DAHUA

Video Conferencing Introduction2023

Display system
Audio system
Smart whiteboard
Video conference system
Conference discussion system
Smart conference control system

Server: The equipment that provides computing services for terminals is the equipment at the core of the network in the computer network.

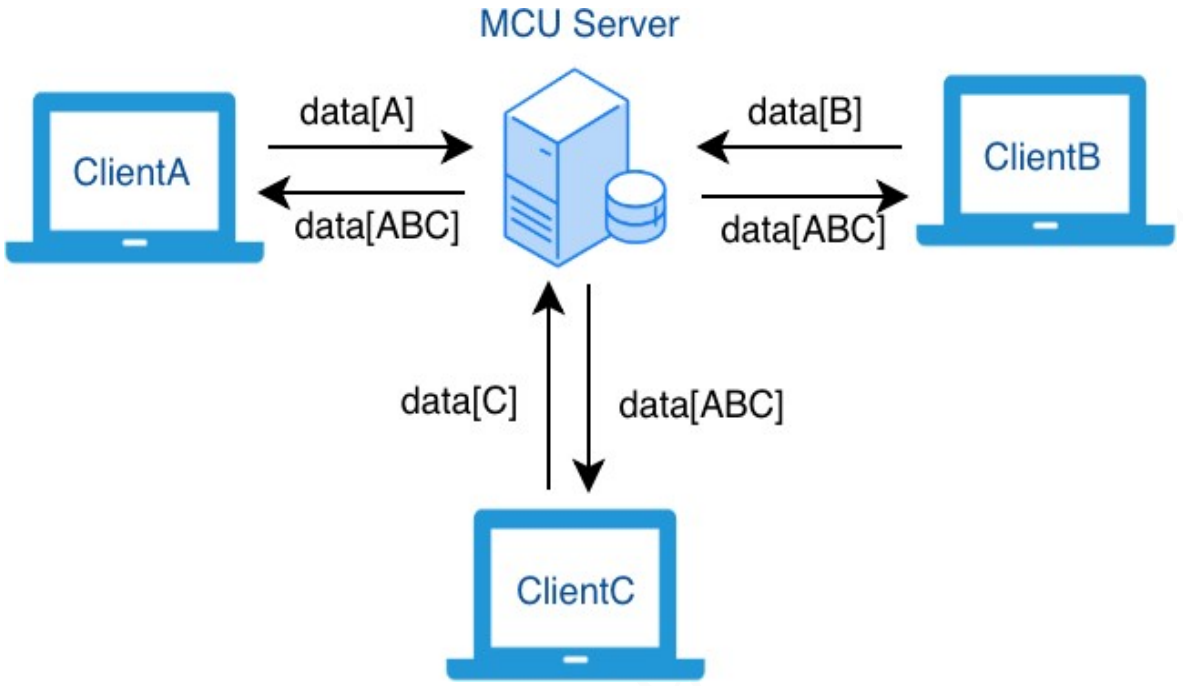
Network protocol: A set of rules, standards, or conventions established for data exchange in a computer network.

Terminal: The most peripheral device in the system network

Moscow

Saint Petersburg

MCU (MultiPoint Control Unit)



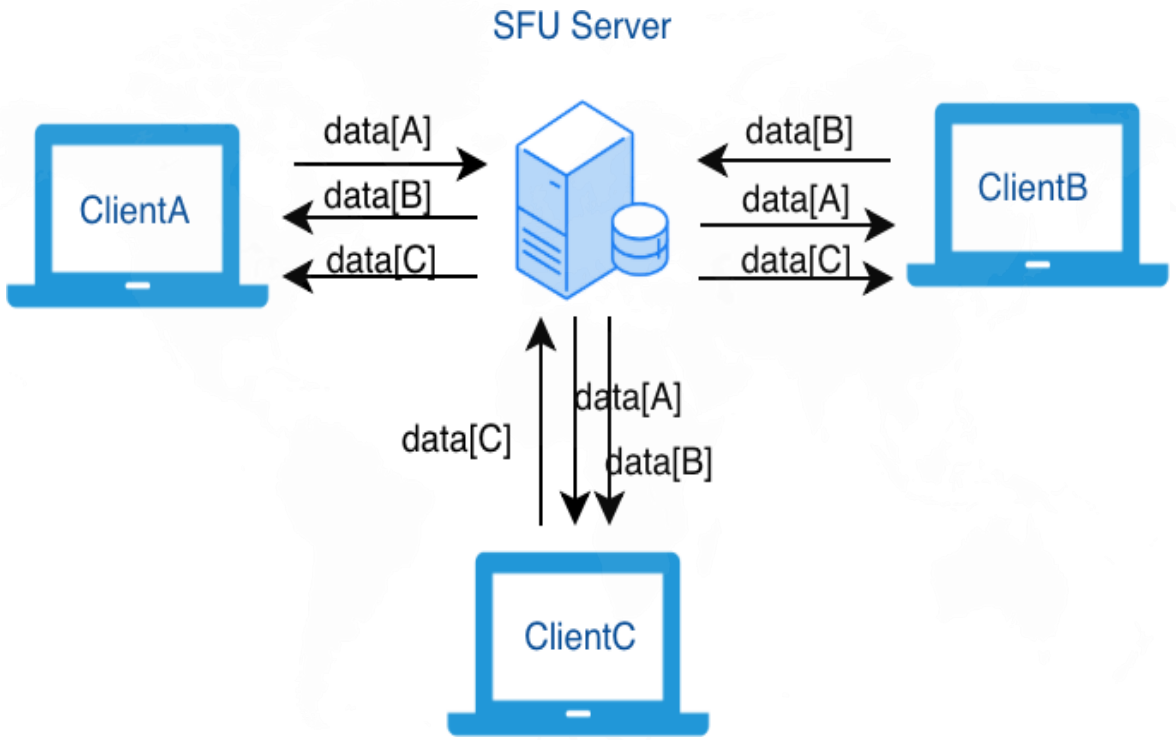
Endpoint to MCU: all to one
MCU to other endpoints: one to all
Coding and decoding works on MCU

√: 1. All participants see the audio and video at the same time

2. Various codec devices are compatible

×: The pressure on the MCU server is high, requiring high configuration

SFU(Selective Forwarding Unit)



Coding and decoding works on codec

√: 1. Reduced delay and improved real-time performance

2. The CPU resource consumption is reduced, and the concurrency is greater under the same server configuration conditions

3. The resolution is adaptive according to the network bandwidth on each site

×: Conference consistency and stability are affected by each terminal capability and network

