

# AVer Video Conferencing Network Setup Guide

Note: Please pass this page to your Network Admin/IT Dept.

Please refer to the users manual to set up Admin Password/System Name and Phonebook

## Bandwidth Requirements

From the remote press "Home" -> "Setting" -> "System Settings" -> "Network"

Resolution	Quality / Bandwidth	MCU w/ 3 site*
4SIF (704x480) / 4CIF (704x576)	256kbps/384kbps	768kbps/1152kbps
720p @ 30 frames per second (1280x720)	1Mbps	n/a


(Example: If you plan to reserve 512k and not exceed 1Mbps for video conferencing then leave above settings as default. For a specific entry in the phonebook with which you wish to implement HD, you can set call quality to 1Mbps in the phonebook or while dialing.)

## H.323 Related Port Usage for Firewall Setup

Port	Function	Type
1719	Gatekeeper	UDP (Bi-Directional)
1720	H.323 Call setup	TCP (Bi-Directional)
30000-30039	Signaling and control for audio, call, video, and data/FECC	TCP and UDP
80	HTTP Interface (Web Tool)	
5060	SIP port	TCP and UDP

## Four Possible Setup Scenarios for Video Conferencing

### Scenario 1: Public IP Configuration (Outside of Firewall)

1. From the remote press "Home" -> "Setting" -> "System Settings" -> "LAN Configuration".
2. In the "Obtain IP address" line, choose "Static IP".
3. Manually input the "Public IP address", "Subnet Mask" and "Default Gateway".
4. Select "Apply" and press .
5. Press "Home" on the remote to return to the home menu.
6. Press the "Call" button on the remote and you are ready to make your first call.

## Dialing Methods

### IP Address Dialing

1. Press the "Call" button on the remote to open the call options
2. Input the IP address of the location you are planning to call
3. Choose the call quality you want to connect with
4. Press the Call button on the screen to initiate the video conference call

## Setting up and Dialing from Phone Book

### Setting up Phone Book

1. Press the "Call" button on the remote to open the call options
2. Input the IP address of the location you are planning to call
  - a. Choose a group to associate the site with
  - b. Give the site a name
  - c. Input the IP address
  - d. Select a call Quality setting
  - e. Save your entry

### Dialing from Phone Book

1. Press the Phone Book option from the remote or on screen option
2. High light the entry you wish to call do
3. Press the "return" button on the remote to initial the call

## Dialing while registered to a Gatekeeper/Border Controller

### Extension (alias) dialing

1. Register to GK/BC
2. Press the "Call" button on the remote to open the dialing pad
3. Input the extension of the Video conferencing system you want to connect with
4. Choose the call quality you want to connect with
5. Press the Call button on the remote to initiate the video conference call



### IP Address dialing

1. Register to GK/BC
2. Press the "Call" button on the remote to open the dialing pad
3. Input the IP address "." and extension (ie: ip address..extension) of room you want to connect with
4. Choose the call quality you want to connect with
5. Press the Call button on the remote to initiate the video conference call

### Calling to a MCU/Bridge

1. Press the "Call" button on the remote to open the call options
2. Input the IP address of the MCU, "." and extension of the room number (example: 192.168.1.12..5678)
3. Choose the call quality you want to connect with
4. Press the Call button on the screen to initiate the video conference call

## Scenarios 2 & 3: Private IP Configuration (Behind Firewall with Port Forwarding)

1. From the remote press "Home" -> "Setting" -> "System Settings" -> "LAN Configuration".
2. In the "Obtain IP address" line, choose "Static IP".
3. Manually input the assigned "Private IP address", "Subnet Mask" and "Default Gateway".
4. Select "Apply" and press .
5. Press "Back" on the remote to return to previous menu.
6. Go to "Network" -> "Firewall" and press .
7. Place a check in the NAT box and enter the Public IP in the "NAT Public (WAN) Address" field.
8. Enable H.323 ALG in your Network firewall (if applicable)
9. Press the "Home" button on the remote to return to the home menu.
10. Press the "Call" button on the remote and you are ready to make your first call

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## Scenarios 4: H.460 Gatekeeper with Firewall Traversal

1. From the remote press "Home" -> "Setting" -> "System Settings" -> "LAN Configuration".
2. In the "Obtain IP address" line, choose "Static IP".
3. Manually input the assigned "IP address", "Subnet Mask" and "Default Gateway".
4. Select "Apply" and press 
5. Press "Back" on the remote to return to previous menu.
6. Go to "Network" -> "Gatekeeper" and press 
7. Assign an extension to the unit
8. Enter the IP address of your Gatekeeper in the "Gatekeeper IP address" field and place a check in the "Use Gatekeeper" box
9. Press "Back" on the remote to return to previous menu.
10. Go to "Firewall" and press ; place a check in the "Enable H.460 firewall traversal" option
11. Place a check in the NAT box and enter the Public IP in the "NAT Public (WAN) Address" field (optional)
12. Press the "Home" button on the remote to return
13. Press the "Call" button on the remote and you are ready to make your first call

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## Web Tool/System Security

The Web Tool allows network administrators to access AVer HVC remotely. To access the AVer HVC Web Tool, Make sure the AVer HVC unit has a valid IP and is connected to your network. From any network computer, open a web browser and input the IP address of your AVer HVC unit\* in the URL field.

**Cam. Control** – allows you to view the camera, and access the screen interface and remote control.

**Phonebook** – allows you to add, edit, delete, download and upload the phonebook entries.

**Call History** – allows you to add contact in the phonebook, download call history and call from the list.

**Setting** – allows you to update the system, download and restore the system, and get the test report.

**Contact Us** – links you to our global website.



\* Default IP address: 192.168.0.1