



KZ-VC6000

ONLINE MULTIMEDIA INTERACTIVE RECORDING SYSTEM

USER MANUAL



Firmware Version: 50.10.12.96/0000/0

KONZE SYSTEM TECHNOLOGY CO., LTD.

4F., No.134, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)

Tel : +886-2-89121234 Fax: +886-2-89121099

Table of Contents

| | |
|---------------------------------------|-----------|
| INTRODUCTION | 4 |
| Features | 4 |
| Package Contents | 7 |
| INSTALLATION | 8 |
| Getting Familiar with KZ-VC6000 | 8 |
| Main System | 8 |
| MIC | 11 |
| Remote Controller | 11 |
| Extension Cables | 14 |
| Hotkeys | 18 |
| Connections | 19 |
| Positioning the MIC | 21 |
| OPERATION | 22 |
| Before You Begin | 22 |
| Home Screen | 22 |
| Configuration Icons | 22 |
| WAN Address | 23 |
| Real-Time Clock | 23 |
| System Info | 23 |
| Dial | 24 |
| Hang up the call | 26 |
| Video Layout | 26 |
| Phonebook | 27 |
| Group | 27 |
| New Site (Contact in Phonebook) | 33 |
| Contacts List | 35 |
| Favorite | 36 |
| Call History | 37 |
| General Setting | 39 |
| Call Settings | 39 |
| System Settings | 42 |
| Administrator | 43 |
| Monitor | 47 |
| Date and Time | 48 |
| Reset System | 51 |
| License | 52 |
| Default Layout | 53 |
| Video/Audio | 54 |
| Camera | 54 |
| Microphone | 56 |
| Video/Audio Codecs | 58 |
| Network | 59 |
| LAN Configuration | 59 |
| IPv6 | 62 |
| Firewall | 64 |
| SIP | 65 |
| SIP Configuration | 68 |
| Gatekeeper | 73 |
| RTMP | 75 |

| | |
|---|-----------|
| Test Utilities | 76 |
| WEB CONFIGURATIONS | 77 |
| Using Online Web Control | 77 |
| Virtual Remote Controller | 79 |
| Managing Phonebook..... | 81 |
| Edit and Save | 81 |
| Download Phonebook Entries..... | 82 |
| Upload Phonebook Entries | 82 |
| System Update..... | 83 |
| Update System | 83 |
| TROUBLESHOOTING | 84 |
| Audio..... | 84 |
| Video/Display | 84 |
| Network..... | 84 |
| Others | 86 |
| SCENARIOS FOR LAN CONNECTION..... | 87 |
| Public IP Configuration | 87 |
| Private IP Configuration..... | 88 |
| H.460 Gatekeeper with Firewall Traversal | 90 |
| REMOTE CONTROL BATTERY SAFETY INFORMATION..... | 91 |
| LIMITED WARRANTY | 92 |
| Limitations of Warranty..... | 92 |
| Disclaimer of Warranty | 92 |
| Limitation of Liability | 93 |
| Governing Law and Your Rights..... | 93 |
| FEDERAL COMMUNICATIONS COMMISSION STATEMENT (CLASS A)..... | 94 |
| Class A ITE | 94 |
| CE Class A (EMC)..... | 94 |
| COPYRIGHT | 95 |
| Trademarks | 95 |
| Disclaimer | 95 |

Introduction

Thank you for choosing KZ-VC6000 which offers professional multimedia online interactive teaching / learning experience in new cost performance benchmark.

KZ-VC6000 gives you the latest technologies; slim form factor, flexible integration options and backward compatibility to most Virtual Classroom install bases. It makes any virtual interactive teaching / learning, business meetings and special events much more reliable, effective, and secure.

Features

| Item | Specifications / Functionalities |
|--------------------------------|---|
| Main Host | 6-point MCU Recording Host (8 points maximum) |
| Microphone | ACCU flat sound pickup X1 (can be connected up to 4 ACCU flat sound pickup Microphone) |
| Network Protocol | Supports H.323 protocol, SIP standards, SIP TLS, manual bandwidth setting connection bandwidth: 64Kbps ~ 4Mbps RJ45 port (10/100/1000 Mbps) |
| Security | AES encryption ; set up password to do system settings and distanced management |
| User Interface | Single/Dual display supported; menus; location display in conference 22 languages supported |
| Video Compression | Support H.264BP, H.264 HP, H.263+, H.263, H.261 Synchronous Video sharing |
| Video Resolution | FHD1080p (1920 x 1080), HD720p (1280 x 720), SD480p (848 x 480), 4CIF (704 x 576), CIF (352 x 288), SIF (352 x 240) All resolutions are in 30fps |
| Sync. Video Resolution | HD1080p (1920 x 1080), WSXGA+ (1680 x 1050), SXGA (1280 x 1024), WXGA (1280 x 768), HD720p (1280 x 720), XGA (1024 x 768), SVGA (800 x 600), D1 (720 x 480), VGA (640 x 480) Output: HD1080p (1920 x 1080), 30fps maximum |
| Live Streaming Protocol | 2 outputs maximum (People and Content) in RTMP RTMP video compression standard: H.264 HP/BP Video compression rate can be up to 8Mbps (i.e.: 720p:1Mbps, 1080i/p:6Mbps, 1024x768:1Mbps, D1:800Kbps) Audio Compression Standards: AAC-LC, Bit rate 64Kbps ~ 256Kbps(mono) ; 28Kbps ~ 512Kbps(stereo) Audio sampling frequency: 48KHz Rate controlling: CBR/VBR; |
| Layout Switching | Single, Dual, PNP, Multi-Display switching |
| Support | H.239/BFCP (real-time sharing of local and distanced content) |

| | |
|------------------------------------|--|
| Video Inputs | HDMI x1 DVI-Dx1/VGA x1 (for second source) |
| Video Outputs | HDMI x 2 VGAX1 |
| Audio Spec. Characteristics | Echo suppression, Noise Elimination, AGC |
| Audio Compression Spec. | G.711, G.722, G.722.1, G.728, G.722.1C |
| Audio Inputs | KONZE ACCU Flat sound pickup microphone DVI-D(HDMI) 3.5mm Line IN |
| Audio Outputs | HDMI, 3.5mm Line OUT |
| Serial control interface | RS232x2 Serial PTZ control protocol supports PELCO-D, PELCO-P, VISCA |
| Other Supported Standards | H.224, H.225, H.245, H.281, H.323 Annex Q, H.460, SRTP |
| Video Interactive Add-ons | Embedded local recording of video interactivities Off-Line Recording supported Adopt multi-streams recording User can select different layouts while in playback and select one video file output in certain layout (*.mp4 or *.mov format) |
| Add-Ons | Speed Dial |
| | Update by USB drive or Ethernet |
| | Screen Saver, Automatic Shutdown, and Power Automatic Start settings |
| | USB2.0 x2 in Front Panel (can be connected with mouse or USB drive) |
| | Network Time Correction (NTP) |

| | |
|---------------------------------|--|
| | <p>Online Software (Authorized Version for Mac and Windows System with desktop sharing function) On-Line APP (for iOS, Free) OnLine APK (for Android, Free) OnlineShare APP/APK (for iOS and Android, Free): a Virtual Remote Control to the main host, practice real-time video share and photo sharing to distanced attendants.</p> <p>All the above software/APP/APK can support online video interactive learning or conference with the main host.</p> <p>OnlinePlayer (for Windows) can play recorded video clips with PCs or laptops and convert video clips to MOV or MP4 format.</p> <p>Online Web Control (webpage interface control tool) can practice distanced monitoring, control the main hos and cameras, software update, real-time problem solving, and contact export.</p> <p>Live broadcasting to MyCloud Platform</p> <p>SnapShot</p> <p>Group Calling</p> |
| Accessories | IR Remote Control, Power Adopter, Connection Cable |
| Power Supply | AC 100V ~ 240V , 50/60HZ |
| Dimensions (L X W X H) | 1U Case, 435 x 262.7 x 44.5 mm |
| | Microphone: 131.9 x 118.6 x 25.5 mm |
| Weight | 3.35 kg |
| Warranty and Maintenance | Online Interactive Host, Flat Microphone, and other accessories 1 year Warranty |

Package Contents

The following items are included in the package. Please check if each item is available before using.



1. Main System
2. Back Panel Label
3. Microphone
4. Remote Control
5. Power Adapter
6. Power Cord
7. Mini Din 8 pin MIC Cable (5m)
8. AAA Batteries
9. KZ-EX3: Serial port transfer cable
10. KZ-EX2: Ethernet port transfer cable
11. KZ-D18: IR Receiver Cable

☞ The power cord will vary depending on the standard power outlet of the country where it is sold.

Installation

Getting Familiar with KZ-VC6000

The package of KZ-VC6000 includes Main System, MIC, and Remote Controller.

Main System

Front Panel:



| Name | Function |
|--------------------|--|
| (1) LED Indicator | Show you the status of your LAN connection. <ul style="list-style-type: none">■ Solid Green: LAN connection is successfully■ Flash Green: Data transmission is processing through the LAN connection. |
| (2) POWER Button | Press this button to turn on/off main system. Red: power off; Blue: power on |
| (3) & (4) USB Port | Use to connect the USB storage for system log saving and FW upgrade. |

Back Panel:

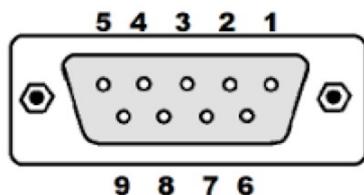


| Name | Function |
|-------------------|--|
| (1) RS232-CONTROL | For system control. (Please refer to P. 10 for detailed descriptions.) |
| (2) RS232-CAMEAR | Using KZ-EX2 and KZ-EX3 to connect to the camera for Camera Control (Please refer to P.10 and P.14 for detailed descriptions.) |
| (3) LAN Port | Use the RJ-45 Ethernet cable to connect an IP-based network to the LAN port. |
| (4) HDMI IN-1 | To connect a camera |
| (5) MIC IN | Receive audio signal from MIC device via a mini din 8 pin MIC cable. |
| (6) DVI-D IN-2 | Using the DVI to HDMI connector to transfer the DVI to HDMI interface and through the HDMI cable connects to the PC or NB. |
| (7) VGA IN-2 | Connect the VGA cable to the VGA input port located on the back panel, and connect the other end of VGA cable to a VGA input source (ex. Document camera, Laptop or Desktop) to input video signal. |
| (8) AUDIO IN | Receive audio signal from an external audio source through the audio cable. |
| (9) AUDIO OUT | Use to connect the main system to external speakers or amplifiers for audio signal output. |
| (10) HDMI OUT-1 | Connect an HDMI cable from the HDMI monitor to HDMI OUT-1. The HDMI interface allows you to transmit both audio and video signals over a single cable (HDMI cable). In dual display mode, the output screen connected to this port will be set up to primary screen automatically. |
| (11) HDMI OUT-2 | Connect the HDMI cable to the HDMI OUT-2 to connect the other end of HDMI cable to a display device to output both video and audio signal. In dual display mode, the output screen connected to this port will be set up to secondary screen automatically. |
| (12) VGA OUT-1 | Connect the VGA cable to the VGA output port located on the back panel, and connect the other end of VGA cable to a display device to output video signal. In dual display mode, the output screen connected to this port will be set up to primary screen automatically. |
| (13) RESET Button | Press it to reboot the main system unit. |
| (14) POWER | Connect the power supply cord and adapter to the power port located on the back panel. And connect the other end of the power cord to a suitable power outlet. |

RS232 Control Ports Description

1. RS232 Control

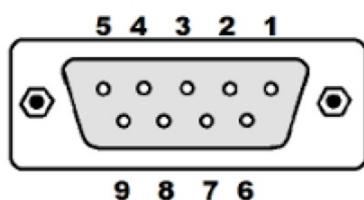
DB9 Female



| No. | Name |
|-----|------|
| 1 | |
| 2 | RX |
| 3 | TX |
| 4 | |
| 5 | GND |
| 6 | |
| 7 | |
| 8 | |
| 9 | |

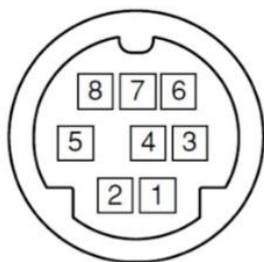
2. RS232 Camera

DB9 Female



| No. | Name |
|-----|-----------|
| 1 | |
| 2 | RX |
| 3 | TX |
| 4 | IR V+ |
| 5 | GND |
| 6 | |
| 7 | RTS |
| 8 | CTS |
| 9 | IR signal |

3. Mic IN



| No. | I/O Type | Description | Signal Level |
|-----|----------|-------------------|--------------|
| 1 | I | MIC1 | 1 VPP |
| 2 | I | MIC2 | 1 VPP |
| 3 | I | MIC3 | 1 VPP |
| 4 | G | GND | |
| 5 | I | Cascade Detection | 3.3V max. |
| 6 | P | D7.8V | |
| 7 | O | LED Indication | 3.3V max. |
| 8 | G | GND | |

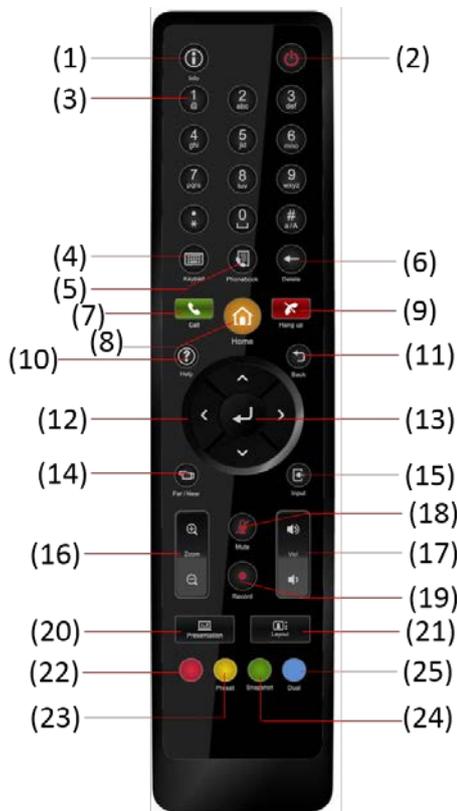
MIC



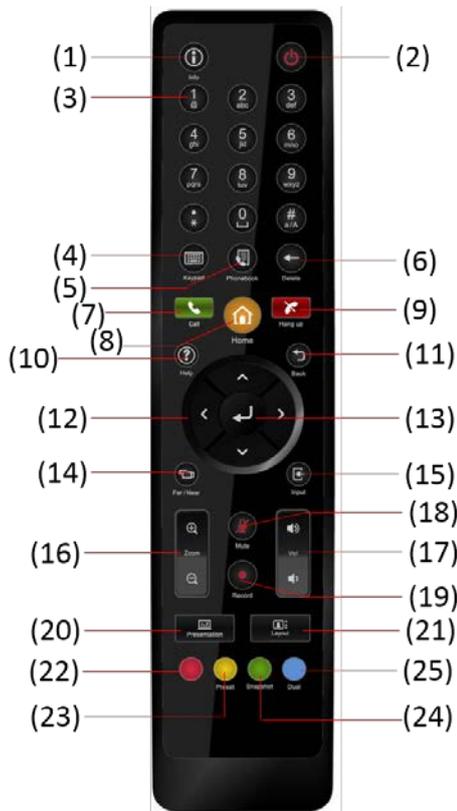
| Name | Function | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|------------|-------------------|--------------|--------------|---|---|------|-------|---|---|------|-------|---|---|------|-------|---|---|-----|--|---|---|-------------------|-----------|---|---|-------|--|---|---|----------------|------|---|---|-----|--|
| (1) Mute | Mute/Unmute the Mic. Blue: Unmute; Red: Mute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (2) MIC OUT Port | Outputs audio signal from the MIC to main system. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>PIN Number</th> <th>I/O Type</th> <th>Description</th> <th>Signal Level</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>O</td> <td>MIC1</td> <td>1 VPP</td> </tr> <tr> <td>2</td> <td>O</td> <td>MIC2</td> <td>1 VPP</td> </tr> <tr> <td>3</td> <td>O</td> <td>MIC3</td> <td>1 VPP</td> </tr> <tr> <td>4</td> <td>G</td> <td>GND</td> <td></td> </tr> <tr> <td>5</td> <td>O</td> <td>Cascade Detection</td> <td>3.3V max.</td> </tr> <tr> <td>6</td> <td>P</td> <td>D7.8V</td> <td></td> </tr> <tr> <td>7</td> <td>I</td> <td>LED Indication</td> <td>3.3V</td> </tr> <tr> <td>8</td> <td>G</td> <td>GND</td> <td></td> </tr> </tbody> </table> | PIN Number | I/O Type | Description | Signal Level | 1 | O | MIC1 | 1 VPP | 2 | O | MIC2 | 1 VPP | 3 | O | MIC3 | 1 VPP | 4 | G | GND | | 5 | O | Cascade Detection | 3.3V max. | 6 | P | D7.8V | | 7 | I | LED Indication | 3.3V | 8 | G | GND | |
| | PIN Number | I/O Type | Description | Signal Level | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | O | MIC1 | 1 VPP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | O | MIC2 | 1 VPP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | O | MIC3 | 1 VPP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | G | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | O | Cascade Detection | 3.3V max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | P | D7.8V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | I | LED Indication | 3.3V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | G | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (3) MIC IN Port | Receive audio signal from the second MIC and pass it through the MIC OUT to the main system. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Remote Controller

The remote controller requires two “**AAA**” batteries (included). Make sure the batteries are installed properly before using the remote controller.



| Buttons | Functions |
|--|---|
| (1) Info | Press this button to display the call statistics information. |
| (2) Power | Press this button to power on/off the main system. |
| (3) Numeric Pad | Use to enter alphanumeric. Press  button and hold can switch between numeric mode and alphanumeric mode. |
| (4) Keypad | In enter mode, press this button to display the on-screen keyboard. |
| (5) Phonebook | Search contacts to make a call. Add, edit, delete or create group contact entries. |
| (6) Delete | Press this button to back delete one character at a time. |
| (7) Call | Start a call. |
| (8) Home | Bring up the main screen. |
| (9) Hang up | End the call. |
| (10) Help | In Home menu and video screen mode, press it to display on-screen help information. |
| (11) Back | Return to previous OSD menu. <ul style="list-style-type: none"> a. Use these buttons to navigate through the selections in OSD menus or on-screen keyboard. b. Pan and tilt the camera to adjust the viewing. c. Pan, tilt the zoomed in camera image or captured image. |
| (12) Navigation Buttons ( ,  ,  , ) | <ul style="list-style-type: none"> a. Make a selection in OSD menus. b. Accept incoming calls. c. Display the site name and icon during the meeting. d. Auto Focus function(PTZ camera only) |
| (13) Enter | Select to control either near site or far site camera. The cam ctrl icon will appear on the screen to indicate which site's camera you are controlling. The cam ctrl icon will disappear after press the Far/Near key 5 sec. |
| (14) Far/Near | |



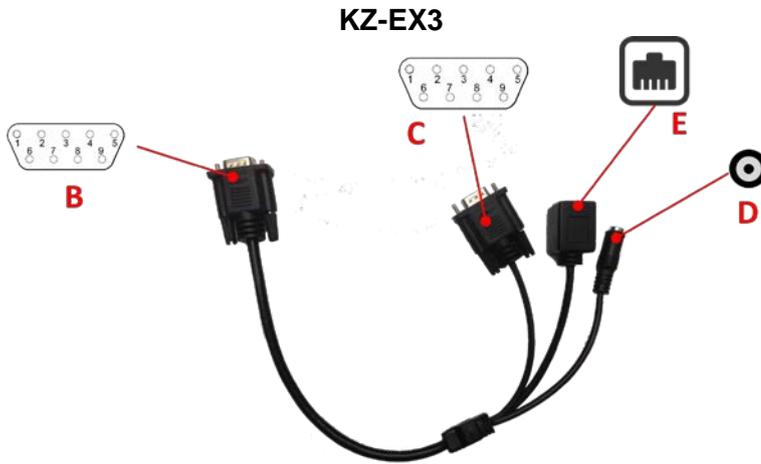
| Buttons | Functions |
|-------------------|--|
| (15) Input | Switch screen display between camera screen and input source screen. |
| (16) Zoom +/- | Increase/decrease the camera zoom or the captured image magnifications. |
| (17) Vol +/- | Increase/decrease the speaker volume. |
| (18) Mute | Mute/Unmute the MIC. The mute icon will appear when the MIC is muted. The mute icon will become translucent after enabling 5 sec. |
| (19) Record | Start/Stop video recording. The video recording can only be saved to a USB flash drive when in / out of a conference. |
| (20) Presentation | Share the content that comes from either the VGA input source or the DVI input source. The present icon will appear on the screen when the presentation function is enabled. The icon will disappear after 5 sec. |
| (21) Layout | Change the screen layout. |
| (22) ● button | Support for virtual Interactive Whiteboard., to display the IWB screen for real-time interactive teaching in dual display mode. |
| (23) Preset | <ol style="list-style-type: none"> Press and hold for 3 sec. to set the position of the camera to a preset from 0~99. Press to move the camera to a selected preset point number. |
| (24) Snapshot | Capture the camera. (Storage to USB flash drive ONLY) |
| (25) Dual | <ol style="list-style-type: none"> Switch to dual display mode. This splits the video and the other screen (either from VGA or DVI source) onto two separate monitors (two monitors must be connected to use the feature, one through HDMI and one through VGA in-2 / DVI-D IN-2). Press and hold can switch to OSD menu between primary and secondary screen. |

Extension Cables

KZ-EX3 and KZ-EX2 are for both main camera VISCA control and the connection to the 3rd-party control system. KZ-D18 is the IR remote receiver.