Product family

Conference platform

MCU with plug-in server
DH-VCS-MCU95F0-4K

Business board
DH-VCS-MCU95F-4K

MCU
DH-VCS-MCU95B0

Cloud-based

public cloud, on premise

HD endpoint

Conference codec
DH-VCS-TS52A0

All-in-one endpoint
DH-VCS-TS51A0

All-in-one endpoint
DH-VCS-TS20A0

Software-elink

Conference camera

HDMI Conference camera
DH-VCS-C7A0

4K Dual-eye tracking camera
XC900

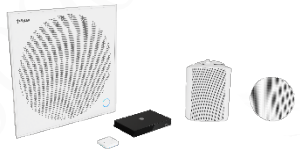
Coming soon

UHD Conference camera
XC800

Mic & speaker

Omnidirectional Microphone
DH-VCA-MCA400

Omnidirectional Microphone
DH-VCA-MCA450



Ceiling microphone system

USB camera

USB PTZ camera
DH-VCS-C5B0

USB Sound bar
DH-VCS-C5A0

Coming soon

2K Minibar
(Auto Framing)

All-in-one USB Camera
DH-VCS-C4B0

2K Webcam
(Auto Focus)
HTI-UC340

USB Webcam
HT-UC320

USB webcam
HT-UC325

1080P Webcam
HTI-UC300

Coming soon

3 Lens Sound bar

Features| convenient operation

Various type

- ✓ Schedules
- ✓ Start now
- ✓ Recurring
- ✓ Room paired

Speaker highlight

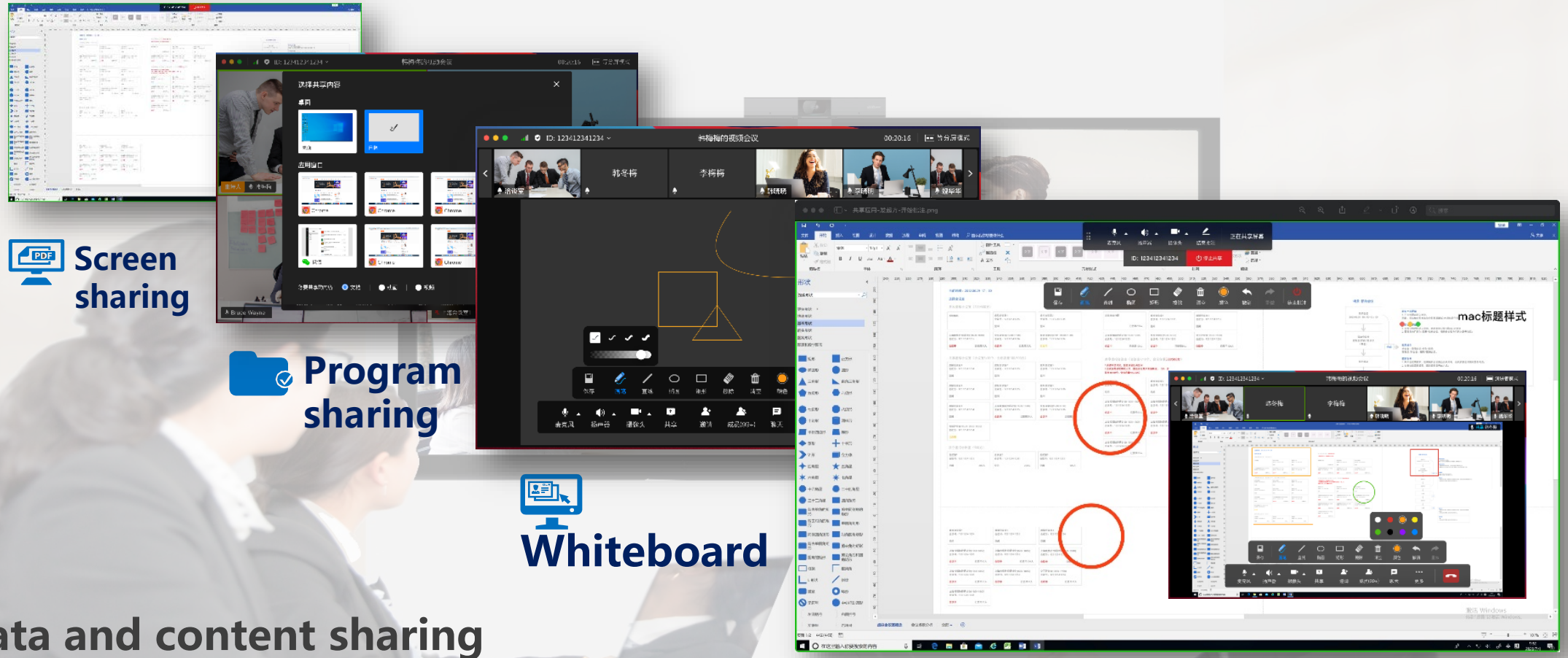
- ✓ Voice recognition
- ✓ Automatic switching

Conference management

- Conference sites control: **Professional**
- Operation: **convenient**

Up to 60 picture separate mode

Features| Smart collaboration



Screen sharing

Program sharing

Whiteboard

Data and content sharing

Understand each others

Audience collaboration

Smart Network adaptability, Build excellent meeting experience

Resolution self-adaption, ensure smooth conference experience

Features| Web center control

- Support accounts, address lists, organization management
- Support conference scheduling and establishing (members/time/materials/endpoints/security/recurrent meeting/conference template, etc.)
- Support in-conference management(endpoints control/layout switch/sharing/collaboration, etc.)
- Support third-party integration

