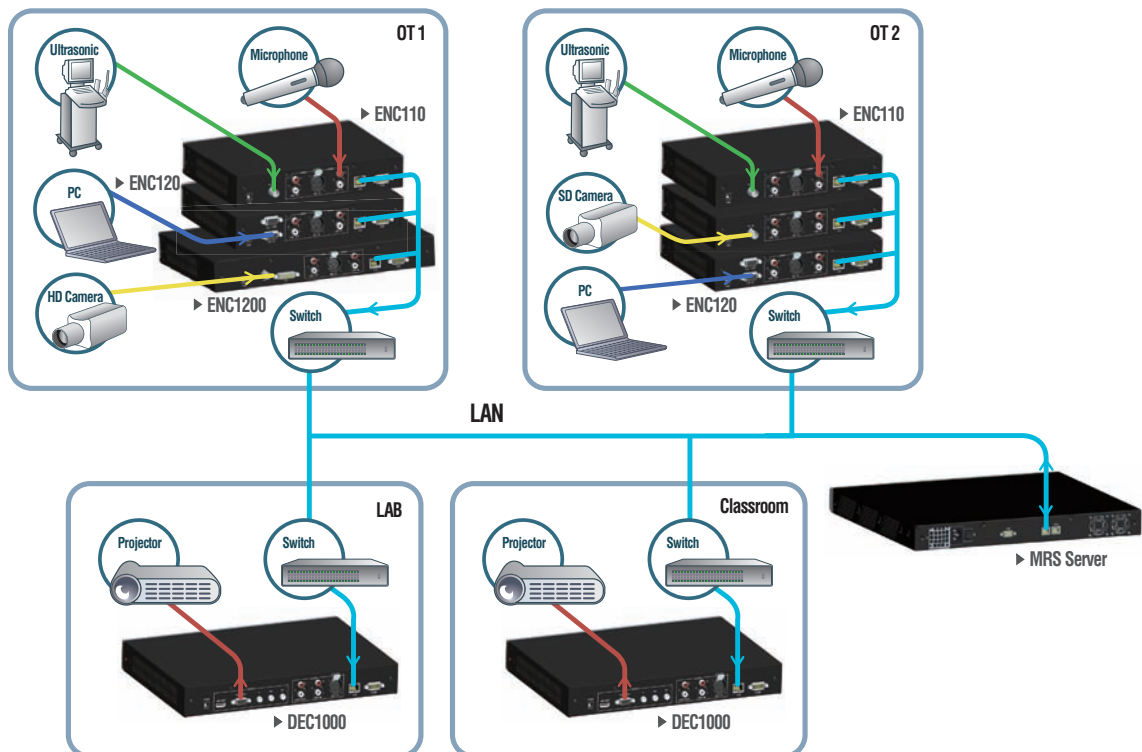
In NUH, it has a Women Clinic Center, it has 2 main women clinic rooms; in this case, there are other two rooms, one is a classroom, the other is a lab room. The NUH use REACH live stream the operation to classroom and the Lab room for study purpose, at the same time, the important operation, doctors can study the patient's body situation to find out a cure solution.

List of accessory product in total solution

Type	Device	Quantity
Video source	HD camera, SD camera	2
Video source	Ultrasonic image	2
VGA source	PC	2
Display	Projector	2

REACH Product List

REACH Device	Model	Quantity	Connect to
VGA Encoder	ENC120	2	Laptop / PC
HD Encoder	ENC1000	1	HD Camera
SD Encoder	ENC110	3	Ultrasonic
MRS Server	CM200	1	IP Network
HD Decoder	DEC1000	2	Projector



Deliverable

- ▶ Record important operation.
- ▶ Live stream the patient's body situation to Lab room for doctor to find out a cure solution.
- ▶ Medical student live study how to do operation.
- ▶ Medical student do VOD for missed operation for study purpose.
- ▶ Decoder with remote control, easy for to operate the whole system.