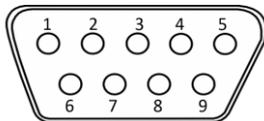
Descriptions:

1. KZ-EX3 – Serial Port Transfer Cable



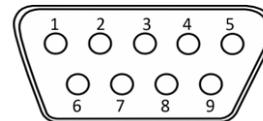
- B. **DB9 Male:** to connect the RS232 port on the main system
- C. **DB9 Male:** to connect other control system
- D. **3.5 mm Female Jack:** to connect KZ-D18, the IR Receiver Cable, to control main system and the camera
- E. **RJ45 Female Jacket:** to connect a RJ45 cable for control extension

B. DB9 Male



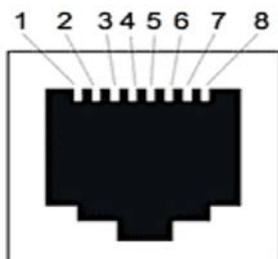
| PIN | Function | PIN | Function |
|-----|----------|-----|-----------|
| 1 | | 5 | GND |
| 2 | RXD | 6 | |
| 3 | TXD | 7 | RTS |
| 4 | IR V+ | 8 | CTS |
| | | 9 | IR Signal |

C. DB9 Male



| PIN | Function |
|-----|----------|
| 3 | GND |
| 5 | TXD |

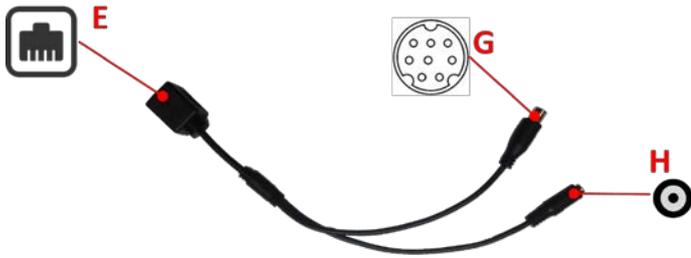
D. RJ45 Female Jack



| PIN | Function | PIN | Function |
|-----|-----------|-----|----------|
| 1 | IR V+ | 5 | RXD |
| 2 | IR Signal | 6 | GND |
| 3 | TXD | 7 | 485+ |
| 4 | GND | 8 | 485- |

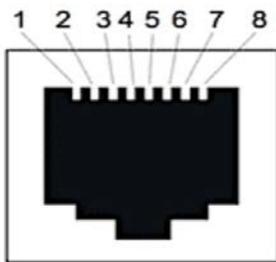
2. KZ-EX2 – Ethernet Port Transfer Cable

KZ-EX2

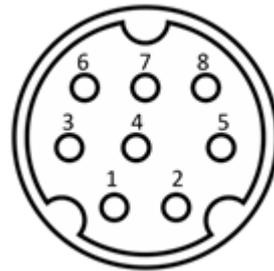


- E. **RJ45 Female Jacket:** to connect to a RJ45 cable for control extension.
- G. **8-Pin Mini DIN Male Plug:** to connect to the camera for control purpose.
- H. **3.5 mm Female Jack:** to connect KZ-D18, the IR Receiver Cable, to control main system and the camera

F. RJ45 Female Jack



G. 8-Pin Mini DIN Male Plug (VISCA Male)



| PI | Functi | P | Functi |
|----|--------|---|--------|
| 1 | IR V+ | 5 | RX |
| 2 | IR | 6 | GN |
| 3 | TXD | 7 | 48 |
| 4 | GND | 8 | 48 |

| PI | Functi | PI | Functi |
|----|--------|----|--------|
| 1 | | 5 | R |
| 2 | | 6 | |
| 3 | T | 7 | |
| 4 | G | 8 | |

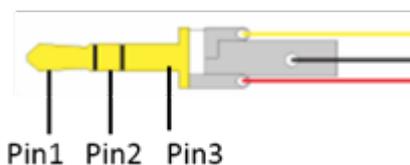
3. KZ-D18 – IR Receiver Cable

KZ-D18



- I. **IR Bud:** to receive IR signals to control main system and the camera
- F. **3.5mm Male Jack Plug:** to connect to KZ-EX3 or KZ-EX2 for system control signals transmission.

F. 3.5 mm Male Jack Plug

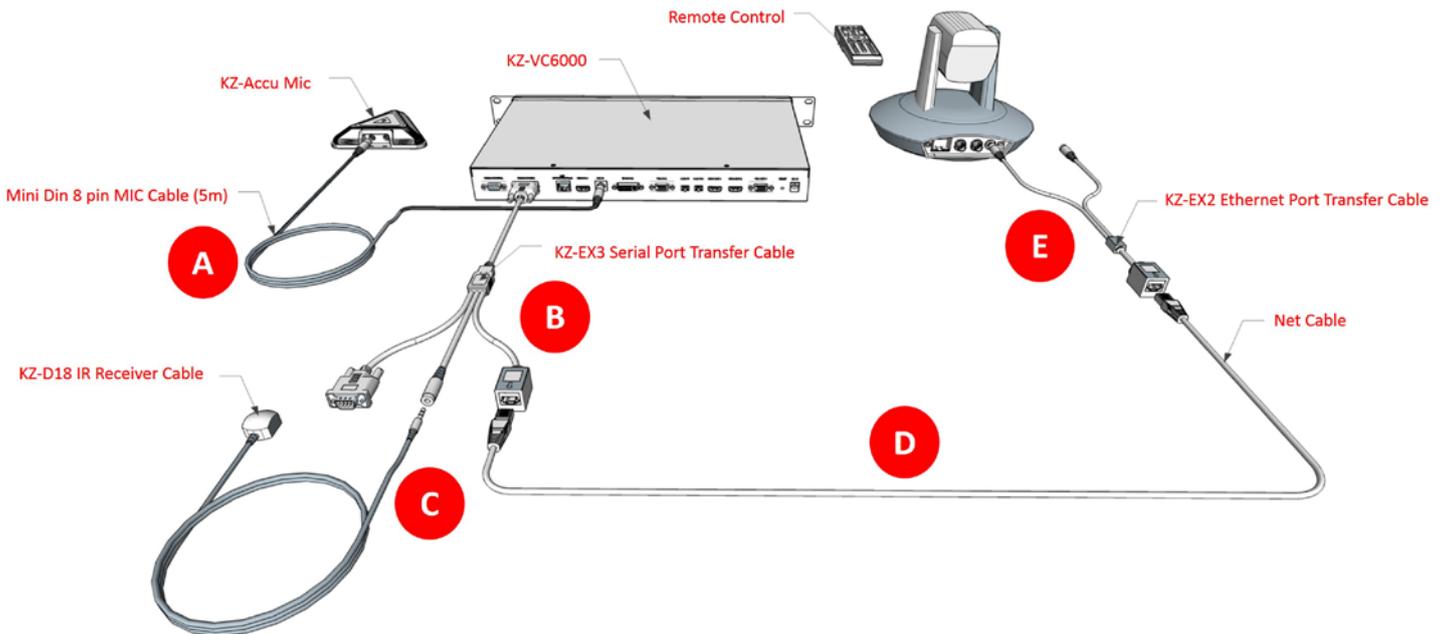


| PIN | Function |
|-----|-----------|
| 1 | IR V+ |
| 2 | IR Signal |
| 3 | GND |

Connections

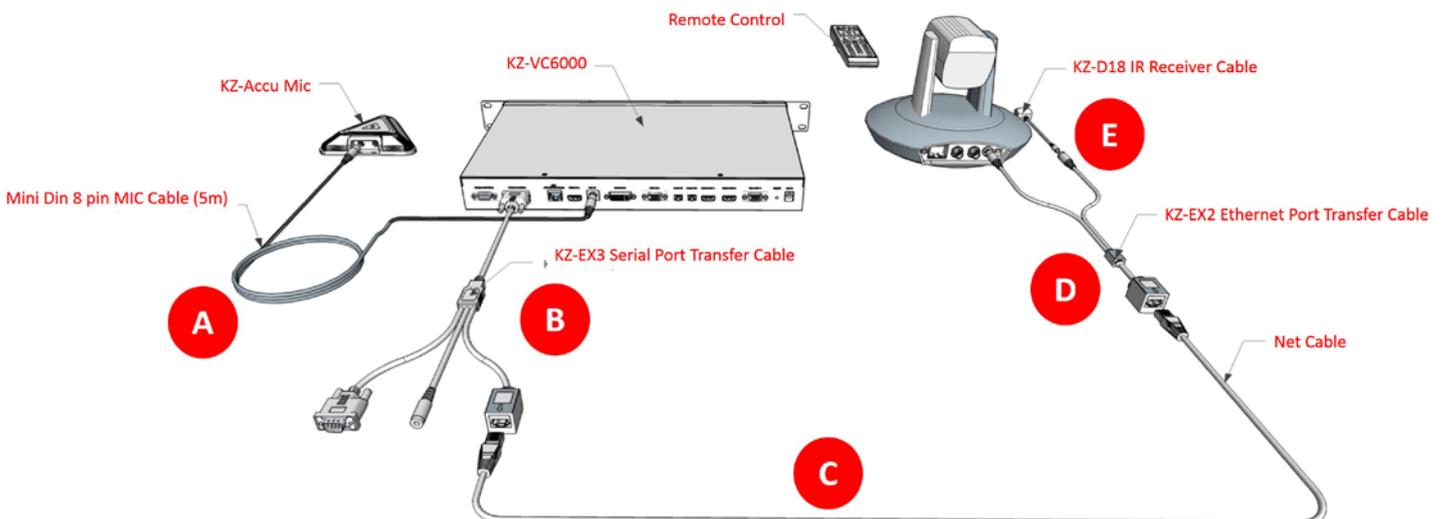
There are two types of connections, one is standard connection and the other is extended connection.

1. The IR receiver (KZ-D18) is near by the Main System



- A. connect microphone to the main system
- B. connect KZ-EX3 to the main system
- C. Connect KZ-D18 to KZ-EX3 by 3.5mm male jack
- D. Connect KZ-EX3 to KZ-EX2 by a Net Cable
- E. Connect KZ-EX2 to the Camera by 8-Pin Mini DIN Male Plug

2. The IR receiver (KZ-D18) is near by the Camera

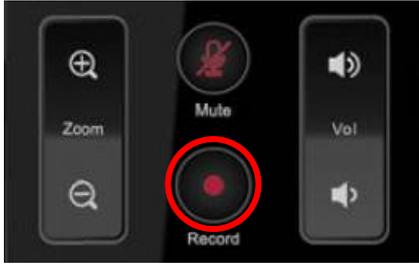


- A. connect microphone to the main system
- B. connect KZ-EX3 to the main system
- C. Connect KZ-EX3 to KZ-EX2 by a Net Cable
- D. Connect KZ-D18 to KZ-EX2 by 3.5mm male jack
- E. Connect KZ-EX2 to the Camera by 8-Pin Mini DIN Male Plug

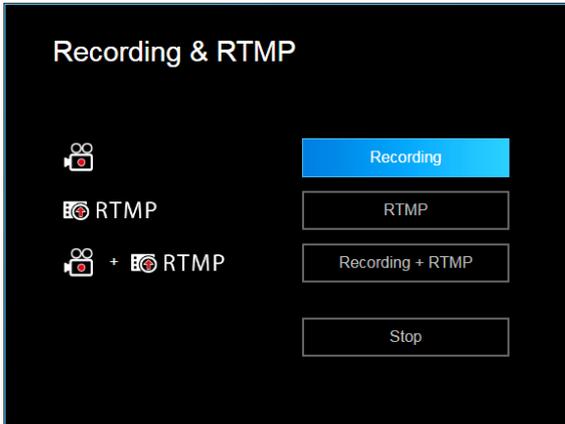
Hotkeys

Record Button

Both on remote control and virtual remote control in Web Control, the record button is not only for recording, but also for users to select various functions by one button.



1. Press “Record” button



2. Select Recording, RTMP, or Recording + RTMP functionalities.

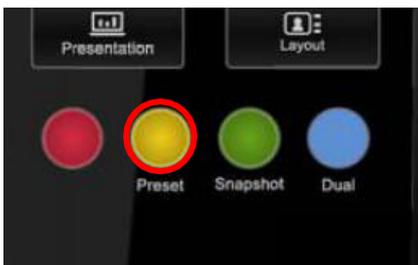
- A. **Recording:** refers to do “local Recording”. Please make sure the USB drive or extended HDD is well connected to KZ-VC6000
- B. **RTMP:** it will activate RTMP streaming to MyCloud platform. Please make sure the settings of RTMP are done.
- C. **Recording + RTMP:** to do local recording and activate RTMP Streaming at the same time.

“#” Button



Press this button for 2 seconds, then the keypad will be switch for English letter input instead of number input.

Preset Button



1. **Load presets:** press it to load the presets.
2. **Save presets:** press it for 2 seconds, then you can save the current position of camera image as a preset by input a number from **10~99**,
 - **1~9** are occupied for camera control,
 - **80** to enable auto-tracking function of the camera,
 - **81** to disable the auto-tracking function of the camera
3. Then press “Enter” to confirm

Connections

Before making the connections, make sure all devices are powered off. Refer to the illustrated connections below and also to the user manual of the device you are connecting to KZ-VC6000 system.



☞ Make sure all connections have been connected successfully before powering on the system.

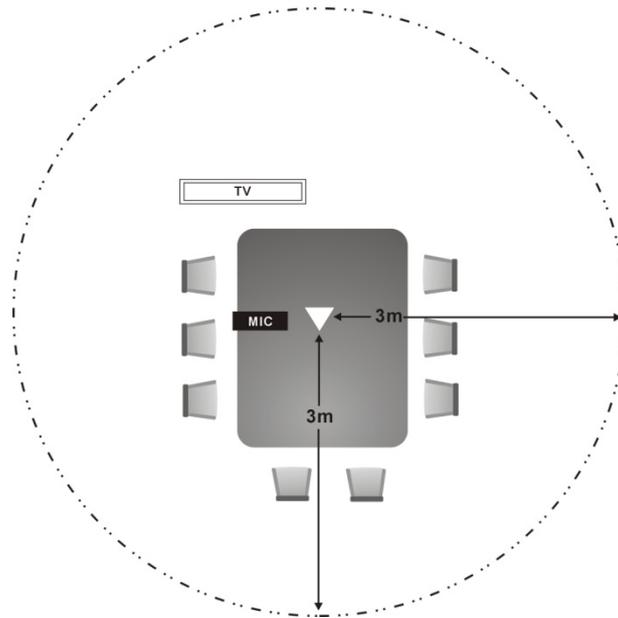
Front Connections: USB Storage / Mouse connection (USB Ports)

KZ-VC6000 main system supports two USB2.0 interface for saving Video clips and snapshot photos.

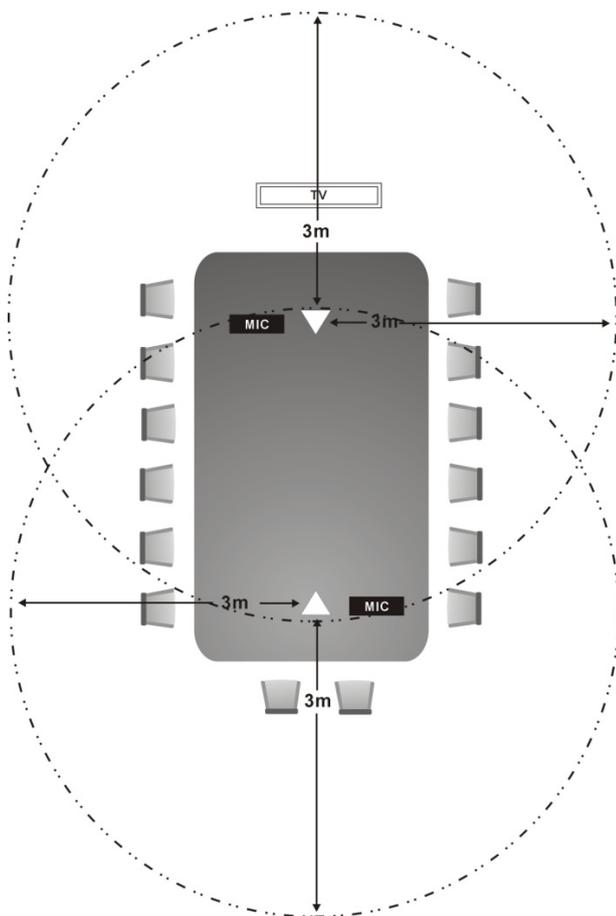


Positioning the MIC

The best distance for MIC to receive audio signal is within 3m. The MIC can connect up to 4 in one chain.



Single Microphone



Two Microphones

OPERATION

Connecting the camera, microphone, main system, display and power will be turned on automatically while being plugged onto a power socket. Power button starts blinking blue light, an animation and music will be displayed. In 30 seconds camera image and home screen appear on screen. Start configuring KZ-VC6000 after the Homepage of the setting section.

Before You Begin

Basic Operation

Navigation buttons: Use the , ,  and  buttons to move the selection on the remote controller.

Enter button: Use the  to confirm the selection on the remote controller.

Apply: Make the changed value to take effect.

Save: Accept the created value and save it to the system.

Cancel: Cancel the changed value and exit the present screen.

Home Screen

There are 2 selections divided on the Home screen: **Call** and **Setting**. Simply use the navigation buttons to move between selections and press  to confirm the selection. You can easily place a call and select the site contact either in **Dial**, **Phonebook** or **Call History**. You can easily setup up the system in **General Setting**, **Video/Audio**, and **Network**. The administrator can set a security password to prevent changes made to the system setting and Online WebTool access.

Configuration Icons



Call include Dial, Phonebook and Call History



Setting include General Setting, Video/Audio and Network.

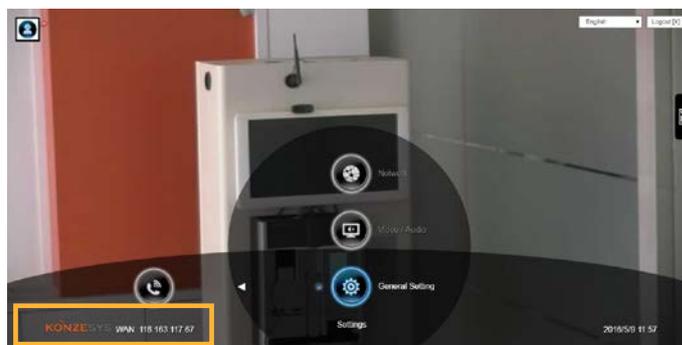
Menu function is divided into 2 parts – **Call** and **Setting**.

Call function is included **Dial**, **Phonebook** and **Call History**.

Setting function is included **General Setting**, **Video/Audio**, and **Network**.

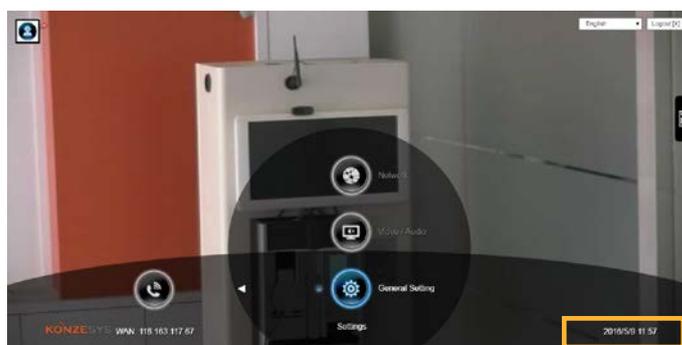
WAN Address

On the lower left corner of your home screen, you can find current WAN IP address.



Real-Time Clock

On the lower right corner of your home screen, you can find the current Date and Time once system has been set up properly.



System Info

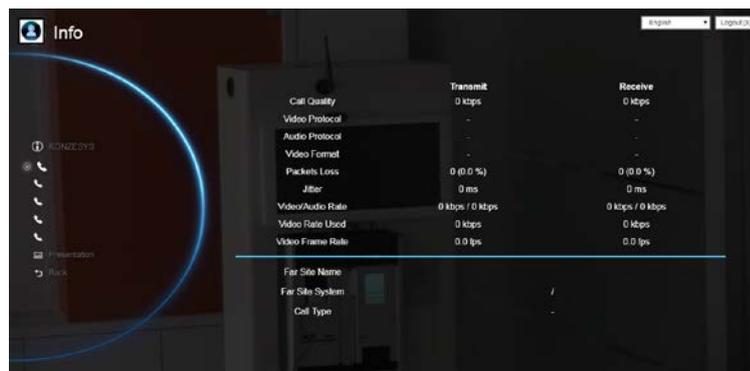
Press **(i)** (Info) button to switch to system information page.

The System Info shows you the relative information about your KZ-VC6000 main system including Site Name, Model name, Maximum Allowable Sites, IP Address, MAC Address and System Version.



Also, you can view call status while call is connected.

1. Make a call.
2. When call is connected, press **(i)** (Info) button.
3. Select the call and you should see the current call status.



Dial

Dial selection allows you to enter dial screen and make a call.. Press  button on the remote controller has the same effect.



IP Address

Use the number keys on the remote controller to enter the IP address or number or SIP URL (SIP:username.password@host) you want to call. Remote controller supports alpha-numeric operation, press numeric key multiple times to select the alphabet or symbol.

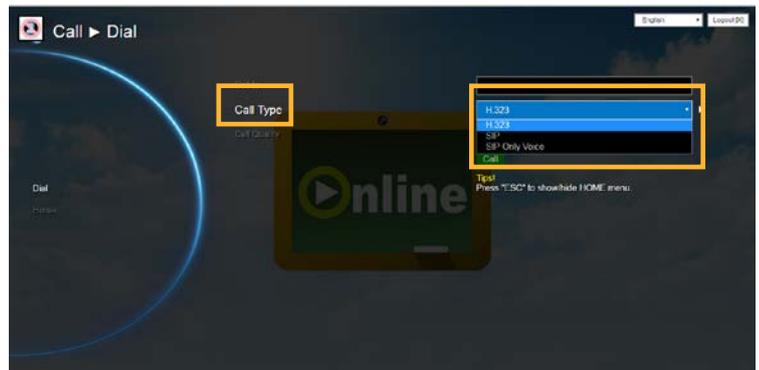
[Note] Press  button and hold can switch between numeric mode(123) and alphanumeric mode(ABC/123).



Call Type

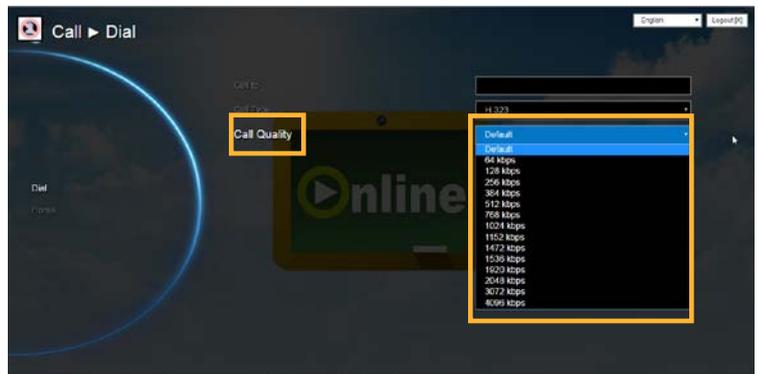
KZ-VC6000 supports H.323 and SIP calls. H.323 is commonly used to communication to other videoconferencing room systems. SIP is commonly used to communicate with other VoIP devices. Use the  button to select which type of call type you want to make then press  to confirm.

[Note] H.322 and SIP call type can be existed in a same conference call meeting.