Advanced settings like: Encrypted meetings

One-click start meeting

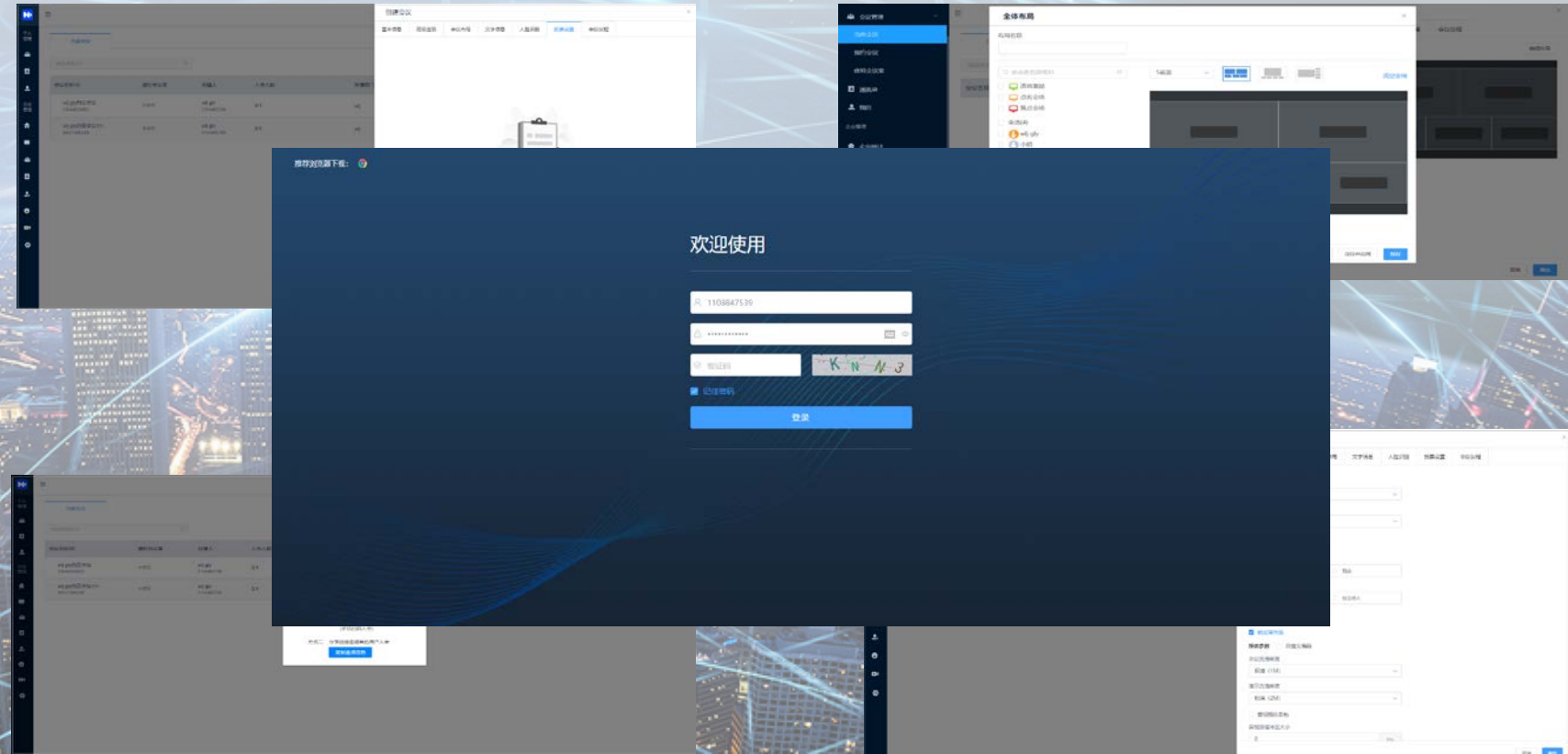
QR code invitation

Internal voting

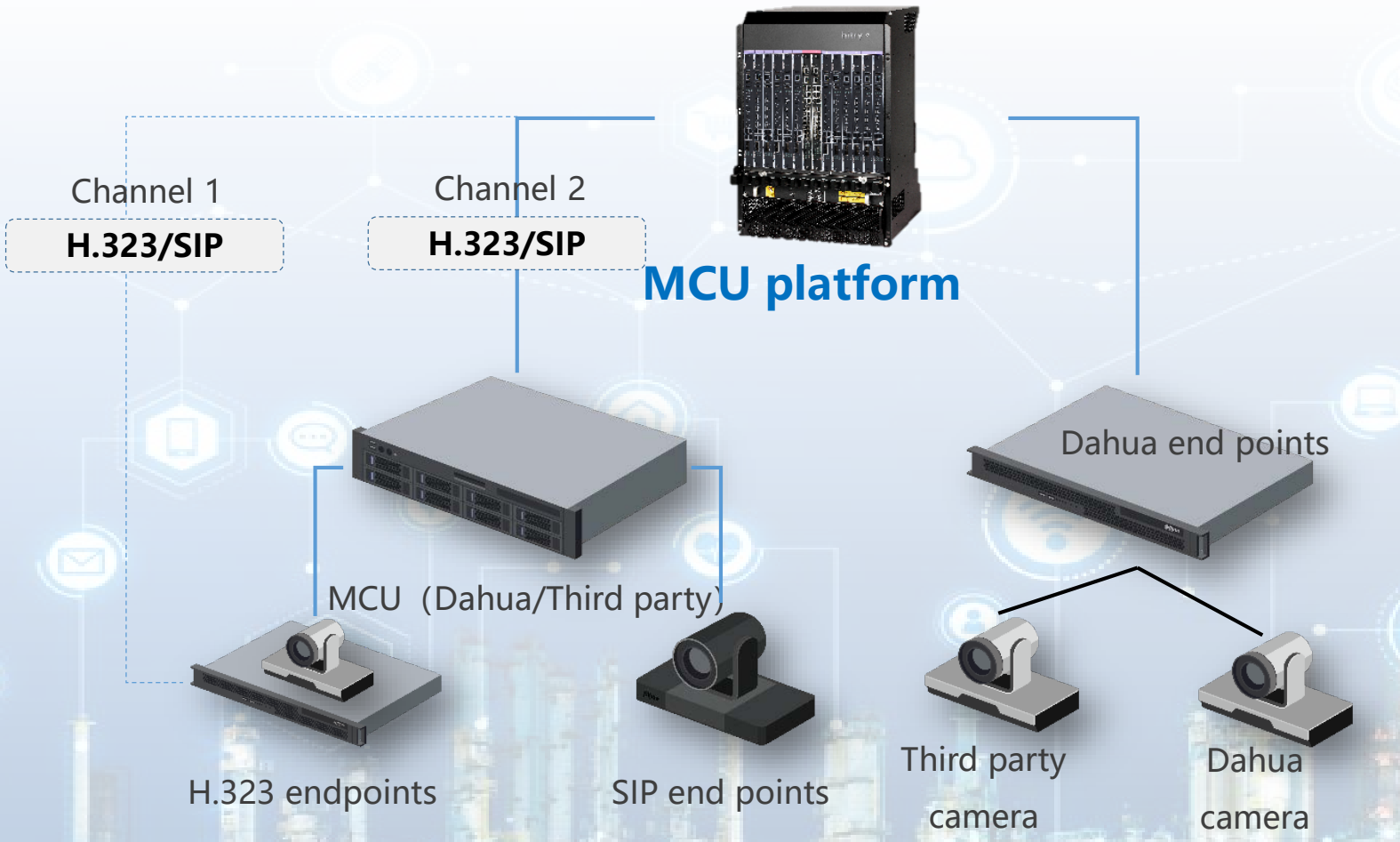
Human face resource library manage

Hybrid conference and live streaming

Local real-time recording and broadcasting

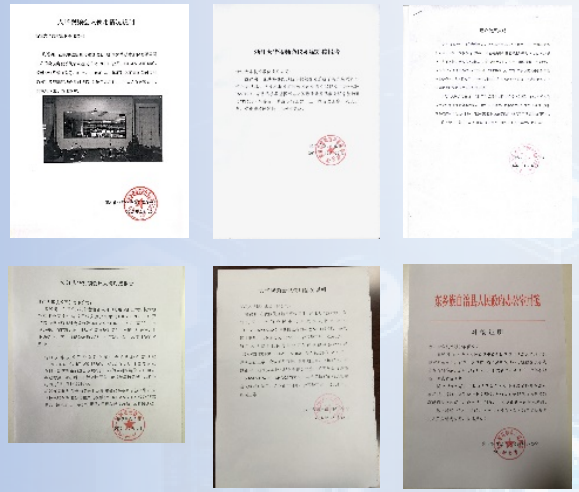


Features| Open and standard



HUAWEI poly Yealink 亿联 KEDACOM … …

Third-party device test report



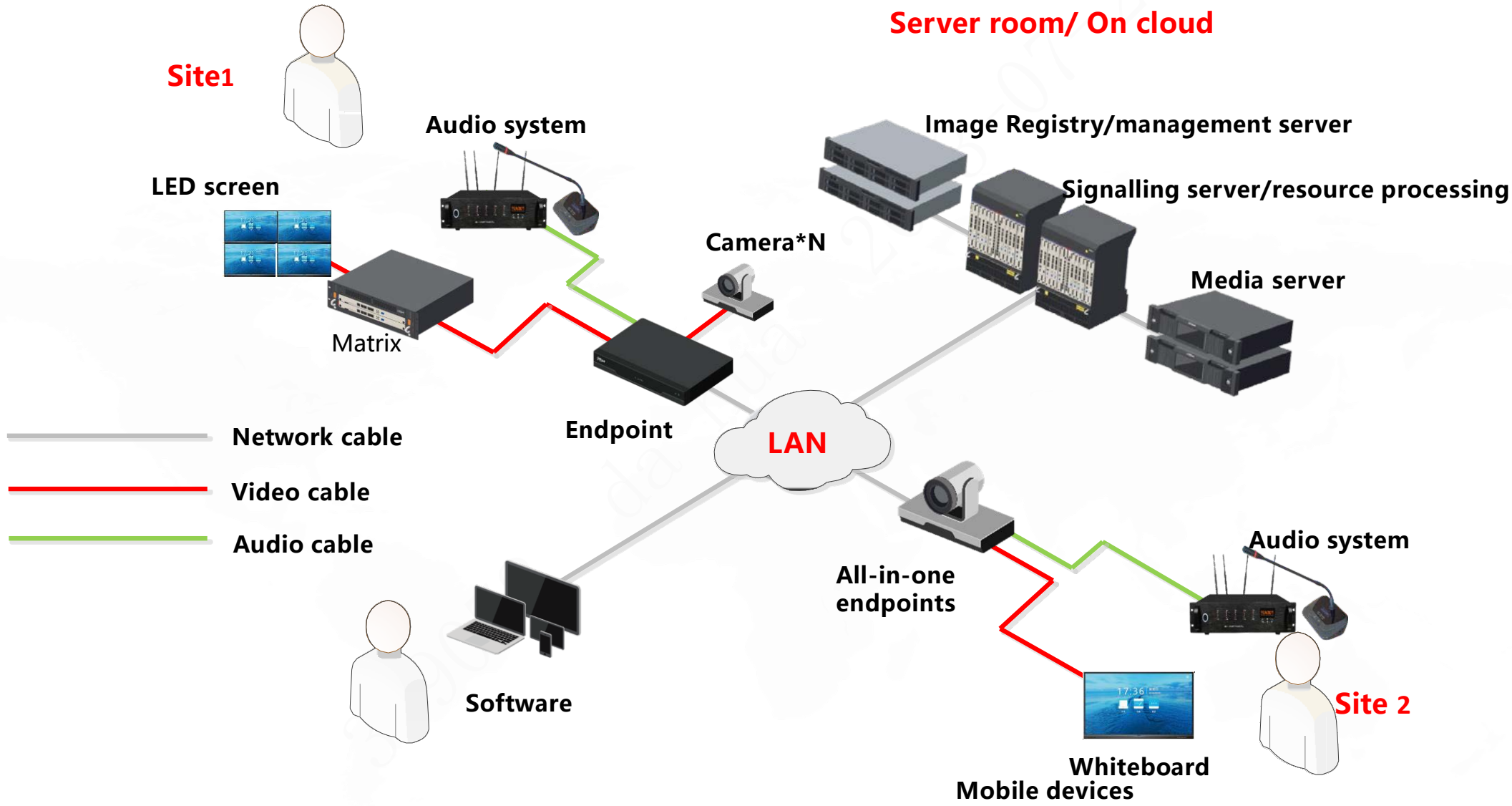