Events

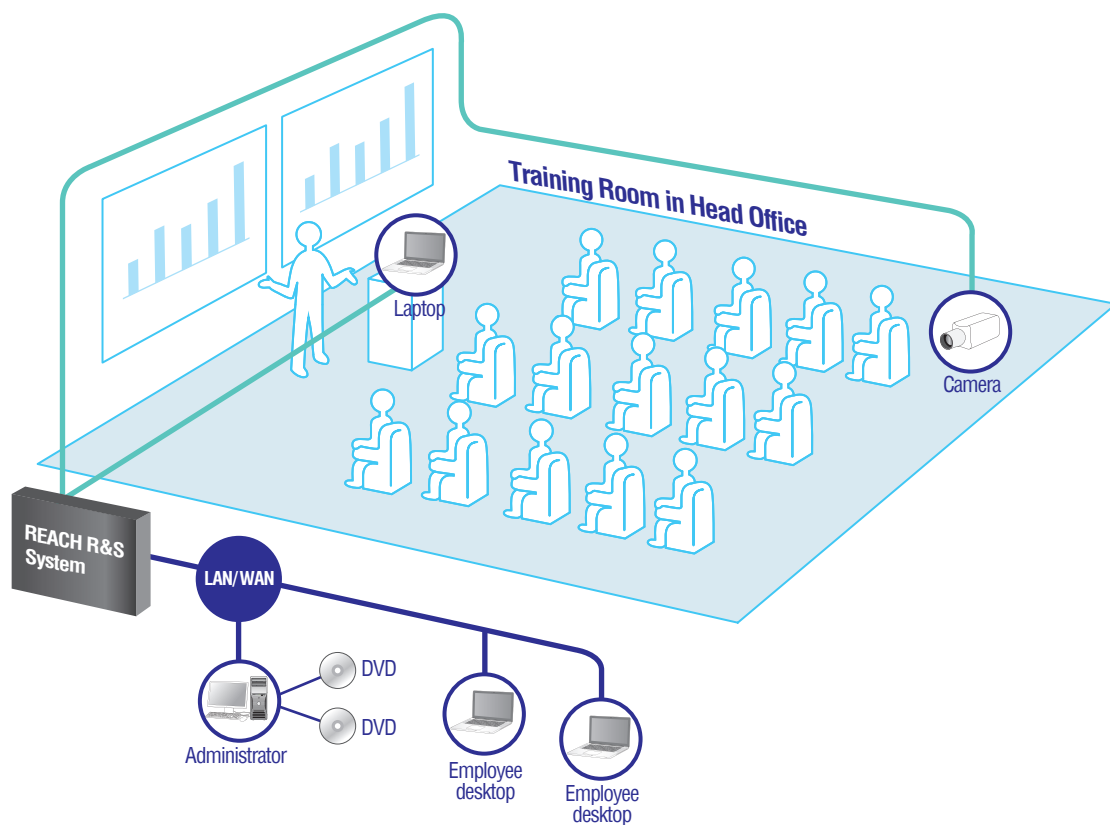
Every year many international meetings or forums are held to discuss the important issues around the world which will bring great impact in the specific field. While how to keep records of these significant moments or show such meetings to more audiences remain a challenge. In the past, the traditional modes only record the videos and audios of the honored guests without contents on PowerPoint for the lectures. Now REACH solution solves this problem, thus the real-time video together with the PowerPoint content will be streamed through the network to more people unavailable present and media information will be stored in the sever, and can be downloaded to flash disk or DVD to distribute.

Benefits

- 1. Record and distribute new ideas.*

How it works

REACH recording and streaming system capture video signal of presenter and presenter's laptop on the event site, what the presenter said and show will be recorded, and burned to DVD to distribute. At the same time the event can be live stream over IP network.