Call Quality

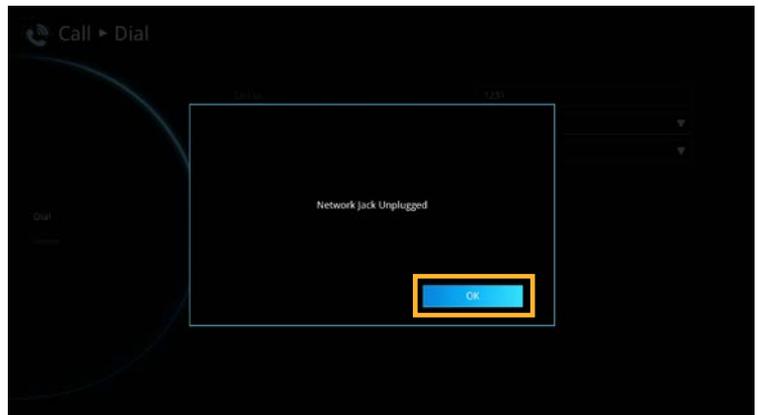
For the **Call Quality** selection, enter the desired call quality (or network bandwidth) from the drop-down list (default or 64K up to 4M bit per second).



Select the **“Call”** on the Dial configuration screen then press  to make a call.

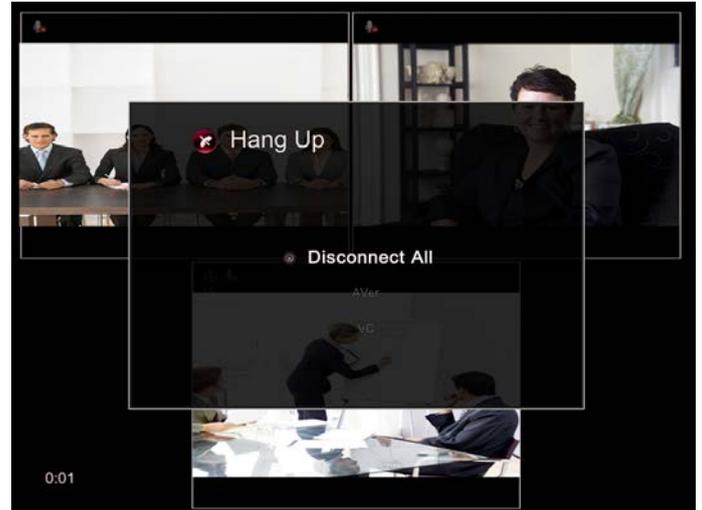


Make sure the network jack is plugged in and network is working properly before making a call; otherwise, the **“Network Jack Unplugged”** information will appear. Click **“OK”** to reconfirm the network connection.



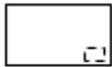
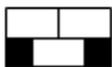
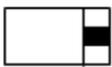
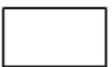
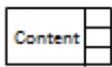
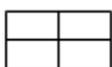
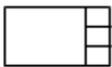
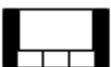
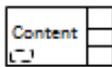
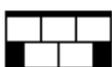
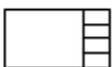
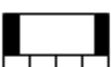
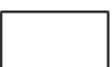
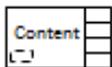
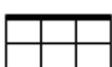
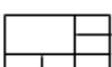
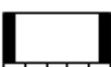
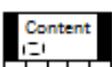
Hang up the call

1. When in multi-point connections, press  button (Hang up) on remote control and a call-point list screen is pop-up.
2. Use the ▲ and ▼ buttons to select which you want to disconnect and press . To end the connection, select Disconnect All.
3. You will notice the site names in the meeting are color coded. If you are not sure of which name you want to disconnect, refer to the color of the frame.
4. In multiple connections, you can choose which call you want to hang out.



Video Layout

Video layout on multisite connections is shown as following figure:

| Layout Sites | 1 | 2 | 3 | 4 | 5 | 6 |
|--------------|---|---|---|---|---|---|
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |

Phonebook

Phonebook allows you to create and edit contact information, group contacts by category, search contacts then make a call. The group and contact (site) name in the directory will be sorted in alphabetical order. You may use the Online Web Control to edit or import the phonebook entries too.

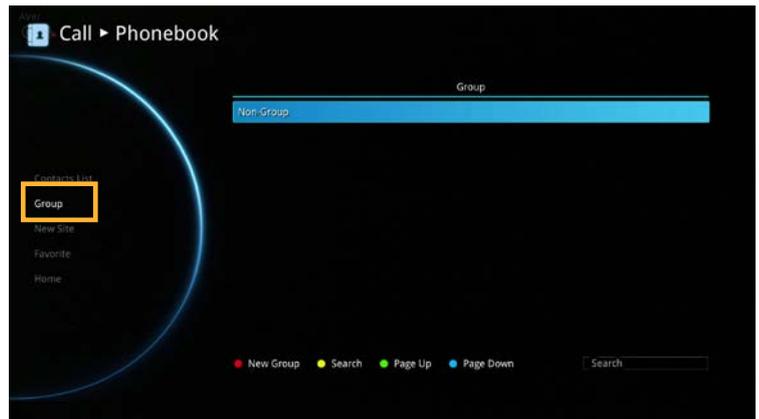


Group

Select **Phonebook** and press .

Select **Group** and press .

If you have lots of contacts, it is better to categorize them to groups such as client, vendor, company, branch, etc. to make the lookup easier.

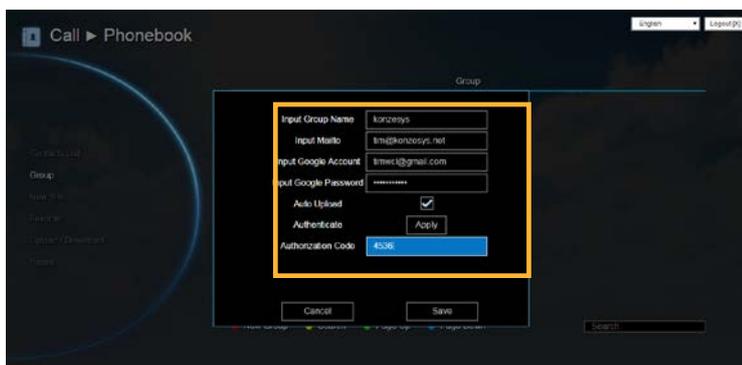


Create a New Group

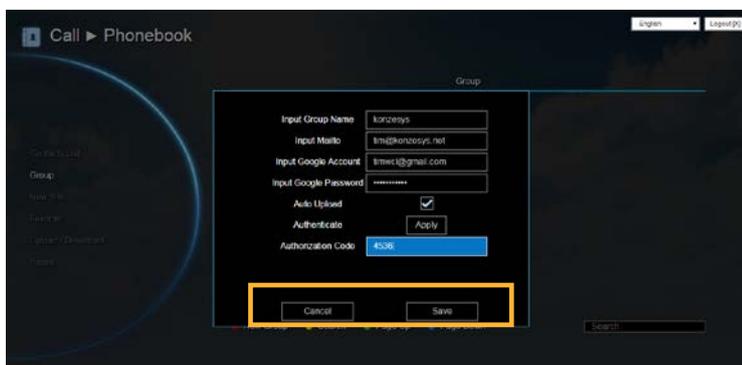
In the **Group** configuration screen, Press **“Red”** button on the remote controller to pop up the **“Input Group Name”** dialogue box.



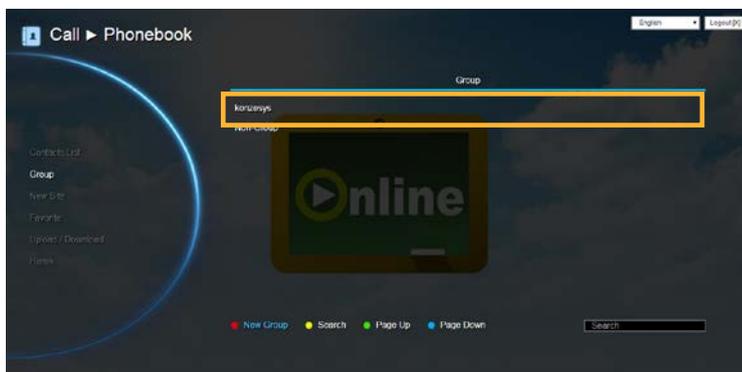
Enter the group name that you want to create.



Select **“Save”** to save the new group. Or select **“Cancel”** to exit the **“Input Group Name”** dialogue box.

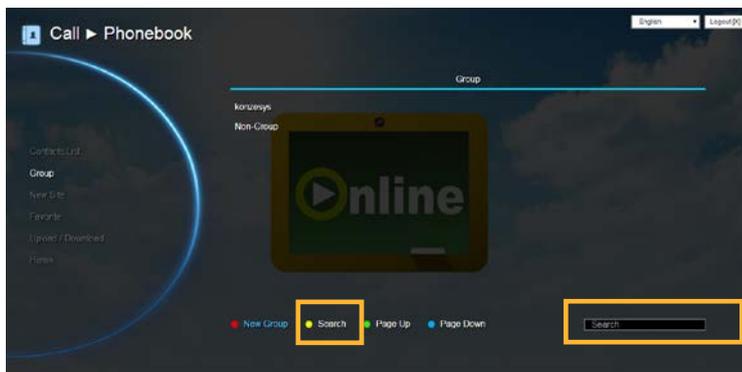


The new group name will be saved and displayed in the group list.

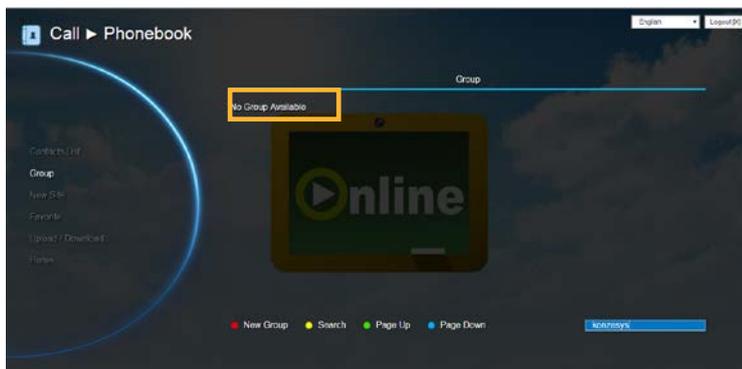


Search a Created Group

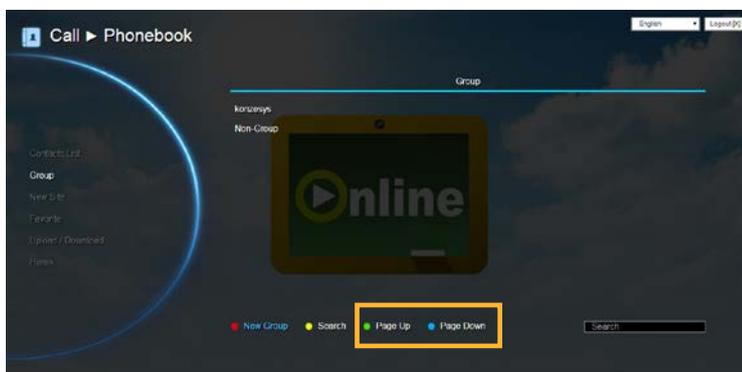
Press **“Yellow”**  button on the remote controller and enter the group name that you want to search.



If the name you enter has not been created, the system will show you **“No Group Available”**, please search again.



If the Group data are over one page, you can also press **“Green”**  button or **“Blue”**  button to Page Up or Page Down.

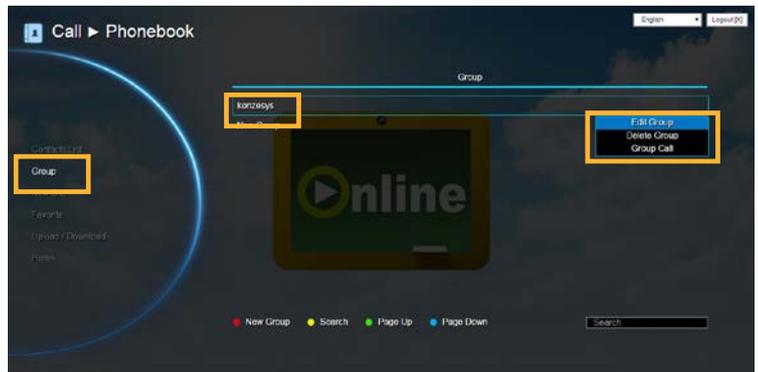


Edit Group

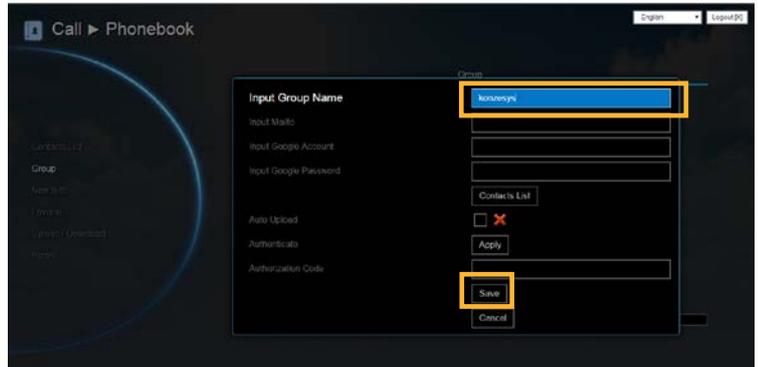
Select **Phonebook** | **Group** and press .

Select the name you want to modify in the group list.

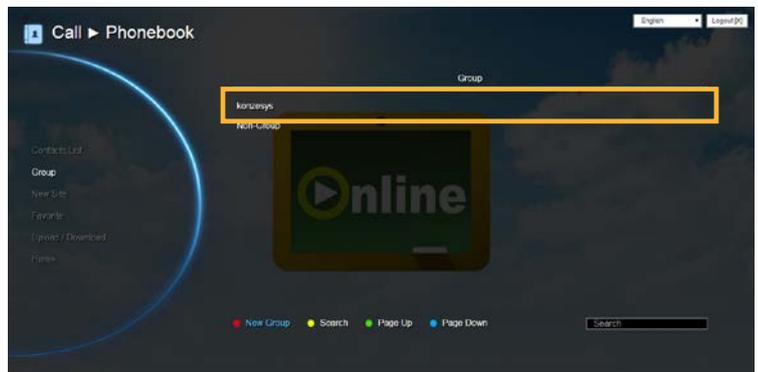
Select **“Edit Group”** and press .



Modify the group name and select **“Save”** to save the revised group name.



The revised group name will be saved and displayed in the group list.



 If the revised name is the same as the saved name, the revised name will be ignored.

Add Contact from Group List

Select **Phonebook | Group** and press .

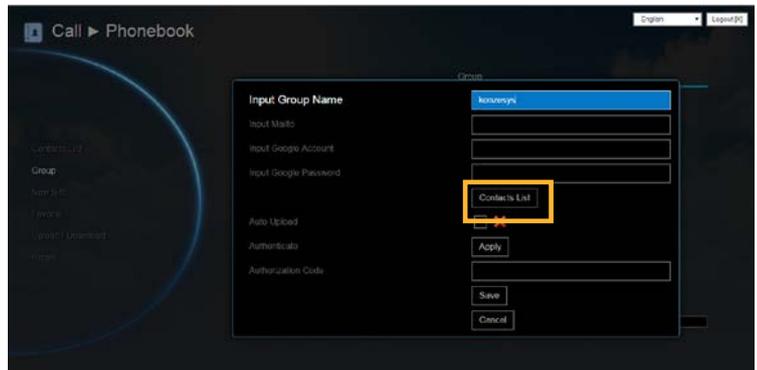
Select the Group name you want to add to Contacts List.



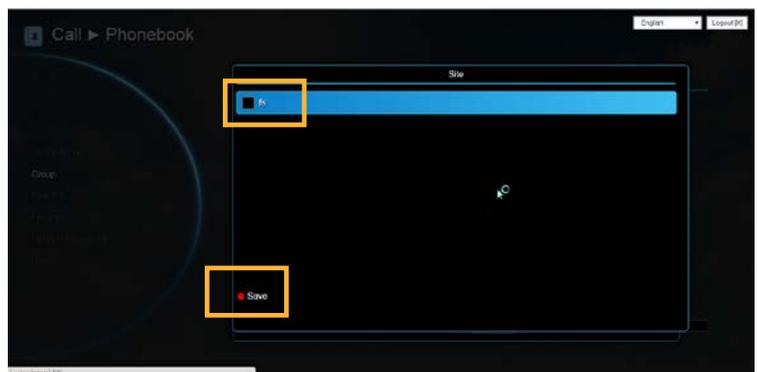
Select **“Edit Group”** and press .



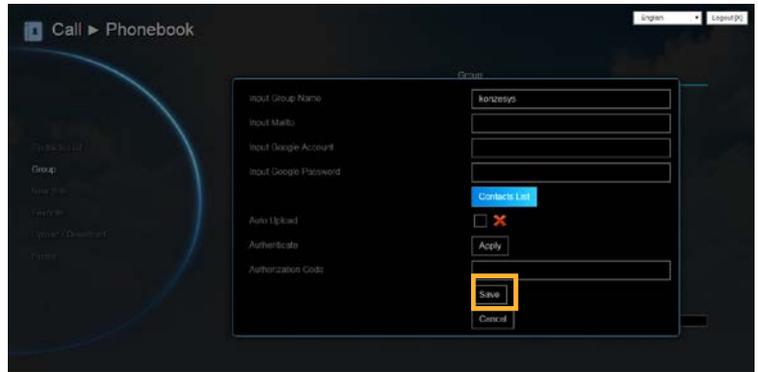
Confirm the Group Name what you want to add to the contacts list and then select **“Contacts List”**.



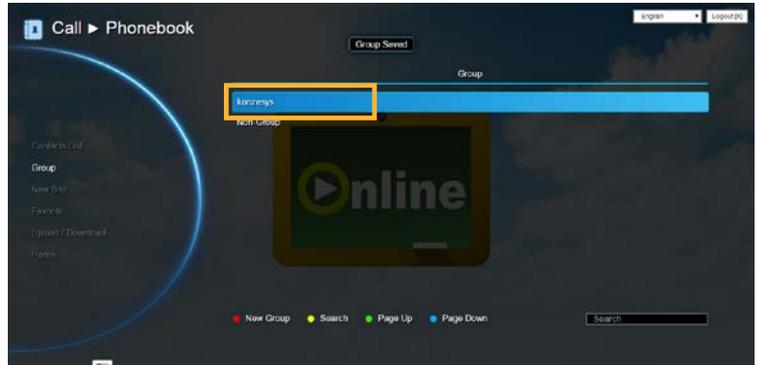
In the Group Site list, select the item that you want to add to the contracts list and then press **“RED”**  button on the remote controller to save the selection.



Select **“Save”** to save the Group name and added site to the contacts list.



The selected Group name and added site will be added into the contacts list.

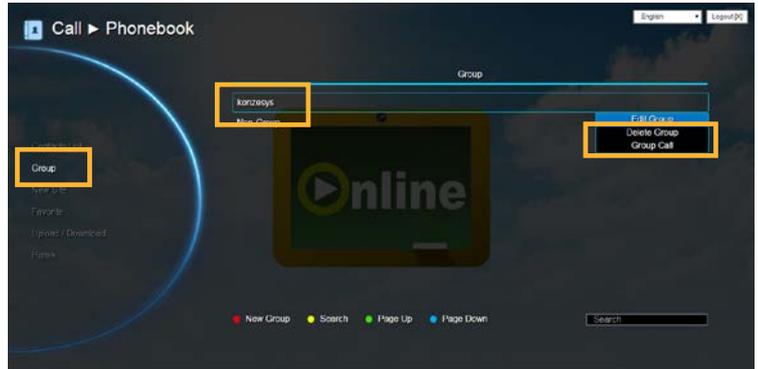


Delete Group

Select **Phonebook | Group** and press .

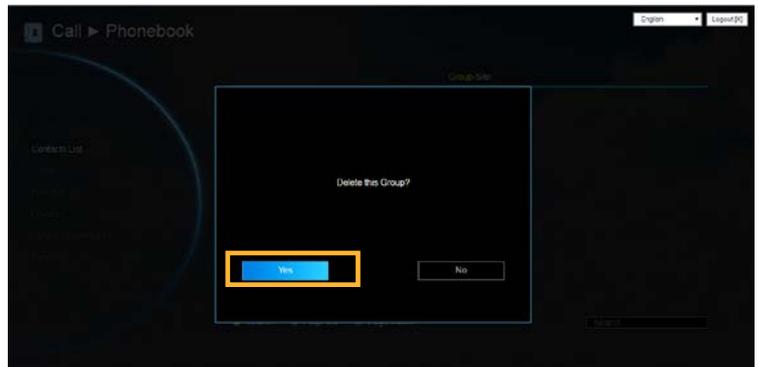
Select the name you want to remove in the group list.

Select **“Delete Group”** and press .



Select **“Yes”** to remove the selected group name and **“No”** to cancel group name deletion.

The selected group name will disappear in the group list when deleted.



New Site (Contact in Phonebook)

New Site allows you to create and edit the information to each site.

Add New Site

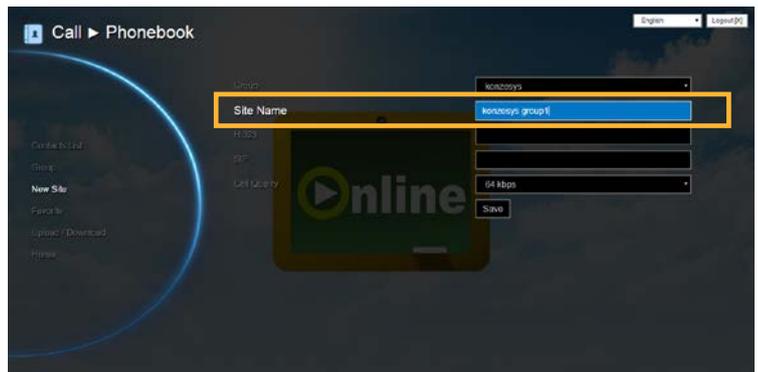
Select **Phonebook** | **New Site** and press



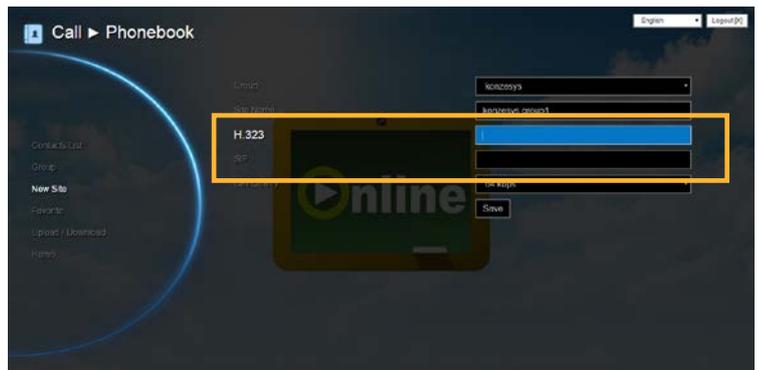
Select the **Group** name, if you don't want to add the entry into a group, please select "**Non-Group**" item.