Standard protocol

- Standard SIP、H.323

Benefit to original system

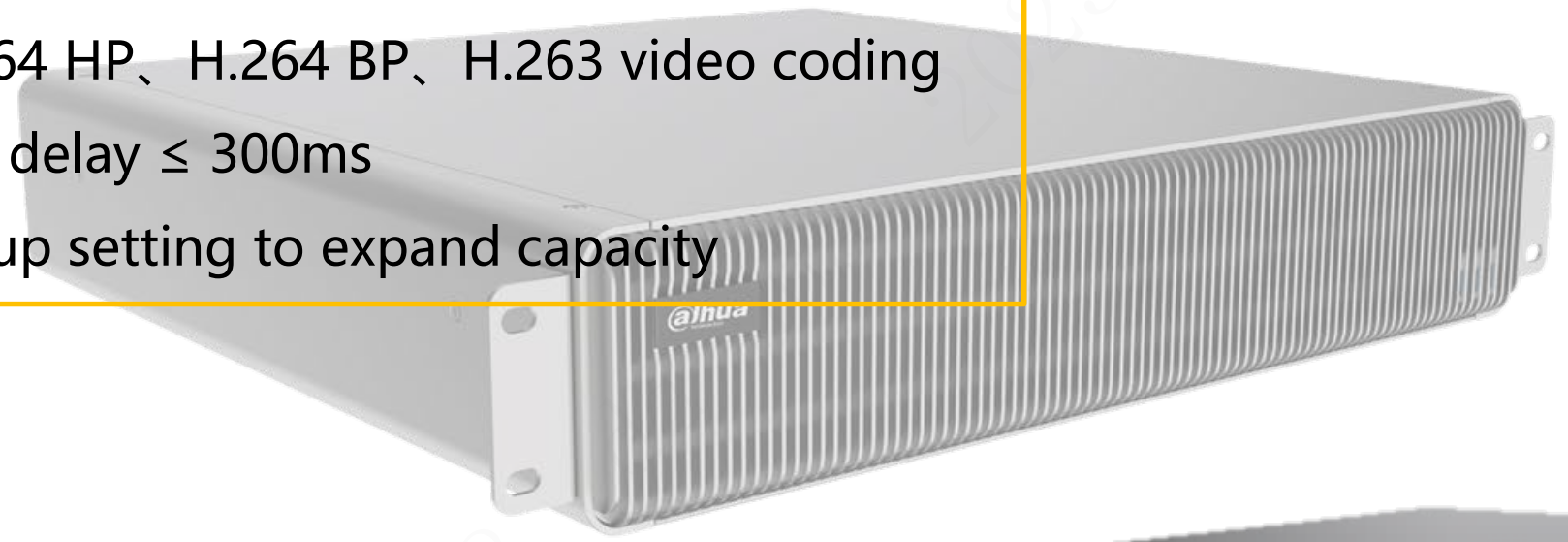
- Save cost for customer

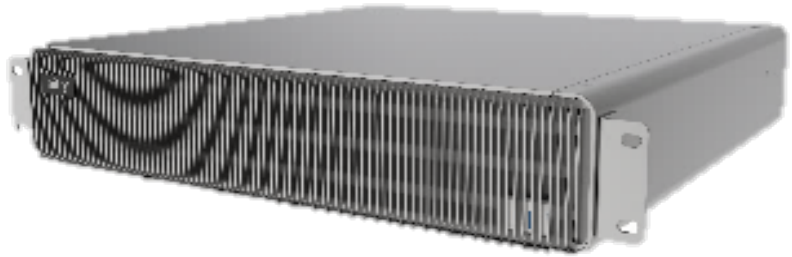
Topology| Typical system



DH-VCS-MCU95B0

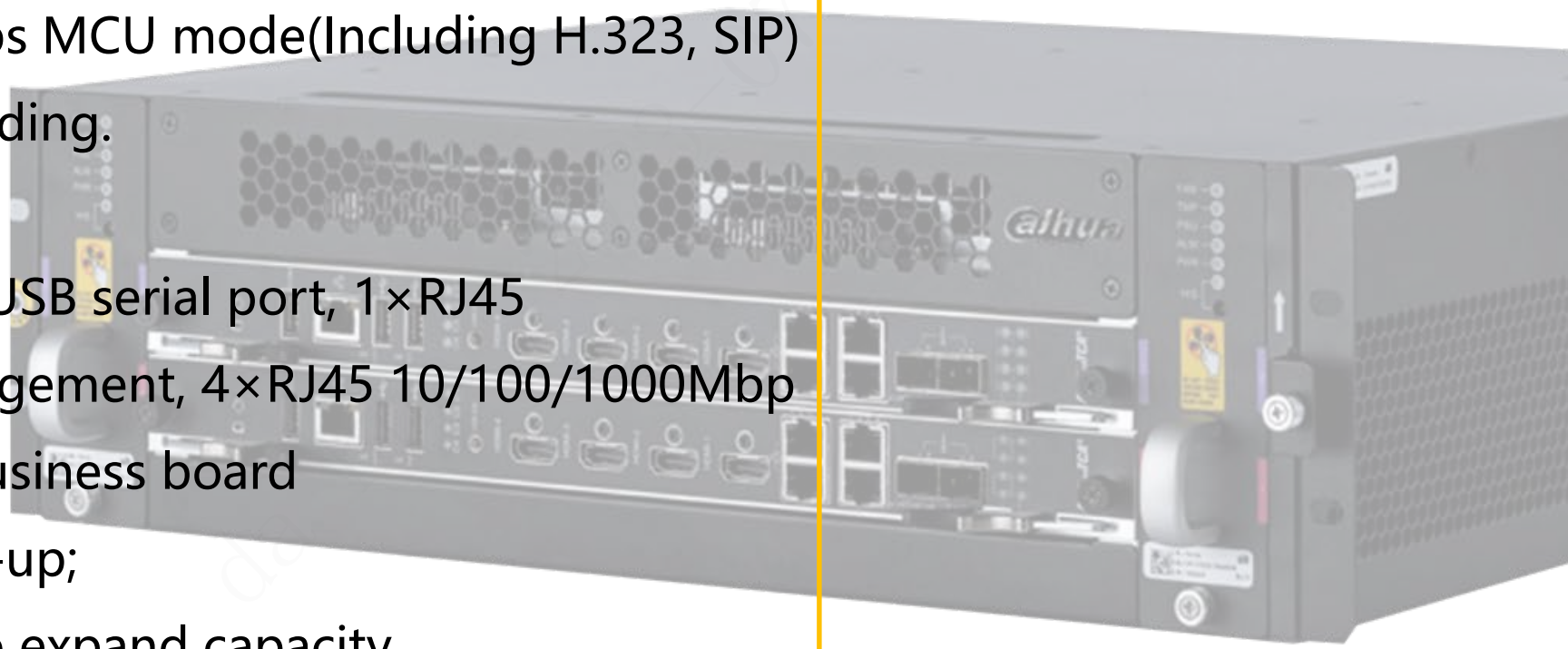
- 32 sites 1080P@30fps SFU mode
- 10 sites 1080P@30fps MCU mode(Including H.323, SIP)
- H.265、H.264 HP、H.264 BP、H.263 video coding
- End-to-end delay ≤ 300ms
- Support group setting to expand capacity





DH-VCS-MCU95F0-4K

- 120+120 sites 1080p@30fps SFU mode
- 48+48 sites 1080p@30fps MCU mode(Including H.323, SIP)
- Supports H.265 video coding.
- ITU-T H.323、IETF SIP
- 4×HDMI，2×USB3.0, 1×USB serial port, 1×RJ45 10/100/1000Mbps management, 4×RJ45 10/100/1000Mbp self-adaption port per Business board
- 1+1 Redundancy， Back-up;
- Support group setting to expand capacity
- CE certification



DH-VCS-C7A0+DH-VCS-TS52A0

· H.265 video compression/4K resolution/1080P@60fps dual stream.