Key Features

1. Files are burned to DVD to distribute.
2. Clear pictures.



Conference

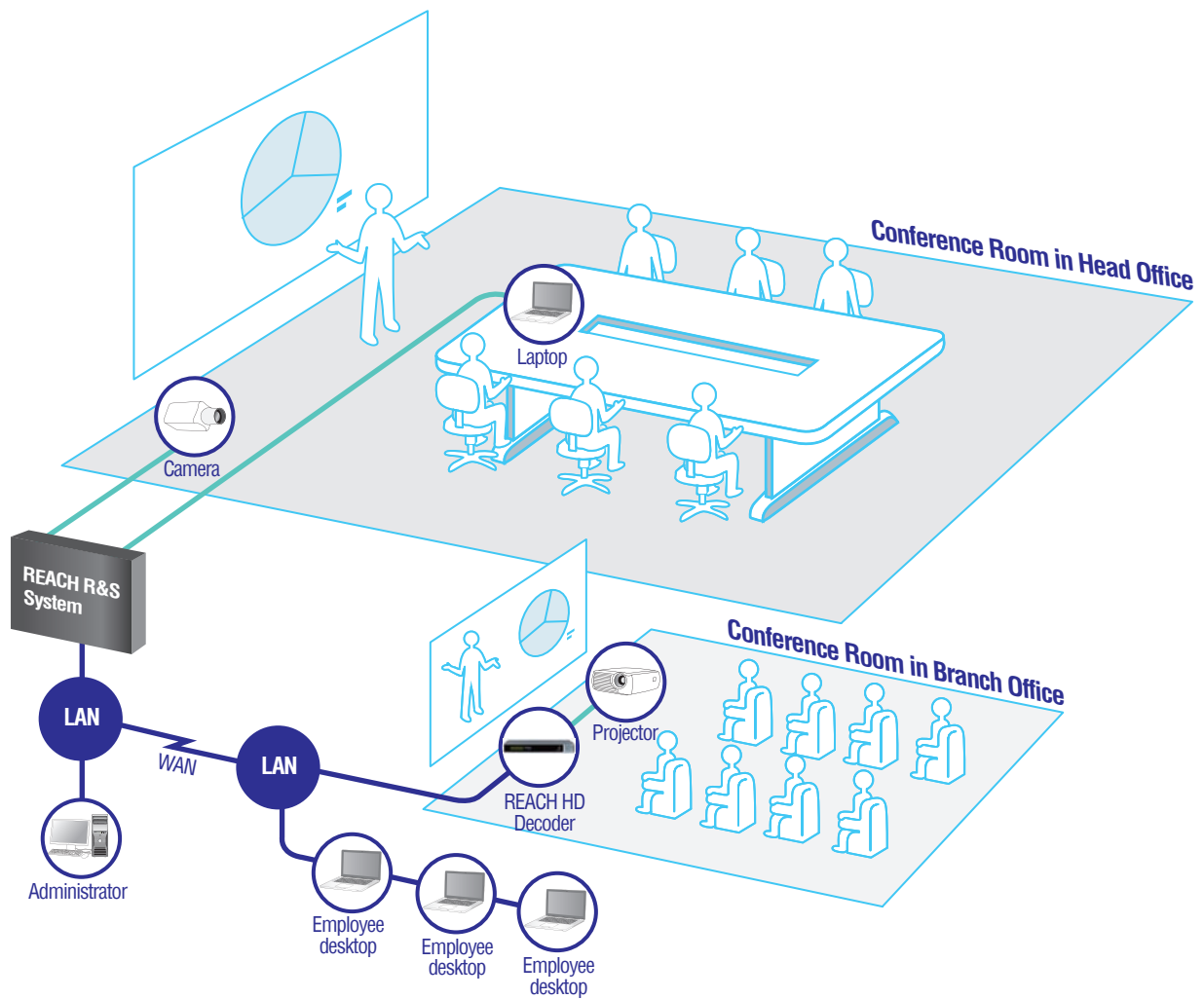
Nowadays, all the wise decisions and innovative ideas are spread among an organization by all kinds of conferences and it really helps the enterprises and governments work more efficiently and smoothly. But be restricted to location and time, not all the staff can be present to attend the conference. In order to solve this problem, REACH provides recording and streaming solution for such occasions. With the help of this system, people can replay the conference in high quality picture and audio anywhere anytime without worrying about missing any important information.