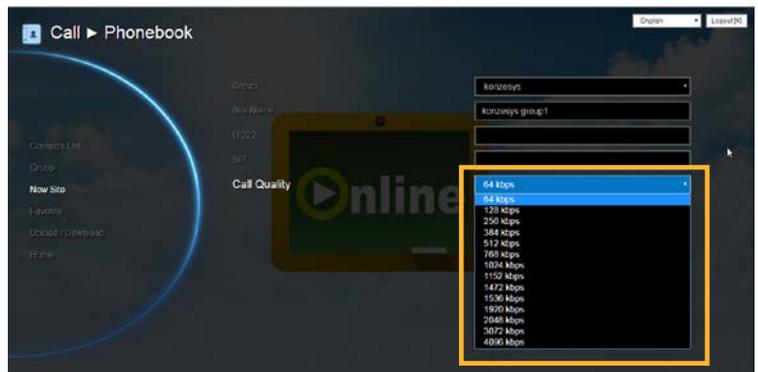
Select **Site Name** box. Enter the site name with the remote controller and press



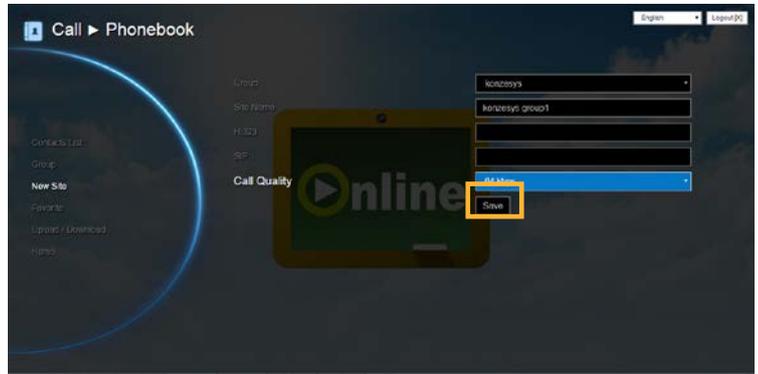
Enter the used call type information either **H.323** or **SIP**.



Select the desired call quality value in the drop-down list.



Select **“Save”** to store the newly added site contact.



Edit New Site

Select Phonebook | Contacts List and press .

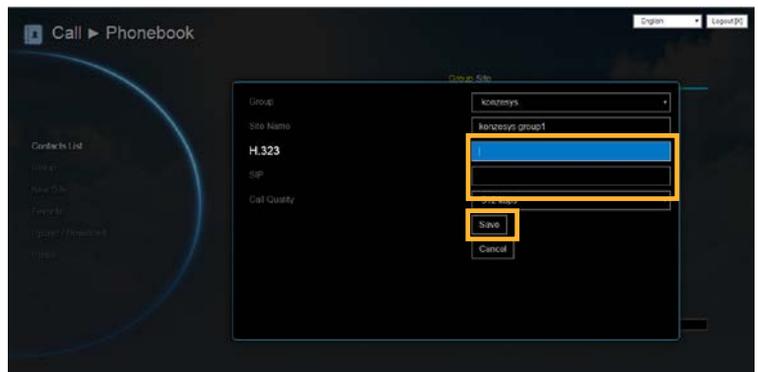
Select the contact you want to modify and press .

Select **“Edit Site”** and press .

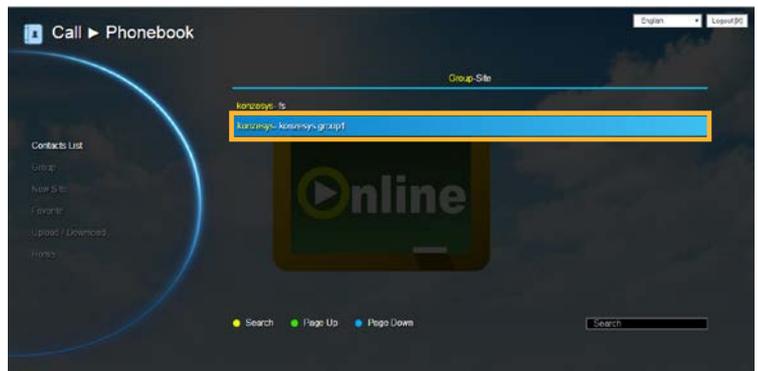


In the Edit Site screen, you may change the Group name, Site Name, H.323, SIP and Call Quality.

After making the changes, select **“Save”** to apply the new changes or **“Cancel”** to reserve the original settings.



The saved changes will be shown in the Group Site list.



Delete New Site

Select Phonebook | Contacts List and press



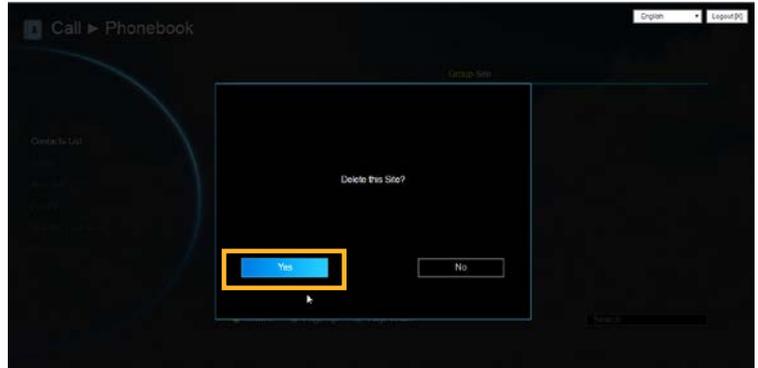
Select the contact you want to delete and press



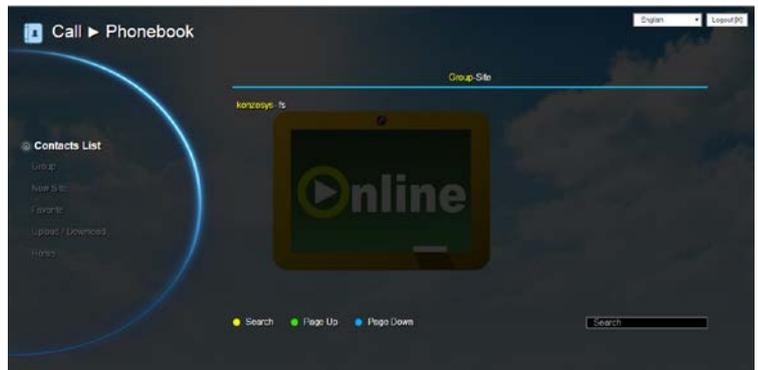
Select **“Delete Site”** and press



Select **“Yes”** to remove the selected contact and **“No”** to cancel contact deletion.

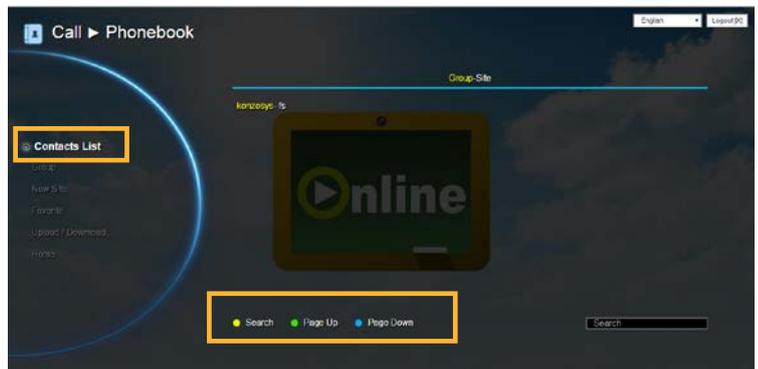


The selected contact will disappear in the Group-Site list when deleted.



Contacts List

Contacts List shows you all of the contacts that you have created and saved. You can select the contact from the **Contacts List** directly for modifying or deleting. In the Contacts List configuration screen, you can also use the **“Yellow”**  button on the remote controller to search the contact that you want. If the Group-Site over one page, you can also press **“Green”**  button or **“Blue”**  button to Page Up or Page Down.

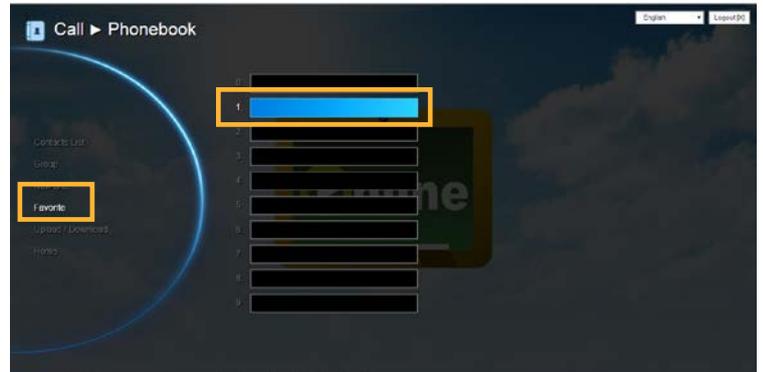


Favorite

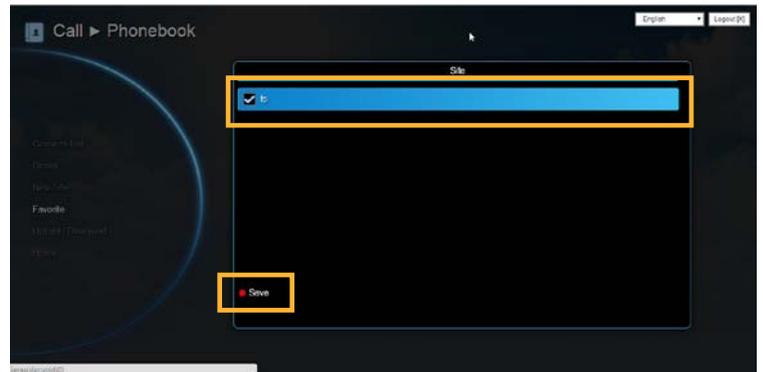
KZ-VC6000 allows you save up to 10 most used contacts in the favorite list.

Select **Phonebook** | **Favorite** and press .

Select which line (0~9) do you want to save the favorite contact and press .



Select the contact from the pop-up **Group Site** list and press “Red”  button on the remote controller to save the selection.



The item selected will be added into favorite list.

You can make the calls from the favorite list # (0~9) which you have set the favorite list, to press and hold the button # (0~9) via remote controller in Home menu screen.



Call History

The Call History allows you to check the incoming/outgoing calls made and their status. You can also make a call by selecting it in the Call History list.



Call Status

Select **Call History** and press .

The Call History will show you the IP address or the Site name with call type, Call Date/Time and Call status. Refer to the table below to check the call status.



| Call Status | Answered | Failed |
|-------------|----------|--------|
| IN | | |
| OUT | | |

Make a Call From the Call History

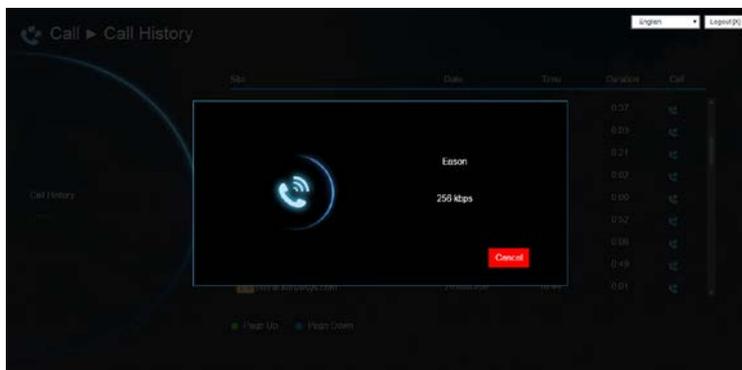
Select **Call History** and press .

Use the  and  buttons to move the selection and scroll up and down in the call history list.

Press  and select **“Call”** to make a call. Or press  button on the remote controller to make a call.



The call will be connected.



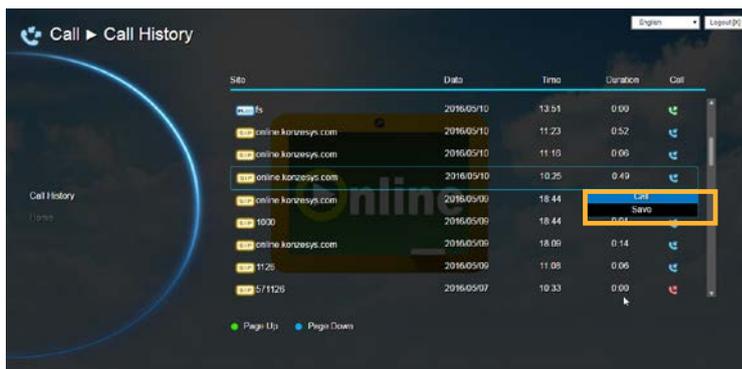
Make a Contact from the Call History

You can also save the call in/out information into your contacts list.

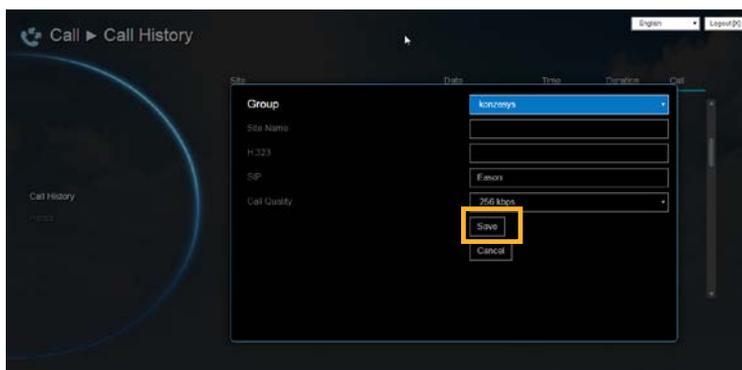
Select **Call History** and press .

Use the  and  buttons to move the selection and scroll up and down in the call history list.

Press  and select **“Save”** to pop-up contact editing form. All relative information has filled in the contact form already based on the selected call entry from the Call History.



Confirm the **Group** selection then select **“Save”** to save the call entry into your contact.



General Setting

The General Setting allows you to modify system setting, authority of administrator, monitor setting, and adjust date and time.



Call Settings

Call Setting set the system to enable/disable auto answer, set the default call quality, and enable/disable Advanced Encryption Standard which ciphers the data to protect against unauthorized data access.

Auto Answer

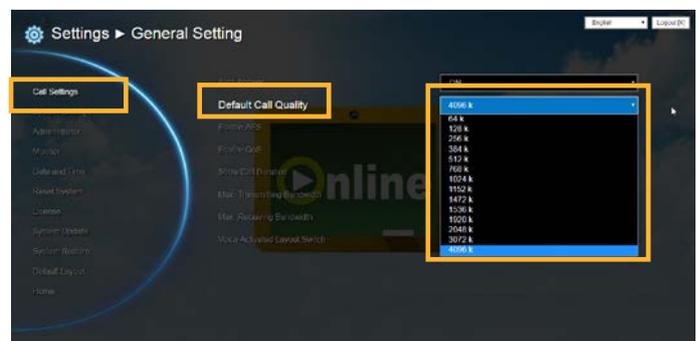
Select General Setting | Call Settings and press .

Select **Auto Answer** and press . In the Auto Answer drop-down list, select **“OFF”** to turn off Auto Answer. **“ON”** to answer the call automatically and **“First Call Only”** to automatically answer the first call and answer or reject other incoming calls manually. If you are already in an online interactivity, even if the Auto Answer is turned on, you also need to accept the next call manually.



Default Call Quality

KZ-VC6000 main system supports 64K,128k, 256k, 384k, 512k, 768k, 1024k, 1152k, 1472k, 1536k, 1920k, 2048k , 3072k, 4096k selection for default call quality. By default, it is set to 512k.



Enable/Disable AES

Advanced Encryption Standard (AES) encrypts the data that is being transmitted during an online interactivity to provide protection against unauthorized data access. Encrypted data can only be read with the device that also supports the AES standard. All parties on the call must support AES to use this feature, or else the data will not be encrypted.

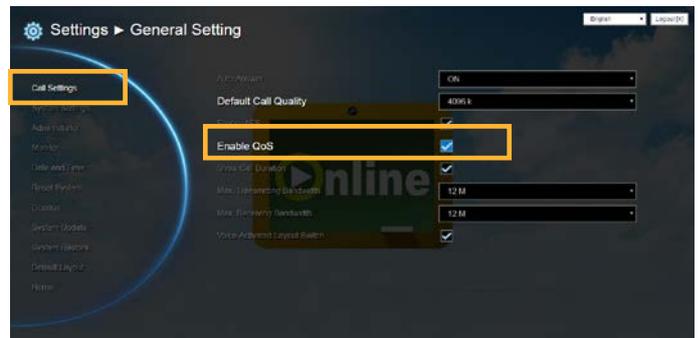
Select **General Setting | Call Settings** and press . Select the **Enable AES** check box to active this function.



 This function may be restricted and unavailable in some countries.

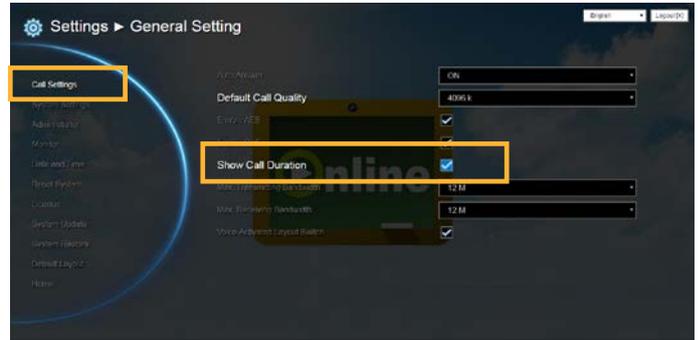
Enable/Disable QoS

Quality of Service (QoS) provides different priority data flows to guarantee a certain level of performance in online interactivities data flow. To activate QoS, select **General Setting | Call Settings** and press . Select the **Enable QoS** check box to active this function. By default, this function is disabled.



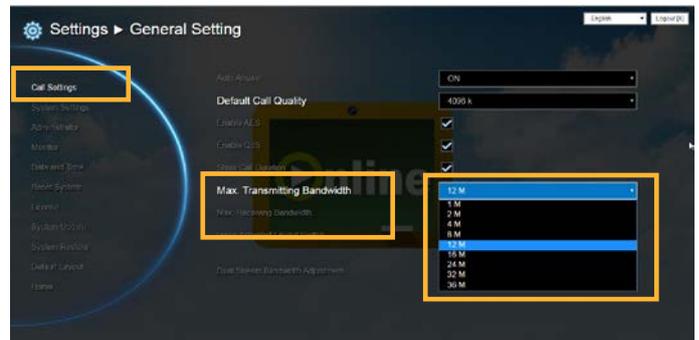
Show Call Duration

Enable/disable the call duration showing, by default, this function is enabled.



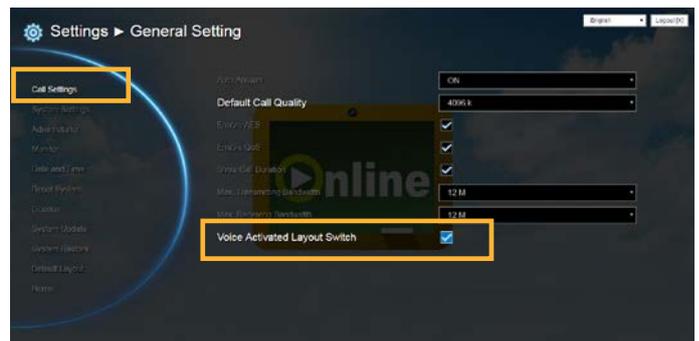
Max. Transmitting/Receiving Bandwidth

This function allows you to specify the maximum bandwidth of the outbound and inbound calls. KZ-VC6000 system supports up to 36M.



Voice Activated Layout Switch

During the video conferencing, KZ-VC6000 system will detect which connected point is talking and show the video of talking point into the main display.



[Note]

1. When function of Voice Activated Layout Switch is enabled, the multiple connections must over 3 points.
2. When voice activate function is disabled, the screen is displayed the video of first connected call.
3. In Figure 1, the layout 2 ,3 and 4 are displayed the talking point at largest video screen area and rest of points are displayed in small video screen area. If connecting point doesn't enable "Voice Activated Layout Switch" function, it will display in small screen.
4. In Figure 1, the layout 4 is displayed talking point on largest video screen area. If Voice Activated Layout Switch doesn't enable, the largest video screen area is displayed video of local site.

For example:

| Layout \ Sites | 1 | 2 | 3 | 4 | 5 | 6 |
|----------------|---|---|---|---|---|---|
| 3 | | | | | | |

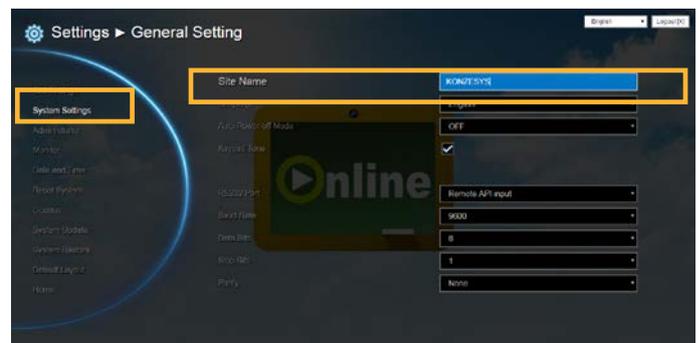
Figure 1

System Settings

System Settings allows you to enter or change your system's site name which will appear on the screen during the call session for the other party to identify you, set Language, the time for Auto Power off and enable/disable Keypad Tone function for your main system.

Site Name

Select General Setting | System Settings and press . The site name is represented as name of KZ-VC6000 system. Enter the site name as you wanted.



Language

Select General Setting | System Settings and press .

KZ-VC6000 main system supports up to 21 languages for your selection. Select the language from the drop-down list directly and the language for the system will turn into the selected language automatically.