· OPUS audio codec, 48KHz sample frequency.

· Supports USB connection. to omnidirectional mic.

· In the event of a 30% packet loss, the conference audio and video is unaffected.

· Multiple video and audio interfaces including HDMI, VGA, 3G-SDI, HDCVI.

· Supports infrared remote control/wireless mouse/keyboard, etc.

CONFERENCE CAMERA-Wider Eyes & Smarter Brain

XC800

HD PTZ camera

4K@30fps, 12x optical zoom

Pan:±120°, Tilt:-30°to 30°

- For ceiling install demand
- For AV conference solution
- For 12-15 people room

XC900

Tracking PTZ camera

4k@30fps ,16x optical zoom

Pan: -170° to 170°, Tilt:-30° to 30°

- For high quality distributor
- For high-end OEM
- For project bidding
- For 10-18 people room

VCS-C5B0

All-in-one USB camera

1080p/10x optical zoom

- For price sensitive
- For OEM
- For 8-12 people room

XC800-NDI

All-in-one USB camera

NDI –faster,smooth and more stable for long distance connection and transmission

DH-VCS-TS51A0

· Integrated design, built-in HD camera/codec, small and elegant.

· 1080P@60fps, 12x optical zoom, 73° horizontal field of view.

· H.265 video compression/4K resolution/dual stream/1080P auxiliary stream.

· OPUS audio codec, 48KHz sample frequency.

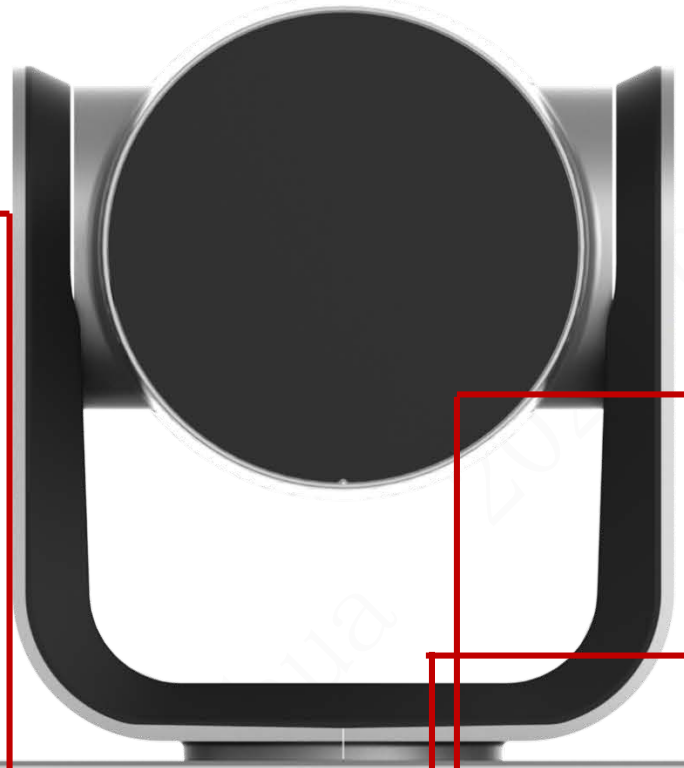
· Supports omnidirectional mic（USB）/infrared remote control/wireless mouse/keyboard, etc.

· Horizontal mount/wall mount/ceiling mount.

[Interface and connection]