Benefits

- 1. Spread the enterprise's value.*
- 2. Save important conference information.*

How it works

Conference is holding in head office, the whole conference, including speaker's pictures, video and presentation content will be delivered to branch office and staff's desktop via network. Staff catch the conference live. At the same time, conference is recorded.



Key Features

1. Clear pictures and voice.
2. Video and presentation content synchronously.
3. Expand conference to every staff's desktop.



Video Conference Recording

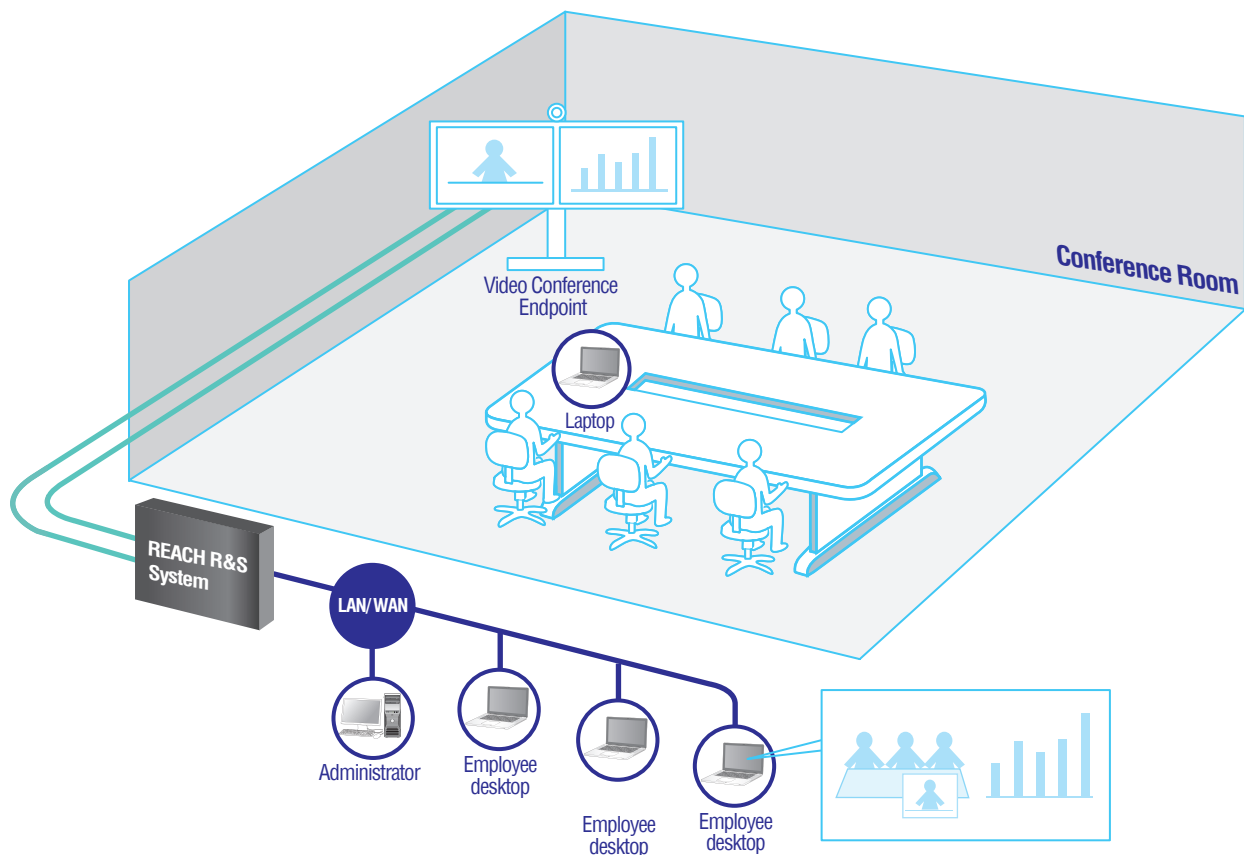
REACH recording and streaming solution for video conference makes everyone in your organization watch the video; it can synchronously perform integrated recording, live streaming and play on-demand which can be shared by more. In this way, all the speeches and presentations will be transferred to staff truthfully and timely. It greatly improve and expand the effect of video conference and make the video conference available to present on more people's desktop.