Auto Power Off Mode

Auto Power Off Mode allows you to set the time to power off your system automatically after idling.

Select General Setting | System Settings and press .

Select the time from the **Auto Power Off Mode** drop-down list (OFF/30Minutes/1Hour/2Hours/3Hours/4Hours). Disable this function, please select "OFF". The function will completely turn off the system once you have set the auto power off time. To turn on the system you need to press the Power button on the KZ-VC6000 main unit again.



Keypad Tone

Keypad Tone allows you to enable/disable tone sounds when you are dialing a number using the remote controller.

Select General Setting | System Settings and press .

Select the Keypad Tone check box to enable the tone sounds. By default, this function is enabled.



Administrator

Enable Web Admin

Select General Setting | Administrator and press .

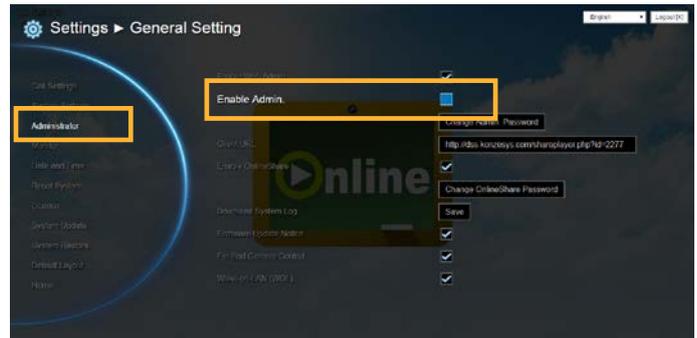
Here allows you to enable administrator authority of Web Tool. When you access to Web Tool, a password is required. The default password is "1234".



Enable Admin

Select General Setting | Administrator and press .

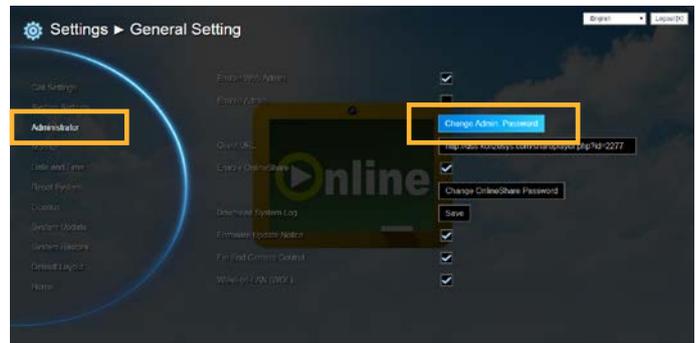
Here allows you to enable authority of system administrator. When you want to setup system, a password is required. The default password is "1234".



Change Admin. Password

Select General Setting | Administrator and press .

Here allows you to change password of system administrator.



Enable Client URL/ OnlineShare

Select General Setting | Administrator and press .

Here allows you to enable function of:

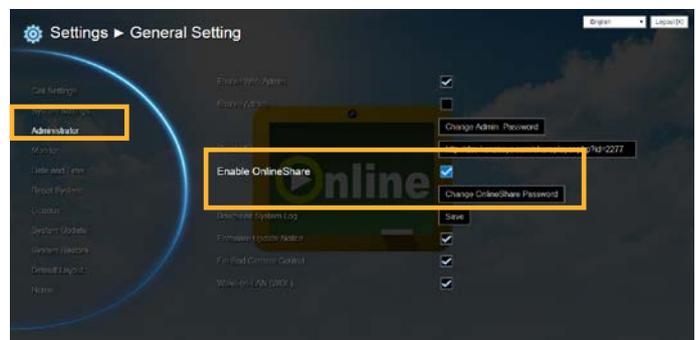
- **Client URL:** to input the URL that you want to share in an online interactivity.
- **OnlineShare:** to allow the APP, OnlineShare to be the virtual remote controller, share photos, deliver real-time image (only for iOS.)



Change OnlineShare Password

Select General Setting | Administrator and press .

Here allows you to change password of OnlineShare. The default password is "1234"



Save System Log

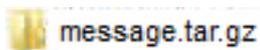
If you encounter unknown issues and are unsure of how to troubleshoot the unit, sending us the saved system log data to help us solve your problem faster.

Insert a USB Flash drive into the USB Port(on front panel)) of the KZ-VC6000 main system.



Select “**Save**” located next to “**Save System Log**” to save the system log into your USB Flash drive.

After the file is saved, select “**OK**”. Remove the USB Flash drive and insert it into your computer’s USB port. Located the file message.tar.gz and send it to the technical support team.



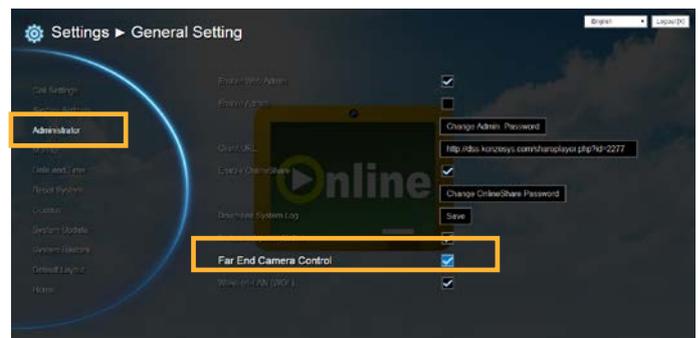
Firmware Update Notice

Select this function check box to enable firmware updated notice function. By default, this function is enabled.



Far End Camera Control

Select the “**Far End Camera Control**” check box to enable the far site to control your camera. By default, this function is enabled.



Wake-On-LAN (WOL)

Wake-on-LAN is an Ethernet computer networking standard that allows your computer to be turned on or awakened by a network message. By default, this function is disabled.



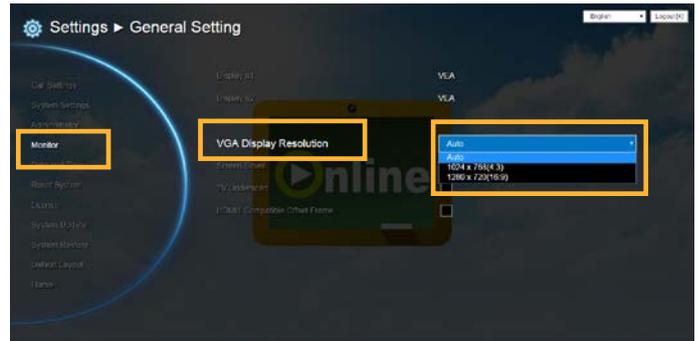
Monitor

KZ-VC6000 main system allows you to connect dual monitor. In the **Monitor** configuration screen, you can configure the **Aspect Ratio** and **Screen Saver** to each monitor.

Select General Setting | Monitor and press



Select the Monitor Aspect Ratio (Auto /4:3/16:9) that you want from the drop-down list and press . If you want the system to detect the right setting automatically, please select **“Auto”**.



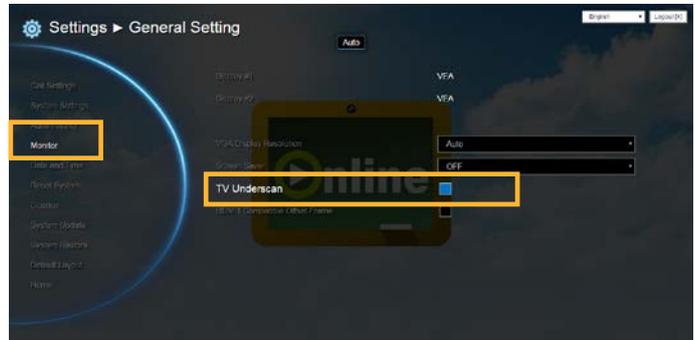
Select the Screen Saver time (OFF/10 Minutes/20Minutes/30Minutes/60Minutes) from the drop-down list and press . You can select **“OFF”** to disable this function or define a standby mode time.



The screen will turn black when the system is in standby mode. Press any button on the remote controller to wake up the system.

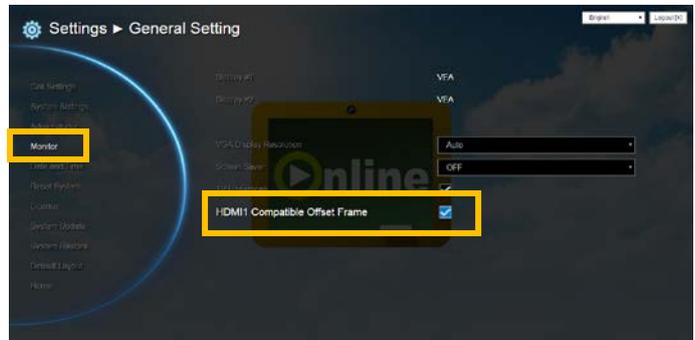
TV Underscan

For older type TVs/CRT monitors, this function can help to auto adjust screen view when the GUI is exceeded the monitor view range.



HDMI 1 Compatible Offset Frame

To cancel out the black frame of the Input from HDMI 1



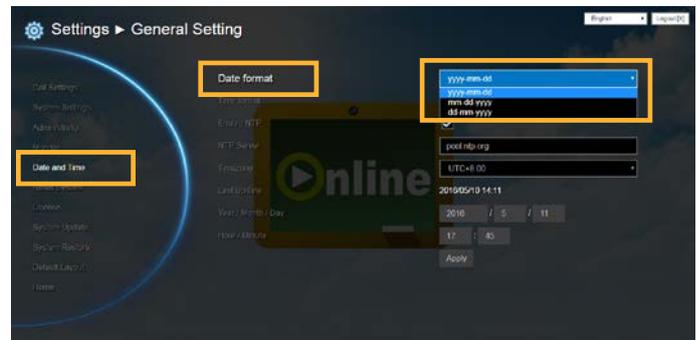
Date and Time

Date and Time allows you to set the Date and Time formats, adjust the time setting and change the time zones around the world and countries.

Date Format

Select General Setting | Date and Time and press .

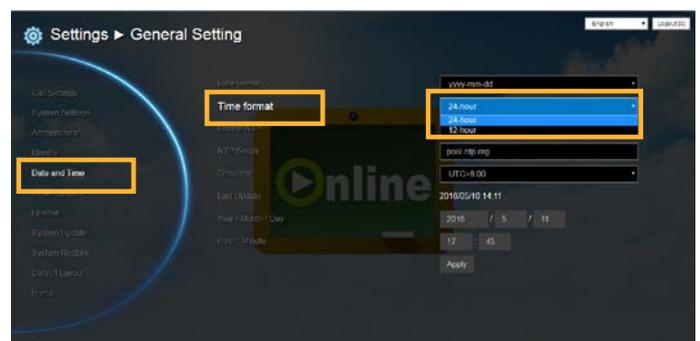
Select the Date Format (yyyy-mm-dd/ mm-dd-yyyy/dd-mm-yyyy) you prefer from the drop-down list.



Time Format

Select General Setting | Date and Time and press .

Select the Time Format (24-hour/12-hour) you prefer from the drop-down list.



Enable NTP

Network Time Protocol (NTP) is a protocol that is used to synchronize computer clock times in a network of computers. Select the **Enable NTP** check box to make your main system time the same as the network time.



NTP Server

The Network Time Protocol (NTP) allows administrators to synchronize all network computers to a main server. This keeps all network machine clocks on the same time. Enter the NTP Server name that you want to follow.



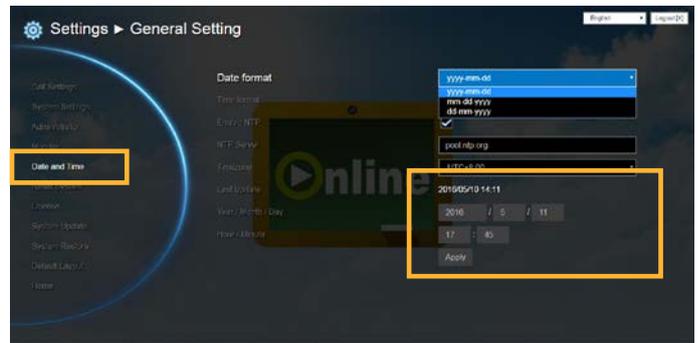
Timezone

Timezone allows you to adjust the time when you are in a different country or area so that you can keep the same time with your original area. Most of the time zones on land are offset from Coordinated Universal Time (UTC) by a whole number of hours (UTC-12 to UTC+14).

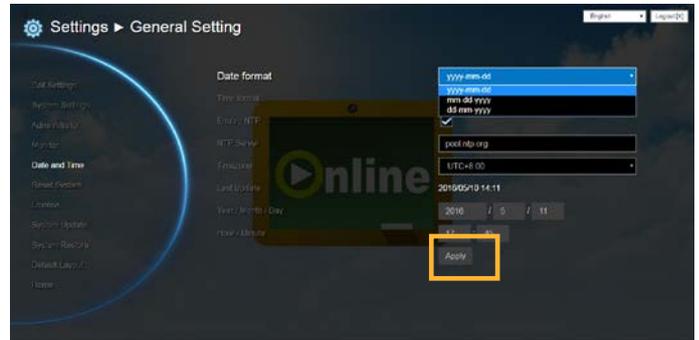


Year and Hour

Input the date and time including year, month, day, hour and minute that you want to show on the present system.



Select **“Apply”** to active your settings.

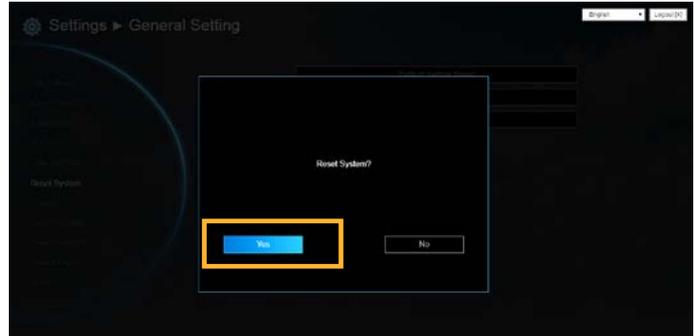


Reset System

The Reset System allows you to reset your main system to the original settings, which will clear phonebook entries and call history. Make sure to back up the information before resetting the system.

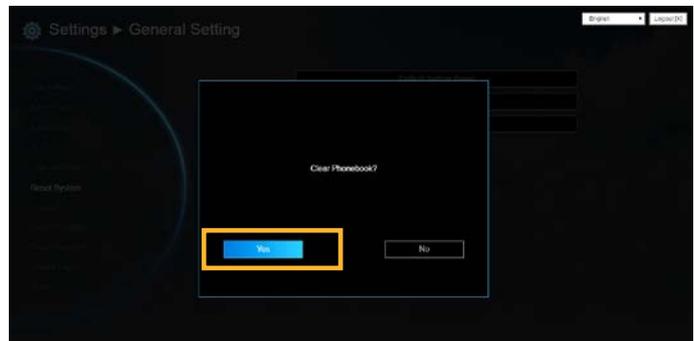


Default Setting Reset: LAN configuration, video/audio codec selection, call settings and so on will be reset. Click “**Yes**” to reset your system to factory default values.

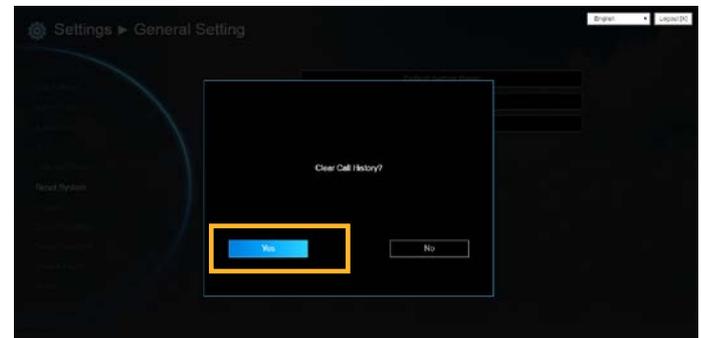


Clear Phonebook: All the phonebook entries saved in the system will be deleted.

Click “**Yes**” to delete all content of your phonebook.

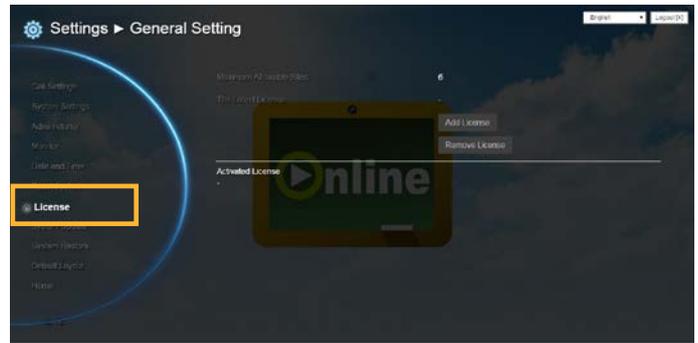


Clear Call History: All the incoming and outgoing call records will be deleted. Click “**Yes**” to delete all calling information of the call history.

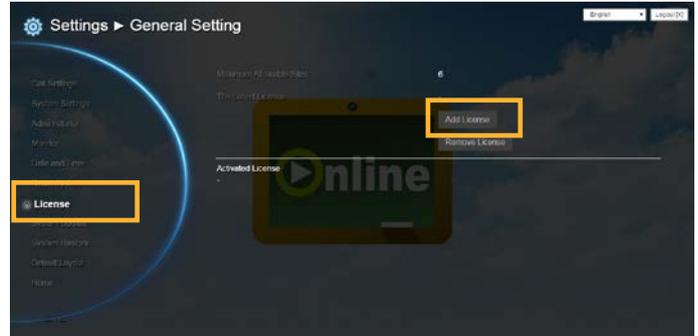


License

You can purchase license to increase call-point up to 8 call-points. To purchase license, please contact your sales dealer.



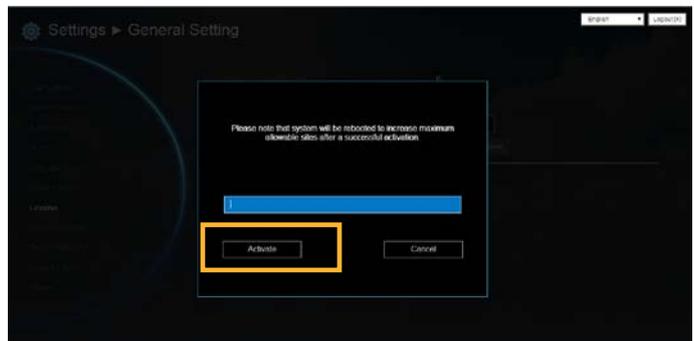
Select **Add License** to enter license serial number.



Press **keypad button** on remote and enter the license serial number. After entering, select **OK** to back to License enter page. Then, select **Activate** to register the license.

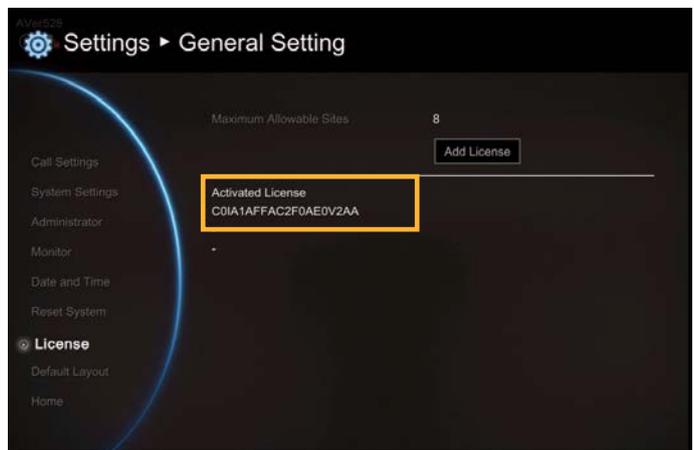
[Note]

1. License serial number is capital sensitive.
2. One license only for one KZ-VC6000.



You will see the license serial number list in Activate License section.

To enter another license serial number, follow above steps.



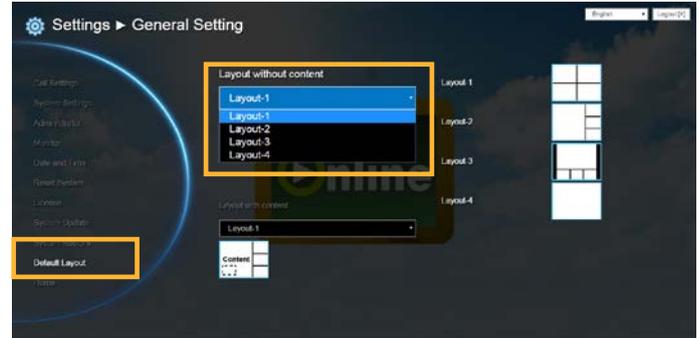
Default Layout

You can select the layout for online interactivities. There are two types of layout – Layout without content and Layout with content.



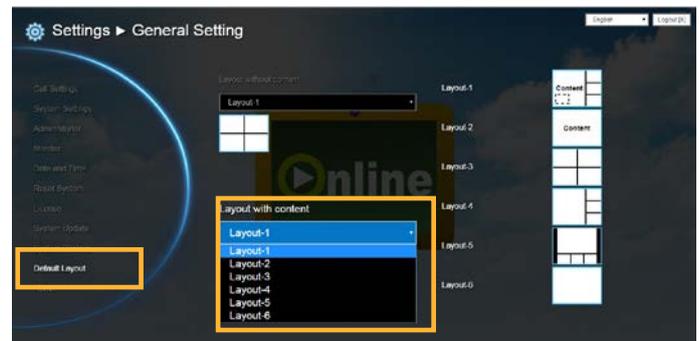
Layout without content: Only display call video, no content share screen.

There are 4 layouts that can be chosen. During the online interactivity, the default layout will be that you have chosen.



Layout with content: display video and content share screen.

There are 6 layouts that can be chosen; but only 2 layouts that include content share screen. During the online interactivity, the default layout will be the one that you have chosen.



Video/Audio

In **Video/Audio** configuration unit, you can set the MIC gain level, select the preferred video and audio codecs and adjust the camera functions.



Camera

In this unit you can configure the protocol and other settings of the camera.

Camera Protocol

Select **Video/Audio | Camera** and press .

Select the **Camera Protocol** type from the drop down list. KZ-VC6000 main system supports 3 types of protocols; **VISCA**, **PELCO-D**, and **PELCO-P**.



Baud Rate

You can select certain baud rate from the drop down list. KZ-VC6000 supports 8 kinds of bud rates; **1200**, **2400**, **4800**, **9600**, **19200**, **38400**, **57600**, and **115200**. The default baud rate is **9600**.



Data Bits

Select an appropriate data bits from the drop down list. There are 4 data bits supported; **5**, **6**, **7**, and **8**. The default data bits are **8**.