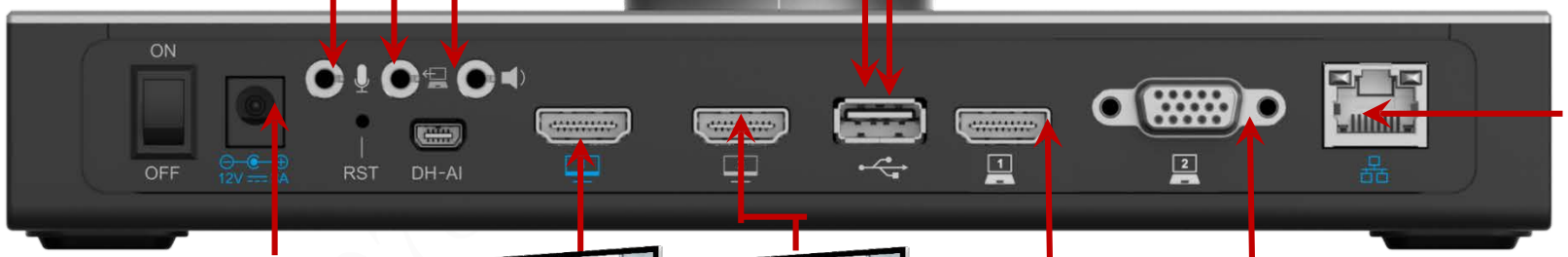
Loudspeaker

PC Audio line



Keyboard mouse

MCA 400 mic



Switch/router

DC 12V

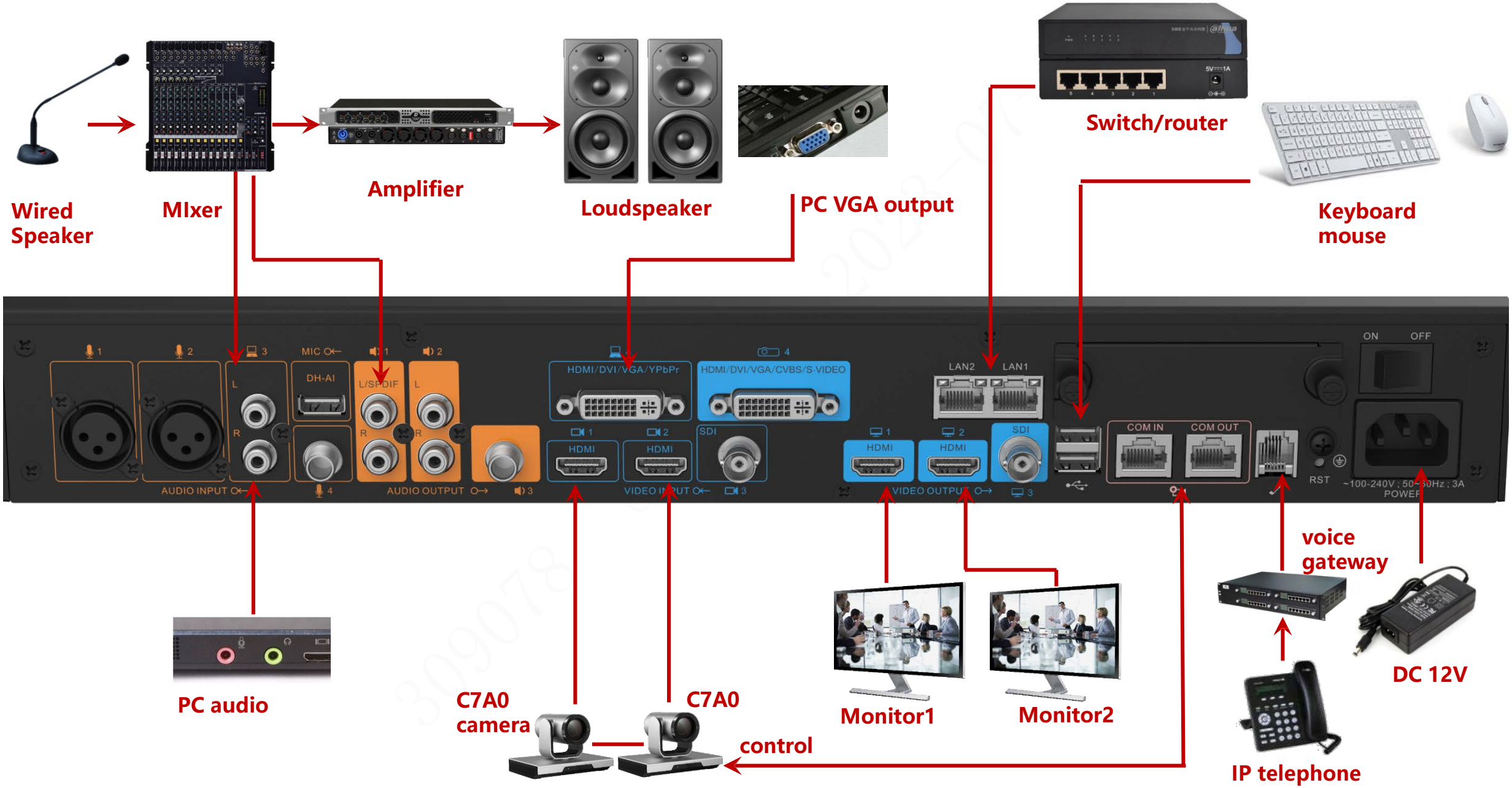
Monitor1

monitor2

PC HDMI input

PC VGA out put

[Interface and connection]



WEBCAM-Stronger & More Diverse

Capability upgrade
Cover all you want

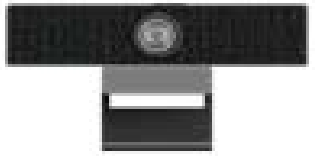
UC340

UC325

UC320

UC300

2K Mini Bar



Good video partner

- Auto framing +Auto Focus
- Camera+Speaker+Microphone，All-in-one solution

4K Webcam

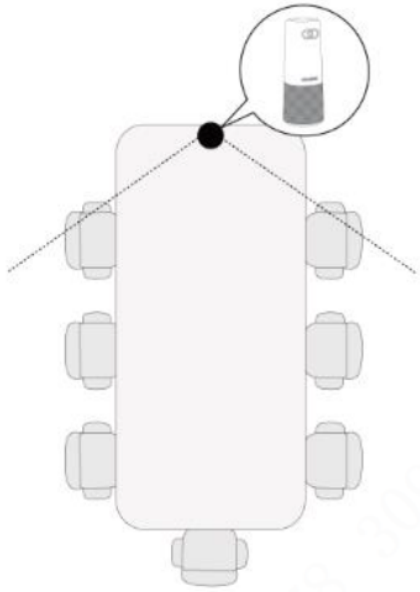
Create your real time meeting

- Smooth Privacy Cover+2 stands+ 4m Omnidirectional Mic= Close to reality
- 4K +8MP+120° view = Reproduce reality
- Auto framing + Auto WB= Better than reality

ALL-IN-ONE CAMERA-One Stop Solution

VCS-C4B0

- 1080P FHD image sensor
- 100° Ultra wide angle (horizontal)
- 99% AI noise reduction/AEC/ANS/AGC, strong double speak inhibition
- Built-in 4-element omnidirectional microphone array, 4 - 6m pickup distance
- High-quality wideband speaker
- Compatibility with mainstream software
- USB2.0 Type-C connection, Plug & Play
- Aesthetic design, fashionable and simple



ALL-IN-ONE CAMERA-One Stop Solution

hitrolink

High Compatibility
Zoom, Teams, Skype, etc.

USB Plug & Play

Multiple connection
USB type-C, HDMI, Bluetooth

Ultra Wide Angle
The 120° ultra wide FOV+15° PTZ

Speaker Tracking
Auto-Framing

UHD Resolution
The 8MP CMOS sensor

AI Noise Reduction
8W Speaker

Built-in 4 BF Microphone
6 Meters Pick-up Distance

MIC & SPEAKER

VCS-MCA450

Enjoy your time with friends and music

- For brand OEM
- For IT personal market

--fashion appearance

- For price sensitive customer
- For discussion and chat
- --excellent microphone and audio

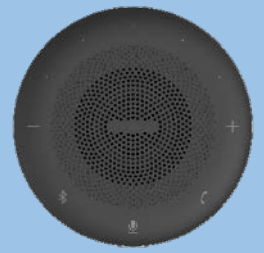
VCS-MCA400

Create your value in collaboration and meeting

- For IT conference market
- For quality sensitive customer

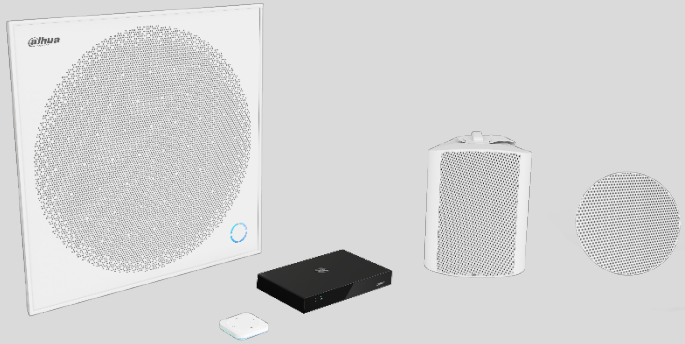
--Business style appearance

Support cascade expansion distance

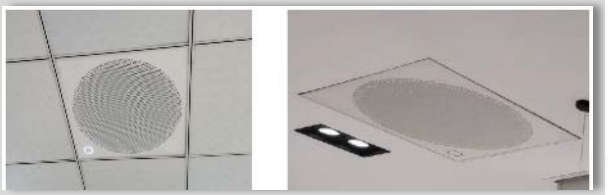


MIC & SPEAKER

Ceiling microphone DH-HAM400D
DSP DH-HAA400-EN
Wall-mounted speakerDH-HAS400W-20W
Ceiling speakerDH-HAS400C-20W
Controller DH-HAA400C