Benefits

- 1. Enhance and enrich the functions of traditional equipments of the video conference.*
- 2. Greatly increase the effect and value of the traditional facility.*

How it works

Don't need MCU resource, capture audio, video and presentation content from endpoint, REACH recording and streaming system expands the video conference to staff's desktop. Staff receive live streams or playback the conference via LAN or WAN



Key Features

1. Support SD and HD video conference system.
2. Compatible with various brand of video conference system.
3. Signals include local video, remote video and presentation content.
4. Works without any MCU resource.



Telepresence Recording

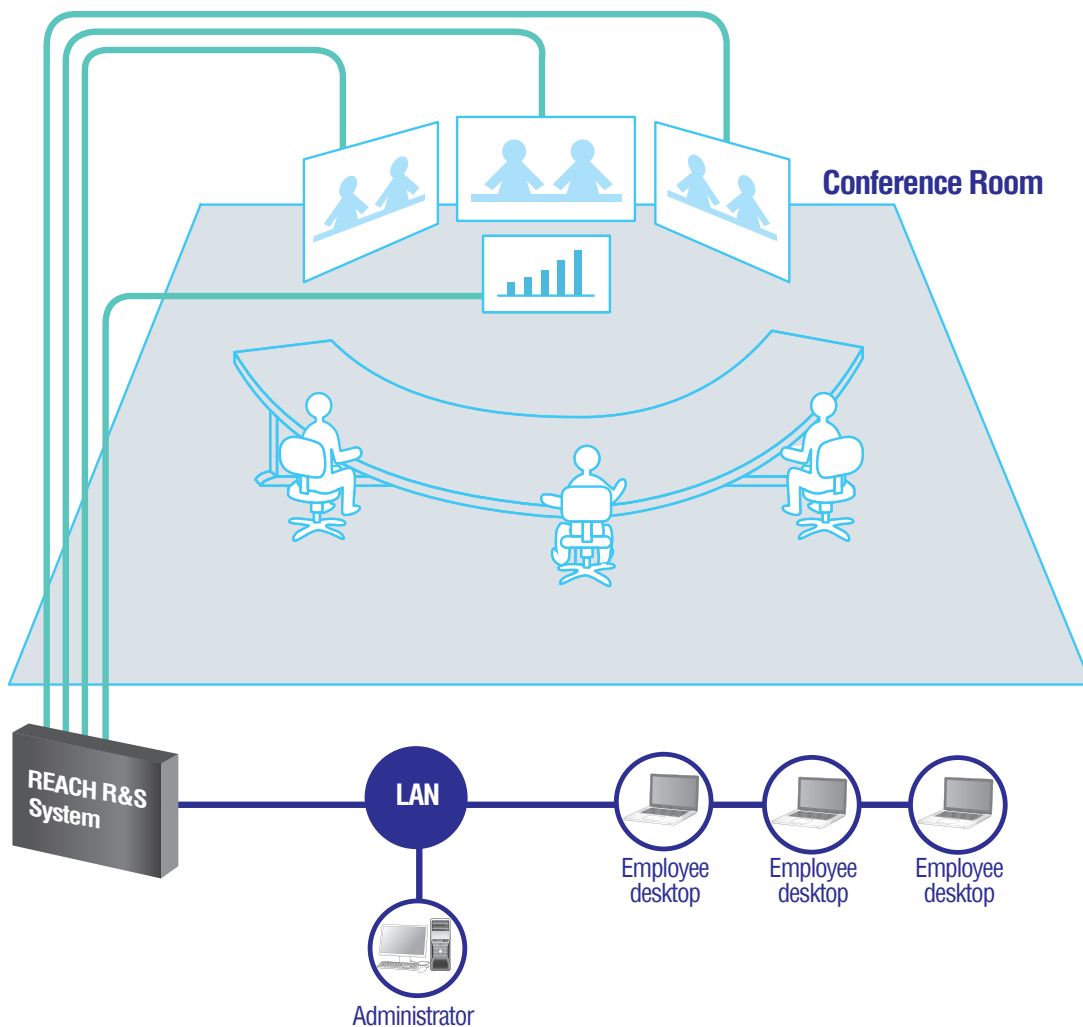
Telepresence system makes participants in different locations feel like in the same room with the life size pictures and high quality video while they are holding a conference. REACH recording and streaming solution for telepresence can save and replay the scene. Also these real-time media contents can be streamed to the desktop of all staff of your organization, then the ideas and decisions will be immediately delivered and shared by your employees.