Stop Bits

There are 2 bits can be selected from the drop down list. The default is 1.



Parity

There are 3 standards can be selected from the drop down list; **None**, **Odd**, and **Even**. The default is None.



Microphone

KZ-VC6000 main system allows you to adjust the **MIC Gain Level** up to 9 for proper MIC volume to improve audio reception on the microphone (s).

MIC Gain Level

Select Video/Audio | Microphone and press



Adjust the **MIC Gain Level** form the drop-down list.



MIC Input Source

Select the one of the 3 sources of the microphone from the drop down list; **MIC in**, **Audio in with AEC** or **Audio in without AEC**. If you connect a microphone in AUDIO IN port, we recommend selecting **Audio in with AEC** to avoid the echo issue.



Sending Audio Via Line-in to

Send the audio through the audio device that is connected to the audio input port of KZ-VC6000 from selected site(Far, Near, or Both).

If MIC Input Source is **MIC in**, you can select Far, Near or Both Site from the drop down list. If MIC Input Source is **Audio in**, only “**Far site**” can be heard.

[Note] When audio input port is connected with audio device and enable “Sending Audio Via Line-in to” function, the KZ-VC6000 MIC is disabled.



Sending Audio Via HDMI-in to

Send the audio through the device that is connected to HDMI input port. You can choose **Far site**, **Near site**, or **Both site** that can hear the audio sound.



Broadcast Support(HDMI-2)

This function allows you to hear own talking voice during online interactivity through the stream media device that is connected to HDMI-2 port of KZ-VC6000 main unit.

In MIC Input Source, please select “**MIC In**”.

If the stream media device didn't connect to HDMI-2 port, it will cause howling when voice come out from TV or speaker.



Video/Audio Codecs

You can specify the **Video/Audio Codecs** in **Video Codecs** and **Audio Codecs** configuration screens. Select the **Video/Audio Codecs** to specify the codecs you want to support. While KZ-VC6000 supports H.323 standard coding algorithm, there are unique properties and best performance in certain circumstances.

Video Codecs

Select **Video/Audio** | **Video Codecs** for Video Codecs configuration and press .

Supported Codecs:

H.261, H.264, H.263+, H.263, H.264HP, H.264 SVC

[Note] H.261 is always mark in default.



Audio Codecs

Select **Video/Audio** | **Audio Codecs** for Audio Codecs configuration and press .

Supported Codecs:

G.728, G.722.1C, G.722.1*, G.722, G.711

[Note] G.722.1/G.722.1C, licensed from Polycom®



 Please contact system administrator if you have any question on these codecs.

Network

Network allows you to set the **SIP Server**, **Gatekeeper**, **Firewall** and **LAN Configurations**.

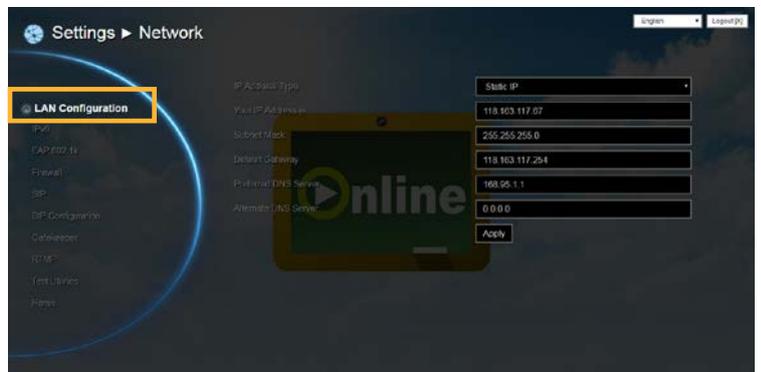


LAN Configuration

KZ-VC6000 supports **IPv4** and **IPv6** internet protocol for your configuration. IPv4 is the most widely deployed internet protocol used to connect devices to the internet. IPv4 uses a 32-bit address scheme, written in decimal as four numbers separated by periods. Each number can be zero to 255. For example, 192.168.0.1 could be an IP address.

Select **Network | LAN Configuration** and press **↩**.

Configure the following relative items to setup the LAN Configuration.



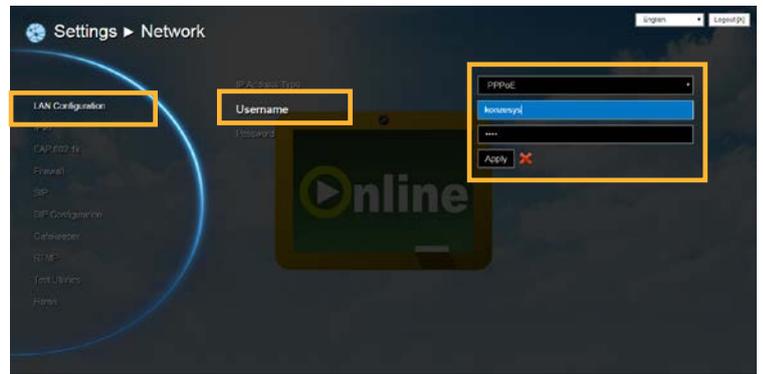
IP Address Type

Static IP: Configure the system to use the assigned IP address. Select this when the public IP address is available.

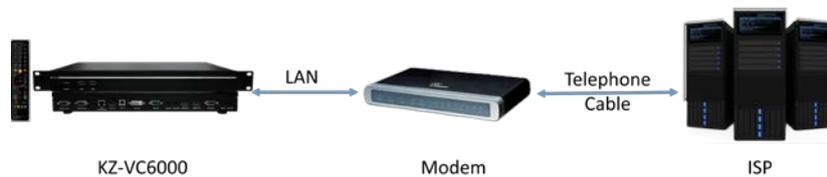
DHCP: Configure the system to automatically obtain an IP address from the DHCP server.



PPPoE : When KZ-VC6000 is connected to a modem provided by the ISP, you can input the Account and Passwords in this session to get access to the Internet.



PpoE Connection



Your IP address is

If the IP Address Type is **DHCP**, then the IP address will be obtained automatically and shown on all columns.

If the IP Address Type is **Static IP**, then you have to input the IP and other settings manually.

If in **PpoE** type, just make sure the Account and Passwords are correct..



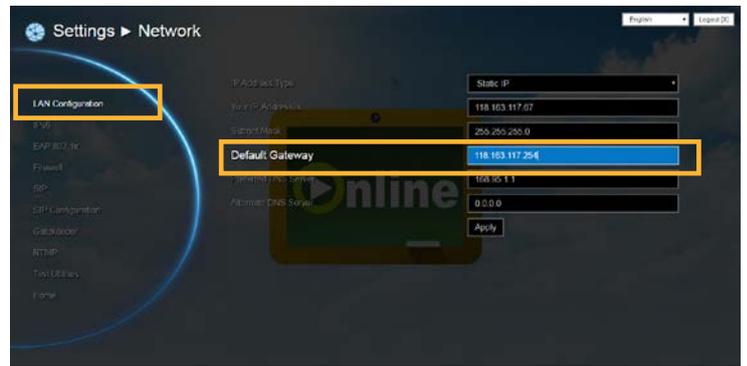
Subnet Mask

Show the designated IP address routing prefix; enter the subnet mask address when the system does not automatically obtain the subnet mask



Default Gateway

A gateway is a network point that acts as an entrance to another network. Enter the gateway address when the system does not automatically obtain the gateway.

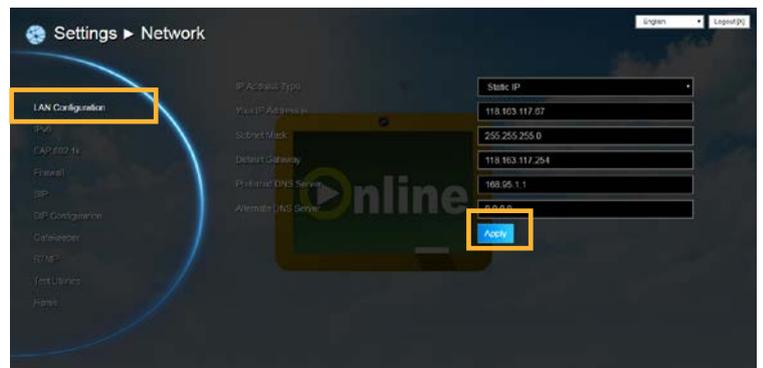


Preferred/Alternate DNS Server

Domain Name System (DNS) servers convert human friendly names (for example: www.example.com) to IP addresses (218.77.272.166) that let machines be found on the network. The preferred DNS server is the one your computer asks first. The alternate is a backup. Enter the Preferred and Alternated DNS Server address.



After finishing all settings, select **“Apply”** to active the changed settings.



Select Network | LAN Configuration (IPv6) and press .

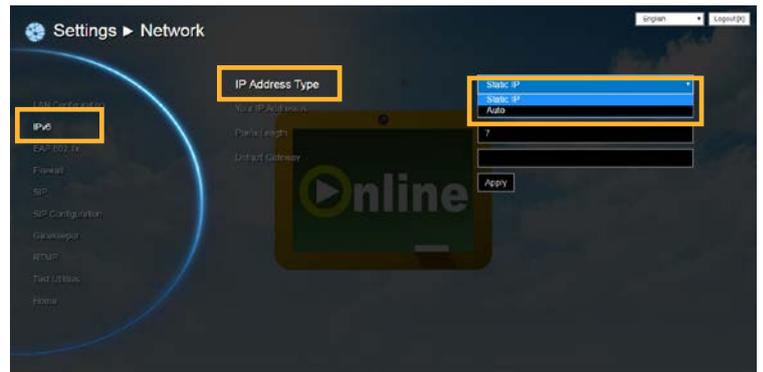
Configure the following relative items to setup the LAN Configuration (IPv6).



IP Address Type

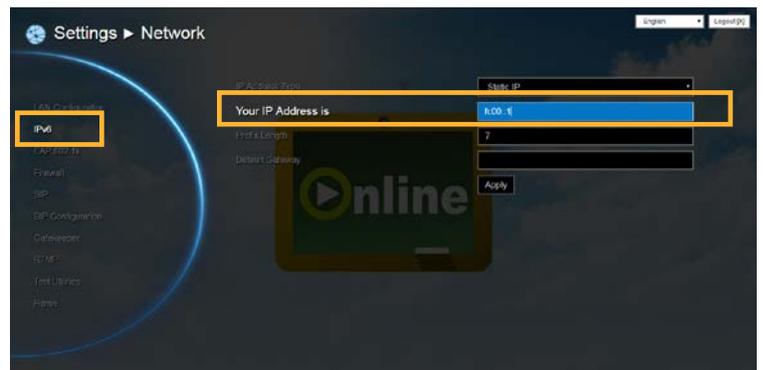
Static IP: Configure the system to use the assigned IP address. Select this when the public IP address is available.

Auto: Obtain the dynamic IP address automatically.



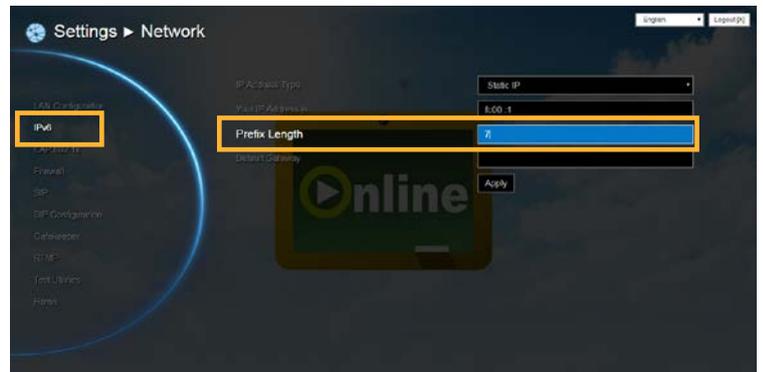
Your IP Address is

Show the current IP address; enter into when you need to configure your IP address manually.



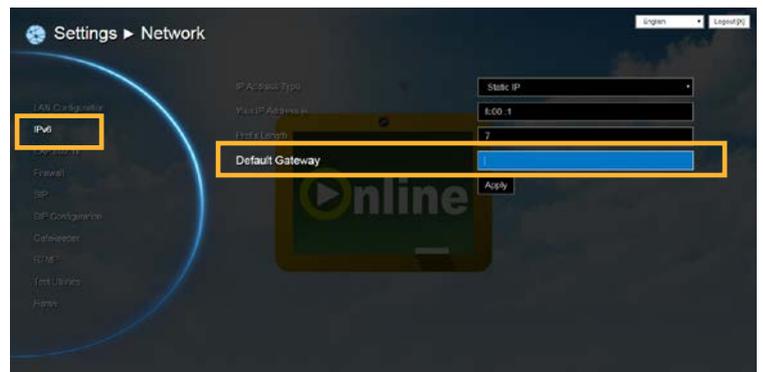
Prefix Length

Prefix Length allows you to place as many IPv6 devices as the underlying network medium allows.



Default Gateway

You can input the IP address of the gateway server if available. Or just leave it blank.



After finishing all settings, select **“Apply”** to active the changed settings.



Firewall

Configure the following items to setup the Firewall.

Select **Network** | Firewall and press .

Configure the following relative items to setup the Firewall.



TCP/UDP Ports

By default, the system communicates through TCP/UDP ports in the range from 30000 to 30299. You can specify the range for your specific network environment.



 You must configure your firewall to allow inbound/outbound traffic through “UDP (port 1719)”/ “TCP (port 1720)” for H.323 call setup.

NAT Configuration

KZ-VC6000 supports NAT systems that use the internal IP addresses to communicate with other devices outside the LAN.



NAT Public (WAN) Address

The NAT public address must be entered when you enable the feature on NAT configuration.



SIP

Session Initiation Protocol (SIP) allows you around the world to communicate using your supported devices over the Internet.

Select **Network** | **SIP** and press .

Configure the following relative items to setup the SIP.



SIP Site Name

Enter the SIP site name for others to identify. The SIP site name may be the same or different then the domain for Web activity.



Internet Protocol

Select internet protocol check box to enable IPv4 or IPv6 protocol using.



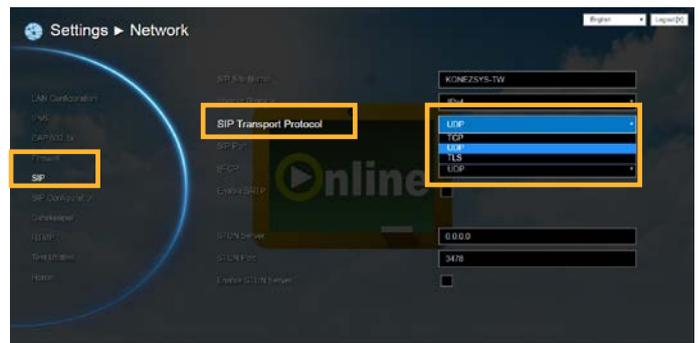
SIP Transport Protocol

Select the SIP Transport Protocol type from the drop-down list for using. There are three types of Internet Protocol (IP) traffic. They are Transmission Control Protocol (TCP) Transport Layer Security (TLS), and User Datagram Protocol (UDP). To ensure proper connection, verify if all calling parties are using the same transport protocol. By default, it is set to UDP.

TCP: TCP is connection oriented. Once a connection is established, data can be sent bidirectional.

UDP: UDP is a simpler, connectionless Internet protocol. Multiple messages are sent as packets in chunks using UDP.

TLS: TLS provides communications security over a computer network. Major web sites use TLS to secure all communications between their servers and web browsers.



SIP Port

Change this value only if you use specific settings in your network system. By default, the SIP port is set to 5060.



BFCP

Enable presentation sharing function in SIP. It allows you to share the presentation file screen to other callers in online interactivities.



Enable SRTP

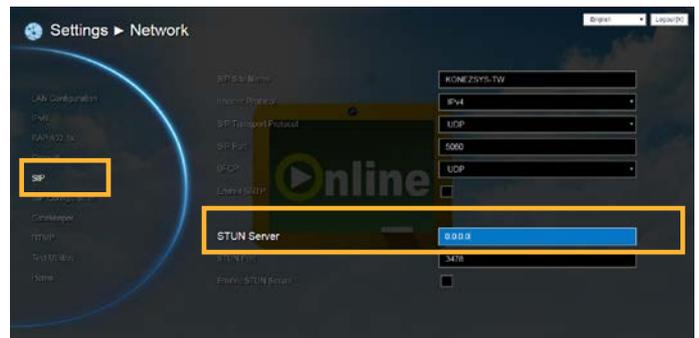
Secure Real-time Transport Protocol (SRTP) intends to provide encryption, message authentication and integrity. The only exception is the message authentication feature which is indispensably required when using SRTCP. This function is disabled by default.



STUN Server

STUN (Session Traversal Utilities for NAT) is a standardized set of methods and a network protocol to allow an end host to discover its public IP address if it is located behind a NAT.

Enter IP address of SIP NAT traversal server.



STUN Port

Enter port number of STUN server.



Enable STUN Server

Mark to enable STUN server function.



SIP Configuration

A typical SIP session involves a client requesting a session with a SIP server. After the request is received, the SIP server returns a response to the user indicating the availability of the session.

1. Select Network | SIP Configuration and press .
2. Configure the following relative items to setup the Server.



Operating Mode

Select Operating Mode and press  to select the mode from drop-down list.

Become a Client: Register KZ-VC6000 main system to SIP external server.

Become a Server: Set KZ-VC6000 main system as a SIP server.

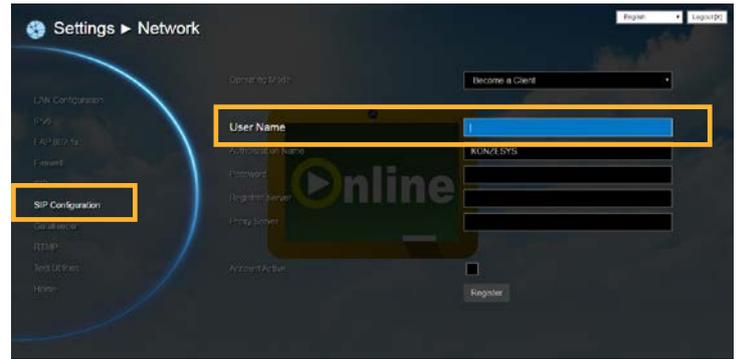
OFF: To deactivate using SIP.



Become a Client: Select Operating Mode is “Become a Client” in SIP Configuration. Then, enter the following information to register to SIP server.

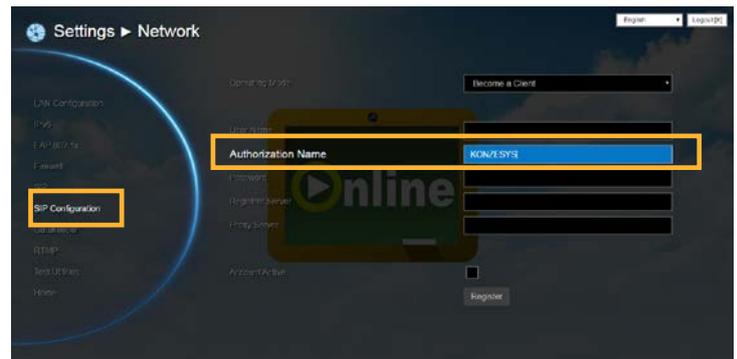
User Name

Select User Name and press  to enter user name.



Authorization Name

Select Authorization Name and press  to enter authorization name.



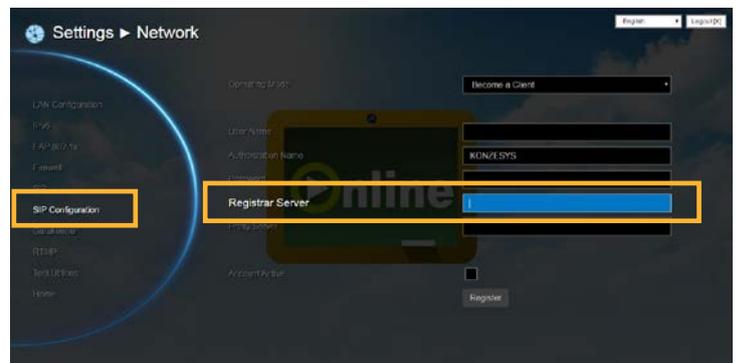
Password

Select Password and press  to enter using password.



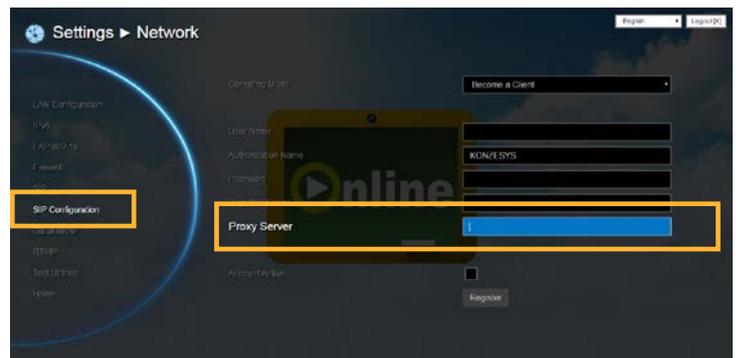
Registrar Server

Registrar Server accepts registrations from users and places these registrations, (which is essentially location information), in a database known as a location service. Enter the Registrar Server name that you want to use.



Proxy Server

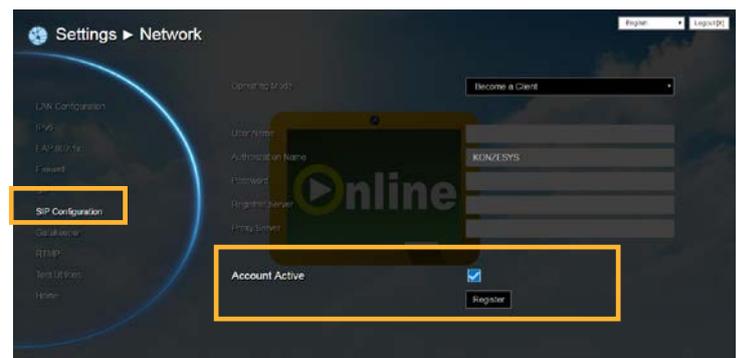
Proxy Server is computing device (typically a server) that interfaces between data processing devices and others within a communications network. These devices may be located on the same local area network or an external network. Enter the used Proxy Server name.



Account Active

Select “**Account Active**” check box and press  to activate/deactivated.

Next, go to **Register** button and press  to register to the SIP server.