Embedded installation



Ceiling installation

Product Features	Product Value
• 91-Element Microphone Array • 12 Deep Side lobe Beamforming • 8m effective Pickup Range • Daisy-Chain Up To 8 Devices • AI Noise-Suppression • True Full Duplex • Digital Signal Processing (DSP)	• Solve the problem of unstable signal on wireless microphone, when the scene is larger and the environment is more complex • Hub with audio processor and amplifier, be able to adapt to existing sound reinforcement system • High gross profit per product • Better value-added space for installation services

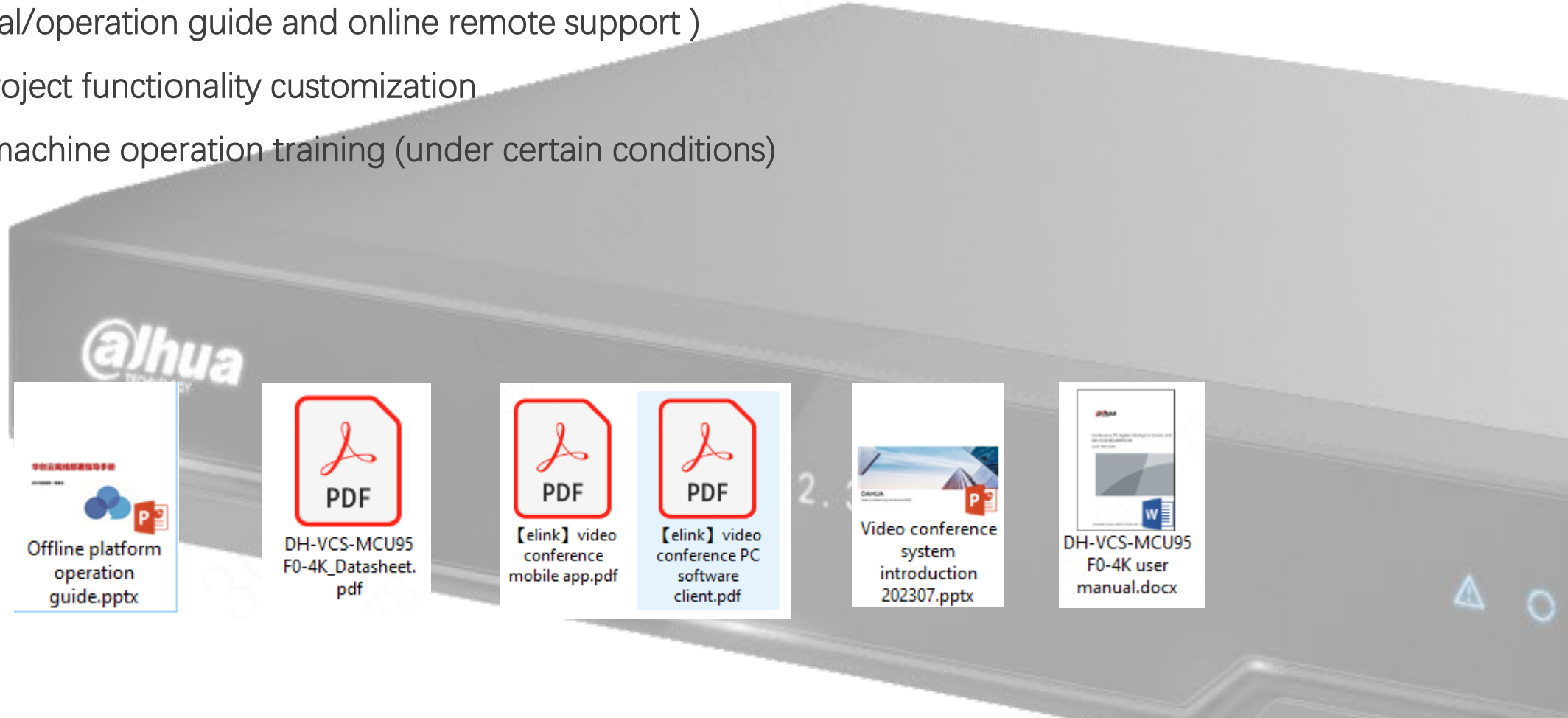
What we should know about projects

Please confirm with us about the BOQ and solution before send it to customer!

1. Customer background like: their project experience, their business relationship, the core decision maker, etc.
2. The project background like: budget, actual requirement(not only devices), project type
3. The competitors
4. Project feasibility information, Bandwidth, point location, concurrency, functional items, networking, etc

Our support

1. Project proposal, solution topology
2. Pre-sales consulting and testing
3. MCU deployment and endpoints maintain support (user manual/operation guide and online remote support)
4. Big project functionality customization
5. Real machine operation training (under certain conditions)



Industry

Government **Business** **Education** **Healthcare**

… …

Government

Remote communication

Emergency command

Remote court trial

Remote visitation in prison

Business

Remote Collaboration

Daily conference

Online interview

Online training

Enterprise emergency meeting

Education

Remote learning

Live stream class

Online seminar

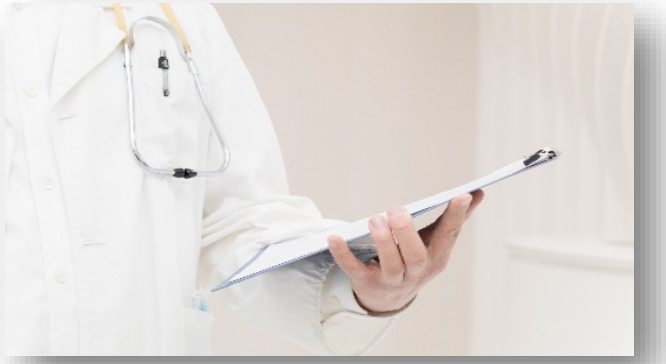
Parents remote visit and communication

Healthcare

Remote consultation

Surgical training

Emergency command



Remote ward rounds