

Vibe Client System Requirements

Vibe has certain requirements for the Clients for PC's, Mobile Devices and H.323 Systems.

- **Personal Computers**
 - Personal Computer Operating Systems
 - Personal Computer Microprocessors
 - Personal Computer RAM
 - Personal Computer Software
 - Internet Bandwidth
 - Firewall rules (Vibe RNode Customers)
 - Firewall rules (Vibe SRN Customers)
 - Cameras
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- **Mobile Devices**
 - Mobile Device Operating Systems
 - Android requirements
 - iOS requirements
- **H.323 Devices**

Personal Computers

Personal Computer Operating Systems

Vibe runs on the following operating systems:

- Windows 7 or newer
- Mac OS 10.8.5 or higher
- Linux 3-4 years old, version 7 or higher (RHEL7/SLC7/centos7/debian7/etc).

Personal Computer Microprocessors

Vibe runs on the Intel Core(tm) line of microprocessors starting with the Core(tm) Duo or later. The Core(tm) Duo was introduced in 2006 and Intel has continued to expand the user base on the Core(tm) i3, i5 and i7 microprocessors. Vibe will run on AMD processors of equivalent power. Specifically excluded from the full Vibe experience are Centrino and Atom processors which do not have the power to encode and decode multiple, simultaneous video streams. Users will have a lesser experience which is sized to fit the reduced capacity of these microprocessors.

Personal Computer RAM

You need to have a minimum of 1GB of RAM available for Vibe. Closing unnecessary applications will improve the performance of machines with limited RAM.

Personal Computer Software

Your graphics card must support [OpenGL v1.5 or later](#). This is not a difficult requirement for modern machines as this version is more than 10 years old, but very old or very weak machines (i.e. netbooks) might not comply with this requirement.

Internet Bandwidth

Vibe is optimized for every meeting type to run on a DSL speed Internet connection or better. Ezuze assumes the user will have at least a 500 kilobits per second up-link speed and at least 5 megabits per second downlink speed with their service provider. Typically, WiFi cannot sustain these speeds. Users will find a WiFi connected meeting starts with reasonable video quality, but eventually degrades as other devices that share the WiFi connection disrupt the network throughput. Users should, therefore, connect to the Internet through a hardwired connection to assure a faster connection with fewer lost packets. This is particularly important to Vibe as each video tile is a real-time stream so a 10 person meeting is

the equivalent to nine simultaneous real-time videos streams from Netflix. Use a hard-wire connection, as WiFi wasn't designed for this amount of traffic. That said we have many users report they have great meeting quality over WiFi so your results will vary depending on the quality of your WiFi and the devices connected in your immediate area.

Firewall rules (Vibe RNode Customers)

For organizations that have very tight network security for their firewalls, it may be necessary to open your firewall on your router. The firewall will need the following ports opened for the client's machine: 36015 UDP and TCP, both IN and OUT. Best audio and video quality will be achieved with UDP port 36015 UDP both IN and OUT open for the connection.

There is also the possibility to use "general" TCP ports 80, 443, 8080, 8443 to connect to the Vibe server. This is very helpful in the case where one or more remote participants are in a strictly controlled environment such as a hotel or coffee shop where they cannot alter the firewall policy and have to use generally available ports for Internet access. This feature is selectable by the organization who is hosting the server. See your Vibe account manager for more details.

Firewall rules (Vibe SRN Customers)

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Cameras

Any webcam with VGA output up through 1080p will work. If your camera uses HDMI output ports (typical on camcorders) you will need a BlackMagic graphics card (Intensity Pro or Intensity Shuttle) to connect to your computer. Most notebooks with built-in cameras will work just fine. Vibe auto-detects available cameras and will intelligently select the appropriate camera, however, the user may desire to select another camera option from the camera pull-down-menu which is found on the arrow in the bottom right-hand corner of the camera icon. Multiple simultaneous use of cameras is also possible. See your administrator to turn on this feature in your virtual meeting rooms.

Microphones

Any microphone that connects to your PC should work. If others have a hard time hearing you it means that either your microphone gain is too low or you have an impedance mismatch between your computer's audio line-in and your microphone. To increase your microphone's gain go to your system sound menu and increase the microphone's volume. If this doesn't increase your volume to others, try to boost your microphone by selecting the boost checkbox in Window's sound system menu. There is no equivalent boost mechanism for the Macintosh. If this does not increase your output volume to others you likely have an impedance mismatch between your microphone and computer. Consult your computer and microphone documentation for the appropriate impedance specifications.

The following external microphone/speaker have noise-canceling capabilities and have been successfully tested with Vibe: Solo, Duet, Quattro2 and Quattro3 from Phoenix, the Plantronics 420M (especially for Linux Operating Systems) and the Plantronics Calisto P820. Many other external room sound devices have been used successfully by Vibe customers. This list is by no means comprehensive. Vibe has software-based echo cancellation and noise reduction built into the service. Some computer configurations can overpower this feature if your speakers are too close to the microphone. Adjusting speaker direction or volume can correct the situation. Note: the user who doesn't hear an echo is the one who needs to adjust their speaker position or volume.

Mobile Devices

Mobile Device Operating Systems

Vibe runs on the Android Operating System version 2.3.3 Gingerbread or newer and iOS version iOS 6.0 or later. A WiFi Internet connection is preferred over a carrier service as most WiFi networks are providing better bandwidth. Check the situation at your location as this is not always the case.

Android requirements

Vibe runs on Android 2.3.3 Gingerbread (API level 10) or later. We recommend using a device with an ARM7 dual-core processor or better with a screen resolution of 1280x800 and a connection speed of 1Mb/s download and 500 kb/s upload (for bi-directional audio and video). Additionally, a headset is suggested for devices running Android versions below 3.0. Suboptimal performance can be expected on any device with lower capabilities.

iOS requirements

It is recommended to use iPad2 and iPhone 4S with a connection speed of 1 Mb/s download and 500 kb/s upload (for bi-directional audio and video). Sub-optimal performance can be expected on any device with lower capabilities.

H.323 Devices

Vibe has been successfully tested to interoperate with the following companies' H.323 devices.

- Polycom
- Tandberg
- Cisco
- Sony
- Lifesize
- Mirial
- Hewlett Packard