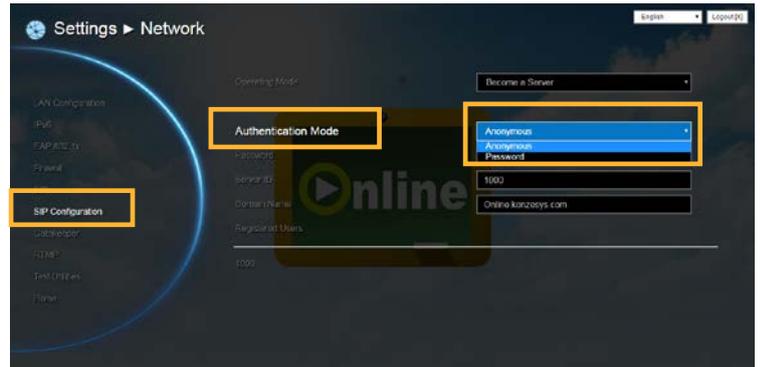
Become a Server: Select Operating Mode is “Become a Server” in SIP Configuration. Then, enter the following information to be a SIP server.

Authentication Mode

Select authenticate way to authorize SIP client.

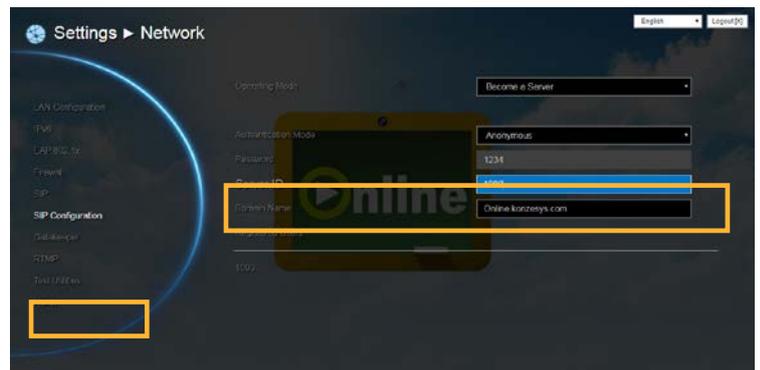
Anonymous: No password required for any SIP client.

Password: Password is required for SIP client to connect SIP server. Set the password in Password column.



Password

When authentication mode is Password mode, a password is required to be set. The default password is “1234”.



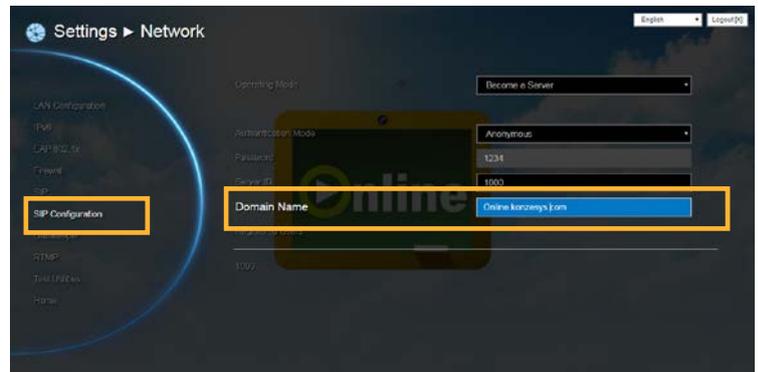
Server ID

The SIP server’s ID that wants to connect. The default server ID of KZ-VC6000 is “1000”.



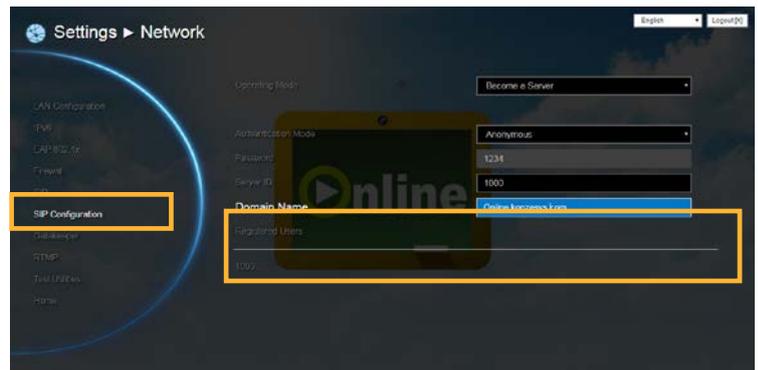
Domain Name

You can input the domain name in this area to define the server IP address.



Registered Users

List all registered SIP client.



Gatekeeper

The **Gatekeeper** in KZ-VC6000 provides translating services from E.164 IDs to IP addresses in an H.323 network.

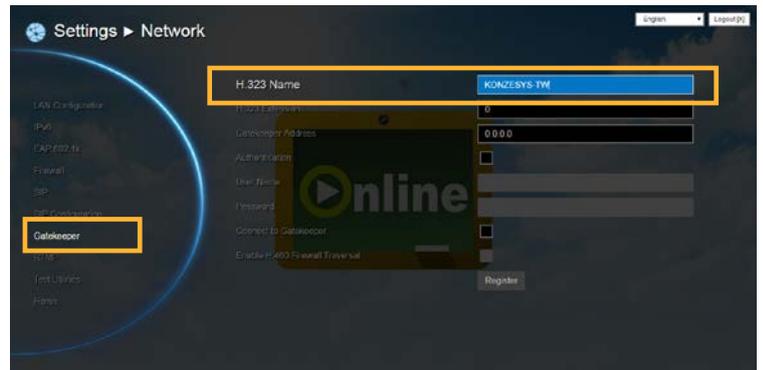
Select Network | Gatekeeper and press .

Configure the following relative items to setup the Gatekeeper.



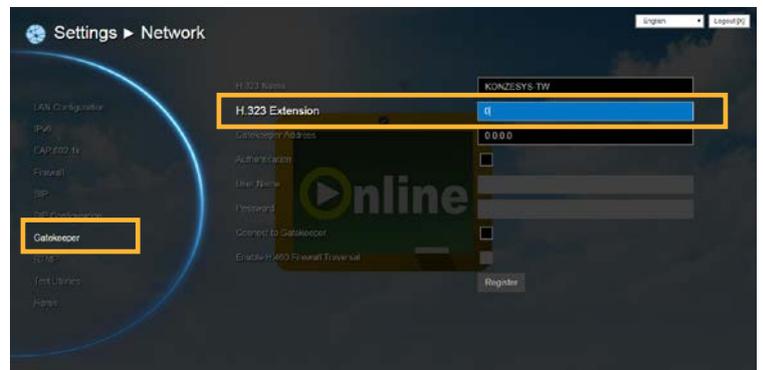
H.323 Name

Specify the name that gatekeepers and gateways can use to identify this system. Enter the name; the gatekeeper will use this name for identification.



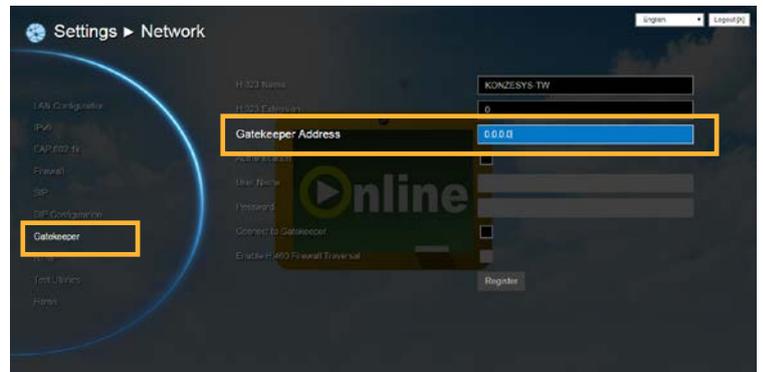
H.323 Extension

Enter a numeric value for the gatekeeper to identify your system further.



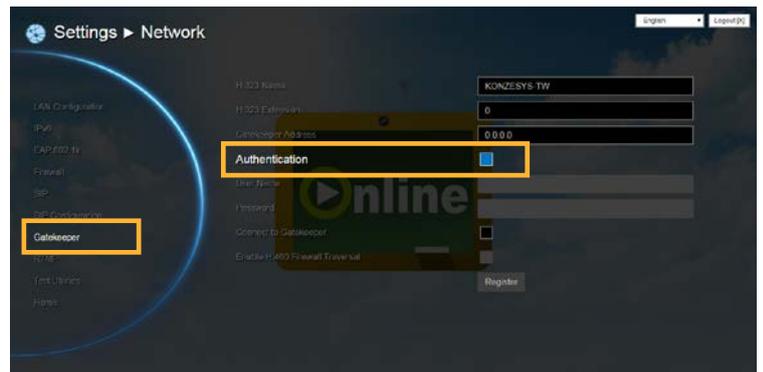
Gatekeeper IP Address

Enter the IP address for the gatekeeper server.



Connect to Gatekeeper

Select this check box to Activate/deactivate gatekeeper.

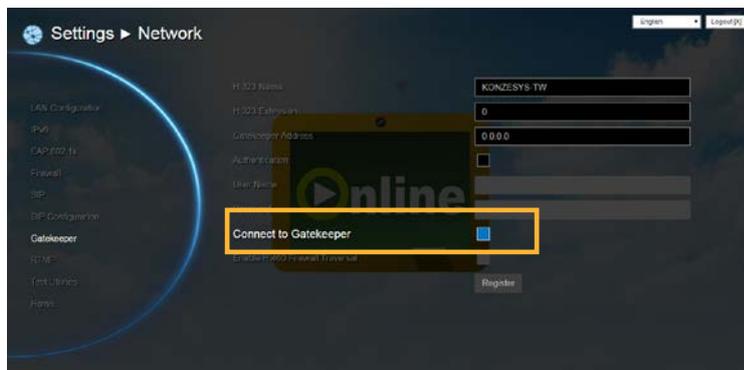


👉 Make sure to setup the Gatekeeper before setting up the Firewall.

Enable H.460 Firewall Traversal

If you want to enable the H.460 Firewall Traversal, please set the following ports in port forwarding in your firewall before start installing your KZ-VC6000.

| Port | Function | Type |
|-------------|--|-------------|
| 1719 | Gatekeeper | UDP |
| 1720 | H.323 Call setup | TCP |
| 30000~30299 | Control and media for audio, video, content, and data/FECC | TCP and UDP |
| 80,443 | HTTP Interface (WebTool) | TCP |
| 23 | Telnet | TCP |
| 5060,5061 | SIP | TCP and UDP |

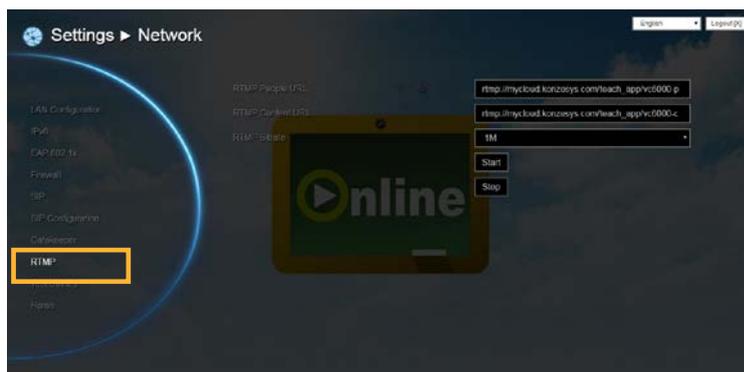


👉 Make sure your gatekeeper supports H.460 Firewall Traversal before enabling it.

RTMP

Select Network | RTMP and press .

In this session, you can input the destination platform of your live streams transmitted to.



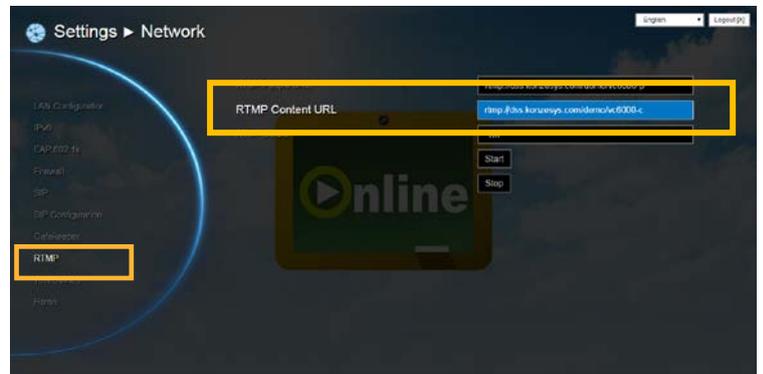
RTMP People URL

Input the URL that the video stream will be transmitted to.



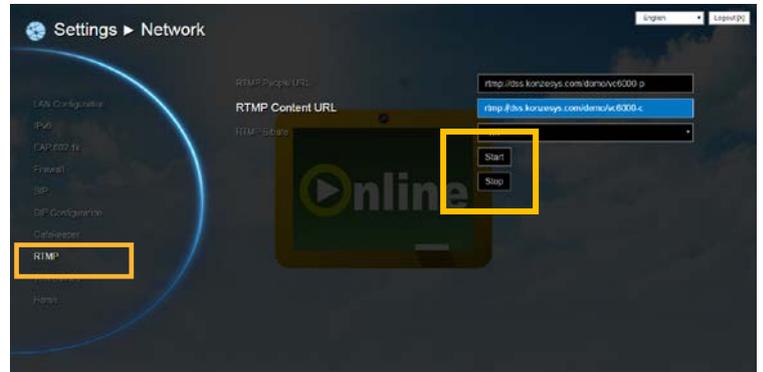
RTMP Content URL

Input the URL that the source from computer/laptop image will be transmitted to.



Start and Stop RTMP

After you have done the input of People and Content URL, just press "Start" or "Stop" to start live streaming or stop live streaming.



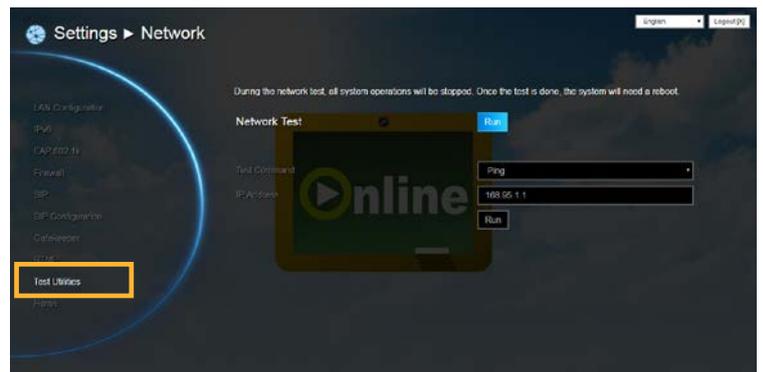
Test Utilities

This feature tests the network ability between local and far site.

Select Network | Test and press .

Select Run to start testing.

Wait until it finishes the network test. The check mark will appear if the network test is successful. If it fails, save the report in a USB flash drive and contact our technical support.



Web Configurations

You can use the internet browser to access your KZ-VC6000 system through a LAN RJ-45 cable to set up the system remotely. You can also access the Phonebook to add, edit and delete entries, view and download the call history, update the system, and restore your previous settings. For web configurations, your KZ-VC6000 system default IP address is: 192.168.0.1.

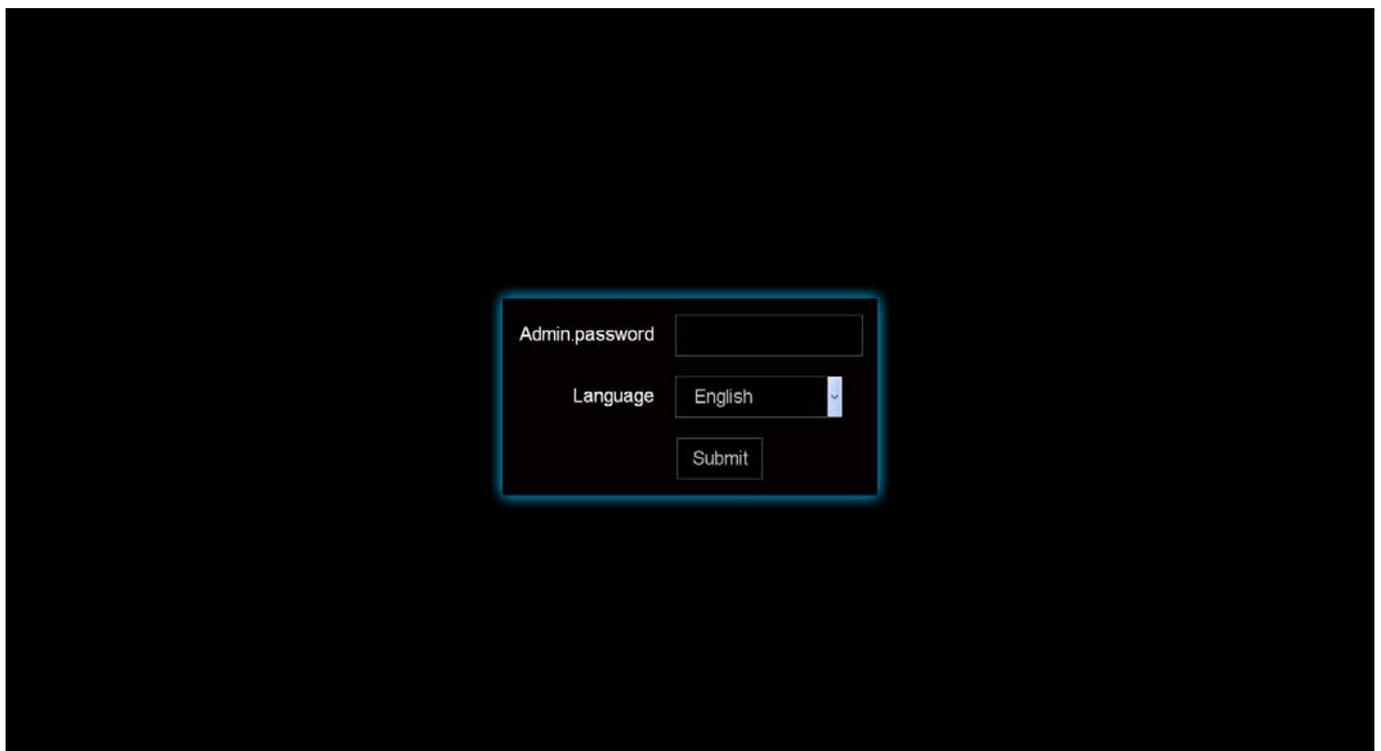
☞ Please change the IP address at the start.

Using Online Web Control

Enter the IP address or Domain Name of KZ-VC6000 in the URL field. You will need to enter admin password to log in.

In the login screen, user can select the Language of Online Web Control and enter the password, click Submit button to login.

☞ Default password is 1234



After login, user should see the video screen of local site.



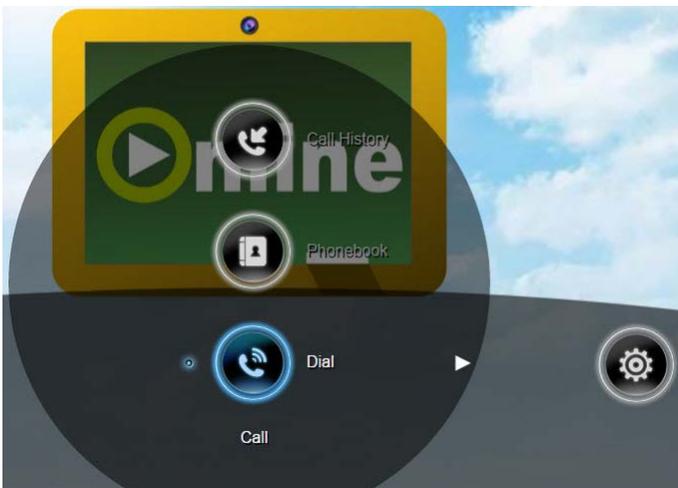
is indicated in background view mode.



is indicated in live view mode.



3. Click  icon can call out on-screen remote controller. You can use mouse to click the on-screen remote controller to operate functions on **Online Web Control**.



In the Online Web Control page, you can access the following functions:

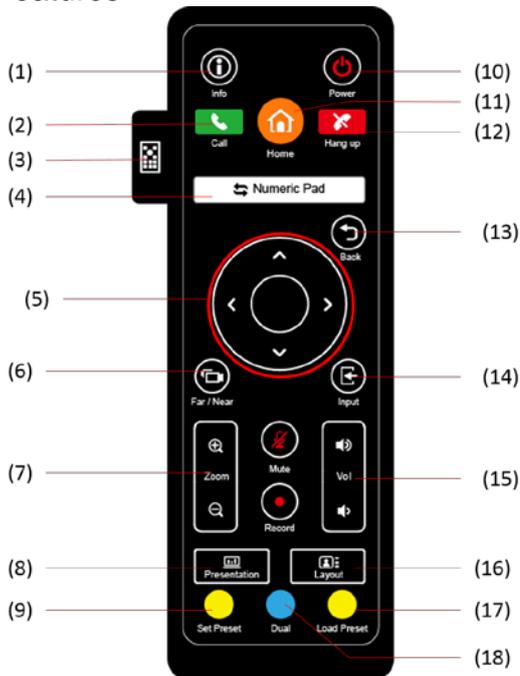
- Phonebook
- Dial
- Call History
- Video/Audio
- General Setting
- Network

☞ You can use the mouse to click the specified icon for a selection.

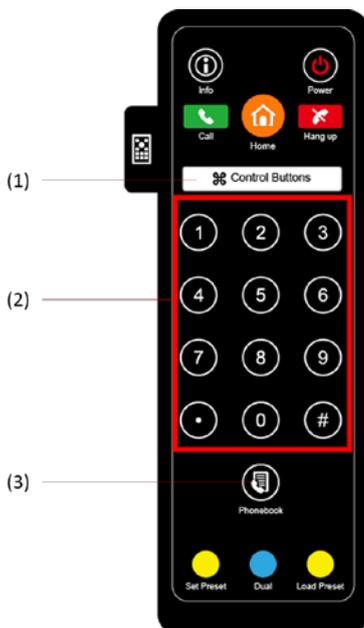
☞ In Online Web Control, all functions are same as on KZ-VC6000 system.