Benefits

- 1. Make records of the conference in high quality.*
- 2. Being the crucial reference for manager's decision.*

How it works

REACH's solution for Telepresence captures HD signals from telepresence endpoint, and then delivers contents to desktop PC. Mean while, record all the details of the conference (HD videos, PowerPoint slides), and the system can playback to telepresence displays by screen to screen.



Key Features

1. All HD signal.
2. Playback on telepresence displays by screen to screen.



Video Wall Recording

Video wall system is widely used in various fields now, from commercial purpose to public security purpose. With REACH Recording & Streaming System, rich media content can be captured, recorded, managed and distributed, across an organization's existing IP network, and what is showed on video wall will be exactly the same as what it showed before.

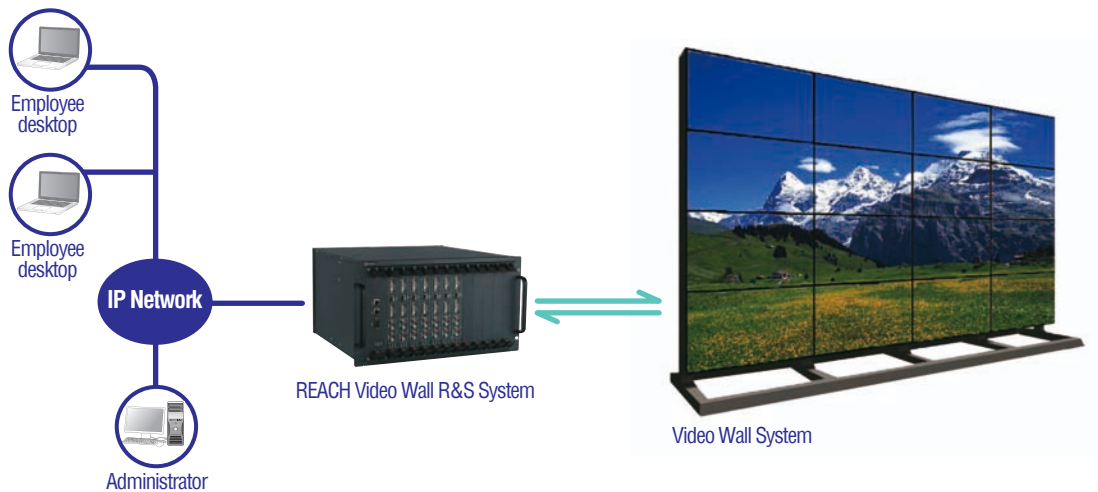
Eg. In the usage of command center of public security department, during a maneuver, with REACH Recording & Streaming System, it is available to review the process of the commanding and save the recording information for future use.

Benefits

- 1. Record the scene of military center and military exercise in high definition.*
- 2. Optimize the military exercise program.*
- 3. Improving the military's combat capability.*

How it works

REACH's recording and streaming solution for Video Wall captures signals from video wall processor. Live stream the content to desktop PC, mean while, record all the details showed on the video wall screens, and the system can playback to video wall screens later exactly the same as what are showed on the screens.



Key Features

1. Each screen up 1600*1400.
2. Playback on video wall screens.



Visual information recording and streaming

Representante oficial en España:

imaginArt

c/ Pujades 273-275 - 08005 (Barcelona)

Tel.: 93 292 07 70 - Fax: 93 217 76 51

imaginart@imaginart.es

www.imaginart.es