Virtual Remote Controller

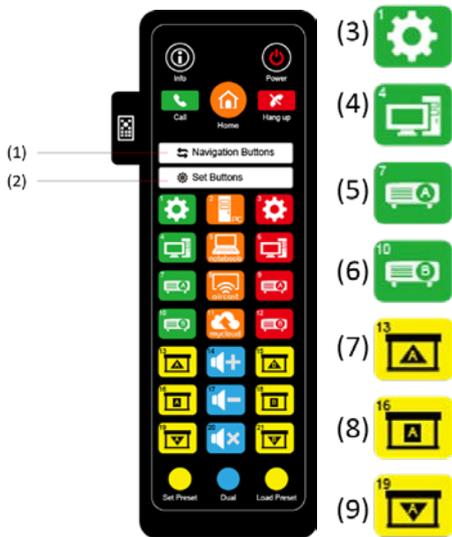
Features



- (1) Info: To get the information of connection quality and system information
- (2) Call: to access "Dial" to call a contact/site
- (3) Manu: to show / hide virtual remote controller
- (4) Switch to Numeric Pad
- (5) PTZ camera control
- (6) Switch Far / Near camera
- (7) To Zoom in (+) / Zoom out (-) camera
- (8) Share desktop contents to all attendants
- (9) To save presets of camera
- (10) Power on / off
- (11) Back to the homepage of Online Web Control
- (12) Disconnect an online interactivity
- (13) Back to the previous session
- (14) Switch the inputs of resources
- (15) Volume adjustment
- (16) Layout switch
- (17) To load the existing presets
- (18) To switch Single / Dual display mode



- (1) Switch to control panel
- (2) Numeric pad: To dial and input presets
- (3) To access "Contact List" session



- (1) Switch to “Navigation Buttons”
- (2) To set up the control codes of preset buttons
- (3) Central Control power on
- (4) PC power on
- (5) Projector 1 power on
- (6) Projector 2 power on
- (7) Projection Screen 1 up
- (8) Projection Screen 1 stop
- (9) Projection Screen 1 down



- (10) Switch to PC resource
- (11) Switch to Laptop resource
- (12) Switch to Wireless Presentation device
- (13) Switch to Plugged-in device
- (14) Volume up
- (15) Volume down
- (16) Mute
- (17) Central Control power off
- (18) PC power off
- (19) Projector 2 power off
- (20) Projector 2 power off
- (21) Projection Screen 2 up
- (22) Projection Screen 2 stop
- (23) Projection Screen 2 down

Managing Phonebook

In the Phonebook page of Online Web Control, all functions are the same as your KZ-VC6000 Application. One difference is the Upload/Download.

Edit and Save

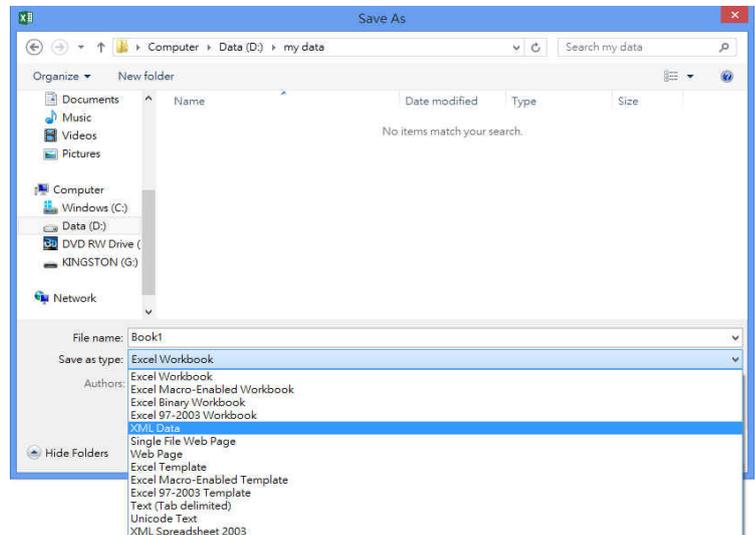
1. Locate and open the file using MS Excel and select Office XML Handler to create a schema based on the XML source data.



2. Edit the file.

| | A | B | C | D | E |
|---|----------|--------------|--------------|---------------|--------------|
| 1 | site | h323 | call_quality | group | sip |
| 2 | China | 10.100.91.49 | 256 | Branch office | |
| 3 | US | | 512 | Branch office | 1234 |
| 4 | SUPER | 192.168.0.1 | 64 | Customer | |
| 5 | Avte | | 1024 | Customer | 10.100.93.68 |
| 6 | Jack Lin | 192.168.0.8 | 64 | Customer | |
| 7 | Lucky | | 768 | Customer | 10.100.93.67 |

3. Make sure to save the file as XML Data so it can be uploaded back to the system.



Download Phonebook Entries

Download allows you to download contact data from your KZ-VC6000.

1. Click Phonebook | Upload/Download.
2. The saving Phonebook data from KZ-VC6000 dialogue box will appear.



3. Click “**Save**” to save the file.
4. After saving, you have to re-arrange your browser to update your Phonebook so that it can be the same as your KZ-VC6000 system.

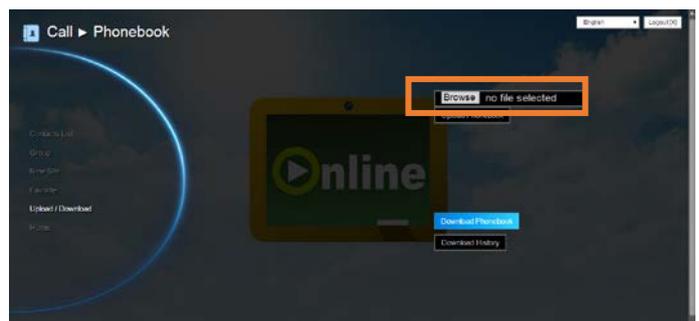


Upload Phonebook Entries

Upload allows you to upload the data that you have edited or added from your Online Web Control to your KZ-VC6000 system.

1. Click “Upload Phonebook” to upload the XML file to your KZ-VC6000 system directly.
2. You can also click “**Browse**” to open the Phonebook file(*.xml) saved in your PC to upload to your KZ-VC6000 system.

After the upload, the data of Phonebook on your KZ-VC6000 system will be modified right away.



You can also download the phonebook entries and upload them to another KZ-VC6000 unit.

System Update

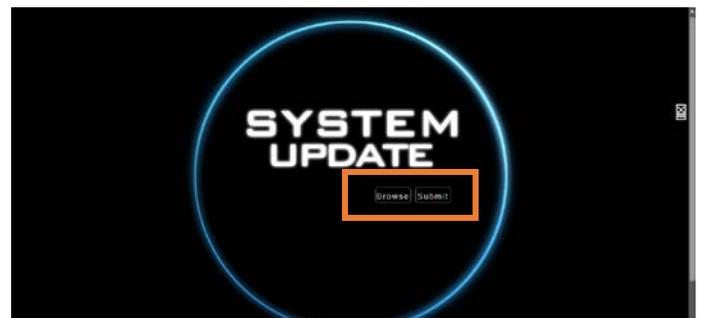
Update System

You can update the latest KZ-VC6000 firmware Online Web Control.

1. Click General Setting | System Update
2. Click “System Update” to update your system from the Internet.



3. Click “Browse” to browse and locate the downloaded firmware file .dat.



4. Click “Submit” to begin the system update or Cancel to stop this operation.



WARNING! Please do not perform any operations during the updating process.

Audio

Can't hear the audio during a call

- Make sure the MICs are not muted.
- Make sure the MIC and speaker connections are properly connected as illustrated in the manual.
- Make sure the MIC and speaker device are workable.
- Ensure proper volume level on the system.

The audio quality is poor

- Ensure the MIC is not damaged.
- Try to adjust the "Mic Gain Level".
- Make sure the MIC is not facing the output speakers to prevent echo.

Video/Display

Video conference call is established but no video or voice.

- If you are connecting to KZ-VC6000 with firewall, make sure you have done the port forwarding correctly. For non H.323 ALG firewall, please set the NAT configuration and the WAN IP address on KZ-VC6000 system is entered.
- We suggest having a static IP address for KZ-VC6000. With Dynamic public IP address, it will change after a certain period which depends on your local ISP.
- There is a routing issue if you installed two KZ-VC6000 systems sharing one public IP address.

Unable to connect to other video conferencing systems.

- Check to see if you dial the correct IP address.
- Ensure the power status of the device from the other site is on.
- Verify if the firewall blocks the inbound traffics from the other site.
- Verify if the other site rejected your call.

Unable to see the OSD.

- Check to see if your cable is connecting correctly.
- Make sure your system and display are well-connected and then reboot your system. (Your display should be switched on before you reboot your system.)
- Press "Dual" button on remote controller (User needs to keep pressing until OSD menu is shown).

Why can't I see the UI configuration screen after connecting the VGA cable and powering on KZ-VC6000 systems upon screen saver mode?

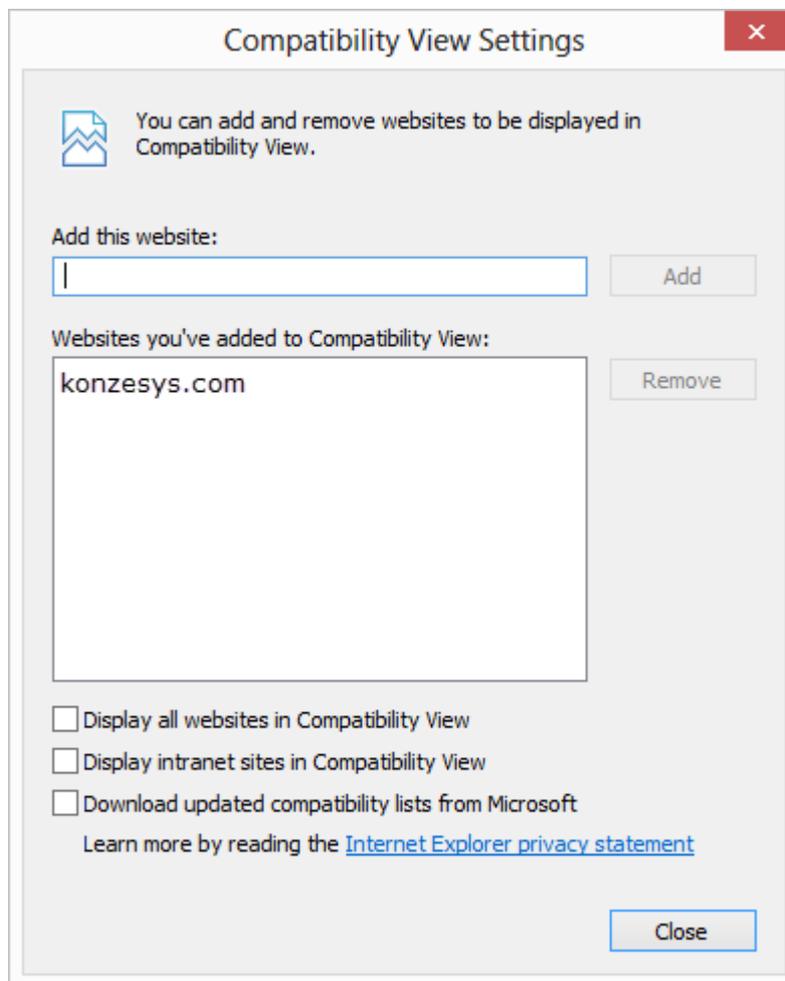
- Please plug and unplug the VGA connector again to re-connection the VGA cable.

The LAN connection is fail.

- Make sure you have changed your default IP address. The default IP address is 192. 168.0.1, in order not to conflict with other devices in the same LAN, please change your IP address at the start.

Cannot open Online Web Control by IE9 and IE10.

1. Click  (General Setting icon) in IE.
2. Select “F12 developer tools”.
3. Change Document Mode to Internet Explorer 9 standards.
4. Disable intranet sites in Compatibility View. Go to “Tools | Compatibility view settings”.
5. Unclick the checkbox “Display intranet sites in Compatibility View” and then click “Close”.



Others

Unable to connect the call and the “Call failed” error message appears on the screen.

- Ensure the IP address for the calling is correctly.
- Ensure the other end of your calling does not set their system to “Do Not Disturb” mode or pick up the phone.
- Ensure you are not calling to a system that has already up to maximum call-in limitation.

Forget the administrator password.

- Please contact YOUR technical support for assistance.

Unable to control the far end camera.

- Make sure the “Cam Ctrl”  icon is positioned on the screen you want to control. Press “Far/Near”  button on the remote controller to switch to the desired screen.
- Make sure the far site has enabled the “Far End Camera Control” setting. To enable this function, press “Home”  button and got to General Setting | Administrator and then select “Far End Camera Control”.

KZ-VC6000 cannot detect the USB drive.

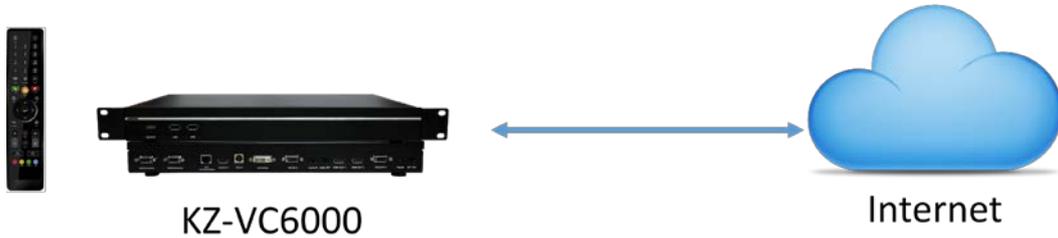
- Unplug and plug the USB flash drive again and wait for 10 to 15 seconds for the system to re-detect the new USB device.
- We do not recommend using an external HDD; it may cause system errors or recording failures.

Scenarios for LAN Connection

Public IP Configuration

(Outside of Firewall)

Your KZ-VC6000 system is connecting directly to the internet.



1. From the remote press “Home”-> “>” -> “Setting”.



2. Press “v” -> “Network”.



3. Press “LAN Configuration”.
 4. And In the drop-down list “Obtain IP address”, choose “Static IP” or “PPPoE”.
- **Static IP:** Input the “IP address”, “Subnet Mask” and “Default Gateway”.



Static IP setting

- **PPPoE:** Input the PPPoE login “User name” and “Password”.
5. Select “Apply” and press  (Enter).
 6. Press “Home” on the remote to return to the home menu.
 7. Press the  (Call) button on the remote and you are ready to make your first call.



PPPoE setting

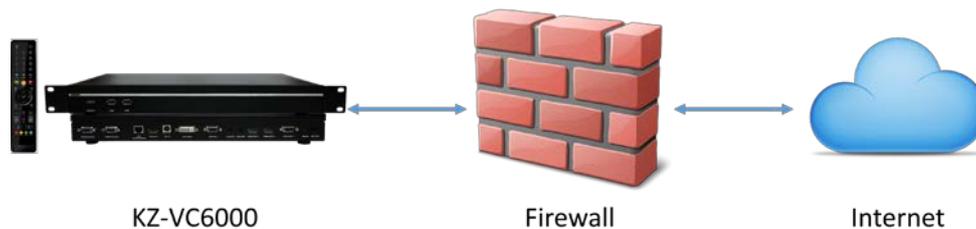
Private IP Configuration

(Behind Firewall with Port Forwarding)

Please make sure you have set the following ports in port forwarding in your firewall.

| Port | Function | Type |
|-------------|--|-------------|
| 1719 | Gatekeeper | UDP |
| 1720 | H.323 Call setup | TCP |
| 30000~30299 | Control and media for audio, video, content, and data/FECC | TCP and UDP |
| 80,443 | HTTP Interface (WebTool) | TCP |
| 23 | Telnet | TCP |
| 5060,5061 | SIP | TCP and UDP |

Your KZ-VC6000 system is connecting to the internet through a firewall.



1. From the remote press “Home”-> “>” ->  “Setting”.



2. Press “” ->  “Network”.



3. Press “LAN Configuration”.
4. And In the drop-down list “Obtain IP address”, choose “Static IP” or “DHCP”.
 - **Static IP:** Input the “IP address”, “Subnet Mask” and “Default Gateway”.
 - **DHCP:** Configure the system to automatically obtain an IP address from the DHCP server.

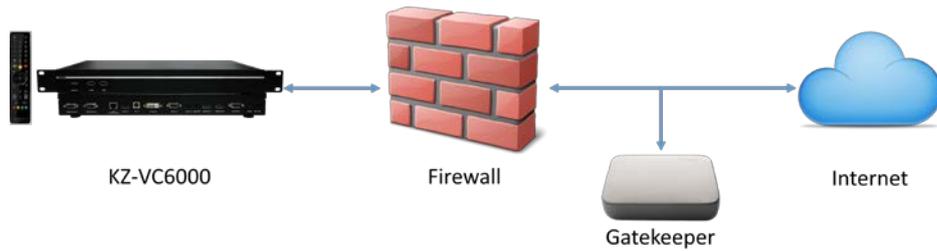


5. Select “Apply” and press  (Enter).
6. Press  (Back) on the remote to return to previous menu. (If you have H.323 ALG enabled, skip to step 10).
7. In the same page, go to “Firewall” and press  (Enter).
8. Select “ON” in the NAT check box and enter the IP address in the “NAT Public (WAN) address” field.
9. Press the “Home” button on the remote to return the home menu.
10. Press the  Call button on the remote and you are ready to make your first call.



H.460 Gatekeeper with Firewall Traversal

Your KZ-VC6000 system is connecting to the internet through a firewall and you have a Gatekeeper outside the firewall.



1. From the remote press “Home”-> “>” -> “Setting”.



2. Press “v” -> “Network”.



3. Press “LAN Configuration (IPv4)”.
4. And In the drop-down list “Obtain IP address”, choose “Static IP”.
5. Manually input the “IP address”, “Subnet Mask” and “Default Gateway”.
6. Select “Apply” and press (Enter).
7. In the same page, go to “Gatekeeper” and press (Enter).



8. Enter the IP address of your Gatekeeper in the “Gatekeeper IP Address” field and enable the “Use Gatekeeper” check box.
9. Enable the “Enable H.460 firewall Traversal” option.
10. Press the “Home” button on the remote to return the home menu.
11. Press the  (Call) button on the remote and you are ready to make your first call.



Remote Control Battery Safety Information

1. Store batteries in any cool & dry place.
2. Do not dispose used batteries in domestic waste. Dispose batteries at special collection points or return to stores if applies.
3. Remove the batteries if they are not in use for long period of time. Battery leakage and corrosion can damage the remote control, dispose batteries safely.
4. Do not mix and use old and new batteries.
5. Do not mix and use different types of batteries: alkaline, standard (carbon -zinc) or rechargeable (nickel-cadmium).
6. Do not dispose batteries in a fire.
7. Do not attempt to short circuit the battery terminals.

Limited Warranty

For a period of time beginning on the date of purchase of the applicable product and extending as set forth in the “**Warranty Period of Konze Product Purchased**” section of the warranty card, Konze System Technology Co., Ltd. (“KONZESYS”) warrants that the applicable product (“Product”) substantially conforms to KONZESYS’s documentation for the product and that its manufacture and components are free of defects in material and workmanship under normal use. “You” as used in this agreement means you individually or the business entity on whose behalf you use or install the product, as applicable. This limited warranty extends only to you as the original purchaser. Except for the foregoing, the Product is provided “AS IS.” In no event does KONZESYS warrant that You will be able to operate the Product without problems or interruptions, or that the Product is suitable for your purposes. Your exclusive remedy and the entire liability of KONZESYS under this paragraph shall be, at KONZESYS’s option, the repair or replacement of the Product with the same or a comparable product. This warranty does not apply to (a) any Product on which the serial number has been defaced, modified, or removed, or (b) cartons, cases, batteries, cabinets, tapes, or accessories used with this product. This warranty does not apply to any Product that has suffered damage, deterioration or malfunction due to (a) accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, commercial or industrial use, unauthorized product modification or failure to follow instructions included with the Product, (b) misapplication of service by someone other than the manufacturer’s representative, (c) any shipment damages (such claims must be made with the carrier), or (d) any other causes that do not relate to a Product defect. The Warranty Period of any repaired or replaced Product shall be the longer of (a) the original Warranty Period or (b) thirty (30) days from the date of delivery of the repaired or replaced product.

Limitations of Warranty

KONZESYS makes no warranties to any third party. You are responsible for all claims, damages, settlements, expenses, and attorneys’ fees with respect to claims made against you as a result of your use or misuse of the Product. This warranty applies only if the Product is installed, operated, maintained, and used in accordance with KONZESYS specifications. Specifically, the warranties do not extend to any failure caused by (i) accident, unusual physical, electrical, or electromagnetic stress, neglect or misuse, (ii) fluctuations in electrical power beyond KONZESYS specifications, (iii) use of the Product with any accessories or options not furnished by KONZESYS or its authorized agents, or (iv) installation, alteration, or repair of the Product by anyone other than KONZESYS or its authorized agents.

Disclaimer of Warranty

Except as expressly provided otherwise herein and to the maximum extent permitted by applicable law, KONZESYS disclaims all other warranties with respect to the product, whether express, implied, statutory or otherwise, including without limitation, satisfactory quality, course of dealing, trade usage or practice or the implied warranties of merchantability, fitness for a particular purpose or non-infringement of third party rights.

Limitation of Liability

In no event shall KONZESYS be liable for indirect, incidental, special, exemplary, punitive, or consequential damages of any nature including, but not limited to, loss of profits, data, revenue, production, or use, business interruption, or procurement of substitute goods or services arising out of or in connection with this limited warranty, or the use or performance of any product, whether based on contract or tort, including negligence, or any other legal theory, even if KONZESYS has advised of the possibility of such damages. KONZESYS's total, aggregate liability for damages of any nature, regardless of form of action, shall in no event exceed the amount paid by you to KONZESYS for the specific product upon which liability is based.

Governing Law and Your Rights

This warranty gives you specific legal rights; you may also have other rights granted under state law. These rights vary from state to state.

Federal Communications Commission Statement (Class A)

FC NOTE- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/television technician for help.

☞ For warranty period, please refer to the warranty card.

Class A ITE

Class A ITE is a category of all other ITE which satisfies the class A ITE limits but not the class B ITE limits. Such equipment should not be restricted in its sale but the following warning shall be included in the instructions for use:

Warning - This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CE Class A (EMC)

CE This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2004/108/EC.

Warning - This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to correct this interference.

Copyright

© 2016 by Konze System Technology Co., Ltd. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form by any means without the written permission of Konze System Technology Co., Ltd.

Trademarks

KONZESYS is registered trademarks of Konze System Technology Co., Ltd. Other trademarks used herein for description purpose only belong to each of their companies.

Disclaimer

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice. In no event will KONZESYS be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use this product or documentation, even if advised of the possibility of such damages.



The mark of Crossed-out wheeled bin indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where to drop off your waste equipment for recycling, please contact your household waste disposal service or the shop where you purchased the product.

Konze System Technology Co., Ltd.

Website: <http://www.konzesys.com>